

JUNE 1982

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BROADCAST COMMUNICATIONS

THE INTERNATIONAL
JOURNAL OF
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ST Series II

High marks in everything

The ratings are in on our ST Series AM/FM Broadcast Consoles—and they're number one. They rate high for versatility, reliability and overall excellence.

But we know that even the finest products can be made better—that's why we've introduced the new ST Series II. These new consoles incorporate even more features to insure greater capability and performance.

The new ST consoles offer a series of modular frames that can be equipped to meet your specific needs. A wide range of input, output and signal processing modules is available to cover your present requirements and provide for future expansion.

At ADM we're never content to stand still—the new ST Series II consoles are impressive proof of that. We're so confident of their excellence that they're backed by an exclusive 5-year warranty.

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JUNE 1982

BROADCAST COMMUNICATIONS

THE INTERNATIONAL JOURNAL OF BROADCAST TECHNOLOGY

BEHIND THE SCENES

COMING ATTRACTIONS AT A GLANCE

SEPTEMBER

Satellite Applications Review

Energy-Efficient Facility Design ★

RTNDA Preview



Ad Performance Study

BONUS DISTRIBUTION

★ Supplemental mailing to all current CP Holders in the U.S.

RTNDA, Las Vegas, September 30-October 2

AD CLOSING DATE
AUGUST 16

OCTOBER

High-Definition Television

Resurrecting AM Stereo

Fall SMPTE Preview

Improving TV Audio

And featuring the fourth quarterly installment of

ACCESS
TO CABLE COMMUNICATIONS

BONUS DISTRIBUTION

Fall SMPTE, New York, November 7-12

AES, New York

AD CLOSING DATE:
SEPTEMBER 17

NOVEMBER

The Automated Newsroom



Computer Business Systems

Radio Automation Update

AD CLOSING DATE:
OCTOBER 15

NOTE — Behind the Scenes is a special promotional insert bound only in those complimentary copies of BROADCAST COMMUNICATIONS distributed to advertisers, prospective advertisers and advertising agencies.

The ideal advertising medium combines **Readership with Buying Activity.**

OVERALL RESULTS McGraw-Hill Advertising Performance Study February, 1982 Edition

AVERAGE SCORES — SIZE AND COLOR

Advertiser	Number of Ads	Attracted Attention	Began To Read	Read Half or More	Action Taken or Planned					
					Planned or Took or More Actions	Evaluated Ad Info for Future Needs	Filed Ad	Shown it to/ Discussed it with Others	Re-requested More Information	Recommended/ Specified Purchase
Fractional Page Ads	20	49%	25%	15%	57%	32%	13%	5%	8%	2%
1 Page Ads	26	63	31	20	61	33	14	8	9	3
2 Page Ads	1	83	43	32	59	21	13	11	7	9
Black & White	24	50	26	15	58	32	13	6	10	3
2 Color	10	58	31	19	61	35	16	7	8	2
4 Color	13	71	33	22	59	33	14	8	8	4
Average — All Ads	47	58%	29%	18%	59%	33%	14%	7%	9%	3%

AVERAGE SCORES — PRODUCT GROUPS

Advertiser	Number of Ads	Attracted Attention	Began To Read	Read Half or More	Action Taken or Planned					
					Planned or Took or More Actions	Evaluated Ad Info for Future Needs	Filed Ad	Shown it to/ Discussed it with Others	Re-requested More Information	Recommended/ Specified Purchase
Video Products	26	59%	28%	17%	58%	29%	15%	8%	9%	3%
Audio Products	18	58	32	20	63	38	12	6	9	2
Audio/Video Products	3	43	23	11	48	27	11	3	10	1
Average — All Ads	47	58%	29%	18%	59%	33%	14%	7%	9%	3%

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*enjoys extraordinary readership and recall,
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COMMUNICATIONS**

4121 West 83rd Street; Suite 132
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(913) 642-6611

ADDA CORPORATION



Why the Networks' TBC Is Getting Popular in Smaller Markets.

In less than five years, our VW series has become the broadcast industry's basis for comparison in time base correction and frame synchronization. The ADDA VW is standard equipment for 3 of the 4 networks, as well as O and O's.



The affiliates and independents have been watching, listening and making up their minds. More and more of them, even in the medium and smaller markets, are ordering the VW-1 (for 3/4" VTR's) and the VW-2 (for 3/4" and 1" VTR's).

The way we see it, the reasons for this trend are clear:

- ☐ Superior digital signal processing
- ☐ Unequaled reliability
- ☐ Infinite correction window
- ☐ Full-bandwidth electronic freeze frame
- ☐ Frame synchronization (The VW can take raw external feeds and let you switch them synchronously with studio material.)
- ☐ Meets RS-170A

Of course, the VW costs more than some of its competitors. The ultimate usually does. But the difference buys you a great deal more; and the difference may well be less than you think, because prices are lower now.

The best way to understand the difference between the VW and everything else is to watch a side-by-side comparison on your own premises. Call us for a demo. We'll be happy to show you why the VW is a TBC for everybody's market.

Affordable Excellence

ADDA CORPORATION

1671 Dell Avenue
Campbell, California 95008
(408) 379-1500

Fine Tuner. \$950



Barco has a reputation for quality products. And in the AVD-33 video tuner, which permits television monitors to receive off-the-air signals, Barco quality looks better than ever.

In the AVD-33, Barco engineers have built a tuner you can rely on featuring:

- advanced digital search tuning
- 20-channel memory
- 2 video and audio outputs
- all channels, including mid and upper band
- bi-directional sequential channel selection

A fine tuner at a fine price. Barco's AVD-33.

Available from Elector, exclusive U.S. distributor of Barco communications products.

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Santa Clara, CA 95050
Phone: 408/727-1506
Telex: 0236/0172335



In Canada
Electro & Optical Systems Ltd.
31 Progress Court
Scarborough
Ontario M16 3V5
Phone: 416/439-9333
Telex: 021/06525431



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BROADCAST COMMUNICATIONS

THE INTERNATIONAL JOURNAL OF BROADCAST TECHNOLOGY

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Globecom Publishing Limited

BROADCAST COMMUNICATIONS/JUNE 1982

Get the Edge on price, performance and features

CMX hones THE EDGE with the addition of Internal Memory, Re-edit and List Ripple to its six-point advantage.

When we at CMX set out to build an advanced medium-scale editing system we took a look at the best competition had to offer. We then applied our 11 years of leadership in building editing systems to produce THE EDGE™, a system that is superior in every respect. Check these six key points and we think you'll agree.



The Human EDGE. Veteran editors and beginners alike quickly adapt to THE EDGE because its

SMART KEYS™ and layered screens take you easily through the editing process as you direct it. You set your own pace. Frame accurate time code or pulse count editing lets you concentrate on creativity and increase your productivity dramatically.



The Technical EDGE. Simple plug-in modularity makes THE EDGE expandable. Going from two to three machines? Add a card.

Expanding to a floppy disk? Add a card. Forget about stringing out black boxes. Also, servicing has been human-engineered with built-in diagnostics that trouble shoot on the spot. Information on the screen will tell you the story. No more long waits for service calls.



The CMX EDGE.

With the internal event memory, which features re-editing, list rippling, event deletion and list scrolling, you can essentially do your off-line editing with THE EDGE and build a CMX Edit Decision List. And this can all be done on a cuts-only system, if desired. Through the availability of a variety of optional techniques, such as using THE EDGE audio/video dissolver or auto-transition control of a production switcher, you can complete

your final auto-assembly on THE EDGE. If it's a highly sophisticated finished production that requires numerous special effects, you may wish to complete it from THE EDGE EDL on a 340X system. It's this flexibility of choices that gives you the most cost effective solution to your editing needs.



The VTR EDGE.

The EDGE speaks very quietly to VTR's and they respond gently. Only CMX knows how to engineer smooth-as-silk VTR interfaces. And that

includes 1-inch, 3/4-inch, and 1/2-inch machines from the major manufacturers. Mix and match them on your system.



The Protective EDGE. Last year's EDGE becomes this year's with a quick, easy update to incorporate any new features. It's just like our 340X. It's built to grow with you. It's protection against obsolescence.



The Dollar EDGE. The most important consideration in computing the true cost of an

editing system is what your bottom line is going to be a few years hence. By then you'll have expanded your system into its final configuration. You can get THE EDGE in a two-machine system for \$13,250.* The complete system, a fully-featured three machine system including A/V dissolver and floppy disk, costs about \$23,400.* That's many thousands less than competitors. That's the most you'll ever spend.

Call or write us for more information. It costs less to own or lease the very best—and to get the EDGE.

Orrox Corporation 3303 Scott Blvd., Santa Clara, CA 95050 (408) 988-2000 Telex 910-338-0554

*U.S. Domestic

TM Orrox Corporation

CMX
ORROX
The World Standard for Editing

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BROADCAST COMMUNICATIONS

THE INTERNATIONAL JOURNAL OF BROADCAST TECHNOLOGY

THE DIRECTORY

38

General Index

An index of all categories in The Directory. The index will direct you to the page where you can find the complete listing of companies that manufacture products in that category. Major categories are listed alphabetically, and sub-headings of major categories also are arranged alphabetically. For example, test equipment is divided into three major categories: generators; measuring instruments; and measuring/monitoring meters. Sub-categories include everything from stereo generators and acoustic analyzers to antenna base meters.

Advertisers in this issue are highlighted in the General Index under the categories which correspond to the products featured in their ads. There is also a reference to the page on which the ad is located.

46

Product Directory

A comprehensive and up-to-date listing of all major broadcast equipment and service categories, including U.S., Canadian, and foreign manufacturers who responded to our requests for directory information. With few exceptions, most manufacturers re-verified their listings within the past four months, making The Directory as current as possible.

114

Manufacturers

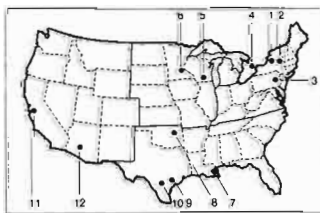
Mailing addresses for companies listed in the equipment and services categories are included along with company sales contacts. Several new additions have been

made for companies in the U.S., Canada, and from manufacturers around the world. Regional and international sales offices are included for companies advertising in this issue.

163

Suppliers Showcase

A special suppliers advertising section designed to put you in direct contact with equipment suppliers around the country.



168

Dealers and Distributors

A comprehensive guide to dealers, distributors, independent representatives, and importers/exporters. These listings are arranged alphabetically by state. This section includes complete mailing addresses, telephone numbers, and sales contacts.

The product lines carried are also listed with each entry.



Feature

190

NAB '82 Unveils A Record Number of New Products

Part 2 of a two-part review of the hottest products at this year's NAB convention.

Departments

8 On-the-Air

With cable continuing to gain momentum at the expense of the broadcast industry, broadcasters are renewing the fight over copyright protection while, at the same, trying to plan strategies to capitalize on the new technologies.

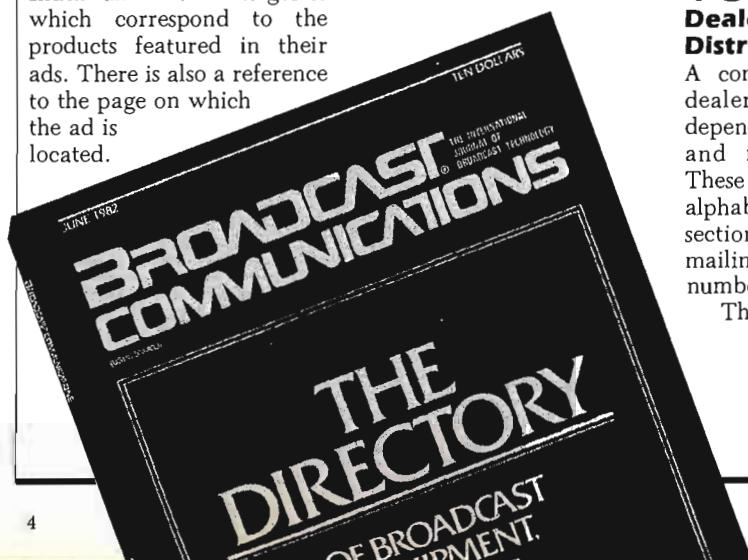
10 World Update

The Society of Broadcast Engineers has taken the lead in efforts to establish an effective certification procedure for broadcast engineers.

26 Newsmakers

205 SBE Monthly Log
206 Advertisers Index

Cover—Cover design by Mary Christoph.





NEW!

THE 1680 SERIES

*Built on the solid reputation of the 1600 Series for reliability and ease of operation
...with nearly double the production power!*



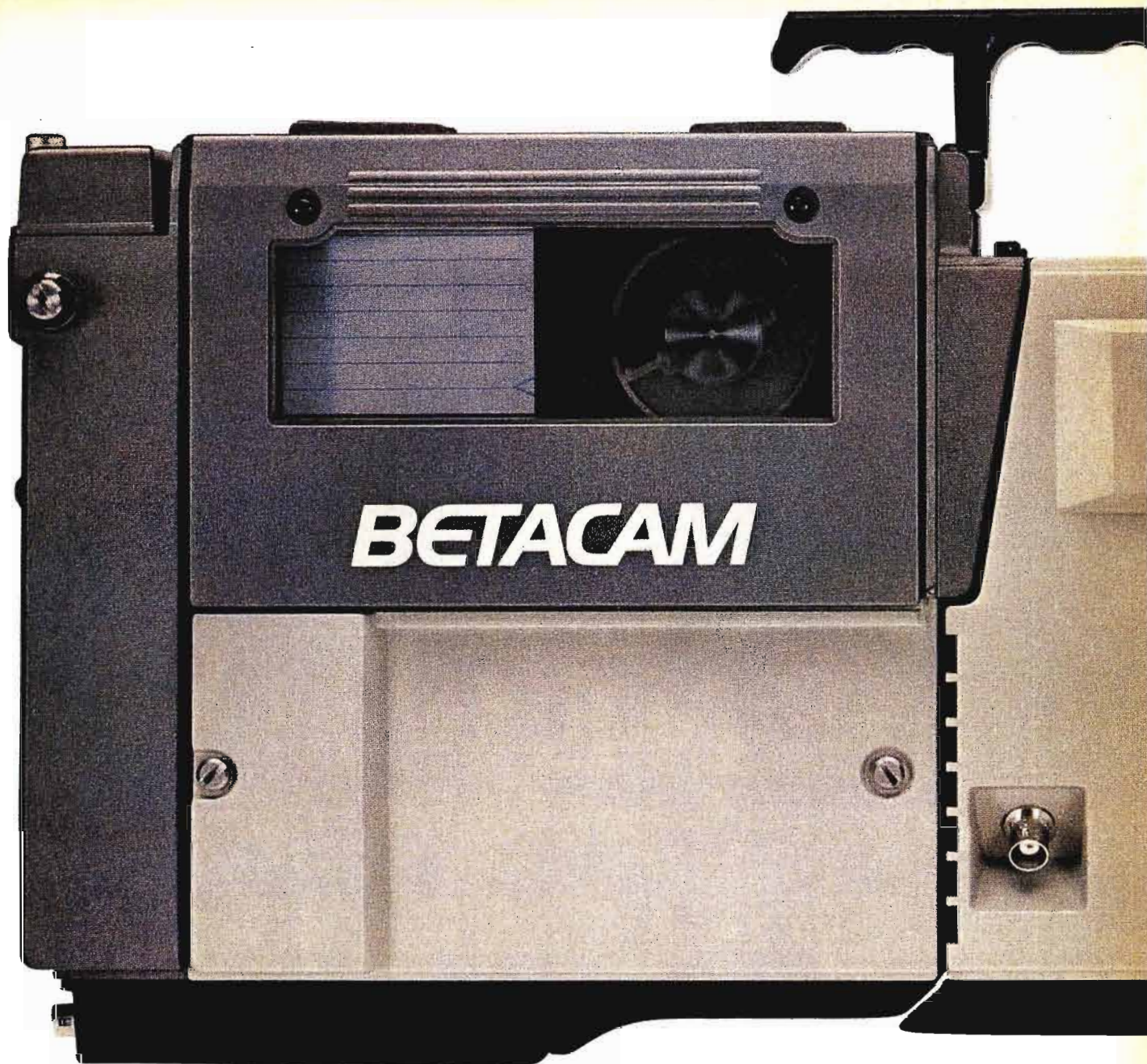
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HOW TO LOSE WEIGHT, TAKE BETTER

SONY INTRODUCES THE BETACAM SYSTEM

When we designed the innovative Sony half-inch ENG system, we didn't do it halfway.

So our Betacam™ camera/recorder is 30% lighter than its nearest competitor. And more than 40% smaller. A big difference when you're rushing to cover a story.

But not only have we trimmed pounds and inches, we've saved you dollars and cents. In fact, the entire system is so competitively priced, you might want to buy

two of our camera/recorders rather than one of the heavier, bulkier units around. Then, obviously, you'll be able to cover twice as much news.

The Betacam camera section employs a High-Band SMF Tricon® single-tube pickup system. As a result, it has a dramatically improved picture, with better resolution and more sensitivity than conventional one-tube cameras.

And since it has 60% fewer components than three-tube cameras, the cost of maintaining it is low.



SAVE MONEY, AND PICTURES.

(Of course, there will always be applications where you prefer a three-tube camera. So you'll be delighted to know that Sony also offers a three-tube Betacam.)

The Betacam recorder also provides superior performance, with better picture clarity and a higher signal-to-noise ratio, even when compared to $\frac{3}{4}$ " machines. It records for 20 minutes on a Beta L-500 cassette, and runs for a full hour on the low-power, rechargeable battery contained in the unit. And both cassettes and batteries are inexpensive and readily available.

A separate playback unit completes the Betacam system. It's the only interface you need for existing post-production equipment. So nothing is made obsolete.

Naturally, there are many other refinements and innovations. So to request more information, call 1-800-526-0890. Or in New Jersey, (201) 256-4512, ext. B1.

Sony Betacam. Like so many other Sony Broadcast products, it seems revolutionary today. And will be indispensable tomorrow.

SONY®
Broadcast

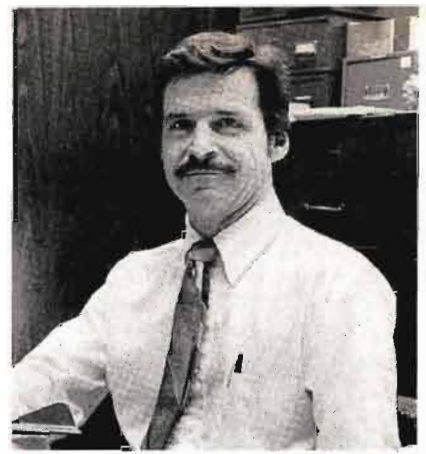
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ON-THE-AIR

RON MERRELL

NAB seeks review of cable copy royalties



The subject of cable copy royalty fees will be argued again and again in this decade. Perhaps the day will even come when programming and event coverage is so competitive that fairness will at last prevail.

For now, the NAB has asked the full U.S. Court of Appeals for the District of Columbia Circuit to change a recent appellate decision on cable copyright royalty fees. Back in April, a three-judge panel upheld the Copyright Royalty Tribunal's decision concerning 1978 fees, which awarded 3.25 percent to commercial television and nothing to commercial radio.

NAB said the court's opinion recognized broadcasters' copyright interest, but manages "to take away the kernel, and leave them only the husk." The court agreed with three critical arguments to the Tribunal: (1) that broadcasters hold copyrights to sports broadcasts; (2) that broadcasters hold copyrights to broadcast day compilations (the arrangement of the various programs of a broadcast day in a particular order); and (3) that broadcasters who own exclusive licenses for certain syndicated programs hold the copyright to the extent of the licenses.

The NAB noted that the court remanded to the Tribunal for consideration of National Public Radio's entitlement to 0.25 percent. "It is anomalous and incorrect to characterize NAB's entitlement to royalties for sports telecasts and compilations as *de minimis* (minimal), when an award of only one-quarter of one percentage point is already the subject of a remand."

The royalty situation has gone a long way toward erasing the battle lines between cable and commercial TV. But when the money muscle of cable out pulls the networks on program and event buys, a royalty re-think will be in order.

Meanwhile, the competition will improve the product of both, peaking before direct broadcast satellites elbow in for their piece of the pie.

Will DBS sell?

Most U.S. households would be interested in having a satellite dish or antenna to receive multi-channel televi-

sion programs regularly. That's according to a national survey conducted last October by Frank N. Magid Associates, an Iowa research firm.

The dish antennas would receive TV programs beamed nationwide via direct broadcast satellites (DBS). If the dish cost \$300, the survey found that 46 percent of the sample would purchase one: 26 percent would be very likely and another 20 percent would be somewhat likely to spend the money.

These public attitude studies were conducted for United States Satellite Broadcasting Company (USSB) of St. Paul, Minnesota, a company affiliated with Hubbard Broadcasting. USSB is one of a number of applicants to the FCC for a DBS license. USSB proposes to beam free (advertiser-supported) high-quality programming from two satellites to homes equipped with receiver dishes throughout the country. In addition, USSB would feed its programming to a network of independent member television stations.

The study of the national market potential of a 30-channel DBS system showed that 52 percent who already have cable and 61 percent who do not have cable are interested in a home satellite dish for DBS.

A new information age

"We are indeed entering a new age of information in this decade, one that may prove to be as significant as those in which motion pictures, recorded music, radio, and television entered our lives."

So commented James H. Rosenfield, executive vice president for the CBS Broadcast Group, when he addressed a Financial Analysts Federation in March. "CBS is positioning itself," said Rosenfield, "to capitalize on the opportunities created by the development of technologies creating new electronic pathways to the home. It is also committed to make broadcasting, and particularly, network broadcasting, the centerpiece of our efforts to maintain our position as the nation's leading supplier of entertainment and information."

"Yet these clear goals that we have established, and clear commitments we have maintained, have nonetheless not

always been clearly understood. Some have misinterpreted our wide-ranging development efforts in the new media as signaling some doubts about the future of network broadcasting. Nothing could be further off the mark.

"Cable television is one of the fastest-growing of these new pathways, and it is a business in which CBS is committed to play a larger role in its function as the premier provider of entertainment and information. The CBS/Fox joint venture we recently announced will help us play that role in both subscriber-supported and advertiser-supported cable. Similarly, there will be more new pathways for information and data, through broadcast means and telephone networks. That is why we are working to develop teletext, which we are testing in Los Angeles, and videotex, which we will be testing in a joint effort with AT&T in New Jersey.

"Far ahead in the future, we see the emergence of direct broadcast satellite and high-definition TV, and we are taking innovative steps to participate in their development."

Summing up, Rosenfield said, "Yet with all these new pathways, there will only be one way to reach virtually every American household at the same time with the same message. There will be only one conduit available to the advertiser that will be able to reach into all the communities of the nation, reach all ages and income groups with the impact of sight, sound, and motion..." This, of course, is the television network and its affiliated stations.

It's only a matter of time

Already, cable TV vertical-interest programming is getting more sets turned on. But cable is still in search of its prime-time leader, even though it's not necessary. Cable and commercial TV *do* compete for the same dollars now; however, in the future cable's vertical-interest programming is likely to siphon more from newspapers and magazines than from commercial TV. Together, they will give the viewer even more variety than we have now. Only a group of DBS/broadcast networks could derail the momentum of the current broadcast/cable express.

**Enter a
new dimension
Quality Videotapes.
Price and Delivery.**

3M

Midwest

Together, They Bring
A Whole New Dimension of Professionalism
and Dependability to Video Production.

Midwest Corporation is the nation's largest single-source
supplier of video production equipment and supplies, with
more than 10,000 different items in stock, ready for
immediate delivery.

We stock the complete line of Scotch® Brand Videotapes
from 3M. And we can get them to you ... FAST!

If you need technical assistance in selecting the type of
3M videotape that's best for you, call on the Midwest
professionals. We have more than 20 years of
experience in supplying quality Scotch® Videotapes
to every phase of the recording industry.

Best of all, Midwest's prices are competitive with
anyone in the field. So you not only get the best
quality and service in the industry, you get the
best deal, too!

3M and Midwest. Together, we take you
to a new dimension of quality and
service.

Take a trip to a new dimension. For
complete information on
Midwest's full line of equipment and
supplies, call toll-free
today:

1-800-543-1584



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Cincinnati, OH 45203
513-651-1904



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Nashville, TN	615-331-5791
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Charleston, WV	304-722-2921
Virginia Beach, VA	804-464-6256
Washington, DC	301-577-4903
Charlotte, NC	704-399-6336
Miami, FL	305-592-5355

Circle (6) on Action Card

WORLD UPDATE

SBE leads certification effort

The Society of Broadcast Engineers (SBE), meeting in Dallas in conjunction with the National Association of Broadcasters, has pledged a continuing leadership involvement in certification, including the development of an entry-level examination and a new thrust in the area of frequency coordination.

Jim Wulliman, national SBE certification chairman, moderated an NAB panel discussion on certification and reported that more than 1,750 broadcast engineers have been certified under the SBE program. The SBE certification program has completed its first five-year period of operation and is now processing renewals from the original group of senior broadcast engineers who have been certified.

The recent FCC action, dropping the Radiotelephone First Class license, has prompted broadcasters and broadcast associations to suggest that the SBE reconsider an entry-level certification program, said Wulliman.

"The entry-level certification program, as proposed by the SBE Certification Committee, will consist of an entry-level exam containing questions on (1) electronic fundamentals, (2) FCC rules pertaining to operating tolerances, and (3) safety.

Wulliman said that several hundred questions will be stored in a computer, which will randomly select 50 questions

for each exam. Each exam will be different.

The certificate holder will be recognized as a broadcast technologist.

"It is the desire of the committee to hold the fees down to about the present \$30 level if outside support can be obtained to meet the increased budget requirements of the expanded program," said Wulliman.

The Certification Committee has developed a five-year budget plan which will require support from NAB and/or other broadcast organizations to meet the start-up expenses of the expanded program.

"Our program will seek support for one half of the first year expenses, decreasing each year until the program is self-supporting," he said, adding that the SBE board voted to subsidize the program until December 31, 1982, and set an introductory fee of \$10 for the broadcast technologist certificate only.

"The SBE Certification Program offers the best method of identifying those broadcast engineers who are truly qualified, and also pointing the way for those who are entering the field, through the progressive levels of realistic certification from broadcast technologist through senior broadcast engineer," he noted.

Richard Rudman, an SBE member and chairman of the Southern Califor-

nia Frequency Coordinating Committee, was appointed by SBE president Ron Arendall to chair a newly-created SBE National Frequency Coordinating Committee.

Rudman sees the SBE role in frequency coordination as "one of an informational conduit."

"I believe that it can become a useful tool for the SBE to market itself," said Rudman, who envisions SBE chapters as possibly becoming publishers of the data base for frequency coordination.

"By getting involved in frequency coordination, the individual SBE chapters will own a data base and mailing list," said Rudman.

Rudman's Southern California frequency coordinating effort, which has gained much industry recognition, now has moved into the area of television microwave coordination.

Rudman termed frequency coordinating as "enlightened peer pressure" and continued that its existence is to "raise awareness level, but we're not policemen."

His warning is "don't copy" the Southern California effort. Every area of the country has its varied problems and "you must mold it to your area."

Announcement was made at the annual SBE meeting of the re-election of Ron Arendall of Indianapolis, Ind., as president of SBE for the 1982-83 term. Arendall is manager of engineering at WTHR-TV in Indianapolis.

Other officers gaining re-election include Doyle Thompson of Atlanta, Ga., director of engineering of The Weather Channel, vice president; Brad Dick of Lawrence, Kan., director of engineering at KANU/KFKU, secretary; and Ed Karl of Manchester, Mo., engineer in charge of KMOX-TV in St. Louis, treasurer.

Board members re-elected to their positions include Len Ballard of Tulsa, Okla., director of engineering for Swanson Broadcasting; Ray Benedict of Dayton, Ohio, engineering manager of WHIO-TV; Hugh Cleland of Liverpool, N.Y., chief engineer, WCNY-TV/FM in Syracuse; and Roger Johnson of Phoenix, Ariz., chief engineer of KOY Radio.

New board members elected to serve for the 1982-83 term are Robert Klein of Lexington, Ken., director of engineering at Kentucky Educational Television; and Jack McKain of Kansas

Continued on page 12

Entry-level certification added

An entry level of certification has been added to the Society of Broadcast Engineers' Certification Program. This class of certification is called Broadcast Technologist and is valid for a period of five years. It can be obtained in either of two ways:

- By holders of a valid FCC First Class Operator license who meet the service requirement; or
- By achieving a passing grade on the required proficiency examination. There is no experience requirement to be eligible for the Broadcast Technologist examination.

The SBE national office is now accepting applications for the Broadcast Technologist certification. For a copy of the application and Program of Certification booklet, write to the Certification Secretary, Society of Broadcast Engineers, P.O. Box 50844, Indianapolis, IN 46250.

SBE is still receiving requests for the recertification material from the engineers whose certification expired January 1, 1982. Some of these engineers stated they were not aware that their certification had expired. In order to be fair to everyone, SBE will extend the deadline for applying for Recertification until December 31, 1982. Anyone who has not applied by that date, will be deleted from the certification records in the national office.

TV test equipment from the inventors of the Plumbicon® tube.

At long last a new, reliable source of TV test equipment. One that offers fast, predictable delivery. One with a name all the world trusts—Philips. Four quick examples:

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Enjoy the luxury of examining one line and one field at a time. On top of this, there's a convenient front probe input so you can use the monitor as a troubleshooting oscilloscope.

PM5567 Vectorscope

If you want more accurate decoding and the ability to have an external reference from composite video signals, choose our vectorscope.

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PM5539 Color Analyzer

Take it on a quick trip through your studio or control room and adjust all monitors to the same color temperature in a matter of minutes.

With four different memories, there's no problem in quickly calibrating four different phosphors.

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WORLD UPDATE

City, Mo., director of engineering at KCMO-TV/AM-FM.

Roger Johnson, chairman of the Chapter Liaison Committee, urged the formation of a committee of past presidents to chart a five- or 10-year plan for the SBE.

"We have been asked to look at the activity of the Society and come up with a five-year plan," said Bob Flanders, a past president, who added that the committee hopes to offer the officers of the SBE a "path to go down" similar to a five-year business plan.

The committee has already begun its work; it is hoped that the plan will be drafted in time for the fall board meeting. Flanders, Jim Wulliman, Jim Hurley, Bob Wehrman, Bob Jones, and Lou Wetzel will serve on the committee.

Johnson also announced the establishment of two national awards to be announced at the 1983 convention. Awards will be given for "best membership growth" and "best newsletter, judged on both content and form."

A highlight of the annual SBE membership meeting was the presentation of a surprise award to Jim Wulliman for his leadership, direction, and continuing efforts in the area of certification.

Wallace E. Johnson of Washington, D.C., an SBE member and current executive director of ABES, was presented a Fellow Award. A special award to John Battison for his early activities as chairman of the steering committee and first president of the SBE, was also announced.

Canadian show set for Toronto

The largest gathering in the field of Canadian broadcasting will meet at the Toronto Sheraton Centre Hotel, November 13-16, 1982. Sponsored jointly by the Canadian Association of Broadcasters (CAB), Central Canada Broadcast Engineers (CCBE), and the Central Canada Broadcasters' Association (CCBA), "Perspectives '83" (the theme of the convention) will focus on the business and technological future of radio and television. In addition to presentations and workshops, convention delegates will witness Canada's first National Electronic Hardware and Software Trade Exhibition.

To commemorate this event, the CAB will launch the first edition of a new publication, the *CAB Yearbook and Directory*. Theorists and practitioners representing the domestic and international broadcast business community, technical experts, and government

legislators will contribute to the editorial content.

A section of this bilingual periodical will include a listing of CAB members and associated industries, with selected photographs of personnel featured.

For further information, contact Dave Hamilton, (416) 446-5546.

ABC plans new pay TV service

American Broadcasting Companies Inc. (ABC) has announced plans to provide a national program distribution service—The Home View Network (HVN)—that would utilize a unique combination of broadcast and video recording technology to deliver quality programming, including motion pictures, on a subscription basis to the viewing public.

Through the ABC-owned and participating affiliated stations of the ABC Television Network, HVN will transmit programming in scrambled form during overnight hours for automatic videocassette recording in HVN homes. The scrambled tape would then be played back at the viewer's convenience through a decoder developed by Sony, which will be compatible with virtually all VCRs.

Applications were made to the Federal Communications Commission by ABC for expedited authorization to offer the service through its five owned television stations and those affiliated stations who subsequently elect to participate in HVN. Sony also filed an application for FCC approval of its encoding and decoding system for use in conjunction with the new service.

HVN will offer approximately eight feature-length movies new to the service each month, as well as cultural, theatrical, children's, educational, and other special-interest programming.

The Home View Network will transmit the program service during early morning hours when most stations do not offer programming (2:00 a.m.—6:00 a.m. in the Eastern and Pacific Time Zones and 1:00 a.m.—5:00 a.m. in the Central Mountain Time Zones). HVN will broadcast at least five nights a week and will program up to three hours a night, depending on the length of the programs.

According to ABC, the Home View Network will provide a new, convenient alternative for consumers, one that will use an already existing national distribution system. Thus, HVN will be able to enter, relatively quickly, many markets not presently served by pay cable, STV or MDS.

Continued on page 14

MORE THAN A PORTABLE

Acquisition plus studio-type control makes the Ampex VPR-20B your professional portable.

If you need more than just a portable acquisition recorder, choose the improved Ampex VPR-20B. When you go into the field for realism and immediacy, you'll know you've got it. Right the first time with videotape you've already reviewed, edited and played back—on location, ready to air.

It's the VPR-20B's exclusive dual-cue editing that gives it studio-type control in the field. From instant reviews with precise return to the next edit point, to total control when replacing undesired material with mid-segment, color-frame accurate edits. You can now have it all in one easy-to-use portable.

With the VPR-20B you also get top quality audio and video every time. The built-in video confidence and color stabilizer features play the picture back from the tape into the camera viewfinder, or any color monitor,

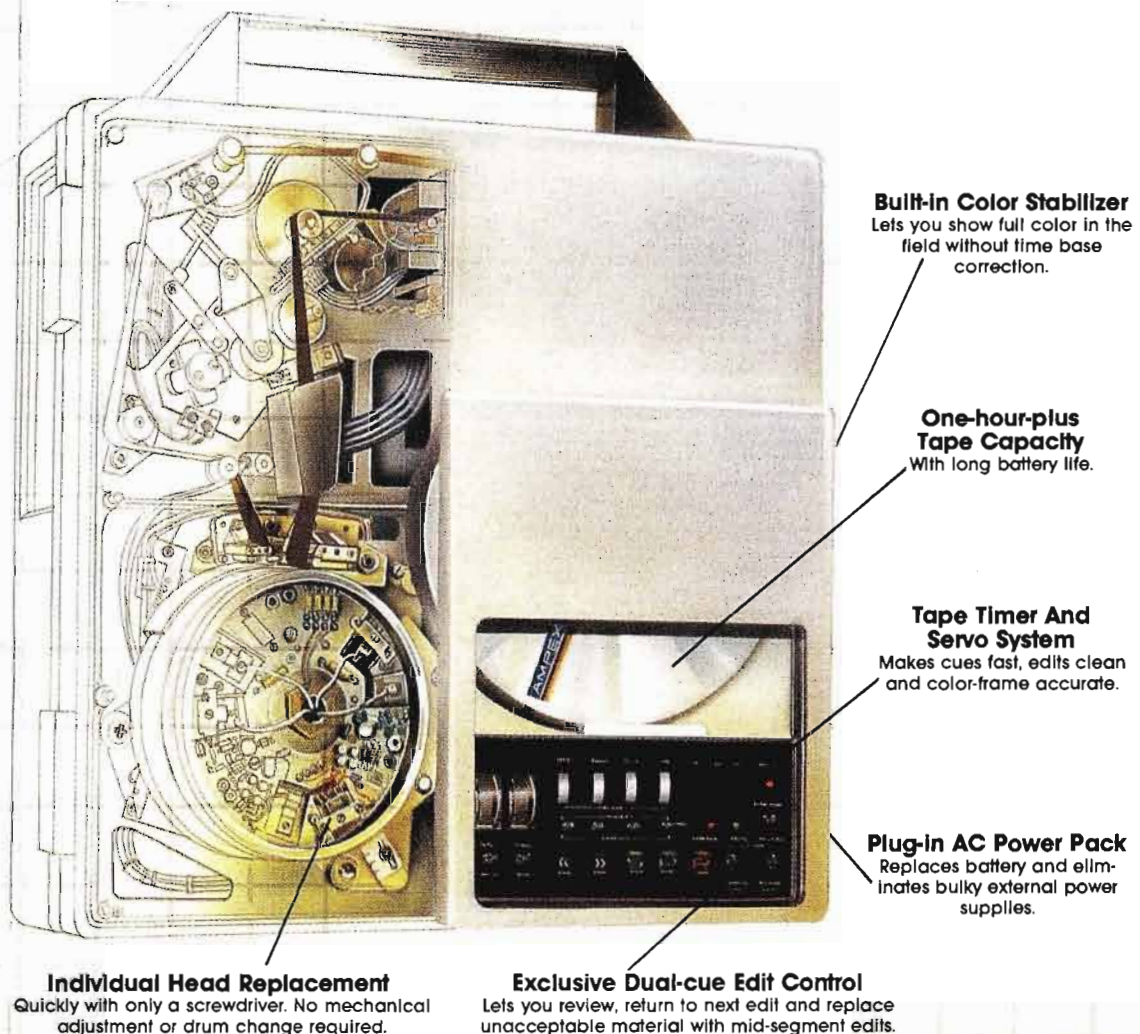
during recording. So you'll know that the picture you see is the one you've got! And, unlike other portables, the VPR-20B has a simple plug-in AC power pack which replaces the battery. You can forget about bulky external power supplies.

Most of all, the VPR-20B is backed by the unique worldwide service and support that Ampex is known for. So before your next field production, find out more from your Ampex representative. Or write Ampex Corporation, Audio-Video Systems Division, 401 Broadway, Redwood City, CA 94063 (415) 367-2011.

AMPEX TOOLS FOR TOMORROW

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ABC Inc. will be responsible for the programming and marketing aspects of HVN. The technical equipment for HVN will be purchased from Sony. This innovative technology will encode the HVN program before transmission, enabling participating ABC affiliated stations to broadcast HVN selections with the same equipment they use for all other network programs. The subscriber needs only a special Sony decoder and any videocassette recorder. The program will be automatically

recorded in scrambled form by the subscriber's videocassette recorder and can be played back for viewing only by HVN homes equipped with the special Sony decoder. This unique feature of the HVN system provides maximum security against unwarranted use. Addressability has been built into the Sony decoders for potential pay-per-view usage.

HVN is expected to be offered to consumers at a monthly subscription of \$19.95 plus an initial installation

charge. Homes without videocassette recorders may lease a VCR through HVN for \$29.95 per month or may buy one through the service at a cost comparable to the lowest retail price.

The Company will initiate a technical field test of HVN this summer. HVN is scheduled to start in early 1983.

NAB argues for cable legislation

In hearings before the Senate Commerce Subcommittee on Communications, NAB president Vincent T. Wasilewski asked for the "opportunity to compete fairly, equitably, and openly with cable." The Subcommittee is considering cable legislation sponsored by Senator Barry Goldwater (R-Ariz.).

Wasilewski cited three goals for broadcasters with respect to cable: fair and equitable access to programming; open entry for broadcasters into the cable industry; and deregulation of broadcasting to achieve regulatory parity with cable. "S. 2172 is a positive step toward realization of these goals," he stated.

"Legislation now pending in the House, H.R. 5949, embodies provisions designed to resolve both the copyright and communications policy issues presented by cable carriage of broadcast signals," Wasilewski continued, referring to the cable copyright compromise reached by NAB, the National Cable Television Association, and the Motion Picture Association of America. "We very much want to secure prompt House passage of H.R. 5949 and urge you to act favorably on it when it comes before you," he added.

Goldwater's bill would prohibit imposition of cable-broadcast cross-ownership restrictions, a provision heartily endorsed by NAB, allowing broadcasters to participate fully in cable.

Wasilewski warned the Subcommittee that their provision allowing the FCC to decide signal carriage issues "is clearly inadequate." "By leaving the Commission free rein, it does no more than perpetuate the greatest infirmity of the present scheme—uncertainty," he told them. Instead, Wasilewski urged the subcommittee to refrain from adopting any statutory provisions that might be "inconsistent" with the House cable copyright compromise legislation. "I could not emphasize too strongly the desire of NAB to see such a definitive resolution of the signal carriage issue," he added.

Continued on page 16

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The 635A – Perfect design from the start

The Electro-Voice 635A is probably the most widely used broadcast microphone currently available. Yet it was introduced back in 1967! There are microphone companies that haven't been around as long as the 635A! What makes a microphone continue to be the broadcasters' favorite after 15 years in the field?

The 635A was designed to be used anywhere. Its screw-machined steel case and mechanically nested parts set standards for durability and ruggedness that the competition still strives for. It was the first omnidirectional microphone designed to have a shaped, rather than flat, frequency response. A rolled off bass response combined with a slightly rising high end make it perfect for vocal

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**VIDEOTEK
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Business Hotline

PHILIPS TEST & MEASURING—Philips Test & Measuring Instruments has established field operations in Plano, Texas, to cover Northern Texas, Oklahoma, and Arkansas. Morris Jones has been given the responsibility to initiate field efforts within this new territory.

AUDIO PLUS VIDEO—Audio Plus Video International recently opened a West Coast international standards conversion facility at 1438 North Gower Street in Hollywood, California. Shellie Yaseen heads the new operation.

WESTERN BROADCAST SYSTEMS—Ross Video has appointed Western Broadcast Systems as its exclusive distributor for Northern California, Oregon, and Washington. WBS, based in Cupertino, California, specializes in video and audio broadcast-quality products. Other products distributed include Leitch Video, MCI/Quantel, Ampex, and Crown International.

TELEIMAGE—Teleimage has been named the official television production company for the Century IV Celebration, Philadelphia's 300th anniversary

celebration being held throughout 1982. Located in Bala Cynwyd, Pa., Teleimage is one of the largest television production facilities in the Philadelphia area.

EECO—EECO Inc. has written and published a comprehensive booklet explaining the early development and technical operation as well as the latest advances in SMPTE/EBU longitudinal and vertical interval time code. The booklet, entitled *SMPTE/EBU Longitudinal and Vertical Interval Time Code*, is offered free of charge. For your copy, write to EECO Inc., Video Products Marketing, 1601 E. Chestnut Avenue, Santa Ana, CA 92701; or call (714) 835-6000.

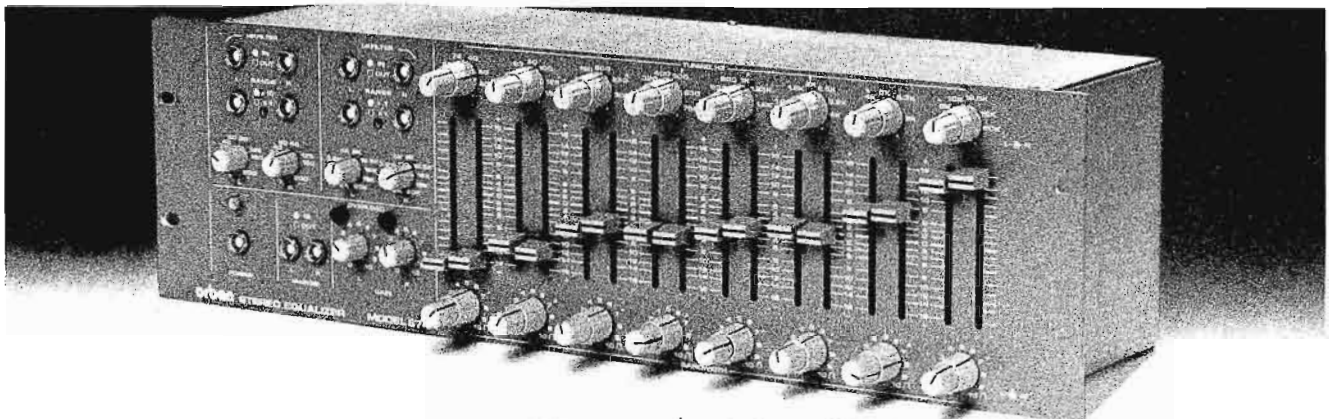
HARRIS BROADCAST PRODUCTS—KTTV-TV, Los Angeles, is upgrading its satellite facilities with Harris equipment valued at more than \$825,000. The station currently employs a Harris 9-meter satellite dish for receive service, and has purchased the necessary equipment to add uplink capabilities to that antenna. The Metromedia station has also purchased a new Harris 9-meter uplink system to be used for additional transmit capabilities.

BROADCAST MARKETING ASSOCIATES—Richard Reilly, president of

BMA, San Jose, California, has announced the sale of four Dubner Computer Graphic Systems to KOMO-TV, Seattle, Washington; KTVA-TV, Anchorage, Alaska; One Pass Video, San Francisco; and Video Post and Transfer, Dallas. BMA is a distributor of high-technology video and audio equipment with offices in Seattle, Los Angeles, and headquarter offices in San Jose.

CONTINENTAL ELECTRONICS—The Shield of the Egyptian Organization of Broadcasting and Television Federation (OBTF) has been awarded to Continental Electronics Mfg. Co. of Dallas in recognition of Continental's outstanding work and cooperation with OBTF during 1981. The award recognizes Continental's on-site engineering and installation work for two OBTF projects. Continental is a leader in the design and manufacture of high-power radio frequency transmitters and related equipment for communications, radio broadcast, radar, linear accelerator, fusion, and other scientific research applications.

SONY BROADCAST PRODUCTS—Cox Broadcasting Corporation, owner and operator of television stations, *Continued on page 20*



The Dream Equalizer: Now Mono Or Stereo

When we introduced our 672A "dream equalizer" in 1979, we had an instant hit. Audio professionals loved its versatility and clean sound. Eight parametric EQ bands (with reciprocal curves) were combined with wide-range tunable 12 dB/octave highpass and lowpass filters. The result: an amazingly powerful and useful machine. A cost-saving one too, because the outputs of both filters are available to perform a full electronic crossover function.

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For complete information on the popular 672A and the brand new stereo 674A, contact your nearest Orban dealer.

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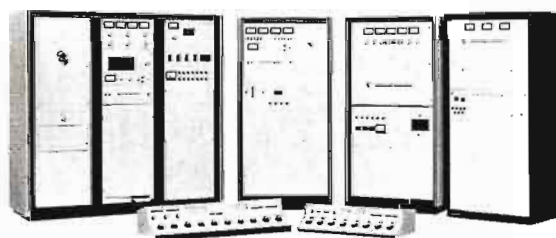
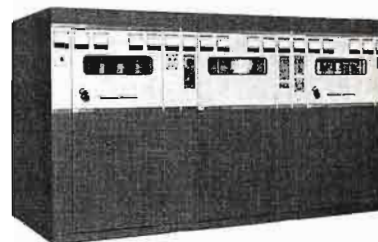
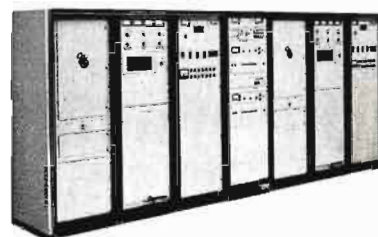
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Moon Walk
July 20, 1969





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radio stations, and cable systems in 23 states, has ordered approximately \$750,000 worth of videotape recording equipment from Sony Broadcast Products Company. Combined with 1981 purchases of Sony equipment, the new order brings the total amount of video equipment Cox has purchased from Sony Broadcast to approximately \$2 million.

The latest order slated for 1982 delivery includes 23 Sony BVU-800 U-matic videocassette recorders with built-in editing capability. The order also includes nine BVU-50 portable U-matic recorders; six BVU-110 U-matic recorders; and one BVP-250, two BVP-330s, and three BVP-300 cameras.

LOGICA—Television South West

(TSW) is the first commercial television broadcaster in the U.K. to buy the Flair videographics system from Logica. Flair will provide additional facilities to the existing TSW graphics department, and will be used for the production of maps and charts as well as special effects.

ECCO INC.—Lake Systems Corporation, with offices in Newton, Mass., and North Haven, Conn., has been appointed distributor for ECCO's computer controls for video production. Lake Systems is responsible for distributing ECCO equipment in the six New England states.

FILM/VIDEO EQUIPMENT SERVICE CO.—Film/Video Equipment Service Co. of Denver, Colorado, has established a professional optical department to provide expert lens service and repair for all makes of professional cine, ENG/EFP, and studio broadcast lenses, such as Angenieux, Canon, Zeiss, Cooke, Schneider, Fujinon, JVC/Tamron, etc. For more information, contact Ron Cotty at Film/Video, 1875 South Pearl St., Denver, CO 80210; or circle number 328 on the Action Card.

SATCOM TECHNOLOGIES—SatCom Technologies' new 7-meter earth station antenna (model 700CH) has been type accepted by PBS. PBS recently purchased five antennas, which will be used to provide programming via satellite to PBS television broadcasting stations around the country.

ALLEN AVIONICS—Allen Avionics has issued catalog 15V containing the firm's expanded line of video and pulse delay lines, video filters, and equalizers. This catalog introduces a complete rack-mountable series of video delay lines, with the capability of replacing up to 1,450 feet of cable. Delay units are available with slide switches or in strappable versions. Catalogs are available from Allen Avionics, 224 East 2nd Street, Mineola, NY 11501; or phone (516) 248-8080.

SPERBER COMMUNICATIONS—A new firm has been formed to guide STV, MDS, CATV, MATV, LPTV, and satellite TV companies from start-up through maturity in optimizing their technical operations and product line development. Sperber Communications, located in Santa Monica, California, will provide comprehensive services for new market launches, existing markets, subcontractor organizations, vendors, and manufacturers. Martin Sperber, most recently with National Subscription TV in Los Angeles, is the founder and president of the company. For more information, contact Sperber Communications, 313 Alta Avenue, Santa Monica, CA 90402; (213) 393-5127. **BC**

RTNDA NEWSLINE

Convention set for Las Vegas

Ted Turner, Mark Fowler, David Brinkley, and Tom Pettit are among the headliners already on the program for the RTNDA convention in Las Vegas, September 30-October 2.

Turner, chairman of the board and president of Turner Broadcasting System Inc., and founder of the Cable News Network, will be the keynote speaker when the convention opens in Caesars Palace.

RTNDA president-elect and conference program chairman Dean Mell, news director, KHQ, Spokane, said he was delighted that Turner had accepted the invitation to keynote the convention. "His experience in cable news and his insight into the future of electronic news are having an undeniable influence on communications in this country," Mell said.

ABC newsman David Brinkley, a former RTNDA convention keynoter, has been named recipient of the RTNDA Paul White award, and his acceptance speech will close the three-day conference. Jack Hogan, RTNDA's immediate past president and chairman of the Paul White Award Committee, said, in announcing Brinkley's selection, "I am delighted to have had a hand in formally recognizing David Brinkley's outstanding journalistic achievements and the part he played in making news broadcasting the primary source of information for most Americans."

FCC chairman Mark Fowler and NBC's Tom Pettit are luncheon speakers. Fowler has taken a leadership role in efforts to persuade Congress to repeal government regulation of the content of broadcast news—the so-called fairness doctrine and the equal opportunities provisions of the Communications Act. He is perhaps RTNDA's staunchest current ally in the association's long fight to achieve full First Amendment rights for news broadcasters.

Pettit was covering the Senate in Washington for NBC News when he was tapped for the number-two news job at 30 Rockefeller Plaza, executive vice president of NBC News.

Each day of the convention will focus on a major area of concern for radio and television news directors. The first day will be devoted to news content, the second to technology, and the third to management.

Exhibits chairman Eddie Barker reports that the entire exhibit hall in Caesars Palace has been reserved! Bob Vaughn, director of conference planning for RTNDA, is now trying to locate additional space in the hotel for more exhibits. In any event, there will be far more exhibits this year than ever before. Plans are being made to use some of the computers on display to expedite the elections and the handling of resolutions during the business session the second day of the convention.

Convention registrations are now being accepted at RTNDA headquarters at 1735 DeSales St., N.W., Washington, DC 20036. Pre-registration for members is \$160, and for non-members \$175. Rooms at Caesars Palace can be reserved at a special convention rate of \$55 single or double occupancy. Room reservations should be made directly with the hotel, Caesars Palace, 3570 Las Vegas Boulevard, Las Vegas, NV 89109, not with the RTNDA headquarters.

Watch this column for more RTNDA convention news—and get your registration and reservation in early!

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MEAN DIFFERENT THINGS TO
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And the tape transport system, signal system, and control section can either be combined into a single unit, or separated easily and installed in a 19" rack or console.

The BVH-2000 also gives you far greater latitude in setting up your entire recording system. Various remote-control connectors enable you to interface your system in a variety of ways for studio, mobile, and editing configurations. Direct interface with U-matic® and Betacam™ is possible, too. The BVH-2000



Plug-in time base corrector (optional).

also has an optional plug-in time base corrector.

What's more, the BVH-2000's lighter weight and smaller size (almost 50% less than its predecessor) make it as ideal on the road as it is in the studio.

And because of the ever-increasing number of applications requiring longer program times, the BVH-2000 provides up to 2 hours of tape time.

A VTR THAT LEADS THE SIMPLE LIFE.

In the BVH-2000, unlike most other VTR's, microprocessors are used to their full advantage. All data necessary for servo control are channeled into a central processing unit, making the operator's control over all systems and functions simpler and more precise.

Life is made simpler yet by the fact that every necessary function control, metering facility, and electronic module is accessible from the front.

Even the way the tape moves through the recorder has been simplified. One innovation—an extremely precise servo mechanism



The BVH-2000 (shown with Type-III control panel).



Front access to all electronic circuits and modules.

—permits the entrance and exit guide posts to move about 10mm away from the drum during threading. The result is the easiest threading system ever in a 1" video recorder.

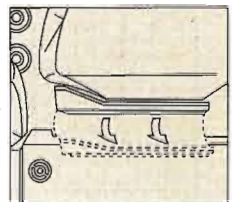
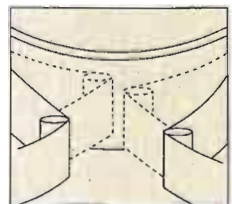
**THE MOST ARTICULATE
VTR EVER BUILT.**

The BVH-2000 removes much of the mystery from maintenance, too. It literally tells you about malfunctions—usually well before you'd notice them yourself—through a microprocessor-governed self-diagnostic system.

The system includes various alarm functions and numerous checks to confirm that everything is working properly. Most defects can be easily found—allowing for far less complicated maintenance and repairs, and reducing down-time considerably.

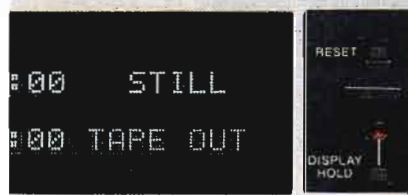
And because the best way to simplify maintenance is by lessening the need for it, the Sony BVH-2000 has been designed to be virtually maintenance-free down to the last detail. For example, only brushless DC motors are used, and all incandescent lamps have been replaced with high-brightness LED's.

Other welcome advances include a greatly expanded dynamic tracking range (from reverse at normal speed to forward at 3 times normal); programmed play (allowing you to vary playback speed across a range of $\pm 20\%$ of normal speed); and video and audio confidence.



To simplify threading, guide posts automatically move away from drum, and audio head cover opens.

Remarkably, these are only some of the Sony BVH-2000's innovations. All of them add up to form the answer to virtually every need ever expressed by the users of 1" video.



Display board for self-diagnostics and other data-processing functions.

To find out how it can answer yours, write Sony Broadcast, 9 West 57th St., New York, NY 10019. Or call us in New York/New Jersey at (201) 368-5085; in Chicago at (312) 860-7800; in Los Angeles at (213) 537-4300; in Atlanta at (404) 451-7671; or in Dallas at (214) 659-3600.

SONY®
Broadcast

Circle (28) on Action Card

PERFECT TIMING



780 SERIES RAM TIME

PROGRAMMERS \$1200 to \$1500
When programming more than eight events, the 780 Series RAM Time Programmers are the most cost-effective way of dealing with the problem. They are flexible, easy to use, and provide 32 events (expandable to 96) in 5 1/4 inches of rack space.

780 Series units operate from the power line, with a backup crystal time base and 72 hour battery/charger as an integral part of the equipment.

The front panel consists of:

- An eight digit real time display when day selection is required as on the ES 781, 784, 785, seven digits for ES 780, and six digits for the others.
- A two digit display of "Next Event" number.
- An eight digit display of "Next Event Time" when ES 780, 781, or 782 is specified, and a six digit display when ES 783, 784, 785, 786 or 787 is specified, and a four digit display when ES 788 or 789 is specified.
- All displays are .3 inch red light emitting diodes.
- Controls, mounted below the displays, consisting of:

An "Active-Disable" Switch used when it is necessary to preempt the program temporarily.

Time Setting Controls—All recessed to avoid accidental bumping.

"Display"—The displays can be observed by actuating this control during a power outage. The unit will continue to operate, but the displays will be blanked to conserve battery energy.

"Event Select"—A two decade thumbwheel, used to set the event number when entering or reading data in the memory.

"Event Time Select"—An eight or six or four decade thumbwheel, used to enter the event time in the memory. The number of thumbwheels will be determined by the part number of the unit specified.

"Enter"—This pushbutton is actuated to enter data into the memory.

"Run-Read/Enter"—A two position switch, placed in the "Run" position for normal operation, and in the "Read/Enter" position whenever entering data or reading data.

STANDARD UNITS

EIGHT DIGITS OF PROGRAMMING CAPABILITY:

ES 780—10 Days, 10 Outputs, Hours, Minutes, Seconds

ES 781—100 Days, Hours, Minutes, Seconds

ES 782—16 Outputs, Hours, Minutes, Seconds

SIX DIGITS OF PROGRAMMING CAPABILITY:

ES 783—Hours, Minutes, Seconds

ES 784—100 Days, Hours, Minutes

ES 785—100 Days, Minutes, Seconds

ES 786—16 Outputs, Hours, Minutes

ES 787—16 Outputs, Minutes, Seconds

FOUR DIGITS OF PROGRAMMING CAPABILITY:

ES 788—Hours, Minutes

ES 789—Minutes, Seconds

The size of the unit is 5 1/4" High x 19" Wide x 10" Deep—Relay Rack construction, totally enclosed, with a screen top.

ES 782, 786 and 787 have 16 isolated outputs. Any of the 32 events can be programmed to activate any of the 16 outputs. ES 780 has 10 outputs. The other units have a single output.

ES 784, 788 and 789 have a one minute contact closure. The others have a one second contact closure. Contacts are single pole, form A, reed type, and have a one amp rating.

THE 780 SERIES AS A MASTER CLOCK

By adding the ES 167 Serial Time Code Generator and using a more accurate crystal, the 780 Series Ram Time Programmers can serve the dual functions of Master Clock and 96 event programmable timer.



750 SERIES THUMBWHEEL

**PROGRAMMER/
COMPARATORS \$310 to \$390**

When programming up to eight time events, the 750 Series is recommended. Thumbwheel switches are set to compare the time information from an ESE Clock or Timer.

An output (event) occurs each time the thumbwheel switch setting agrees with the time display.

One set of thumbwheels is required for each event. The standard 750 Series units are enclosed in a 3 1/4 inch high relay rack panel and chassis.

STANDARD UNITS

ES 750—ES 112 and one 6 Digit Program

ES 751—ES 124 and one 6 Digit Program

ES 753—ES 112 and two 4 Digit Programs (Hrs & Min)

ES 754—ES 124 and two 4 Digit Programs (Hrs & Min)

ES 756—ES 510 and one 4 Digit Program (Min & Sec)

ES 758—ES 510 and two 4 Digit Programs (Min & Sec)

ES 760 \$620

ATS CLOCK

The ES 760 is a six digit, 24 hour, programmable clock.

On the front panel are a six digit display of time, in hours, minutes and seconds, and two sets of four thumbwheels.

An internal comparator is fed "Clock Time" and "Thumbwheel Time," and when these two agree, a reed relay contact closure occurs, which is brought to a rear-mounted connector. The connector also provides four line parallel BCD time information.

If normal power is interrupted, ES 760 will automatically switch to its internal battery and crystal time base.

Mechanical: 3 1/4" High x 19" Wide x 8" Deep.

PRESETTABLE TAPE TIMERS

ES 1296 \$195

For Off-Air taping, or operating tape recorders when nobody is there, ESE has created ES 1296.

ES 1296 is a six digit, twelve hour clock with LED displays and a programmable, 300 watt, 117V AC outlet on the rear.

There are four push-button controls (Fast, Slow, Set and Reset) and a four position selector switch. The Fast and Slow controls are used to set time of day and recorder start time.

When setting the recorder start time, the Set control is used in addition to the Fast and Slow controls, to set the time to the nearest minute. A rear-mounted four position switch is used to pre-set the start time as far ahead as 96 hours.

Once the rear outlet is activated, it will remain on for 66 minutes.

The **Record Duration** option allows the user to select one of four time intervals for recording. These four time intervals are either 16, 33, 66 and 138 minutes, or 33, 66, 138 and 250 minutes.

An additional option is **Sequential Turn-on**, for those machines that require Power, Play, Record in sequence.

A **Manual Override Switch** can be provided as an option, so that the user may operate his machine at any time without disconnecting from the ES 1296.



ESE Masters provide a means of keeping all time displays in the system in agreement, through the use of a Serial Time Code. Only one pair of wires is needed to distribute the time code to all remote serial input displays.

An ESE Master Clock System can operate digital displays, clocks with sweep second hands, printers and, in addition, tell your computer what time it is.

Twelve hours of standby battery operation is standard in ES 160, 160/1 and 190.

MASTER CLOCKS

ES 180 Mounted in a 5 1/4" relay rack panel and chassis, displays six digits of time information on .3" LED displays, in 12 hour format.

ES 180 has three second per month accuracy. Its standard output is serial BCD, CMOS compatible, and can drive ES 161, 166, 171, 991 or 993 Remote Displays without buffering. All inputs and outputs are through rear-mounted connectors.

Dimensions: 5 1/4" High x 19" Wide x 15" Deep. **\$1050**

ES 160/1 One second per month version of ES 180. **\$1225**

ES 190 The ultimate in accuracy? Similar to ES 160, with special circuits for receiving and decoding a 1000 Hz tone at the start of each minute. The decoder output resets the seconds' counters in the clock each minute except the first minute of every hour. These tones are transmitted by radio Station WWV, with an oscillator accuracy of ± 1 part in 10^{10} . ES 190 has an antenna and internal WWV receiver with audio-output. Displays are .3" red LED's. Serial output drives ES 161, 166, 171, 991 and 993 Remote Displays.

Dimensions: 5 1/4" High x 19" Wide x 15" Deep. **\$1225**

ES 192/194 The most economical Masters. ES 192 (12 Hr) and ES 194 (24 Hr) are constructed using ES 112 or ES 124 digital clocks and adding the ES 167 Serial Time Code Generator to provide the output needed to drive Remote Serial Displays ES 161, 166, 171, 991 and 993. Displays are .6" incandescent type.

Dimensions: 2 1/4" High x 8" Wide x 6" Deep. **\$325**

ES 196 TIME AND TEMPERATURE MASTER Basically the same as ES 192, but with gas discharge displays, panel mounting and separate serial BCD outputs for time and temperature. Displays 12 hour and "F" format.

Dimensions: 3 1/4" High x 19" Wide x 8" Deep. **\$766**

ACCESSORIES

ES 161 REMOTE DIGITAL DISPLAY Decodes serial time data and displays six digits of time on .55" Gas Discharge Displays, in either 12 or 24 hour format.

Dimensions: 8" Wide x 2 1/4" High x 6" Deep. **\$165**

ES 162 IMPULSE DRIVER Plugs into the ES 160 chassis, can drive 20 Impulse Clocks. Designed so that, if power fails, impulse always comes on with the same polarity when power is restored. **\$200**

ES 164 REMOTE DIGITAL IMPULSE DISPLAY Similar to the ES 161 except that the ES 164 derives its count command from the ES 162 Impulse Driver, or any impulse clock drive circuits already installed.

Dimensions: 8" Wide x 2 1/4" High x 6" Deep. **\$244**

ES 166 JUMBO 1" CLOCK DISPLAY Features six digits of one inch gas discharge displays in 12 or 24 hour format. Receives serial time code input from any ESE Master Clock or ES 167.

Dimensions: 10 1/2" Wide x 4 1/2" High x 6 1/2" Deep. **\$254**

ES 167 SERIAL TIME CODE GENERATOR An integral part of ES 160, 190, 192/194 and 196 Master Clocks, this unit can be added to many other ESE products, including ES 112, 124, 182, 184, 992, 994, 750, 751, 753, 754 and all 780 Series Time Programmers. Drives ES 161, 166, 171, 991 or 993 Remote Displays. **\$146**

ES 168 TEMPERATURE SLAVE Receives serial code from ES 196, displays it on .55" Gas Discharge Displays.

Dimensions: 8" Wide x 2 1/4" High x 6" Deep. **\$146**

ES 171 CONSOLE MOUNT REMOTE DISPLAY Receives the serial time code generated by any ESE Master Clock, or any ESE product containing the ES 167 serial time code generator, and displays it on bright red .3" LED's.

Dimensions: 2 1/4" High x 4 1/2" Wide x 4" Deep. **\$158**

ES 1548 CONSOLE MOUNT TEMPERATURE DISPLAY In the same case as ES 171, receives the serial code from ES 196 and displays it on bright red .3" LED's.

Dimensions: 2 1/4" High x 4 1/2" Wide x 4" Deep. **\$158**

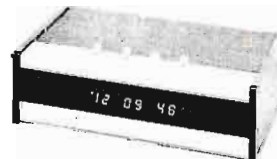
IMPULSE CLOCK When a sweep second hand is desired, specify the 3201.003 "Extra Flat" Impulse Clock. It has a 12 inch dial protected by a glass cover and metal bezel and is approximately one inch thick. As many as twenty impulse clocks can be driven by a Master Clock which has ES 162 as an accessory. **\$195**

ES 991 4 DIGIT SERIAL INPUT SLAVE Decodes serial time data and displays four digits of time on large 2" gas discharge displays.

Dimensions: 10 1/2" Wide x 4 1/2" High x 6 1/2" Deep. Desk Top Case. **\$325**

ES 993 6 DIGIT SERIAL INPUT SLAVE Features four digits of 2" high gas discharge displays, and two digits (Seconds) of 1" gas discharge displays. Receives serial time code input from any ESE Master Clock or ES 167.

Dimensions: 5" High x 12" Wide x 3" Deep (Wall Mount). **\$449**



SMPTE TIME CODE GENERATOR:
ES 261 is a pre-settable, eight-digit SMPTE/Time Code Generator, capable of Drop Frame or Non-Drop Frame operation. **\$750**



ES 253 SMPTE TIME CODE READER: is an eight-digit SMPTE Time Code Reader displaying Hours, Minutes, Seconds and Frames. **\$454**

ES 254 SMPTE TIME CODE READER: is a bi-directional, multi-speed eight-digit reader, displaying Hours, Minutes, Seconds and Frames on .4" red LED displays. **\$675**

ES 255 is a bi-directional, multi-speed, eight-digit SMPTE Time Code Reader, that can add the information to a video stream for recording time code on the video portion of a tape, or for displaying it on a monitor. Reading speed is 1/20 to 20 times playback speed. **\$995**

ES 112/124

DIGITAL CLOCK \$165

ES 112 (12 hr.) and ES 124 (24 hr.) are solid state, six digit clocks. Can drive 80 Series end 90 Series slaves. Displays are incandescent filament, 6" high.
Dimensions: 2 1/2" High x 8" Wide x 6" Deep.



ES 142/144

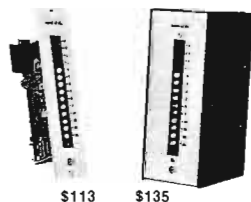
DIGITAL CLOCK THERMOMETER \$300

ES 142 (12 hr.) and ES 144 (24 hr.) are solid state digital clock/thermometers. Six digits of time (hours, minutes, seconds) and 3 digits of temperature (-50°F to +150°F or -45°C to +66°C) in gas discharge displays. 55" high. Temperature sensor on 25 ft. cable included.
Dimensions: 2 1/2" High x 10" Wide x 6" Deep.

ES 240/241

ES 240 DIGITAL THERMOMETER is calibrated for °F and °C. Displays are planar gas discharge, 55" high. \$195
Dimensions: 2 1/2" High x 8" Wide x 6" Deep.

ES 241 DIGITAL THERMOMETER is calibrated for °F and °C, alternating between the two every four seconds. Displays are planar gas discharge, 55" high. \$236



ES 211/214

DYNAMIC AUDIO LEVEL INDICATOR

The ES 214 is a highly accurate audio level indicator which is designed to simulate the action of a conventional VU-Meter but with superior dynamic characteristics. The LED meter is live to one hundred times faster in responding to complex waveforms than the mechanical meter without sacrificing the familiar meter "movement".

SPECIFICATIONS

Number of Indicators: 14 LED Lamps in 3 colors.

Scales: +4, +3, +2, +1 dB—Red
0 dB—Yellow
-1, -2, -3, -5, -7, -10,
-15, -20, -25 dB—Green

Input Impedance: 2200 ohms at maximum sensitivity, 6800 ohms at +8dBm "House Level", 10,000 ohms at minimum sensitivity. Input Circuit: Transformer isolated, balanced bridging.

Frequency Response: 20-20 KHz ± 1 dB (all modes).

Rise Times: Less than 250 MicroSec (Peak Mode), less than 25 MillSec (Fast Averaging Mode). Approximately 300 MillSec (Optional VU Standard).

Fall Time: (All Modes) About 300 MicroSec from full scale.

Modes of Operation: Peak Reading, Fast Averaging (Apparent Loudness), Slow Averaging (USA VU-Standard).



70 SERIES

CONSOLE MOUNT CLOCKS AND TIMERS

ES 172 SIX DIGIT, 12 HOUR CLOCK: Three setting controls—Fast Advance, Slow Advance and Hold. \$158

ES 174 SIX DIGIT, 24 HOUR CLOCK: Otherwise identical to the ES 172 \$158

ES 370 FOUR DIGIT, ONE HUNDRED MINUTE UP/DOWN TIMER: Six controls—Count Up, Count Down, Stop, Minutes Advance, Seconds Advance, Reset. \$201

ES 371 UP/DOWN TIMER: Similar to the ES 370 except with Leverwheel Preset capability for faster setting of the desired time. \$319

ES 570 FOUR DIGIT, SIXTY OR 100 MINUTE TIMER: Select 60 or 100 minute mode on rear connector. Start, Stop and Reset controls. Runs continuously unless stopped. Reset will return all displays to zero. Unit will run if reset while running or will stay at zero if reset when stopped. \$158

ES 572 SIX DIGIT, 12 HOUR CLOCK OR TIMER: Five controls—Start, Stop, Reset, Fast Advance, Slow Advance. Will run continuously to 12:59:59. Advances to 1:00:00 and continues as clock unless stopped or advanced. \$192

ES 574: A 24 hour version of ES 572 \$192

ES 575: Exactly like ES 570, with the addition of a "freeze" button. When the button is released, the display "catches up" with the correct elapsed time. \$192

Dimensions: 2.16" High x 4.5" Wide x 4.13" Deep.



ES 562/564

SIX DIGIT CLOCK/TIMER WITH MEMORY \$313

ES 562/564 is a combination six digit clock and 24 hour timer with memory, allowing the user to set the clock to the correct time of day, switch to timer mode, then switch back to time of day by pushing one button; time of day will be correctly displayed. In hours, minutes and seconds. Five pushbutton controls are mounted on the top of the unit, near the front of the desk-top case. When panel mounting is specified, they will be mounted on the front panel, below the display. The controls may also be removed, through two rear-mounted five pin connectors (Option R or Option D). These controls are Clock, Fast/Start, Slow/Stop, Timer and Hold.

Display: Six digits of 55" Planar Gas Discharge Display.



ES 280

AUDIO TIME CODE GENERATOR/READER

The ES 280 is a 10 Digit Audio Time Code Generator/Reader, capable of laying down a serial BCD time code on audio tape in the Generator Mode, and recovering and displaying it in Digital form in the Reader Mode. The code has been designed by ESE. It is not a standard code, such as SMPTE or IRIG. The frequencies used to produce the code have been selected to be compatible with cartridge machines as well as other tape recording and playback equipment. Amplitude adjustment assures the right amount of signal for the particular machine being used.



80 SERIES

JUMBO CLOCKS AND TIMERS

Large, bright 1" gas discharge displays provide effortless long distance viewing from 40 feet.

ES 182 SIX DIGIT, 12 HOUR CLOCK: Three rear-mounted setting controls—Fast Advance, Slow Advance, and Hold. \$272

ES 184 SIX DIGIT, 24 HOUR CLOCK: Otherwise identical to the ES 182 \$272

ES 380 FOUR DIGIT, 100 MINUTE UP/DOWN TIMER: Displays minutes and seconds.

with rear-mounted connector to allow remote wiring of six momentary SPST CONTROLS—Count Up, Count Down, Stop, Minutes Advance, Seconds Advance and Reset. Other features similar to ES 301. \$316

ES 381 UP/DOWN TIMER: Similar to ES 380, except that leverwheel preset is used. \$416

ES 580 FOUR DIGIT, 60 MINUTE TIMER: Displays minutes and seconds. Rear connector allows remote wiring of three momentary SPST controls—Start, Stop and Reset. Reset returns all displays to zero, and timer will continue to run from zero if reset while running.

80 Series slaves are also compatible with other ESE clocks and timers: ES 112/124, 301, 302 and 510 \$228

Dimensions: 4.45" High x 10.38" Wide x 6.58" Deep.



ES 510L

FOUR DIGIT

60 MINUTE TIMER \$158

ES 510 is a four digit, sixty minute timer (59:59) with Start, Stop and Reset controls. If stopped, display will hold time reading and when restarted will continue with next count from last displayed figure. If reset while running, timer will continue to run. ES 510 can drive 80 Series and 90 Series Slaves.

Dimensions: 2 1/2" High x 6" Wide x 6" Deep.



ES 203/205 \$ 89

ES 203/205 is a 20 input Timer/Source Interface. It was designed to provide a simple means of connecting a variety of sources such as carts and turntables to the remote input of ESE Timers. The most common application for this product is resetting either an ES 400 or ES 510 Timer each time a source is started.

The 20 inputs are divided into ten DC voltage inputs and ten contact closure inputs. Activation of any one of these inputs will cause an output which will momentarily reset an ESE timer.

Mechanical: Aluminum Case 8" x 6" x 2".



90 SERIES

2 INCH DISPLAYS—VIEWABLE AT 60 FEET

ES 391—Presettable Up/Down Timer: 100 Minute Range—Displays Minutes and Seconds, uses Leverwheel Preset. Controls are Count Up, Count Down, Stop, Reset and Preset. \$487

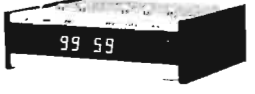
Dimensions: 4.45" High x 10.38" Wide x 6.58" Deep.

ES 590—Sixty Minute Timer: Displays Minutes and Seconds. Rear-mounted connector provides for wiring to user's single pole, momentary, push-button controls: Start, Stop and Reset. Reset returns all displays to zero, and timer will continue to run from zero if reset while counting. \$228

Dimensions: 4.45" High x 10.38" Wide x 6.58" Deep.

ES 992/994—6 Digit Clocks: ES 992 (12 Hr) and ES 994 (24 Hr)—Hours and Minutes on Two Inch Gas Discharge Displays, Seconds on One Inch Gas Discharge Displays. Three top-mounted setting controls—Fast Advance, Slow Advance and Hold. \$449

Dimensions: 5" High x 12" Wide x 3 1/4" Deep.



ES 301/302

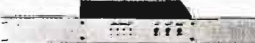
100 MINUTE UP/DOWN TIMERS \$234 \$302

ES 301 is a four digit, one hundred minute timer (99:59) with six controls: Count Up, Count Down, Stop, Minutes Advance, Seconds Advance, Reset. Counting can be activated up or down or set back to zero. When "Stop" control is pressed, the four digit display is held. Counting direction (up or down) can be changed or time can be reset to zero without stopping the count. The ES 301 can drive 80 Series and 90 Series Slaves. Displays are gas discharge, 55" high.



With the ES 302, the user can preset times much faster than with the ES 301, because lever-wheel type switches are used for the preset feature. The ES 302 can drive 80 Series and 90 Series Slaves.

Dimensions: ES 301: 2 1/2" High x 8" Wide x 6" Deep.
ES 302: 2 1/2" High x 10" Wide x 6" Deep.



ES 206

VIDEO TIME AND DATE GENERATOR \$475

The ES 206 has been designed to allow the addition of Time and Date information to a video signal. Two rear-mounted video jacks permit "looping" the video information through the 206 to add the date.



ES 270 IRIG B TIME CODE READER \$350

The ES 270 TIME CODE READER has been designed to be an economical solution to the problem of receiving and displaying IRIG B.

Nine digits (Days, Hrs, Min, Sec) of time are shown on bright red LED's, .3" character height.

ES 270 comes in a rack mounting enclosure, 1 1/2" High, 19" Wide and 10" Deep.

The power requirement is 117V AC, 50/60 Hz, 230V AC, 50 Hz is available as an option.



142 Sierra Street El Segundo, CA 90245
(213) 322-2136

Circle (152) on Action Card

CHIEF ENGINEER-

"Thank God, it works. We've tried everything and we're really pleased."

DIRECTOR-

"It's a wonderful sense of security for a director to have access to the people he works with."

TALENT-

"Without the Comrex, I would have been lost."

Are you entirely satisfied with your ENG communications?

We've just finished talking with every Comrex Cue System user and, after talking with them, what we can't understand is why every station who does ENG, EFP, sports, or live studio programming hasn't at least considered our Cue System.

The Comrex Cue System is an RF system that goes in a van, helicopter, press box, studio control room, etc., and sends both program and instructions to small, rugged, pocket receivers.

Give us a call. We're happy to tell you more or to send it out on a free ten day trial.

COMREX

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Sudbury, Massachusetts 01776
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Circle (20) on Action Card

NEWSMAKERS

Vincent Wasilewski, president of the National Association of Broadcasters, has announced his intention to resign sometime during 1982. Wasilewski joined NAB in October 1949 and has served as president since January 1965. Wasilewski, who will be 60 this December 17, is one of the industry's more respected and forceful figures.

Sterling Davis was hired as production manager and Ray Jacobs was named director of administration of Cox-owned KTVU, San Francisco/Oakland. Davis will be responsible for the supervision of both the film and floor departments, and will serve as the facilities supervisor. Prior to joining KTVU, Davis was chief engineer of Telemation Production in Seattle.

John Ridall has been appointed general manager of Viacom Cablevision in Dayton, Ohio. Ridall was formerly director of marketing for Viacom Cablevision in Cleveland.

John Dimling, Jr., has been named executive director of the Broadcast Rating Council. Dimling assumed the position June 1, following the retirement of Hugh Beville, Jr..

Jim Noeldner joined Katz Communications' sales office in Seattle. Noeldner came to Katz from KAPY Radio, Port Angeles, where he was a sales manager.

Jonathan Klein is the new general sales manager of WBZ-TV, Boston. Klein, formerly vice president and general manager of KDKA Radio, will be responsible for WBZ-TV's national and local sales force.

Peter Rainger, deputy director of engineering for the BBC, has been elected a Fellow of the Royal Society "for his major contributions to the development of electronic techniques used in television." Rainger joined the BBC as a graduate engineer in 1951. He helped develop the first electronic standards converters as well as Ceefax, from which teletext has developed. More recently he has played a leading role in the formulation of the standard format for digital video signals which was agreed upon by the CCIR.

Anna Mae Sokusky is the new director, CBS Radio Stations News Service. She replaces Joseph Durso, Jr., who has been appointed news director at WBBM-AM in Chicago.

Fran Wilkinson, an executive with an extensive background in radio sales, has joined the RKO Radio Networks as western region sales manager in the Los Angeles sales office. Wilkinson comes to RKO from Blair Radio, where he was sales manager for the firm's L.A. office.

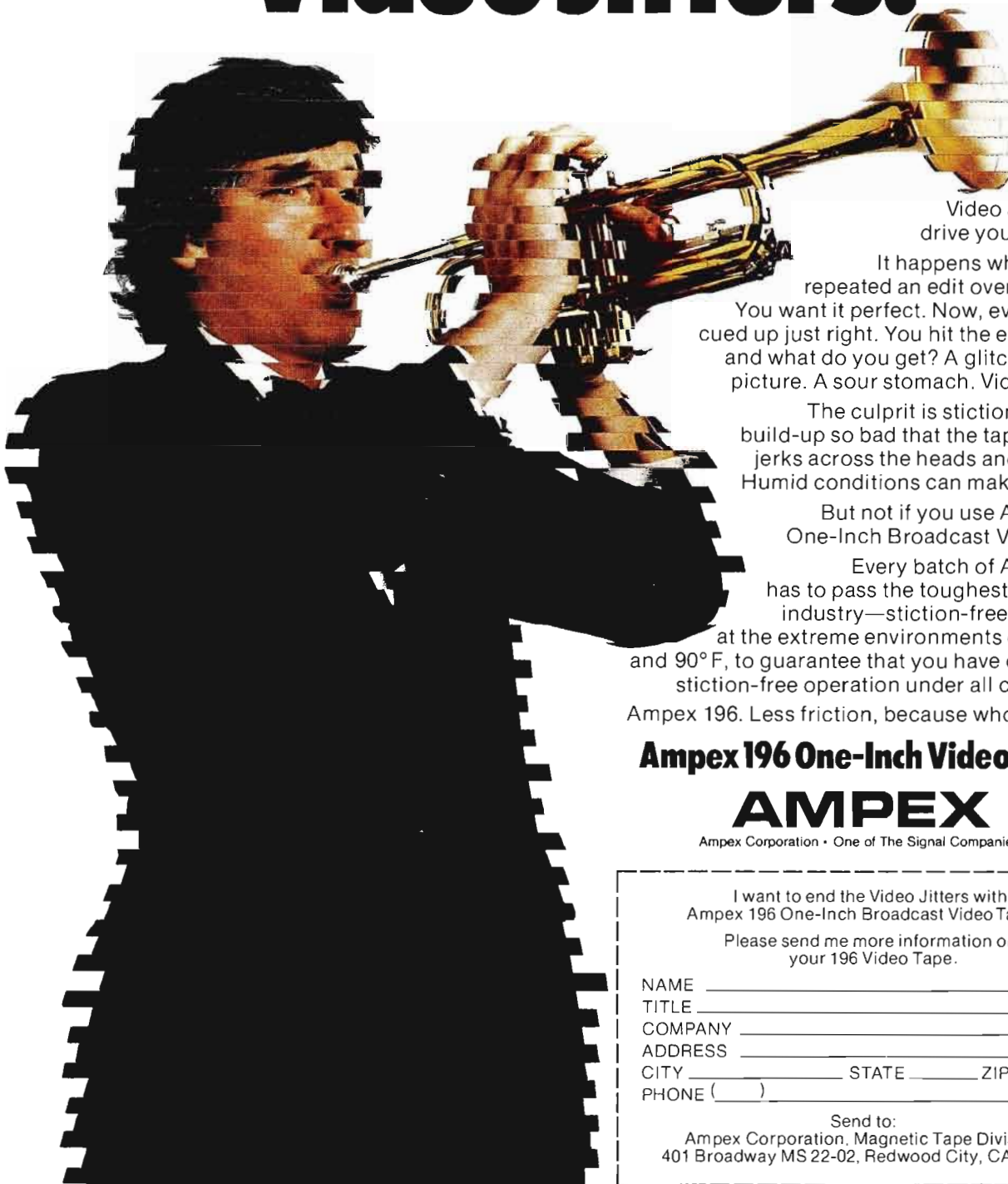
Sheldon Cooper has been named president of Tribune Productions, a newly formed subsidiary of Tribune Company Broadcasting Inc. Cooper was formerly the president and general manager of WGN Television.

Andrea Cetera has assumed the post of vice president, market strategy, at Viacom Enterprises. Prior to joining Viacom a year ago, Cetera was director of research and client services for Petry Television.

Elliott Klein was elected vice president of the Phoenix Metropolitan Chapter of the Arizona Broadcasters Association. Klein is director of engineering at KNIX, Tempe.

Continued on page 30

Ampex Announces the Practical End of Video Jitters.



Video Jitters can drive you up a wall.

It happens when you've repeated an edit over and over. You want it perfect. Now, everything's cued up just right. You hit the edit button, and what do you get? A glitch. A shaky picture. A sour stomach. Video Jitters.

The culprit is stiction—friction build-up so bad that the tape actually jerks across the heads and scanner. Humid conditions can make it worse.

But not if you use Ampex 196 One-Inch Broadcast Video Tape.

Every batch of Ampex 196 has to pass the toughest test in the industry—stiction-free operation at the extreme environments of 90% RH and 90° F, to guarantee that you have consistent stiction-free operation under all conditions.

Ampex 196. Less friction, because who needs it?

Ampex 196 One-Inch Video Tape.

AMPEX

Ampex Corporation • One of The Signal Companies

I want to end the Video Jitters with
Ampex 196 One-Inch Broadcast Video Tape.

Please send me more information on
your 196 Video Tape.

NAME _____
TITLE _____
COMPANY _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
PHONE () _____

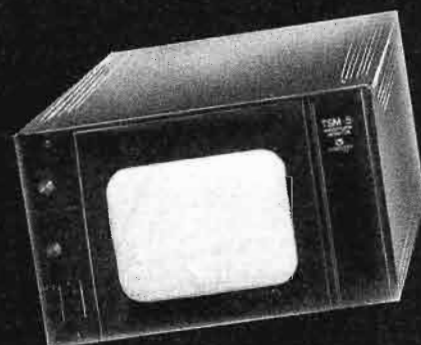
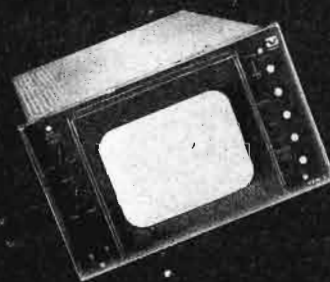
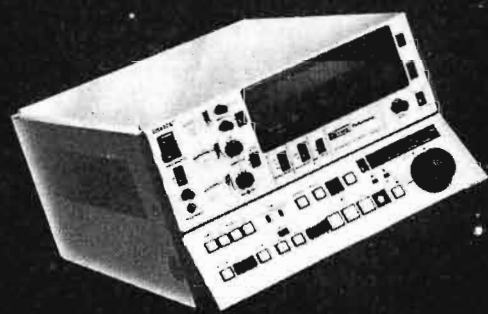
Send to:

Ampex Corporation, Magnetic Tape Division
401 Broadway MS 22-02, Redwood City, CA 94063

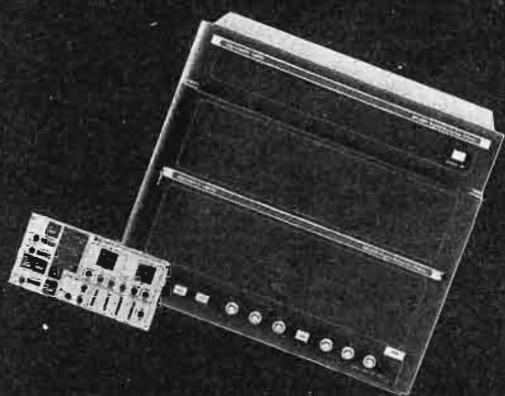
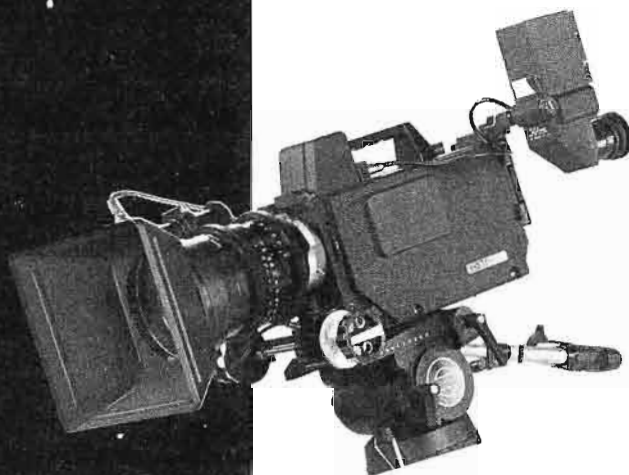
BC

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THE NEW OF VIDEO.



WORLD



CAMERA MART, THE SOURCE FOR EVERYTHING IN TODAY'S NEW WORLD OF VIDEO TECHNOLOGY.

At Camera Mart, we're keeping pace with the rapidly advancing science of video technology to give you the most sophisticated state-of-the-art equipment available.

In the new world of video, equipment is more flexible, more versatile, more accurate than ever before, with capabilities far ahead of just a year ago.

At Camera Mart we can give you entire video systems: cameras, sound, lighting, editing...plus the expertise of our trained technical staff to help you put together the system that's exactly right for your needs, TV broadcasting, field production, fixed or mobile installations, ENG/electronic cinematography, you name it.

Whether you want to buy, rent or lease, see what's been happening in video research and development. See how much more you can have with the latest advanced video systems at Camera Mart.

Products Shown:

Sony BVU-800 Broadcast Cassette VTR, Ikegami HL-79 ENG/EFV Camera, Videotek TSM-5 Wave Form Monitor, Videotek VSM-5 Vectorscope, Ikegami EC-35 Electronic Cinematography Camera, Quantel DPE 5000 Digital Effects System, Panasonic NV-8500 VHS Editing Recorder, Microtime T-120 Time Base Corrector.

The Camera Mart, Inc.

456 W. 55th St., New York 10019 • (212) 757-6977/Telex: 1-2078

Video Department: 800 Tenth Ave.

Sales • Service • Rental

Circle (22) on Action Card

THE ELECTRONIC NEWSROOM IS HERE TO STAY!

THE PROVEN SYSTEM IS AVAILABLE TODAY!

FROM INTEGRATED TECHNOLOGY, INC.

- IT is the **only** computer systems company that is totally devoted to broadcast news applications!
- IT is the manufacturer of the **only** electronic newsroom system with a proven performance of around-the-clock operation for more than 18 months without crash!
- IT **leads** the industry in the number of new systems developed exclusively for the broadcast news market!
- IT has the **capability** for the volume production of its exclusive design, and performance proven systems, now!

CALL OR WRITE FOR DETAILS TODAY

INTEGRATED TECHNOLOGY, INC.

Specializing in computer management systems for the broadcast newsroom.

9644 View High Drive
Kansas City, Missouri 64134
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NEWSMAKERS

Lou Zacche, named vice president of advertising and promotion for Abell Communications, will direct the advertising, promotion, and design activities for Abell's television and radio stations, as well as its direct marketing and program syndication efforts.

Peter Vincelette joined the Insilco Broadcast Group of Florida as general manager of WYOR, Miami. Vincelette had been vice president and general manager of WJYE-FM, Buffalo.

Linda Farrell moved from KOCO-TV, Oklahoma City, to KOA-TV, Denver, where she became news anchor. Farrell has worked as a producer, writer, reporter, anchor, and news director in the Oklahoma City area.

Mary Murano has been appointed northeast region affiliate marketing manager for Rainbow Programming Services. Her responsibilities include developing, planning, and executing affiliate launches; ongoing marketing programs; and follow-through activities for all systems within the district. Prior to joining Rainbow, she was manager of advertising and promotion at Showtime Entertainment.

Business Moves

Herb Lee, formerly in industrial video sales for Peirce-Phelps, Video Systems Division, has been promoted to broadcast/teleproduction salesman for the Washington, D.C., area. Also at Peirce-Phelps, **James Wesley Boslough** has joined the company as systems engineer. Boslough has more than 20 years of broadcast and technical engineering experience.

Bruce Hall recently joined Bonneville Satellite Corporation as director of operations. Hall is responsible for the operations of Bonneville Satellite's leased and owned satellite facilities and services.

Michael O. Felix has been appointed general manager of Ampex Corporation's Advanced Technology Division. Felix will direct the company's extensive research and development programs in his new position.

Howard McClure has been named vice president of marketing at Townsend Associates. McClure joins Townsend Associates from Fernseh, where he was director of product management and applications engineering.

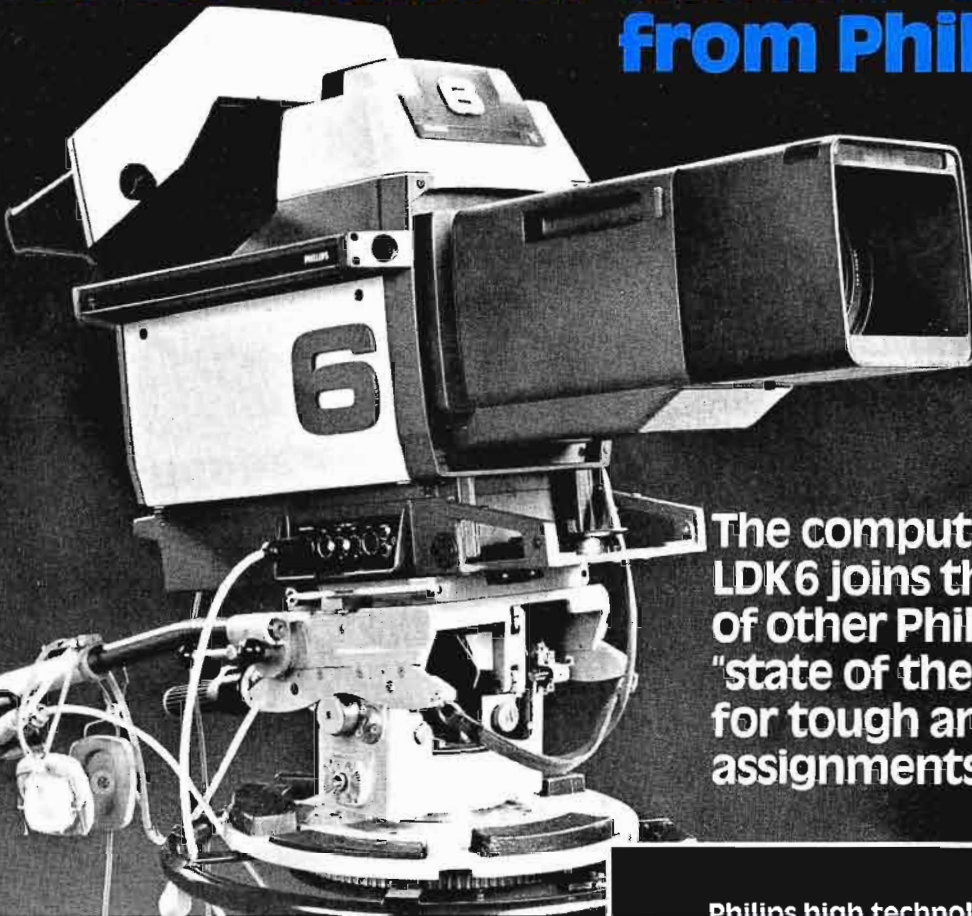
Richard Teichman was recently appointed senior vice president of Electronics, Missiles & Communications Inc. (EMCEE). In his new position, Teichman will be responsible for many phases of the company's operations, including general administration, training, and data processing.

John Robbins, new manager of production and product support at Quad-Eight Electronics, has an extensive background in professional and consumer audio manufacturing and in FM broadcasting. His new responsibilities will cover both standard and custom products at Quad-Eight.

Michael Montag, formerly European regional sales manager for Telemation International, has been appointed head of the newly formed Microtime Europe Limited, a wholly owned subsidiary of Microtime Inc., located in the United Kingdom. The new company will provide sales and service support to Microtime's dealers and customers in Europe, the Middle East, and Africa. Also at Microtime,

Continued on page 32

Another "state of the art" camera from Philips...



The computer controlled LDK6 joins the family of other Philips cameras... "state of the art" cameras for tough and specialized assignments.

A new era has been launched with the all new LDK6 field and studio triax camera with "distributed intelligence" to control, report and diagnose. These features now mean the operator can concentrate on creative camerawork.

For the first time, individual microcomputer and data communication facilities in each of the main system units provide an unequalled degree of intelligence within the system.

Other unique features include:

- Simultaneous multi camera computer controlled setup... partial or automatic.
- Diagnostics for on line anticipatory, and off line on-demand fault indication.
- Digital scan correction for spectacular reduction in corner errors.
- Wide Band RGB video over triax.
- Multiple camera settings can be stored and recalled instantaneously during production.
- 4 lens memories to automatically adjust for different lens parameters including back focus.
- Built-in diascope so standard lenses can be used including LDK5/25 lenses.
- Either 25mm or 30mm Plumbicons® can be selected.
- Two-wire data bus permits easy and economical expansion.

LDK5B and 25B are rugged and reliable high quality cameras. The all triax LDK5B has become a standard for tough remote requirements, and continues to be the first choice for quality field productions. The multi-core LDK25B is a first line studio camera... and surprisingly affordable.

LDK14S and SL EFP/Studio cameras are ready for any shoot out and comparison of automatic features... and require only a simple adapter for triax conversion. The LDK14SL with Low Output Capacitance diode gun Plumbicons® offers an unusually high S/N Ratio (57dB) and higher resolution.

LDK44 is a new modular 3-in-1 versatile and economical broadcast quality ENG/EFP/Studio camera. No other camera offers the features and flexibility at such a low price.

Philips high technology "workhorse" cameras continue to be the choice of demanding broadcasters for quality pictures, reliability, flexibility and low cost of ownership.



For your present or future camera requirements, put yourself behind any one of these Philips LDK cameras and compare... quality, reliability, ease of operation, flexibility, and cost of ownership. Call or write for full details.

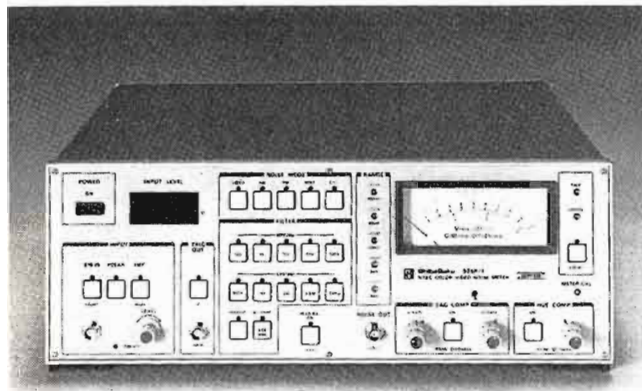


CENTRAL DYNAMICS CORPORATION

The U.S. Broadcast Company for **CDL** • **PHILIPS** • **American Data**
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THE TRUE MEASURE OF PERFORMANCE



ASACA/SHIBASOKU 925R Color Video Noise Meter

The versatile 925R accurately measures both luminance and chrominance noise generated from TV transmission equipment, TV cameras, VTR's, videotape and videodisks. Connected to a general purpose interface bus (IEEE-488), it gives you complete receive/transmit capabilities. You can receive measurement start, mode and filter selection commands and transmit measurement data through the bus. You can expand the 925R into a fully automated system by using a desk-top computer with the SHIBASOKU TG-7 TV Test Signal Generator, U705 Noise Test Unit and 531 Interface Unit.

- Tests equipment under actual operating conditions.
- Separates AM/PM chrominance noise and measures each.
- Features HP/LP filters and weighting network for frequency analysis.
- Provides V/H sag compensation, hue compensation, and VTR head balance.
- Logs digital data; may be used as a digital video level meter.
- Available in NTSC; PAL B, M, N; and SECAM systems.

Measure your performance with the best.
ASACA/SHIBASOKU 925R. The world standard in color video noise measurement.

For complete specifications, write:



ASACA/SHIBASOKU CORP. OF AMERICA
12509 Beatrice Street, Los Angeles, California 90066
Sales, Service: (800) 423-6347 • (213) 827-7144

Circle (83) on Action Card

NEWSMAKERS

Stephen Kreinik was named director of engineering; Gary Armour was named western regional manager; and Stephen Krant was named south central regional manager.

David Osedach was recently appointed video products sales manager for Audiotronics International, located in North Hollywood, California. Osedach will have full responsibility for the marketing of both CCTV and data display customers in the international markets, excluding Europe.

Jamie McMahan has been promoted to director of marketing for the Broadcast Division of Data Communications Corporation.

Larry Lamoray joined Audiotronics as international marketing manager. Lamoray was formerly with MCI Inc., serving both the engineering and marketing departments.

Bill Culbertson is the new manager of southern broadcast sales at RCA Commercial Communications Systems Division. Based in Camden, New Jersey, Culbertson is responsible for an organization selling RCA's line of radio and television studio and transmitting systems throughout the southern states.

Gary Hinderliter has been named director, customer services, at CMX/Orron. In his new position, Hinderliter will supervise the company's technical publications, training, and field service activities. He joined the company in 1978, and was most recently central region field service supervisor.

Peter Maguire, the new head of Valtec's Kansas City office, is responsible for developing new business opportunities for Caltec fiber-optic cable and telecommunications in North Dakota, South Dakota, Nebraska, Colorado, Kansas, Oklahoma, Texas, Louisiana, Missouri, Iowa, Minnesota, Illinois, and Wisconsin.

Richard Moen was recently appointed general sales manager for McMartin Industries. Moen will also continue his former responsibilities as eastern regional sales manager for McMartin broadcast products.

Russell Farrell was promoted to OEM sales manager for Altec Lansing's industrial/professional sound products line. He was formerly Altec's district manager for New England.

Nathaniel (Nat) Ostroff, the former principal founder of Acrodyne Industries, joined Comark Communications as a member of the board of directors and as an operating vice president. Ostroff will head the company's new high-technology research and engineering division in Colmar, Pennsylvania.

Dr. Albert A. Comparini has been named vice president of operations for Andersen Laboratories. Dr. Comparini will be responsible for product development, materials, and manufacture of electronic systems for Anderson Laboratories, a subsidiary of Andersen Group Inc. He had been director of operations for Andersen Laboratories since 1979. He joined the firm in 1977 as engineering manager.

James "Jay" Samples is the new midwest regional sales manager for Capscan Cable Company. He will be responsible for Capscan sales and service activities throughout Tennessee, Kentucky, Ohio, Illinois, Indiana, Michigan, Minnesota, and Iowa.

BC

The next generation in editing systems.

Mach One® Series II.

Mach One from Fernseh has always been the fastest videotape editor on the market. The easiest-to-use.

And because it's software-based, we can make it more powerful with software changes.

That's exactly what we've done with the new Mach One Series II—the second-generation system.

Powerful new features.

Series II has all the features of the original Mach One. Plus six important new features that not only let you edit faster than ever, but give you unique capabilities and conveniences.

Dual-channel audio control. This exclusive feature gives you complete and independent control over two separate audio tracks in addition to the video channel.

Variable speed control. You can select any of 16 shuttle-jog speeds in either direction—all the way from freeze frame to maximum VTR speed.

Programmable slow motion.

Once you've selected a speed, it's displayed on the screen and you can program it in the edit list (for example, "half-speed at two minutes in, three-quarter-speed at three minutes in," and so forth). The programmed sequence is then completely repeatable.

Updated edit list formatting.

Mach One Series II gives you 6-digit alphanumeric reel numbers, audio channel 1 and 2 entry, additional events displayed on the screen, and other edit list features.

Cluster-event programming.

A Mach One exclusive. This powerful feature lets you program extremely complicated multiple events, known as "elements," in a "cluster" and treat them as a single event. For example, a complex series of switcher wipes, dissolves, or keys—together with digital video effects—can be quickly put together and previewed or recorded *in one pass* rather than event-at-a-time.

Screen highlighting. We've made the Series II edit screen easier to work with. Now it brightens the edit line you're working on and simultaneously dims the rest of the screen. It's easy

on the eyes, easy on the nerves, and never lets you lose your place—even for a second.

The editor's editor.

Mach One Series II in your editing room will give you speed and ease of operation that translates into creativity and profits.

You need the new generation in computer-assisted editing for your post production. And the new generation is exclusively Mach One Series II.

Your local Fernseh office is anxious to get you full details. Call them. Or get in touch with us directly: Fernseh Inc., the Video Corporation of Bell & Howell and Robert Bosch, P.O. Box 15068, Salt Lake City, UT 84115. (801) 972-8000.

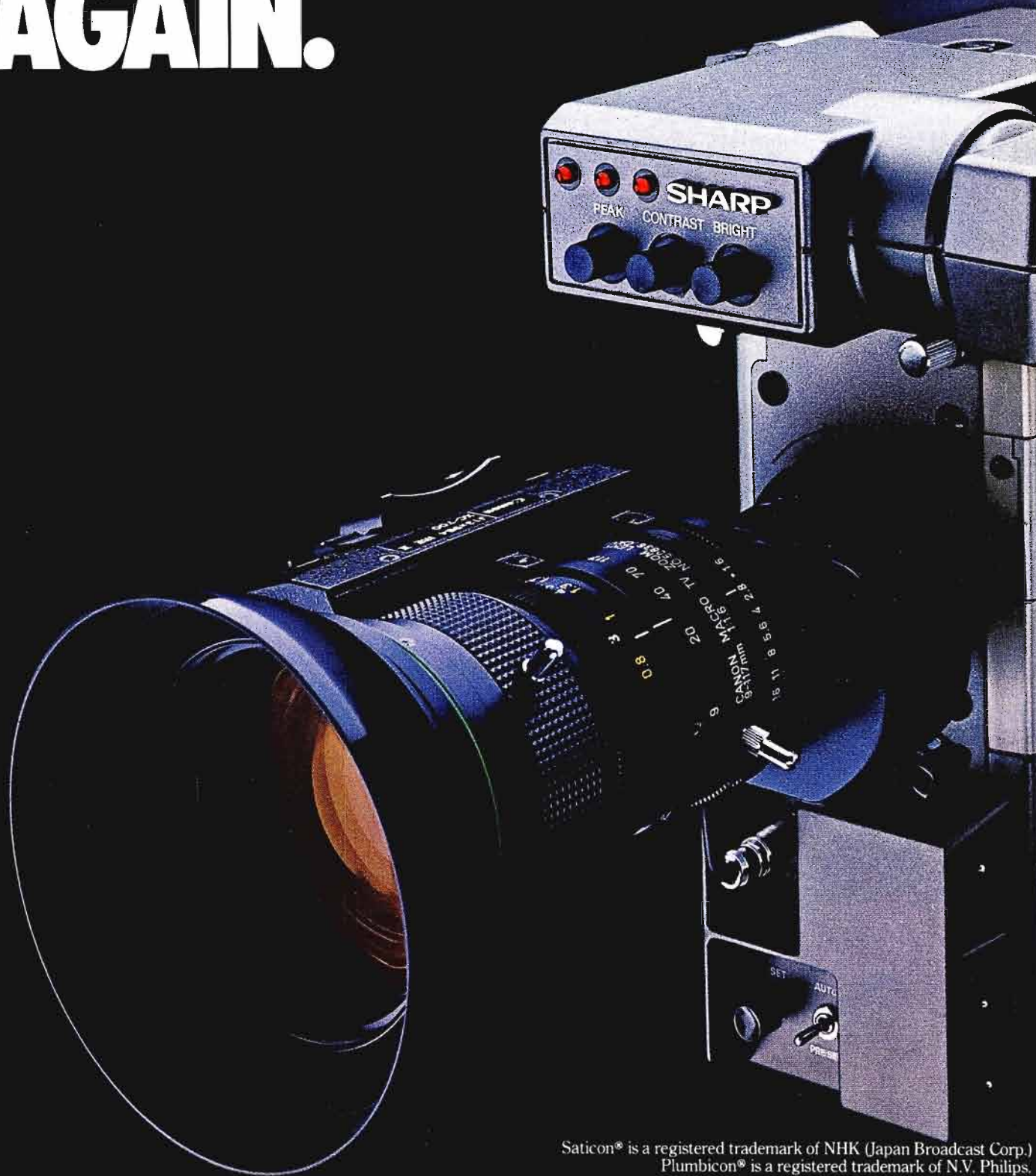
From now on,
look to Fernseh.

FERNSEH

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INTRODUCING THE XC EVERYONE ELSE OUT AGAIN.



Saticon® is a registered trademark of NHK (Japan Broadcast Corp.)
Plumbicon® is a registered trademark of N.V. Philips.

-800. SHARP® TAKES OF THE PICTURE.



While everyone else is introducing a mid-priced camera, Sharp introduces a whole new generation.

The Saticon II Generation.

The Sharp XC-800 is the first camera priced under \$13,000 with Saticon II Tubes.

That means it's the first camera in its class that combines Saticon® strengths with a Plumbicon® plus.

So unlike conventional Saticons, you get substantially less highlight sticking, even when you pan across bright lights.

And you still get the higher resolution and depth of modulation Saticons are known for.

But that's just the beginning.

Pound for pound, feature for feature, nothing comes close to the new Sharp XC-800. It's lightweight and perfectly balanced.

And while we're proud of our new on-board computer, and newly designed Remote Operations Panel with serial data transmission and black stretch, the name of our game is more than just features.

It's reliability.

That's what the pros were looking for when we introduced the original XC-700, the first mid-priced camera that didn't perform like a mid-priced camera.

In fact, it performed so well, there are over a thousand of them out in the field today.

And it's been so successful, it's encouraged a rash of new mid-priced cameras.

We encourage you to compare any of them with the new Sharp XC-800.

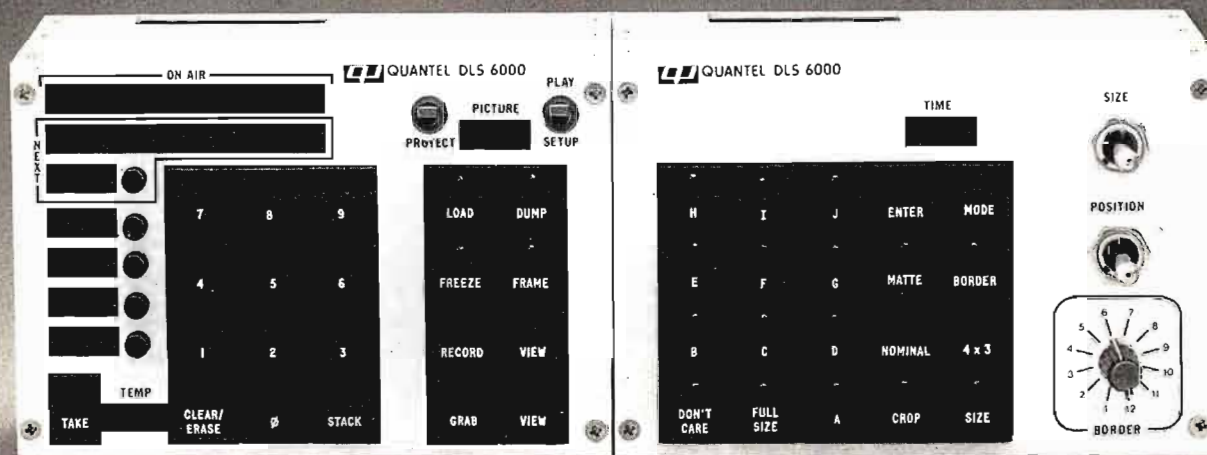
Between the Saticon II breakthrough and everything else, nobody offers more camera for the money. For more information, contact your local dealer, or write: Sharp Electronics Corporation, Professional Products, 10 Sharp Plaza, Paramus, New Jersey 07652.



FROM SHARP MINDS
COME SHARP PRODUCTS

Circle (27) on Action Card

The Quantel DLS 6030.



Every other way to store stills is obsolete.

Introducing the state-of-the-art in electronic still-storage—the Quantel DLS 6030 digital library system.

Obviously it stores still pictures. Up to 800 on each small Winchester disk drive. And with the quality that is a hallmark of Quantel. But the DLS 6030 goes far beyond still-storage.

It is the only electronic still-store with production effects capabilities. So now you can compress still pictures to any size. Crop them to remove unwanted material. Position them anywhere you want. Put borders around them. And dissolve from one shot to the next.

You can even build up totally new pictures—composites or montages—from existing material.

And you can always retain your “originals” in their pristine state.

The DLS 6030 lets you browse through its disk library to select the pictures you need, and gives you unprecedented facilities for on-air editing, previewing, and presentation.

Off-loading? You can dump all the pictures—in digital form—onto

standard videotape. Then reload at the remote site via any VTR. The transfer is digital, so there's no generation loss.

Because Quantel's technology is leading-edge, the DLS 6030 is small—about one-quarter the size of still-stores using older technology—and draws far less power. So it's ideal for mobile operations as well as the studio.

There's nothing else like it. See for yourself. Call your local MCI/Quantel representative. Or get in touch with us directly at 415/856-6226. Micro Consultants, Inc., P.O. Box 50810, Palo Alto, California 94303.



MCI/QUANTEL
The digital video people.

MCI/Quantel is a trademark of Micro Consultants, Inc.

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JUNE 1982

TEN DOLLARS

BROADCAST COMMUNICATIONS

THE INTERNATIONAL
JOURNAL OF
BROADCAST TECHNOLOGY

281 PAGES

THE DIRECTORY

OF BROADCAST
EQUIPMENT
SERVICES
& SUPPLIERS

1982

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WHERE TO BUY IT

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TDM-8000
Audio Time
Compressor

TDM-8200
Stereo Slave



NEW FROM INTEGRATED SOUND SYSTEMS

The TDM-8000 Audio Time Compressor features proprietary patented technology that achieves performance appropriate for first run movies, video taped segments, records, commercials for TV and AM/FM radio, and related applications.

An exclusive, state of the art, intelligent splicing system (pat. pending) is one of the major innovations of the system. The audio signal is analyzed in digital form, but the program signal remains in the analog domain throughout the

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This makes the TDM-8000 the most versatile on the market.

And now with the new TDM-8200 Stereo Slave you can do it all in stereo.

INTEGRATED
Sound Systems, inc.

29-50 Northern Blvd., Long Island City, N.Y. 11101, Telex: 968020

Circle (153) on Action Card

CINE 60 SUN-GUN

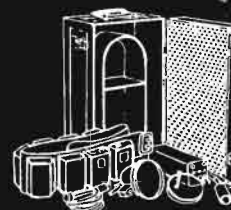
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Circle (154) on Action Card

PRODUCT DIRECTORY

ALARMS

CARRIER

Belar Electronic Labs
Bird Electronics
Cinetronics
Coastcom
GTE Products Corp.
Jerrold Div., Gen. Instrument Corp.
Jenel Corporation Consulting Engineers
McMartin Industries
Moseley Associates
Potomac Instruments
Rivers Associates Inc.
Telcom Research

FAULT

Belar Electronic Labs
Bird Electronics
CSI
Cat Systems
Coastcom
Dragnetz Engr. Labs
Ear Systems, Inc.
Image Video
Jenel Consulting Engineers
Marconi Instruments Ltd.
Modulation Associates
Moseley Associates
Pinzone Communications
Rivers Associates Inc.
Telcom Research
Trepac Corp. of America
Video Aids of Colorado
Zercom Corp.

TOWER LIGHT

AEG-Telefunken
Abroyd Construction
Allied Tower
Coastcom
Flash Technology
Harris Corp., Broadcast Products
Hughey & Phillips
LeBlanc & Royle
Communications Inc.
Moseley Associates
Potomac Instruments
SSAC Inc.
Sharepoint Systems
Trepac Corp. of America
UNR-Rohn
World Tower

WARNING SYSTEMS

TFT Inc.

AM PHASING & BRANCHING SYSTEMS

Andrew Corp.
BES Electronics Ltd.
CSI Electronics
CSP Inc.
Continental Electronics Mfg.
Cosmin Electronics
Delta Electronics
Elcom Specialty Products
Gelco Electronics Ltd.
Harris Corporation, Broadcast Products Division
Multiphase Consulting

AMPLIFIERS, AUDIO

CLAMPING AMP

ATI Audio Technologies Incorporated
AVL Digital Ltd.
Central Dynamics Ltd.
Di-tech

Dynamic Technology Ltd.
Elektroimpex
International Nuclear
Leader Broadcast Systems
Multidyne Electronics
Orange County
Salt Electronics

COMPRESSING AMP

ATI Audio Technologies Incorporated
Amek TAC
Aphex Systems
Applied Technology
Audio & Design Recording
Audix Limited
Bogen Division / Lear Siegler
Broadcast Electronics
Circuit Research
Coastcom
dbx, Inc.
Dukane Corp.
Dyma Engineering
Elcom Bauer
Elcom Specialty Products
Elektroimpex
Fisher Berkeley
Gregg Laboratories
Harrison Systems
I T I Electronics
Inovonics
LPB
Leader Broadcast Systems
McCurdy Radio Industries
McMartin Industries
Modular Audio Products
Modulation Associates
Moseley Associates
NTP Elektronik A/S
Georg Neumann GwBH
Rupert Neve
Opamp Labs
Orban Associates
Orange County
Processing Plus
ProTech Audio Corporation
Pyramid Loudspeaker
Ramko Research
Richmond Sound Design
Roh Corporation
Salt Electronics
Sescom
Shure Brothers
Sontec Electronics
Spectra Sonics
T M Systems
TOA Electronics
Trident
Tweed Audio
Valley People

DISTRIBUTION

ADM Technology
ALICE (Stancoil Ltd.)
ATI Audio Technologies Inc.
AVL Digital Ltd.
Allied Broadcast
American Data
Aphex Systems
Arrakis Systems
Audio & Design Recording
Auditronics
Audisar
Audix Ltd.
Bayly Engineering Ltd.
BGW Systems
BSM Systems
Bell Audio Systems
Bogen Division / Lear Siegler
Bonneville Productions
Robert Bosch GmbH
Brabury Broadcast Systems
Don Britton Eng.
Broadcast Audio Corp.
Broadcast Electronics
Broadcast Technology
David H. Brothers Co.
C-Cor Electronics
Catal
Central Dynamics Ltd.
Channelmatic
Comprehensive Video Supply
Conifer Corp.
D - B Electronics
Datatek
Datatronix
Datum

Di-tech
Philip Drake Electronics
Dyma Engineering
Dynair Electronics
Dynamic Technology Ltd.(82)
Edcor
Elektroimpex
Farrtronics Limited
Fernseh, Inc.
Finney
HEDCO/Hughes Electronic Devices Corp.
IGM Communications
Industrial Sciences, Inc. (ISI)
Inovonics
International Nuclear Corp.
J.V. Electronics Inc.
Javellin Electronics
Jerrold Division, General Instrument Corp.
Johnson Electronics
LPB Inc.
Leader Broadcast Systems
Leitch Video
Link Electronics
Logitek
McCurdy Radio Industries
McMartin Industries
Magnavox CATV
Merrill Cable Equipment Corp. (CATV Electronics)
Micro - Trak Corporation
Modular Audio Products
Modulation Associates
Multidyne Electronics
NTP Elektronik A/S
George Neumann GwBH
Rupert Neve
RTS Systems
Radio Systems, Inc.
Norcom Manufacturing
Opamp Labs
Pacific Recorders
Pro Bel Ltd.
Processing Plus
ProTech Audio Corporation
Pye TVT
RMS Electronics
RTS Systems
Radio Systems
Ramko Research
Richmond Sound Design
Rockwell International
Roh Corporation
Rohde & Schwarz
Russco
Salt Electronics
Scantex Laboratories
Scientific-Atlanta
Scientific Systems
Sescom
Shintron
Siemens Osterreich A/S
Sigma Electronics
Sontec Electronics
Sound Systems
Spectra Sonics
Straight Wire Audio
Studer Revox America
Teac Corp. of America
Telemet
Television Equipment Associates
Texscan
Thomson-CSF Broadcast
Tweed Audio USA, Inc.
Ultra Audio Pixtec
Vamco Engineering
Versa-Count
Vital Industries
Ward-Beck Systems

LINE AMP

ADM Technology
AEG-Telefunken
(Bayly Engineering)
ALICE (Stancoil Ltd.)
Amplifica
Aphex Systems
Arrakis Systems
ATI Audio Technologies Incorporated
Audisar
Audix Limited
BGW Systems
Bell Audio Systems
Bogen Division / Lear Siegler
Bonneville Productions

Brabury Broadcast Systems
Broadcast Audio Corp
Broadcast Electronics
Broadcast Technology
David H. Brothers Co.
C-Cor Electronics
Central Dynamics Ltd.
Michael Cox
D - B Electronics, Inc.
Datatek
Datatronix
Datum
Philip Drake Electronics
Dukane Corp.
Dyma Engineering
Ear Systems Inc.
Elektroimpex
Enertec Schlumberger
Finney
Fisher Berkley
Full Compass Systems
HEDCO
Howe Audio
IGM Communications
I T I Electronics
International Nuclear Corp.
J.V. Electronics Inc.
Javellin Electronics
Jensen Transformers
Johnson Electronics
Leader Broadcast Systems
Link Electronics
McCurdy Radio Industries
McMartin Industries
Magnavox CATV Systems
Merrill Cable Equipment Corp. (CATV Electronics)
Micro - Trak Corporation
Modular Audio Products
Modulation Associates
Multidyne Electronics
NTP Elektronik A/S
Georg Neumann GwBH
Rupert Neve
Norton Assoc.
Opamp Labs
Panasonic, Professional Audio Division
Potomac Marine & Aviation
Processing Plus
ProTech Audio Corporation
Pye TVT
Quad-Eight Electronics
RTS Systems
Radio Systems, Inc.
Ramko Research
Research Systems Tech.
Richard Sound Design
Roh Corporation
Rohde & Schwarz
Salt Electronics
Sandar Electronics A/S
Scantex Laboratories
Scientific Systems
Sescom
Siemens Osterreich AG
Sontec Electronics
Sound Systems
Spectra Sonics
Sphere
Straight Wire Audio
Studer Revox America
TM Systems
Teac Corp. of America
Telex Communications, Inc.
Tweed Audio
Ultra Audio Pixtec
Valley People
Vidaire Elec. Mfg.
Video Aids of Colorado

MIKE AMP

ADM Technology
AEG-Telefunken
AKG Acoustics
ALICE (Stancoil Ltd.)
ATI Audio Technologies Incorporated
Amek TAC
Arrakis Systems
Audio & Design Recording
Audisar
Audix Limited
BMS Systems
Bayly Engineering Ltd.
Beyer Dynamic

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the trendsetters

Unquestionably the industry's standard of excellence in broadcast equipment

Most manufacturers meet industry standards; we exceed them. Our TOMCAT cartridge recorders/reproducers and BMX series of broadcast consoles deliver trendsetting on-line performance in broadcasting systems worldwide, from Boston to L.A., Australia to Great Britain.

TOMCAT: simply the world's finest. Innovative design assures superb sound quality, reliability, and low noise operation. Our Maxtrax™ wide-track fixed azimuth heads yield more signal, lowest phase error.

BMX, Series II: the ultimate in high performance mixing consoles. These compact units feature proven RF immunity and CMOS remote control flexibility, plus a choice of 10, 14, 22, and 26 input mainframe configurations. A new mix module is now available to offer two mix-minus busses for telephone talk shows. All this in a no-nonsense panel layout!

See why TOMCAT and BMX series have made us the industry trademark. Call or write today for free information on our complete line of equipment.



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(714) 453-3255

SOUTHEAST REGIONAL OFFICE
Three Maryland Farms
Suite 340
Brentwood, Tennessee 37027
(615) 373-3313

Circle (29) on Action Card

Bell Audio Systems
Bogen Division / Lear Siegler, Inc.
Brabury Broadcast Systems
Broadcast Audio Corp.
Broadcast Electronics
Broadcast Technology
David H. Brothers, Co.
Central Dynamics Ltd.
Cinetronics
Continental Electronics
D-B Electronics
Datatek
Datatronix
Dukane Corp.
Dyma Engineering
Dynair Electronics
Ear Systems Inc.
Edcor
Elektroimpex
Full Compass Systems
Gregg Laboratories
Howe Audio
IGM Communications
I T I Electronics
International Nuclear Corp.
Ivie Electronics
Jensen Transformers
Johnson Electronics
Leader Broadcast Systems
McCurdy Radio Industries
McMartin Industries
Micro-Trak
Modular Audio Products
NTP Elektronik A/S
Georg Neumann GwBH
Rupert Neve
Opamp Labs
Paso Sound Products
Processing Plus
ProTech Audio Corporation
Quad-Eight Electronics
RTS Systems
Radio Systems, Inc.
Ramko Research
Research Systems Tech.
Richard Sound Design
Roh Corporation
Salt Electronics
Scantex Laboratories
Scientific Systems
Sescom
Shure Brothers
Siemens Österreich AG
Sontec Electronics
Sound Systems
Spectra Sonics
Straight Wire Audio
TOA Electronics
Tapco
Telex Communications, Inc.
Transist-O-Sound
Tweed Audio
Vidaire Elec. Mfg.

MIXER AMP

ADM Technology
ALICE (Stancoil Ltd.)
ATI Audio Technologies
Incorporation
Altec Corp.
Amek TAC
Applied Technology
Arrakis Systems
Audsar
Audi Ltd.
Belar Electronic Labs
Bell Audio Systems, Inc.
Beyer Dynamic
Bogen Division / Lear
Siegler, Inc.
Don Britton Ent.
Broadcast Electronics
Broadcast Technology
David H. Brothers, Co.
Central Dynamics Ltd.
Cinetronics
Continental Electronics Mfg.
Michael Cox
Datatronix
Philip Drake Electronics
Dukane Corp.
Dyma Engineering
Ear Systems Inc.
Edcor
Elektroimpex
Full Compass Systems
Hallikainen and Friends
Howe Audio

IGM Communications
International Nuclear Corp.
Ivie Electronics
Johnson Electronics
Leader Broadcast Systems
Logitek Electronic Systems, Inc.
McCurdy Radio Industries
McMartin Industries
Micro-Trak Corporation
Modular Audio Products
Georg Neumann GwBH
Richmond Sound Design
Rupert Neve
Opamp Labs
Paso Sound Products
ProTech Audio Corporation
Pye TVT
Quad-Eight Electronics
RTS Systems
Ramko Research
Richard Sound Design
Roh Corporation
Salt Electronics
Scantex Laboratories
Scientific Systems
Sescom
Shure Brothers
Siemens Österreich AG
Sontec Electronics
Sound & Light Co.
Sound Systems
Spectra Sonics
Sphere
Straight Wire Audio
Studer ReVox America
TOA Electronics
Tapco
Tape-Athon Corp.
Teac Corp. of America
Transist-O-Sound
Tweed Audio
Ultra Audio Pixtec
Vidaire Elec. Mfg.

MONITOR AMP

AEG-Telefunken
(Bayly Engineering)
ALICE (Stancoil Ltd.)
ATI Audio Technologies
Incorporated
Altec Corp.
American Data
Arrakis Systems
Audionics of Oregon
Audsar
AVL Digital
BGW Systems
BSM Systems
Belar Electronic Labs
Bogen Division / Lear
Siegler, Inc.
Broadcast Audio Corp.
Broadcast Electronics
Broadcast Technology
David H. Brothers, Co.
Bryston Mfg. Ltd.
Cetec Broadcast Group
Conex Electro Systems
Continental Electronics Mfg.
Crown International
D-B Electronics
Datatek
Datatronix
Di-tech
Philip Drake Electronics
Dukane Corp.
Dyma Engineering
Elektroimpex
EV/Tapco
Fernseh, Inc.
Hallikainen and Friends, Inc.
Howe Audio
IGM Communications
I T I Electronics
Industrial Sciences, Inc.
International Nuclear Corp.
Ivie Electronics
Jerrold Division, General
Instrument Corp.
Kudelski S.A.
Leader Broadcast Systems
Logitek
McCurdy Radio Industries
McMartin Industries
Merlin Engineering
Micro-Trak Corporation
Modular Audio Products
Multidyne Electronics

Georg Neumann
Opamp Labs
Panasonic, Professional Audio
Division
ProTech Audio Corporation
RTS Systems
Radio Systems
Ramko Research
Roh Corporation
Rohde & Schwarz
Russco
Sait Electronics
Scientific Systems
Sescom
Siemens Österreich AG
Sound Systems
Spectra Sonics
Straight Wire Audio
Studer International AG
Studer ReVox America
TM Systems
TOA Electronics
Tweed Audio
Ultra Audio Pixtec
VIF International
Video Aids of Colorado
Videotek
Ward-Beck Systems
World Video

PEAK LIMITING, AM

ADM Technology
Applied Technology
ATI-Audio Technologies Inc.
Audio & Design Recording
Belar Electronic Labs
Bogen Division/Lear Siegler
Broadcast Electronics
Cetec Broadcast Group
Circuit Research Labs
Continental Electronics Mfg.
Delta Electronics
Dorrough Electronics
Dyma Engineering
EMT Franz
Elcom Bauer
Elcom Special Products
Enertec Schlumberger
Gregg Laboratories
Harris Corporation, Broadcast
Products Division
IGM Communications
Inovonics
Kahn Communications
LPB Inc.
Leader Broadcast Systems
McMartin Industries
Modular Audio Products
Moseley Associates
NTP Elektronik A/S
Orange County
Orban Associates
Processing Plus
Salt Electronics
Siemens Österreich AG
Sontec Electronics
Spectra Sonics
Thomson-CSF Broadcast
Valley People

PEAK LIMITING, FM

ADM Technology
Applied Technology
Audio & Design Recording
ATI-Audio Technologies Inc.
Bogen Division/Lear Siegler
Broadcast Electronics
Cetec Broadcast Group
Circuit Research Labs
Continental Electronics Mfg.
Dorrough Electronics
Dyma Engineering
EMT Franz
Elcom Bauer
Gregg Laboratories
IGM Communications
Inovonics
Kahn Communications
LPB Inc.
McMartin Industries
Modular Audio Products
Modulation Sciences
Moseley Associates
NTP Elektronik A/S
Orange County
Orban Associates
Processing Plus

Pye TVT
Rohde & Schwarz
Salt Electronics
Siemens AG Österreich
Sontec Electronics
Spectra Sonics
Thomson-CSF Broadcast
Tweed Audio
Valley People

POWER AUDIO AMP

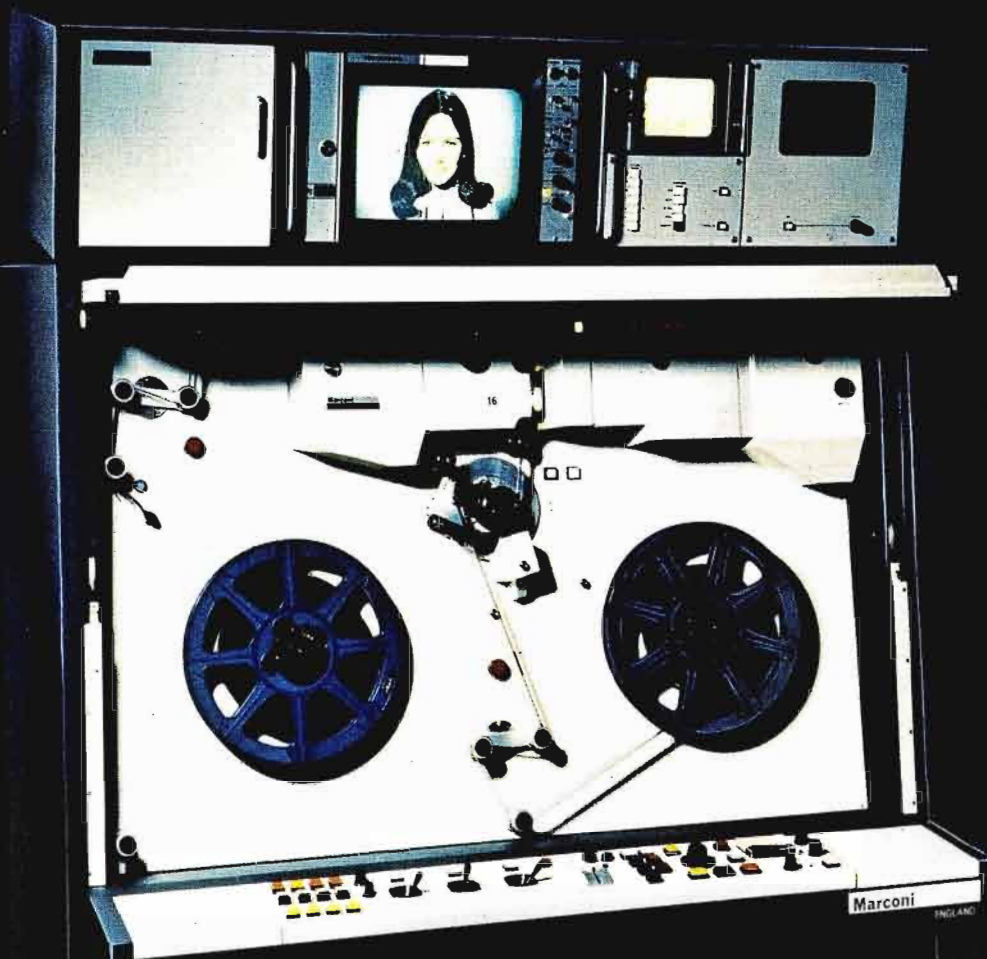
AEG-Telefunken
(Bayly Engineering)
ATI-Audio Technologies Inc.
Altec Corp.
American Data
Argos Products
Audionics of Oregon
Audsar
Audi Ltd.
AVL Digital
BGW Systems, Inc.
Bell Audio Systems, Inc.
Bogen Division / Lear
Siegler, Inc.
Broadcast Electronics
David H. Brothers, Co.
Bryston
Central Dynamics Ltd.
Cetec Broadcast Group
Cinetronics
Conex Electro Systems
Crown International
D-B Electronics
Philip Drake Electronics
Dukane Corp.
Dyma Engineering
Dynair Electronics, Inc.
EV/Tapco
Electro-Voice
Elektroimpex
Eumig USA
Fisher Berkeley
Fostex
Hammond Industries
Heath Company
Howe Audio
IGM Communications
Integrated Sound Systems
Ivie Electronics
Johnson Electronics
Kimian Sales, Inc.
Kintek
Leader Broadcast Systems
Logitek
McCurdy Radio Industries
McMartin Industries
Micro-Trak
Modular Audio Products
Multidyne Electronics
Opamp Labs
Panasonic, Professional Audio
Division
ProTech Audio
Pye TVT
QSC Audio Products
RTS Systems
Radio Systems
Ramko Research
Roh Corporation
Rohde & Schwarz
Russco
Sait Electronics
Scientific Systems
Sharp Electronics
Shure Brothers
Siemens AG Österreich
Spectra Sonics
John M. Sullivan Assoc.
Stanton Magnetics
Studer International AG
Studer ReVox America
TOA Electronics
Tape-Athon/Cavox Stereo
Productions
Teac Corp. of America
Telex Comm., Inc.
Ultra Audio Pixtec
VIF International

PROCESSING AMP

ATI Audio Technologies Inc.
Aphex Systems
Applied Technology
Audio & Design Recording
Audionics of Oregon

Continued on page 50

Marconi deserves an Oscar



Smooth, silent, reliable.

The New Marconi Line Array Telecine B3410

For a remarkable contribution to film in TV, Marconi's new Line Array Telecine B3410 fully deserves its great reputation.

The unique combination of full digital processing with micro-processor control and CCD sensors means exceptional picture quality, shorter set-up times, rapid change of TV standards, long life and minimum maintenance. No tubes, no replacements!

Also offering fast change of film gauge and full resolution cinemascope, this most outstanding newcomer is available for swift delivery at a highly competitive price.

For full details contact: Marconi Electronics Inc. (John White or Simon Frazer)

Tel: (201) 767-7250 or A.F. Associates Inc. (Lou Siracusano or Bill Ebell)

Tel: (201) 767-1000.



Marconi Electronics Inc./A.F. Associates Inc.

100 Stonehurst Court, Northvale, New Jersey 07647, U.S.A. Tel. 767-7250. Telex. 710-991-9752.

Circle (30) on Action Card

BGW Systems
Broadcast Electronics
Central Dynamics Ltd
Circuit Research Labs
Composit Video
dbx, Inc.
Delta Electronics
Dorrough Electronic
Gregg Laboratories
Harris, Broadcast Products
IGM Communications
Inovonics
Jerrold Division, General
Instrument Corp.
Kahn Communications
Leader Broadcast Systems
McCurdy Radio Industries
McMartin Industries
Modular Audio Products
Moseley Associates
Opamp Labs
Orange County
Orban Associates
Processing Plus
ProTech Audio
RTS Systems
Siemens AG Osterreich
Spectra Sonics
Straight Wire Audio
Telex Communications, Inc.
Ward-Beck Systems

REMOTE AUDIO AMP

Arrakis Systems
ATI Audio Technologies
Incorporated
AVL Digital Ltd.
BGW Systems, Inc.
BSM Systems
Bogen Division/Lear Siegler
Don Britton Ent.
Broadcast Electronics
Dyma Engineering(82)
Elektroimpex
HEDCO
Hallikainen & Friends
IGM Communications(82)
International Nuclear Corp.
Kahn Communications
Leader Broadcast Systems
Logitek
McCurdy Radio Industries
McMartin Industries
Micro-Trak
Modular Audio Products
Moseley Associates, Inc.
NTP Electronik A/S(82)
Opamp Labs
Ramko Research(82)
Richard Sound Design
Rohde & Schwarz
Scantex Laboratories
Sescom
Siemens AG Osterreich
Sound Systems
Spectra Sonics
Straight Wire Audio
T M Systems
Transist-O-Sound
Tweed Audio
Ultra Audio Pixtec
Vital Industries

AMPLIFIERS, VIDEO

DISTRIBUTION AMP

AVA Electronics
AVL Digital Ltd.
American Data
Amplica, Inc.
Apert-Herzog
BSM Systems
Blonder-Tongue Labs
Robert Bosch GmbH
Don Britton Ent.
Broadcast Video Systems
David H. Brothers Co.
C-Cor Electronics
Canter-Redman Technologies
Corp.
Channelmatic
Comad Communications
Composite Video
Comprehensive Video Supply
Conifer Corp.
Crow of Reading Ltd.

Datek
Delta Systems
DI-tech
Dyma Engineering
Dynair Electronics
Dynamic Technology Ltd.
Elektroimpex
Fernseh, Inc.
Finney
Fung Eng. Labs Inc.
GBC Closed-Circuit Corp.
Graham-Patten Systems
Grass Valley Group
HEDCO/Hughes Electronic
Devices Corporation
Ikegami Electronics
Image Video Limited
Industrial Sciences, Inc. (ISI)
International Nuclear Corp.
Javelin Electronics
Jerrold Div., Gen. Instrument Corp.
Lang Video Systems
Leitch Video
Lenco
Link Electronics
Magnavox CATV Systems
Marconi Electronics Inc.
Merrill Cable Equipment
Multidyne Electronics
NEC America
Opamp Labs
Panasonic
Phase Video Inc.
Pro-Bel
QSI Systems
RMS Electronics Inc.
Rohde & Schwarz
Russco
Sandar Electronics A/S
Scantex Laboratories, Inc.
Scientific-Atlanta
Shintron
Sierra Audio
Sigma Electronics
John M. Sullivan Associates
Telemet
Television Equipment
Associates
Texscan
Thomson-CSF
Vamco Engineering
Vidair Elec. Mfg.
Video Aids of Colorado
Video Masters
Vidicraft
Viscount Industries
Vital Industries

ISOLATION AMP

Telemet

PULSE AMP

AVL Digital
American Data
Amplica
Broadcast Video Systems
C-Cor Electronics
Central Dynamics Ltd.
Crow of Reading Ltd.
Datek
Delta Systems
Dyma Engineering
Dynair Electronics
Dynamic Technology Ltd.
Elektroimpex
Fernseh, Inc.
GBC Closed-Circuit TV
Graham-Patten Systems
Grass Valley Group
HEDCO/Hughes Electronic
Devices Corp.
Harris Corp., Broadcast Products
Industrial Sciences Inc. (ISI)
International Nuclear Corp.
Javelin Electronics
Jerrold Div., Gen. Instrument Corp.
Lang Video Systems
Leitch Video
Lenco
Link Electronics
Multidyne Electronics
NEC America
Opamp Labs
Panasonic Industrial
Phase Video Inc.
Pro-Bel
QSI Systems

Rohde & Schwarz
Sandar Electronics A/S
Shintron
Sigma Electronics
John M. Sullivan Associates
Telemet
Television Equipment Assoc.
Thomson-CSF
Video Aids of Colorado

PULSE DELAY

American Data
Robert Bosch GmbH
Broadcast Video Systems
Central Dynamics Ltd.
Comad Communications
Crow of Reading Ltd.
Delta Systems
DI-tech, Inc.
Dyma Engineering
Dynair Electronics
Fernseh, Inc.
Graham-Patten Systems
Grass Valley Group
Industrial Sciences, Inc. (ISI)
International Nuclear Corp.
Jerrold Division, General
Instrument Corp.
Koss Company
Leitch Video
Lenco
Link Electronics
Pro-Bel
Sandar Electronics A/S
Sigma Electronics
Telemet
Television Equipment
Associates
Videomedia

PROC AMP

Adwar Video
Automation Techniques
Broadcast Video Systems
Canter-Redman Technologies
Corporation
Central Dynamics Ltd.
Composite Video
Michael Cox
Crow of Reading Ltd.
Delta Systems
Dyma Engineering
Fernseh, Inc.
Grass Valley Group
Industrial Sciences, Inc. (ISI)
Jerrold Division, General
Instrument Corp.
Leitch Video
Lenco
NEC America, Broadcast
Equipment
Processing Plus
Rohde & Schwarz
Siegel-Electronics
Sigma Electronics
John M. Sullivan Associates
Tektronix
Vidicraft
Videomedia

STABILIZING AMP

Don Britton Ent.
Composite Video
Michael Cox
Crow of Reading Ltd.
Delta Systems
Dyma Engineering
International Nuclear Corp.
Javelin Electronics
Jerrold Division, General
Instrument Corp.
Leitch Video
Telemet
Thomson-CSF

SWEEP AMP

Crow of Reading Ltd.
Jerrold Division, General
Instrument Corp.
Lenco
Rohde & Schwarz

VIDEO AMP

AVA Electronics
AVL Digital Ltd.
Advanced Analog Systems
Adwar Video

American Data
Amplica
Robert Bosch GmbH
David H. Brothers, Co.
Michael Cox
Comad Communications
Crow of Reading Ltd.
Datek
Datum
Delta Systems
Dyma Engineering
Dynair Electronics
Dynamic Technology Ltd.
Fernseh, Inc.
GBC Closed-Circuit TV
Graham-Patten Systems
Grass Valley Group
HEDCO
Ikegami Electronics
Industrial Sciences, Inc.
International Nuclear Corp.
Javelin Electronics
Jerrold Div., Gen. Instrument Corp.
Lang Video Systems
Leitch Video
Lenco
Link Electronics
Magnavox CATV Systems, Inc.
Marconi Electronics, Inc.
Multidyne Electronics
Opamp Labs
Panasonic
Phase Video Inc.
Pro-Bel Ltd.
Rohde & Schwarz
Siegel-Electronics
Thomson-CSF
Videcom Engineering
Video Masters
Videomedia

ZERO STUDIO DELAY AMP

C-M-C Technology Corp.
Orange County
Television Equipment
Associates
Videomedia

AMPLIFIER, RF

PEAK LIMITING

ADM Technology
ATI Audio Technology, Inc.
Amek TAC
Amplica
Aphex Systems
Applied Technology
Audio & Design Recording
Bogen Division/Lear Siegler
Broadcast Audio Corp.
Broadcast Electronics
Circuit Research Labs
Continental Electronics Mfg.
Dorrough Electronics
Dyma Engineering
Elcom Bauer
Elektroimpex
Gregg Laboratories
Harris Corporation, Broadcast
Products Division
Harrison Systems
IGM Communications
Inovonics
Javelin Electronics
Jerrold Division, General
Instrument Corp.
Kahn Communications
Leader Broadcast Systems
McMartin Industries
Microwave Power Devices
Modular Audio Products
Modulation Sciences
Moseley Associates
Georg Neumann GwBH
Opamp Labs
Orange County
Orban Associates
Quad-Eight Electronics
Spectra Sonics
TM Systems
Thomson-CSF Broadcast
VIF International
Valley People

Continued on page 52

GAIN VIDEOCONFIDENCE!TM

NEW JVC CR-4700U

PORTABLE 3/4" U TAPEHANDLER



Here's something really new in a portable 3/4" U videocassette recorder: JVC's exclusive VideoConfidence™ head. Now you can be absolutely confident that you're getting on tape what you see in the camera monitor...because you review as you record!

The picture you see in the monitor is fed to it from the tape a split second

after recording. What you get is what you see.

There's no other portable 3/4" U VCR with this feature.

But that's not all the CR-4700U offers. It has SMPTE time code capability to speed post-production editing. Head switching is in the vertical interval to eliminate undesirable switching points. There's microprocessor-based logic for full remote control. You can do assemble editing in the field with the automatic editing function.

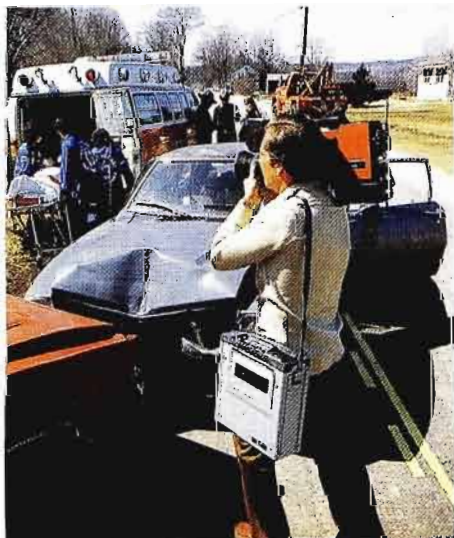
And how about a video S/N ratio of better than 46dB! No other portable 3/4" U VCR has so many valuable features.

See it NOW at your JVC dealer. For more information write

JVC COMPANY OF AMERICA
Prof. Video Div., Dept. BCD 6/82
41 Slater Drive, Elmwood Park, NJ 07407
JVC CANADA INC., Scarborough, Ont.

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800-821-7700, Ext. 7005.
(In Missouri: 800-892-7655, Ext. 7005.)

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JVC[®]

JVC COMPANY OF AMERICA
Professional Video Division

Circle (31) on Action Card



TV reception simulated

POWER AMPLIFIER

ATI Audio Technologies Inc.
Altec Corp.
Ampica
Arrakis Systems
Audisat
Ayburn Electronics
BGW Systems
Bayly Engineering Ltd.
Bell Audio Systems
Bogen Division/Lear Siegler
Broadcast Electronics
Broadcast Technology
David H. Brothers, Co.
Bryston Mfg. Ltd.
C-Cor Electronics
California Instrument
Crown International
Crowder Communications
Dukane Corp.
Dynair Electronics
Dyma Engineering
Edcor
Elektrolmex
Elicon
Enertec Schlumberger
EV/Tapco
Hammond Industries
Harris Corporation, Broadcast Products Division
Howe-Yin Research Corp.
IGM Communications
Integrated Sound
Ivle Electronics
Jerrold Division, General Instrument Corp.
Johnson Electronics, Inc.
Kimian Sales, Inc.
Leader Broadcast Systems
Logitek
McCurdy Radio Industries
McMartin Industries
Magnavox CATV Systems, Inc.
Merrill Cable Equipment Corp.
Micro-Trak
Microwave Power Devices
Modular Audio Products
Moseley Associates, Inc.
Opamp Labs
Panasonic, Professional Audio Division
Paso Sound Products
Hans Pillich
RF Technology
Ramko Research
Rockwell International
Roh Corporation
Scientific Radio Systems, Inc.
Sescom, Inc.
Sharp Electronics
Sierra Audio
Spectra Sonics
Studer International AG
Studer ReVox America
John M. Sullivan Assoc., Inc.
TOA Electronics
Tape-Athon Corp.
Tascam
Television Technology
Tepco
Triple Crown Electronics
Ultra Audio Pixtec
VIF International
Varian Associates
Varian, MCSD
Versa - Count
Vidaire Electronics
Wilkinson Electronics

ANIMATION SYSTEMS & SERVICES

American Image Productions
Ampex
Animation Video (Division of Convergence Corporation)
Aurora Imaging Systems
Autographics, Inc.
Cinetron Computer Systems
Computer Graphics Lab
Computer Image
Dubner Computer Systems
Elicon

English Electric Valve Fernseh
The Graphic Express
Grove Video
Ikegami Electronics
Interand
Jatex Inc.
Lyon Lamb
MCI/Quantel
MPB Technologies
Precision/Echo Science
Spectra Computer Systems
Standard Communications
Starex, Inc.
E.J. Stewart
Texscan Corp.
Via Video
Weathercaster
Frank Woolley & Company

ANTENNA ACCESSORIES & SERVICES

ALIGNMENT SYSTEMS, MICROWAVE

Antennas for Communications Inc.
Atlas Tower Corp.
Compucon
GC Electronics
Gabriel Electronics
Grant Tower
Harris Corp., Broadcast Products
ITE Innovative TV Equipment
Innovative Television
Jenel Consulting Engineers
LeBlanc & Royle
Communications Towers
M/A-COM Video Systems
Micro Communications
Moseley Associates
Fred Nudd Company
Nurad
Swager Tower Corporation
TBC Pye Ltd.
Tayburn Electronics
UNR-Rohn
Utility Tower
V & B Tower Construction

BASE INSULATOR

Continental Electronics Mfg.
Daburn Electronics & Cable
Grant Tower
LeBlanc & Royle Comm. Towers
Fred A. Nudd Corporation
Racal-Decca Canada, Insulators Division
UNR-Rohn
Utility Tower
World Tower Company

BALUNS

Barker & Williamson Inc.
Blonder-Tongue Laboratories
Electro Impulse
The Finney Company
Marshall Electronics
North Hills Electronics
RMS Electronics Inc.
Rohde & Schwarz
Scala Electronic Corporation
Shively Laboratories
Sitco Antennas
Thomson-CSF
Vidaire Elec. Mfg.

CURRENT CONTROLLERS

Delta Electronics

CURRENT METER

Delta Electronics

DIPLEXER

Blonder-Tongue Laboratories
Cetec Antennas
Comark Communications
Continental Electronics Mfg.
CSP Inc.
Cosmin Electronics
Dielectric Communications
Elcom Specialty Products
GTE Products Corp.
Harris Corporation, Broadcast Products Division

McMartin Industries
Micro Communications
Moseley Associates
Mu-Del Electronics
NEC America
Nurad
Phelps Dodge Communications Company
Rohde & Schwarz
Shively Laboratories
Swintek Enterprises, Inc.
Technology for Communications International
Tennaplex Systems Ltd.
Thomson-CSF
Townsend Associates
Via Microwave
Varian Associates, MCSD
Varian, MCSD

DUMMY LOADS

AEG-Telefunken (Bayly Engineering)
AVA Electronics
Antenna Technology
Barker & Williamson
Bird Electronic
CSP Inc.
Coaxial Dynamics
Comark Communications
Continental Electronics Mfg.
Dielectric Communications
Dyma Engineering
Elcom Bauer
Elcom Specialty Products
Electro Impulse, Inc.
GC Electronics
Geleco Electronics Ltd.
Harris Corporation, Broadcast Products Division
McMartin Industries
Marconi Electronics, Inc.
Micro Communications
Moseley Associates
Narda Microwave Corp.
Northland Communications
Phelps Dodge Communications
Rex Rheostat & Company
Rockwell International
Rohde & Schwarz
Shively Laboratories
Thomson-CSF
Varian Associates, MCSD
Varian, MCSD
Vidaire Elec. Mfg.
Wilkinson Electronics

EARTH TERMINAL POSITIONER

Andrew Corp.
Antennas for Communications Inc.
Don Britton Ent.
Comtech Antenna Corp.
Elicon
Harris, Broadcast Products
Lang Video Systems
Microdyne Corp.
Scientific-Atlanta

GUY STRAIN INSULATOR

Racal-Decca Canada

HEATER CONTROLS

McMartin Industries
Fred Nudd Corporation
Thomson-CSF
Wilkinson Electronics

ICE WARNING SYSTEM

Bird Electronic Corp.
Harris, Broadcast Products
McMartin Industries
Thomson-CSF
Shively Laboratories

INSTALLATION SERVICES

Abroyd Construction
Andrew Corporation
Antennas for Communications
CSP Inc.
Comark Communications
Dyma Engineering
GTE Products Corp.
Gabriel Electronics Inc.
Grant Tower
Harris Corp., Broadcast Products
Kline Iron and Steel Co.
LeBlanc & Royle Comm. Towers

McMartin Industries
Microdyne Corp.
Multiphase Consulting
Fred A. Nudd Corporation
Nurad
Potomac Marine & Aviation
RCA Service Company
Radiotechniques
Rohde & Schwarz
SWR
Soli Inc.
Swager Tower Corporation
TBC Pye Ltd.
Tennaplex Systems Ltd.
UNR-Rohn
Utility Tower

PHASING/BRANCHING SYSTEM

CSP Inc.

RADOMES

AEL (American Electronic Laboratories)
Andrew Corporation
Anixter-Mark
Antenna Technology
Cablewave Systems
Cetec Antennas
Continental Electronics Mfg.
Elcom Specialty Products
Gabriel Electronics Inc.
Grant Tower
Harris, Broadcast Products
LeBlanc & Royle Comm. Towers
McMartin Industries
Micro Communications
Nurad
Phelps Dodge Company
Shively Laboratories
Thomson-CSF
Wilkinson Electronics

REMOTE INDICATORS

Atlas Sound
Coaxial Dynamics
Delta Electronics
Harris Corp., Broadcast Products
McMartin Industries
Nurad
Potomac Marine & Aviation
Shively Labs
Thomson-CSF
Video Aids of Colorado
Wilkinson Electronics

SAMPLING SYSTEMS

CSP Inc.
Continental Electronics Mfg.
Delta Electronics
Elcom Specialty Products
Geleco Electronics Ltd.
Harris Corp., Broadcast Products
McMartin Industries

Static Drain Resistor

Racal-Decca Canada

TELESCOPING MAST

Allen Osborne Associates

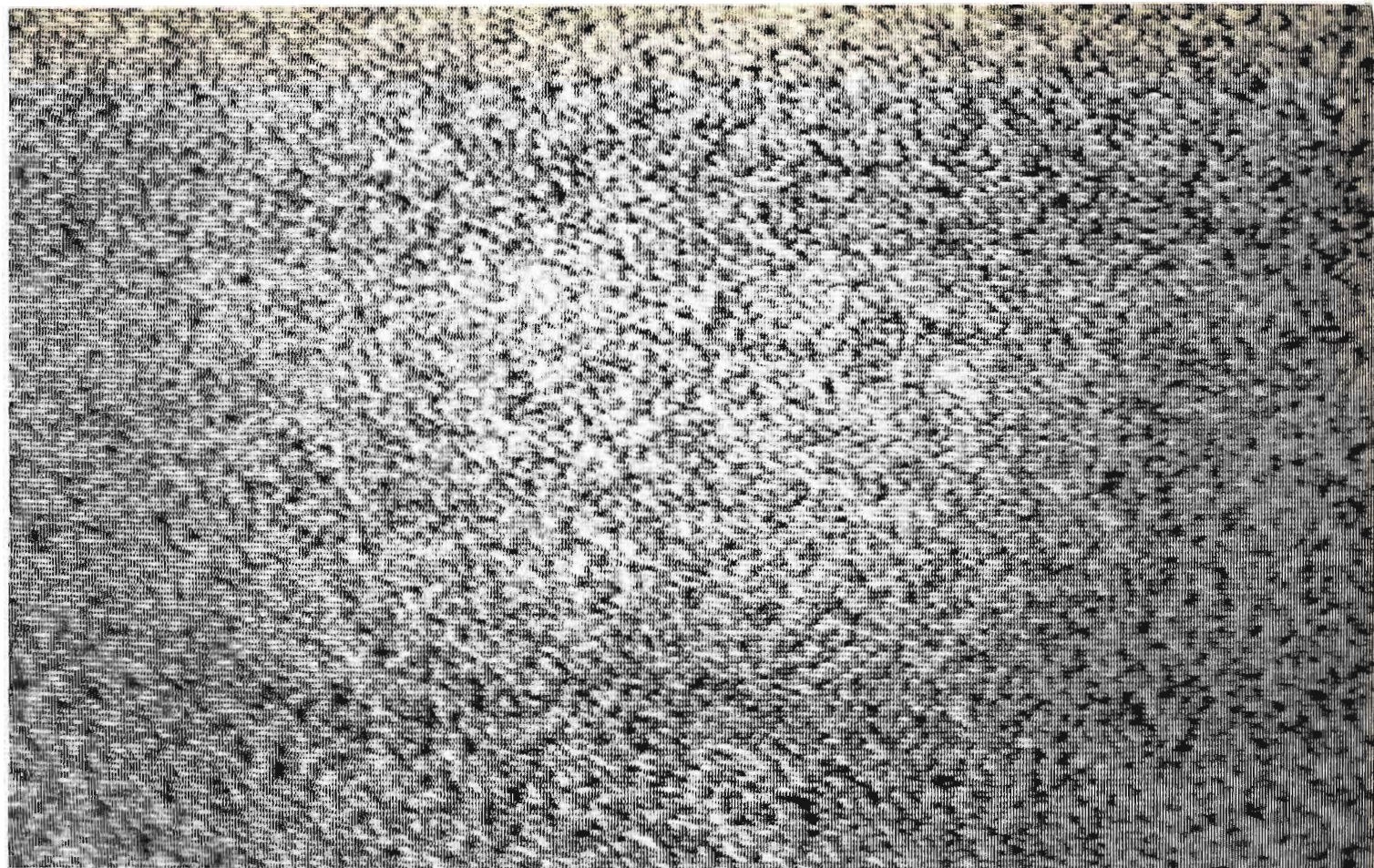
TRANSFER SWITCH

Antenna Technology
Bird Electronic
Comark Communications
CSP Inc.
Delta Electronics
Dielectric Communications
Geleco Electronics Ltd.
ITT Jennings
McMartin Industries
Marshall Electronics
Micro Communications
Multronics, Inc.
SWR
Shively Laboratories
Soli Inc.
Technology for Communications International
Tennaplex Systems Ltd.
Transco Products
Varion MCSD
Video Aids of Colorado

TUNING UNITS

CSP Inc.
Continental Electronics Mfg.

Continued on page 54



The next time your air monitor goes dead, tell your audience about your bargain low-power television equipment

The high cost of low price equipment

No broadcast equipment is a bargain when it's off the air. So EMCEE® Broadcast Products builds its translators, LPTV transmitters and other hardware without cutting corners or costs. Frankly, that often means prices that appear higher. But it also means the proven higher reliability that EMCEE hardware has provided since 1960.

Oldies but goodies

This higher reliability is no blue-sky claim, either. Many EMCEE HRV-1 1 watt translators are still doing a full broadcast day's work eighteen years after installation. EMCEE HTU-100 100 watt translators are still going strong after seventeen years on site. And the list goes on. Because through three generations of low-power television equipment, value and reliability have always come before cost.

Lasting value

This value and reliability comes from higher rated components that loaf along at operating values. From human engineered front panel metering for immediate status of operating para-

meters. And from innovations such as the industry's first use of pre-correction to improve linearity and extend final tube life. And the industry's only remote interrogator. A complete translator/transmitter status monitor that reduces the number of trips and hours necessary to keep isolated installations operating efficiently.

Valuable support

But technology alone isn't the source of EMCEE reliability. It comes from the Applications and Field Engineering Departments that supply design, installation and total turnkey services without additional charges. It comes from the expertise of our tower crew. And it comes from our special inventory of emergency hardware and a 24-hour number that can help you solve small problems before they become bigger ones.

A fourth generation of reliability

The next generation of EMCEE low-power television equipment is now in the breadboard stage. Like the three previous generations, it won't be the least expensive hardware available.

Which leaves you with two choices. Pay the price of reliability when you buy. Or when your air monitor goes dead.

*It's not just how it works.
But how long it works.*

EMCEE
BROADCAST PRODUCTS

a division of
**ELECTRONICS, MISSILES
& COMMUNICATIONS, INC.**

P.O. Box 68
White Haven, PA 18661
Call toll free: 800-233-6193
(In PA: 717-443-9575)
TWX: 510-655-7088
Ans: EMCEE WHHV

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Circle (32) on Action Card

Delta Electronics
Elcom Bauer
Elcom Specialty Products
Geleco Electronics Ltd.
Harris Corporation, Broadcast
Products Division
McMartin Industries
Micro Communications
SWR
Scientific Radio Systems
TBC Pye Ltd.
Tennaplex Systems Ltd.
Thomson-CSF

VSWR UNITS

Bird Electronic
Coaxial Dynamics
Comark Communications
Continental Electronics Mfg.
Dielectric Communications
Dyma Engineering
Elcom Specialty Products
Electro Impulse Laboratory
Harris Corporation, Broadcast
Products Division
McMartin Industries
Micro Communications
Northland Communication
Rohde & Schwarz
SWR
Scientific Radio Systems
Shively Laboratories
TBC Pye Ltd.
Tennaplex Systems Ltd.
Thomson-CSF
Vidaire Electronics

WAVEGUIDES

AEL (American Electronic
Laboratories)
Andrew Corporation
Anixter-Mark
Antenna Technology
Antennas for Communications Inc.
Cablewave Systems
Comark Communications
Dielectric Communications
Gabriel Electronics Inc.
Grant Tower
LeBlanc & Royle
Communications, Inc.
Micro Communications
Narda Microwave Corp.
Nurad
Prodelin
SWR
UNR-Rohn

ANTENNA MASTS, ENG

Abroyd Construction
Copperweld Blometallics Group
Cortland Cable Co.
ENG Corp.
Harris Corporation
Kindwall Corp.
Kline Iron & Steel Co.
LeBlanc & Royle Communications
Allen Osborne Assoc.
Swager Tower Corp.
TMD Div. - Will Burt
Tennaplex Systems Ltd.(82)
Wolf Coach Inc.

ANTENNAS, RECEIVING

EARTH TERMINAL DISHES

AEG-Telefunken
Andrew Corporation
Anixter-Mark
Antenna Technology
Antennas for Communications Inc.
Blonder-Tongue Laboratories
California Microwave
Comtech Antenna Corp.
Comtech Data
Conifer
Crowder Communications
Dyma Engineering
Fort Worth Tower
Gabriel Electronics
Gardner Communications
Grant Tower

Harris Corporation,
Broadcast Products
Hughes Aircraft Co.,
Microwave Comm. Products
Kathrein-Werke KG
Lang Video Systems
Lindsay Specialty Products
Marcom Communication Systems
Microdyne Corporation
Microwave Associates
Modulation Associates
Moseley Associates
NEC America, Broadcast
Equipment
Prodelin
SatCom Technologies
Scientific-Atlanta
SED Systems
Satcom, Inc.
Television Technology
TerraCom
Thomson-CSF
United States Tower

FM ANTENNA

AEG-Telefunken
Anderson Scientific
Anixter-Mark
Blonder-Tongue Labs
Catal
Comark Communications
Elcom Specialty Products
The Finney Company
G.C. Electronics
Gorman Redlich Mfg. Co.
Grant Tower
Harris Corporation, Broadcast
Products Division
Johnson Electronics
Kathrein-Werke KG
LeBlanc & Royle
Communications Towers
Lindsay Specialty Products
McMartin Industries
Micro Communications
Phelps Dodge
Communications
Potomac Instruments
RMS Electronics
Rohde & Schwarz
Scala Electronic Corporation
Scientific-Atlanta
Sitco Antennas
Television Technology
Tennaplex Systems Ltd.
Tepco
Thomson-CSF
Vidaire Elect. Mfg.
Wilkinson Electronics
World Tower

MICROWAVE

AEG-Telefunken
Andrew Corporation
Anixter-Mark
Antenna Technology
Antennas for Communications
Bogner Broadcast Equipment
Don Britton Enterprises
Cablewave Systems
Conifer
Farlinon
GTE Products Corp.
Gabriel Electronics
Harris Corporation, Broadcast
Products Division
Ikegami Electronics
Lang Video Systems
LeBlanc & Royle
Communications, Inc.
Micro Communications
Microwave Associates
Moseley Associates
Multitenna Corp. of America
Narda Microwave Corp.
NEC America
Nurad
Prodelin
RF Technology
Tayburn
Tennaplex Systems, Ltd.
Terracom
Texscan
Wilkinson Electronics
World Tower

MF ANTENNA

AEG-Telefunken
Grant Tower
LeBlanc & Royle
Communications Towers
G.E. McKay Co.
McKay Dymek Company
Thomson-CSF

REMOTE PICKUP

AEG-Telefunken
Anixter Mark
Antenna Technology
Belar
Gorman-Redlich
Grant Tower
Harris Corporation, Broadcast
Products Division
McMartin Industries
M/A-COM Video Systems
Martl
Moseley Associates
Motorola Communications
& Electronics
NEC America Inc.
Nurad
Phelps Dodge Communications
Company
RF Technology
Scala Electronic Corporation
Tayburn Electronics
Wilkinson Electronics

STL ANTENNA

AEG-Telefunken
Andrew Corporation
Anixter Mark
Cablewave Systems
Elcom Specialty Products
Gabriel Electronics
Harris Corporation, Broadcast
Products Division
Lindsay Specialty Products Ltd.
McMartin Industries
M/A-COM Video Systems
Micro Control Associates
Moseley Associates
NEC America Inc.
Nurad
Phelps Dodge Communications
RF Technology
Rockwell International
Scala Electronic Corporation
Tayburn Electronics
Wilkinson Electronics
World Tower

UHF ANTENNA

AEG-Telefunken
Andrew Corp.
Anixter-Mark
Blonder-Tongue Labs
Bogner Broadcast
Comark Communications
Conifer
Crowder Communications
EMCEE Broadcast Products
The Finney Company
G.C. Electronics
Gorman-Redlich
Kathrein-Werke KG
Lindsay Specialty Products
Micro Communications
Phelps Dodge Communications
Prodelin
RMS Electronics
Rohde & Schwarz
Scala Electronic Corporation
Scientific-Atlanta, Phoenix Div.
Sitco Antennas
John M. Sullivan Assoc., Inc.
TBC Pye Ltd.
Television Technology
Tennaplex Systems Ltd.
Thomson-CSF
Velec Sefat
Vidaire Electronics Mfg.

VHF ANTENNA

AEG-Telefunken
Barker & Williamson
Blonder-Tongue Labs
Bogner Broadcast
Conifer
Crowder Communications
EMCEE Broadcast Products
The Finney Company

G.C. Electronics
Gorman-Redlich
Grant Tower
Kathrein-Werke KG
Lindsay Specialty Products
Micro Communications
Phelps Dodge Communications
Potomac Instruments
RMS Electronics
Rohde & Schwarz
Scala Electronic Corporation
Scientific-Atlanta, Phoenix Div.
Sitco Antennas
John M. Sullivan Assoc., Inc.
Swintek Enterprises, Inc.
TBC Pye Ltd.
Television Technology
Tennaplex Systems Ltd.
Tepco
Thomson-CSF
Velec Sefat
Vidaire Electronics

ANTENNAS, TRANSMITTING

AM ANTENNAS

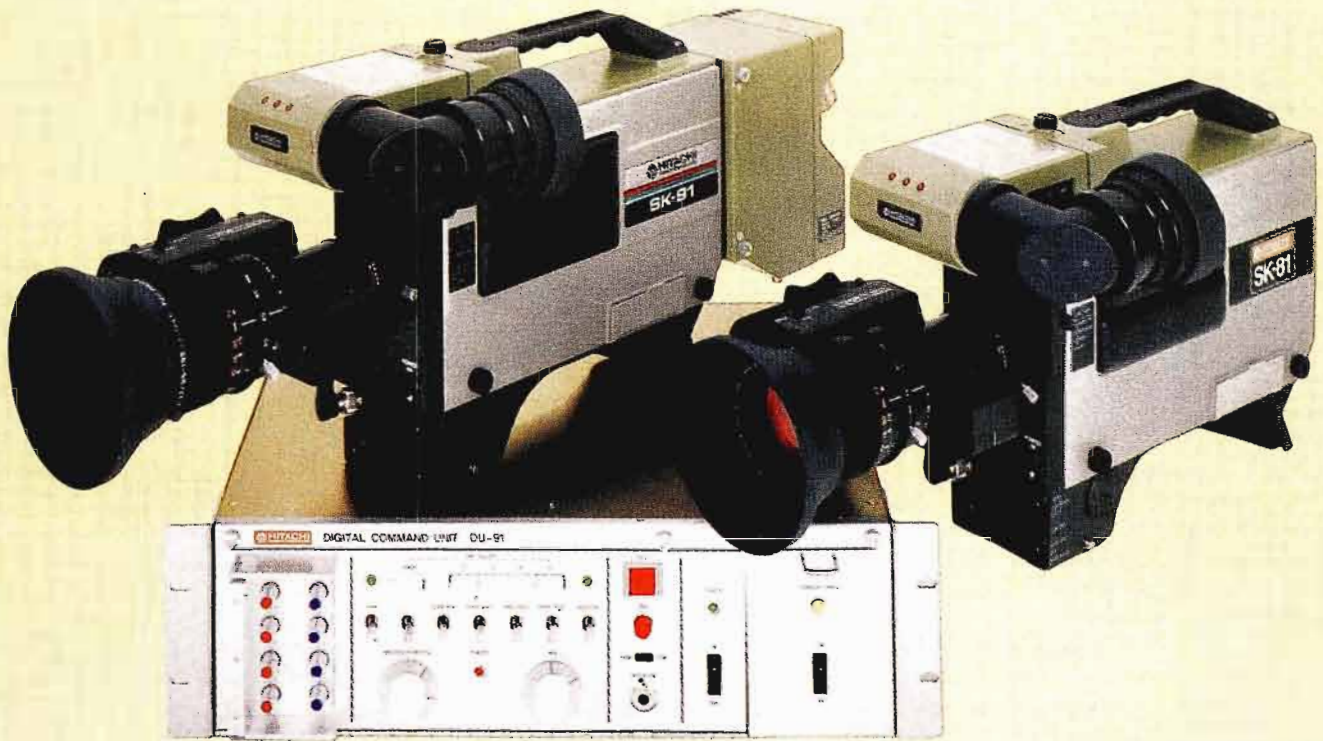
AEG-Telefunken
(Bayly Engineering)
Abroyd Construction
Allied Tower
Atlas Tower Cord
Barker & Williamson
Cetec Broadcast Group
Continental Electronics Mfg.
Cortland Cable Co.
Cosmin Electronics
Dyma Engineering
Elcom Specialty Products
Grant Tower
Harris Corporation, Broadcast
Products Division
Kathrein-Werke AG
Kline Iron & Steel Co.
LeBlanc & Royle
Communications, Inc.
McMartin Industries
Magnum Towers
Marconi Electronics, Inc.
Multiphase Consulting
Fred A. Nudd Corporation
Rockwell International
Stainless
Swager Tower Corporation
TBC Pye Ltd.
Technology for Communications
International
Thomson-CSF
UNR-Rohn
United States Tower
Utility Tower
V & B Tower
Wilkinson Electronics
World Tower Company

AM DIRECTIONAL SYSTEMS

AEG-Telefunken
(Bayly Engineering)
Allied Tower
Atlas Tower Corp.
CSP Inc.
Cetec Broadcast Group
Continental Electronics Mfg.
Cosmin Electronics
Delta Electronics
Dyma Engineering
Elcom Specialty Products
Grant Tower
Harris Corporation, Broadcast
Products Division
Harrison Systems
LeBlanc & Royle
Communications Towers
McMartin Industries
Multiphase Consulting
Swager Tower Corporation
TBC Pye Ltd.
Technology for Communications
International
Thomson-CSF
UNR-Rohn
V & B Tower
World Tower

Continued on page 56

**“I want a world-class camera
I can take a mile from the van,
and still get 57 dB S/N and
600-line resolution.”**



HITACHI HEARD YOU.

Then you're looking for broadcast-quality. Then you're looking for lightweight equipment you can carry unencumbered by anything but a lightweight triax cable.

Well, Hitachi heard you. Because now our Hitachi SK-91 and SK-81 can both be connected to our triax DU-91 Digital Command System by up to 6,000 feet of cable.

The SK-91 is an example of the lengths Hitachi will go to give you the camera your craft and courage demand. Though just 9.7 pounds, including its 1.5-inch viewfinder, this \$33,000 camera has been hailed as a bargain by perfectionists. And it's I.B.A. and C.B.C. accepted.

Its shock-mounted optical system—with Saticons® Plumicons® or Diode Guns®—gives you up to 57 dB S/N and 600-line resolution. All in an incredibly tough

magnesium alloy package.

It has an auto-iris closure. A +9/18 dB high-grain switch. Horizontal and vertical blanking widths adjustable over a wide range. An auto black balance control as well as an auto white balance control.

The SK-81 gives you just a shade less performance for \$22,000. The DU-91 at \$18,900 lets you get great pictures with either the SK-91 or SK-81 whether you're shooting at the low-light levels of a coal mine or going to the top of the world. Who from? Who else? Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797. (516) 921-7200. Offices also in Chicago, Los Angeles, Atlanta, Cincinnati, Dallas, Denver, Seattle and Washington, D.C.

Circle (33) on Action Card

CIRCULARLY POLARIZED FM

AEG-Telefunken
Bogner Broadcast Equipment
Broadcast Electronics, Inc.
Cetec Antennas
Comark Communications
Continental Electronics Mfg.
Dielectric Communications
Dyma Engineering
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
Kathrein Werke KG
McMartin Industries
Micro Communications
Phelps Dodge Communications
RCA Broadcast Systems
Rockwell International
Rohde & Schwarz
Shively Laboratories
Simplicity Tool Co.
Sitco Antennas
TBC Pye Ltd.
Tennaplex Systems Ltd.
Tepco
Thomson-CSF

CIRCULARLY POLARIZED TV

AEG-Telefunken
Andrew Corp.
Bogner Broadcast Equipment
Cetec Antennas
Harris Corporation, Broadcast Products Division
Kathrein Werke KG
Micro Communications
Nurad
RCA Broadcast Systems
SWR
Shively Laboratories
Sitco Antennas
TBC Pye Ltd.
Tennaplex Systems Ltd.
Thomson-CSF

EARTH TERMINAL DISHES

AEG-Telefunken
Andrew Corporation
Anixter-Mark
Antenna Technology
Antennas for Communications
Comtech Antenna Corp.
Crowder Communications
Gabriel Electronics
Gardiner Communications
Harris Corporation, Broadcast Products Division
Lang Video Systems
Microdyne Corp.
Microwave Associates
Moseley Associates
NEC America
Prodelin
SatCom Technologies
Standard Communications
Scientific-Atlanta
SED Systems
Thomson-CSF

MICROWAVE

AEG-Telefunken
Alford Mfg. Co.
Andrew Corporation
Anixter-Mark
Antenna Technology
Antennas for Communications Inc.
Bogner Broadcast Equipment
David H. Brothers, Co.
Cablewave Systems
Cetec Broadcast Group
Farinon Video/Harris Corp.
Gabriel Electronics
Harris Broadcast Microwave
Harris Corporation, Broadcast Products Division
Ikegami Electronics
LeBlanc & Royle
Communications Towers
Marcom Communication Systems
Micro Communications
Microdyne Corporation
Microwave Associates
Moseley Associates
Multitenna Corp. of America
NEC America
Narda Microwave Corp.
Nurad

Prodelin
RF Technology
Tayburn Electronics
Tennaplex Systems
TerraCom

MICROWAVE PORTABLE

AEG-Telefunken
Andrew Corp.
Anixter-Mark
Antenna Technology
ENG Helicopter Satellites Ltd.
Farinon Video/Harris Corp.
Harris Broadcast Microwave
Harris Corporation, Broadcast Products Division
Ikegami Electronics
M/A-COM Video Systems
Micro Communications Inc.
Moseley Associates
NEC America
Nurad
RF Technology
Tayburn Electronics
Tennaplex Systems Ltd.
TerraCom
Thomson-CSF

REMOTE FOR RADIO

AEG-Telefunken
Andrew Corp.
Anixter-Mark
Belar
Cetec Broadcast Group
Delta Electronics
Harris Corporation
McMartin Industries
Moseley Associates
Motorola
Rockwell International
Scala Electronic Corporation
Swager Tower Corporation
Swintek Enterprises
Wilkinson Electronics

STL

AEG-Telefunken
Andrew Corp.
Anixter Mark
Broadcast Electronics
Cablewave Systems
Cetec Broadcast Group
Continental Electronics Mfg.
Elcom Specialty Products
Gabriel Electronics
Grant Tower
Harris Broadcast Microwave
Harris Corporation, Broadcast Products Division
International Microwave Corp.
Lindsay Specialty Products Ltd.
McMartin Industries
M/A-COM Video Systems
Micro Control Associates
Moseley Associates
NEC America, Inc.
Nurad
Phelps Dodge Communications
RF Technology
Scala Electronic Corporation
Swager Tower Corporation
Tayburn Electronics
Tennaplex Systems Ltd.
Wilkinson Electronics
World Tower

TV UHF

AEG-Telefunken
AEL (American Electronic Laboratories)
Acrodyne
Alford Mfg. Co.
Andrew Corporation
Anixter-Mark
Bogner Broadcast Equipment
Cetec Antennas
Comark Communications
Crowder Communications
EMCEE Broadcast Products
The Finney Company
GTE Products Corp.
Harris Corporation, Broadcast Products Division
Kathrein-Werke AG
Larcam Communication Equipment
Lindsay Specialty Products
Marcom Communication Systems

Marconi
Micro Communications
Nurad
Phelps Dodge
Pye TVT
RCA Broadcast
Rohde & Schwarz
SWR
Scala Electronic
Scientific-Atlanta, Phoenix Div.
Shively Laboratories
Simplicity Tool
Sitco Antennas
TBC Pye Ltd.
Television Technology
Tennaplex Systems Ltd.
Thomson-CSF
Townsend Associates
Velec Sefat

TV VHF

AEG-Telefunken
AEL (American Electronic Laboratories)
Acrodyne
Alford Mfg. Co.
Anixter-Mark
Bogner Broadcast Equipment
Cetec Antennas
Comark Communications
Crowder Communications
EMCEE Broadcast Products
The Finney Company
GTE Products Corp.
Harris Corporation
Kathrein-Werke AG
Larcam Communications Inc.
Marcom Communication Systems
Marconi Electronics, Inc.
Micro Communications
Nady Systems
Nurad
Phelps Dodge
Prodelin
Pye TVT
RCA Broadcast
Rohde & Schwarz
SWR
Scala Electronic
Scientific-Atlanta, Phoenix Div.
Shively Laboratories
Simplicity Tools
Sitco Antennas
TBC Pye Ltd.
Television Technology
Tennaplex Systems Ltd.
Tepco
Thomson-CSF
Townsend Associates
Velec Sefat

ARCHITECTURAL/ACOUSTIC DESIGN & CONSTRUCTION

Jamieson and Associates
Frank Rees Associates

ATTENUATORS

AUDIO
ADM Technology
AEG-Telefunken
(Bayly Engineering)
Aphex Systems Ltd.
Audio Technology
Audionics
Audisar
Broadcast Audio Associates
Composite Video
Comprehensive Video Supply
Datatronix
Electro Controls
Electro Impulse
Electroline TV Equipment
Leader Instruments
Leader Broadcast Systems
McCurdy Radio Industries
NTP Electronik AIS
Georg Neumann GwBH
Orange County
Potomac Instruments
Potomac Marine & Aviation

ProTech Audio Corporation
Richard Sound Design
Roh Corporation
Sescom
Siemens AG Osterreich
Shalico
Shure Brothers
Spectra Sonics
Tech Labs
Tektronix
Television Specialist Inc.
Trompeter Electronics
Valley People
Waters Manufacturing

FIXED

AVA Electronics
Barker & Williamson
Bird Electronic
Electro Impulse
Electroline TV Equipment
The Finney Company
ITI Electronics, Inc.
Leader Broadcast Systems
Mu-Del Electronics
Narda Microwave Corp.
North Hills Electronics
RMS Electronics
Sescom, Inc.
Shalico
Spectra Sonics
TM Systems
Tech Labs
Tektronix
Television Specialist Inc.
Texscan Corp.
Trompeter Electronics
Whirlwind Music

IMPEDANCE MATCHING

AVL Digital
CSP Inc.
Electro Impulse, Inc.
Electroline TV Equipment
Geleco Electronics Ltd.
Leader Broadcast Systems
Marconi Instruments Ltd.
Micro Communications
Mu-Del Electronics
Narda Microwave Corp.
North Hills Electronics
Sescom
Shalico
Shure Brothers
Tech Labs
Tektronix
Texscan Corp.
VIZ Manufacturing
Valley People
Vidair Elec. Mfg.
Whirlwind Music

MICROWAVE

Electroline TV Equipment
Harris Corporation, Broadcast Products Division
Harris Corporation, PRD Electronics Div.
Marconi Instruments Ltd.
Moseley Associates
Narda Microwave Corp.
North Hills Electronics
Nurad
Television Specialist Inc.
Texscan Corp.
Wavetek Indiana

RADIO FREQUENCY (RF)

AVA Electronics
Bird Electronic
Compac
Development Corp.
Dielectric Communications
Electro Impulse, Inc.
Electroline TV Equipment
Harris Corporation - PRD Electronics, Div.
Jerrold Division, General Instrument Corp.
Magnavox CATV Systems, Inc.
Magnavox Cable Equipment
Marconi Instruments Ltd.
Merrill Cable Equipment Corp.
Moseley Associates
Mu-Del Electronics
Narda Microwave Corp.

Continued on page 58

Imagine The Features That Will Answer Your Present And Future Needs ... Then Call **Di-Tech**

Audio/video routing switchers come in many different shapes and sizes, offering a variety of features. Since your requirements change from year to year, shouldn't you select the one that fits today's budget AND can meet your present and future needs? Then try **Di-Tech**. We've got that small 4 x 1 matrix switcher and the 200 x 200 switchers. We've even got a selection of in-between sizes for audio only, video only or audio follow video with 1, 2 or 3 channels of audio per input.....

We also manufacture a complete line of **terminal equipment, video detectors, touch tone control systems, audio monitor amplifiers** and a **7 day computer controller**. Our audio, video and pulse distribution amplifiers feature looping inputs with 6 outputs and can be intermixed within the same mounting frame. The model # 101 frame is 1.75" high and mounts up to 3 modules; the model # 103 frame is 5.25" high and mounts up to 10 modules

Whatever your present or future needs are, call **Di-Tech** for the high quality, reliable, easy-to-operate answer.



di-tech

our **NEW**, bigger location:
48 JEF RYN BOULEVARD
DEER PARK, N.Y. 11729
TEL. # (516) 667-6300

North Hills Electronics
RHG Electronics
Rohde & Schwarz
Sadeco, Inc.
Tech Labs
Television Specialist Inc.
Texscan Corp.
Thomson-CSF
Trompeter Electronics
Triple Crown Electronics
Wavetek Indiana

VIDEO

AVA Electronics Corp.
AVL Digital
Aphex Systems
Comprehensive Video Supply
Electroline TV Equipment
Harris Corporation, PRD
Electronics
North Hills Electronics
Rohde & Schwarz
Shallco
Tech Labs
Tektronix
Television Specialist Inc.
Vidair Electronics Mfg. Corp.

AUTOMATED REMOTE CONTROLS

American Data
Audio Kinetics
Don Britton Ent.
CAT Systems
Channelmatic
Cox Data Services
Delta Electronics
Dynair Electronics
Dynamic Technology Ltd.
Hallikainen & Friends
Harris Corporation, Broadcast
Products Division
Image Video Limited
Key Video Ltd.
MIA-COM Video Systems
The Management
Moseley Associates
Potomac Instruments
ProTech Audio
Rank Cintel Ltd.
Recortec Inc.
Scientific-Atlanta
Teknekron Controls
Telcom Research
Thomson-CSF
Video Specialties
Video Tape Systems
Vital Industries

AUTOMATION CONTROLS & SYSTEMS

ATS SYSTEMS

Asaca/Shibasoku
Broadcast Electronics
Consolidated Electronics Ind.
Delta Electronics
Hallikainen and Friends
Harris Corporation, Broadcast
Products Division
McMartin Industries
Moseley Associates
Multiphase Consulting
Potomac Instruments
ProTech Audio
QEI Corp.
Sharepoint Systems
TFT Inc.

BUSINESS SYSTEMS & SERVICES

Automated Business Concepts
Automation Electronics, Inc.
BIAS / Data
BIC Computers
Bonneville Data Systems
Cetec Broadcast Group
Chase Media
Columbine Systems
Computer Business Systems
Computer Concepts

Computer Management Systems
Consolidated Electronic Ind.
Cox Data Services
Custom Business Systems, Inc.
Data Communications Corp.
Groton Computer
Harris Corporation, Broadcast
Products Division
IGM Communications
Jefferson Data Systems
Jenel Corp. Consulting Engineers
Kaman Sciences
The Management
Marketron
Matrix Information Systems
NEAS
Nidus Broadcast Systems
Printer Terminal Communications
Corp.
Research Technology Int'l.
Radio Computing Services
Solid State Logic
Station Business Systems

CART SYSTEM, RANDOM SELECT, AUDIO

Autogram
Automated Broadcast Controls
Broadcast Electronics
David H. Brothers, Co.
Central Dynamics Ltd.
Cetec Broadcast Group
Consolidated Electronic Industries
Deltamod
Harris Corporation, Broadcast
Products Division
IGM Communications
International Tapetronics
MacKenzie Laboratories
Microprobe Electronics Inc. (MEI)
Nidus Broadcast Systems
Sono-Mag
UMC Electronics
UREI
VIF International
Vital Industries

CART SYSTEM, RANDOM SELECT, VIDEO

Automatic Techniques
Robert Bosch GmbH
Central Dynamics
Fernseh Inc.
NEAS
RCA Broadcast
Recortec
UREI
Vital Industries

DATA PROCESSING

Automated Business Concepts
Automation Electronics, Inc.
BIAS / Data
BIC Computers
Bonneville Data Systems
Central Dynamics Ltd.
Cetec Broadcast Group
Chase Media, Inc.
Columbine Systems, Inc.
Computer Concepts
Computer Management Systems
Cox Data Services
Custom Business Systems, Inc.
Data Communications
Fernseh
Groton Computer, Inc.
Jefferson Data Systems
Kaman Sciences
McInnis-Skinner & Assoc.
The Management
Marcom Communication Systems
Matrix Information Systems
NEAS
Nidus Broadcast Systems
Radio Computing Services
Station Business Systems
TVNS
Telesource Communication
Services
Weatherscan International

LIGHTING

(See *Lighting Controls & Services*)
Berkey Colortran
Dynamic Technology Ltd.
Electronics Diversified, Inc.
Kliegl Bros.

Leedal
Matthews Studio Equipment
Panoak Lighting Systems
SSAC Inc.
Skirpan Lighting Control Corp.
Strand Century

LOGGING

American Data
Autogram Corp.
Automated Broadcast Controls
Broadcast Electronics
David H. Brothers Co.
Cat Systems
Central Dynamics Ltd.
Cetec Broadcast Group
Channelmatic
Chase Media, Inc.
Columbine Systems Inc.
Computer Management Systems
Computer Systems
Consolidated Electronic Ind.
Data Communications Corp.
Dynamic Technology Ltd.
Elektrolimpex
Hallikainen and Friends
Harris Corporation, Broadcast
Products Division
IGM Communications
Kudelski SA Switzerland
The Management
Marketron, Inc.
Matrix Information Systems
Moseley Associates
NEAS
Neal Ferrograph (USA) Inc.
Nidus Broadcast Systems
Potomac Instruments
QSI Systems
Sono-Mag
Station Business Systems
TFT
Telcom Research
Telex Communications
Vital Industries

MASTER CONTROL, CUSTOM

Image Video Ltd.

PROGRAM CONTROL, AUDIO

Amek TAC
American Data
Basys Inc.
Don Britton Enterprises
Broadcast Electronics
David H. Brothers, Co.
C-M-C Technology Corp.
Central Dynamics Ltd.
Century 21 Programming
Cetec Broadcast Group
Channelmatic
Consolidated Electronic Industries
Michael Cox
Crosspoint Latch
Data Communications Corp.
Deltamod
Di-tech
Elektrolimpex
Grass Valley
Harris Corporation, Broadcast
Products Division
Harrison Systems
IGM Communications
Image Video Limited
Kintek
McCurdy Radio Industries
The Management
Marcom Communication Systems
Microprobe Electronics
Modulation Associates
NEAS
Rupert Neve
Nidus Broadcast Systems
Orban Associates
Pro Tech Audio
Quad-Eight Electronics
Rivers Associates
Rohde & Schwarz
Siemens AG Osterreich
Sharepoint Systems
Solid-State Logic
Sono-Mag
Standard Telephone UND Radio
AG
Station Business Systems
VIF International
Video Specialties

Video Tape Systems
Vital Industries

PROGRAM CONTROL, VIDEO

American Data
AVL Digital Ltd.
BFE KG
Basys, Inc.
Robert Bosch GmbH
Don Britton Ent.
C-M-C Technology Corp.
Central Dynamics Ltd.
Channelmatic
Michael Cox
Crosspoint Latch
Data Communications Corp.
Di-tech
Dynamic Technology Ltd.
Grass Valley Group
Image Video Limited
Industrial Sciences Inc. (ISI)
Javelin Electronics
Marcom Communication Systems
Microtime
NEAS
Panasonic Video Systems
Panoak Lighting Systems
Rohde & Schwarz
Siemens AG Osterreich
Station Business Systems
Tech Electronics
Torpey Controls & Engineering
Video Aids of Colorado
Video Specialties
Video Tape Systems
Videomedia
Vital Industries

PROJECTOR / FILM CHAIN CONTROL

American Data
Central Dynamics Ltd.
Cox Data Services
Data Communications Corp.
Fernseh
Grass Valley
Kaitronics Corp.
NEAS
RCA Broadcast Systems
Rank Cintel
Vital Industries

REEL-TO-REEL CONTROLLER

American Data
Audio Kinetics
The BTX Corporation
Broadcast Electronics
C-M-C Technology Corp.
Central Dynamics Ltd.
Cetec Broadcast Group
Consolidated Electronic Industries
Cox Data Services
Data Communications Corp.
IGM Communications
Leader Broadcast Systems
The Management
Microprobe Electronics
NEAS
PWH Electronics Limited
ProTech Audio
Rivers Associates
Solid-State Logic
Sono-Mag
Studer ReVox America
John M. Sullivan Associates
Tape-Athon / Cavoxx Stereo Prod.
United Research Lab
VIF International
Vital Industries

BATTERIES & ACCESSORIES

BATTERY BELTS

Adwar Video
Alexander Mfg. Co.
Anton/Bauer
Calvert Electronics
Christie Electric
Cine 60
Cinema Products
Comprehensive Video Supply
Frezzolini Electronics
Kapco Communications

Continued on page 60

40 to 1

Canon PV40 x 13.5B IE: THE OLYMPIAN

Canon moves you a giant step forward with a 40X broadcast quality zoom lens. An incredible new lens that allows you to cover a stadium at wide angle or fill the frame with the quarterback's eyes.

Never before has a single lens provided this much flexibility and sensitivity, with remarkably little change in effective aperture throughout its entire 13.5mm-540mm* range. Built-in extenders let you go all the way to 1080mm and each lens is diascoped-equipped for modern microprocessor-



controlled cameras.

We call it The Olympian. Not only because it is ideally suited for sports coverage but also because of the dedication and team effort required of our optical and electronic engineers in making this lens a reality.

Enlarge a dollar bill forty times and it covers an area twenty feet long and eight feet wide. Now think about what you could do with the Canon PV 40 x 13.5B IE!

*1" cameras. Also available in 30mm plumbicon.



Canon®

Optics Division

Canon USA, Inc., Head Office: One Canon Plaza, Lake Success, N.Y. 11042 (516) 488-6700
Dallas Office: 11311 Stemmen Freeway, Suite 1, Dallas, Texas 75229 (214) 620-2641 Chicago Office: 140 Industrial Drive, Elmhurst, Ill. 60126 (312) 833-3070
West Coast Office: 123 Paularino Avenue East, Costa Mesa, Ca. 92626 (714) 979-6000
Canon Canada, Inc., 3245 American Drive, Mississauga, Ontario L4V1B8, Canada (416) 678-2730

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Circle (35) on Action Card

Nalpak Sales
One Pass Video
Optical & Textile
PAG Group
Panasonic
Panoak/Ba Lighting Systems
Perrott Engineering
Portable Energy Products
Strand Century
Swintek Enterprises, Inc.
Tascam
Videomedia
Yardney

BATTERY CHECKER

Perrott Engineering

BATTERY PACKS / ENG

Alexander Mfg. Co.
Anton / Bauer
Calvert Electronics
Christie Electric Corporation
Cine 60 Inc.
Cinema Products
Comprehensive Video Supply
Film / Video Equipment
Frezzolini
Gould, Inc.
Harris Corporation, Broadcast
Products Division
Ikegami Electronics
Kapco Communications
Microwave Associates
Multiplier Industries
Nalpak Sales
One Pass Video
Optical & Textile
PAG Group
Panasonic
Perrott Engineering Labs
Portable Energy Products
Sharp Electronics
Sony Corporation of America
U.S. JVC Corporation
Videomedia
Yardney Electric

BATTERY PACKS / LIGHTING

Adwar Video
Alexander Mfg. Co.
Anton / Bauer
Walter S. Brewer Co.
Calvert Electronics
Christie Electric Corporation
Cine 60 Inc.
Cinema Products
Comprehensive Video Supply
Film / Video Equipment
Frezzolini Electronics
Gould, Inc.
Harwood Mfg. Co.
Kapco Communications
LTM Corporation of America
Multiplier Industries Corp.
Nalpak Sales
Panoak/B-W Lighting Systems
One Pass Video
Optical & Textile
PAG Group
Panasonic
Panoak Lighting Systems
Perrott Engineering Labs
Portable Energy Products
Smith - Victor Sales Corp.
John M. Sullivan Associates
Teledyne Big Beam
Videomedia
Yardney

BATTERY CHARGERS

Alexander Manufacturing
Anton / Bauer
Beyer Dynamic
Brabury Electronics Ltd.
Calvert Electronics
Christie Electric Corporation
Cine 60 Inc.
Cinema Products
Cinetronics
Comprehensive Video Supply
Dynamote
Farinon Video/Harris Corp.
Film / Video Equipment
Frezzolini Electronics
G.C. Electronics
Gould Inc.
Harris Corporation, Broadcast
Products Division

Harwood Mfg., Co.
Ikegami Electronics
Kapco Communications
M/A-COM Video Systems
Multiplier Industries
Nalpak Labs
Panoak/B-W Lighting Systems
North Wind Power Co.
One Pass Video
Optical & Textile
PAG Group
Panasonic
Perrott Engineering Labs
Portable Energy Products
Sharp Electronics
Sony Corporation of America
John M. Sullivan Associates
Swintek Enterprises
Teledyne Big Beam
Vanner Inc.
U.S. JVC Corporation
Videomedia
Yardney

BATTERY PACK/ TEST INSTRUMENT

Tektronix

BLOWERS & FANS

Amco Engineering Co.
Bud Industries
Comark Communications
Electro Impulse Laboratory, Inc.
Ripley Co.
Stantron Division / Wyco Metal
Products
Winsted Corp.

BRIDGES, COMMON POINT

CSP Inc.
Continental Electronics Mfg.
Delta Electronics
Harris Corporation, Broadcast
Products Division
Potomac Instruments
Texscan Corp.

BUZZ TONE ELIMINATORS

Merlin Engineering
Orange County
John M. Sullivan Associates

CABINETS, CONSOLES, & EQUIPMENT RACKS

A&S Case Co. Inc.
AEG-Telefunken
(Bayly Engineering)
Advance Products
Amco Engineering
Anvil Cases
Audix Limited
Brabury Electronics Ltd.
Broadcast Electronics, Inc.
Bud Industries
Calzone Case Co.
Cases Inc.
Centro
Cetec Broadcast Group
Compac Development Corp.
Dell Technical Vehicles
Dyma Engineering
Electro Acoustics Designs
Emcor Products
Enclosure Corp.
Environmental Container
Systems
Equipto
Fiberbilt
Forecast Media Installations
GKM Manufacturing
GTE Products Corp.

Grinnan Fixtures
HSC Inc.
Hammond Industries
Harris Corporation, Broadcast
Products Division
IGM Communications
Javelin Electronics
Leedal
Lee-Ray Industries
McCurdy Radio Industries
Micro-Trak
Neumade Products
Paso Sound Products
ProTech Audio
Rack Techniques
Research Technology Int'l.
Ruslang Corp.
Salt Electronics
Scientific-Atlanta,
Optima Division
Shintron
Spectra Sonics
Stantron Division, Wyco
Metal Products
Thermodyne International Ltd.
Thomson-CSF
Wallach & Associates
Winsted
Vector Electronic

CABLE & ACCESSORIES & SERVICES

AUDIO CABLE
AEG-Telefunken
Alpha Wire Corporation
Audicon, Inc.
Bi-tronics
Boston Insulated Wire & Cable
Brand-Rex
Broadcast Electronics
David H. Brothers Co.
Cinetronics
Comprehensive Video Supply
Connect-Air International
Daburn Electronics & Cable
Dyma Engineering
Elektrolmex
Emcor Products
G.C. Electronics
Galite
Hammond Industries
Harris Corporation, Broadcast
Products Division
Hartley Products
Javelin Electronics
Leader Broadcast Systems
McCurdy Radio Industries
McMartin Industries
Marshall Electronics
Miles Associates, Div. Miles Air
Products Ltd.
Mohawk Wire & Cable Corp.
Georg Nuemann GwBH
PAG Group
Pirelli Cable Corp.
RMS Electronics
Rockwell International
Rohde & Schwarz
Scientific-Atlanta
Sescom, Inc.
Shure Brothers
Spectra Sonics
John M. Sullivan Associates
Tascam
Teac Corp. of America
Times Fiber Communications
Vidair Electronics Mfg.
Wireworks Corporation

CABLING & WIRING SERVICES

AEG-Telefunken
A.F. Associates
AVA Electronics
Audicon
Audio Accessories
Boston Insulated Wire & Cable
Brabury Broadcast Systems
Brand-Rex
Cinetronics
Connect-Air International
Crow of Reading Ltd.
Daburn Electronics & Cable
Dell Technical Vehicles

Dynamic Technology Ltd.
Ear Systems Inc.
East Coast Video
Edcor
Electro - Acoustic Designs
Emcor Products
G.C. Electronics
GTE Products Corp.
Galite
Graham-Patten Systems
Image Devices Incorporated
McCurdy Radio Industries
Marshall Electronics
Fred Nudd Corporation
PAG Group
Pirelli Cable Corp.
ProTech Audio
Radiotechniques
Rex Rheostat & Co., Inc.
Salt Electronics
Scientific-Atlanta
Spectra Sonics
Thomson-CSF
Union Connector Co.
Whirlwind Music

CAMERA CABLE

AEG-Telefunken
Artel Communications Corp.
Bi-tronics
Robert Bosch GmbH
Boston Insulated Wire & Cable
Brand-Rex
Comprehensive Video Supply
Connect-Air International
Crow of Reading Ltd.
Daburn Electric & Cable Corp.
Emcor Products
G.B.C.
Galite
Harris Corporation, Broadcast
Products Division
Ikegami Electronics
Image Devices Incorporated
Javelin Electronics
Marshall Electronics
Mohawk Wire & Cable Corp.
PAG Group
Panasonic
Pirelli Cable Corp.
RMS Electronics
John M. Sullivan Associates
Thomson-CSF
Times Fiber Communications
Videomedia

COAX, FLEXIBLE

AEG-Telefunken
AVA Electronics
Alpha Wire
Andrew Corp.
Anixter-Mark
Belden
Bi-tronics
Blonder - Tongue Labs, Inc.
Robert Bosch GmbH
Boston Insulated Wire & Cable
Brand-Rex
Broadcast Electronics, Inc.
David H. Brothers, Co.
CCS Cable
CSP Inc.
Cableware Systems
Compac
Comprehensive Video Supply
Connect-Air International
Continental Electronics Mfg.
Crow of Reading Ltd.
Daburn Electronics & Cable
Emcor Products
The Finney Company
Gabriel Electronics
Harris Corporation, Broadcast
Products Division
Image Devices Incorporated
Javelin Electronics
LeBlanc & Royle Communications
McMartin Industries
M/A-COM Video Systems
Marshall Electronics
Micro Communications
Micro Control Associates
Mohawk Wire & Cable Corp.
Nurad
PAG Group
Phelps Dodge Communications

Continued on page 62

The brightness you need to show it big

General Electric (U.S.A.)* Professional Large Screen Video Projection

With General Electric's (U.S.A.) exclusive sealed light valve and sealed Xenon lamp system, in both color and monochrome General Electric (U.S.A.) Professional Large Screen Video Projectors, you can depend on sharp pictures from 2 to 25 feet wide. New high brightness models allows the room lighting viewers need to take notes and refer to written material.

The color projectors reproduce every color accurately, with the convenience of inherent color registration. General Electric's (U.S.A.) exclusive single gun, single optical path light valve system eliminates the need for manual color convergence.

Portable and flexible, the projectors are being used for a wide variety of applications, including front and rear projection. Our applications experts will tell you whether yours can be added to the growing list, which includes:

Education: Medical, dental, engineering, computer science instruction.

Business: Sales meetings, industrial training, product presentations, real-time display of computer-generated data, teleconferences.

Aerospace and Defense: Situation displays, simulator training.

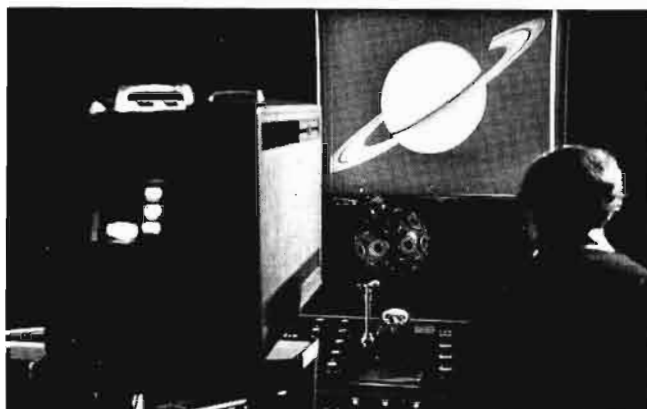
Entertainment: Theatre television, closed-circuit TV events, overflow crowds, special effects.

Television Production: Backgrounds for news programs, special effects, data display, program previewing.

Call or write: General Electric Company (U.S.A.), Video Display Equipment Operation, Electronics Park 6-206, Syracuse, NY 13221 U.S.A., Phone: (315) 456-2152.



NEWS BACKGROUND at WTMJ-TV, Milwaukee, is displayed rear screen by General Electric (U.S.A.) projector.



SELL-OUT CROWDS at Fiske Planetarium, Boulder, watched live NASA transmission presented by General Electric (U.S.A.) projector.

GE (U.S.A.) Professional Large Screen Television Projector Specifications

COLOR PROJECTORS

Model	Light Output in Lumens			Resolution* in TV Lines per Picture Height		Input Power Req.		Scan Standards***	Video Input**
	Open Gate, Min.	Modulated TV, Min.	Modulated TV, Typ.	Min. Horiz.	Min. Vert.	Watts	Volt-Amps.		
PJ 5000	550	220	280	750	300	1200	1600	525 li./60 fps; 625 li./50 fps	(1)
PJ 5050	1250	500	650	750	300	1600	2150	525 li./60 fps; 625 li./50 fps	(1)
PJ 5800	550	200	280	750	600	1200	1600	875 lines, 60 fps	(2)
PJ 5850	1250	500	650	750	600	1600	2150	875 lines, 60 fps	(2)
PJ 5100	550	200	280	750	650	1200	1600	1023 lines, 60 fps	(2)
PJ 5150	1250	500	650	750	650	1600	2150	1023 lines, 60 fps	(2)

MONOCHROME PROJECTORS

PJ 7000	1000	600	750	800	400	1000	1350	525 li./60 fps; 625 li./50 fps	(3)
PJ 7050	1700	1000	1250	800	400	1000	1350	525 li./60 fps; 625 li./50 fps	(3)
PJ 7055	3300	2000	2400	800	400	1500	2000	525 li./60 fps; 625 li./50 fps	(3)
PJ 7800	1000	600	750	800	650	1000	1350	875 lines, 60 fps	(3)
PJ 7850	1700	1000	1250	800	650	1000	1350	875 lines, 60 fps	(3)
PJ 7855	3300	2000	2400	800	650	1500	2000	875 lines, 60 fps	(3)
PJ 7100	1000	600	750	800	750	1000	1350	1023 lines, 60 fps	(3)
PJ 7150	1700	1000	1250	800	750	1000	1350	1023 lines, 60 fps	(3)
PJ 7155	3300	2000	2400	800	750	1500	2000	1023 lines, 60 fps	(3)

Line Power, All Projectors: 117 or 240 v., $\pm 10\%$, 50/60 Hz

*Resolution measurements made with wide-band video input.

**Video Input Key: (1) NTSC or RGB. (2) RGB. (3) Wide-Band.

***For use at other scanning rates, contact General Electric (U.S.A.) (VIDEO) for special application/model information.

GENERAL ELECTRIC

U.S.A.

*Not connected with the English company of a similar name.

Circle (36) on Action Card

Pirelli Cable Corp.
Prodelin, Inc.
RMS Electronics
Scala Electronic Corp.
Scientific-Atlanta
John M. Sullivan Associates
Tascam
Tepco
Thomson-CSF
Times Fiber Communications
Times Wire & Cable
Trompeter Electronics
Utility Tower
Videomedia
Whirlwind Music
Wilkinson Electronics

CONNECTORS

AKG Acoustics
AMP Inc.
AMP Special Industries
AVA Electronics
Adwar Video
Alpha Wire
Andrew Corp.
Anixter-Mark
Bardwell & McAlister
Bayly Engineering
Bird Electronic
Blonder - Tongue Labs, Inc.
Boston Insulated Wire & Cable
Broadcast Electronics
CSP Inc.
Cablewave Systems
Cambridge Products Corp.
Ceco Communications
Comark Communications
Compac Development Corp.
Comprehensive Video Supply
Connect-Air International
Continental Electronics Mfg.
Daburn Electronics & Cable
Emcor Products
Gilbert Engineering
G.C. Electronics
GTE Products Corp.
Galite
The Finney Company
Harris Corporation, Broadcast Products Division
Image Devices Incorporated
Javelin Electronics
Jerrold Division, General Instrument Corp.
Kings Electronics
LRC Electronics
LTM Corporation of America
LeBlanc & Royle Communications
McMartin Industries
Magnavox CATV Systems
Marconi Instruments Ltd.
Marshall Electronics
Micro Communications
Micro Control Associates
Millen Components
Mohawk Wire & Cable
Neutrik Products
Nurad
PAG Group
Panoak Lighting Systems
PHELPS Dodge Communications
Pirelli Cable Corp.
Prodelin
Pyramid Industries
RMS Electronics
SGL Waber Electric
Switchcraft
Tascam
Tepco Corp.
Thomson-CSF
Trompeter Electronics
Union Connector
VIZ Manufacturing
Vidaire Electronics Mfg.
Whirlwind Music

FIBER OPTIC CABLES

AEG-Telefunken
Artel Communications
Andrew Corporation
Robert Bosch GmbH
Boston Insulated Wire & Cable
Brand-Rex
Connect-Air International
Delta Systems
Emcor Products
Foundation Electronic Instruments
Galite

LaCroy Research Systems
M/A-COM Video Systems
Mohawk Wire & Cable
Moseley Associates
NEC America, Broadcast Equipment
Pirelli Cable Corp.
Thomson-CSF
Times Fiber Communications
Valtec Corporation

GUY WIRES

(See Also Towers & Accessories)
Abroyd Construction
Allied Tower
Copperweld Bimetallics Group
Cortland Cable Co.
Emcor Products
G.C. Electronics
Image Devices Incorporated
LeBlanc & Royle Communications
Fred Nudd Corporation
Philadelphia Resins
RMS Electronics
Thomson-CSF
UNR-Rohn
Utility Tower
VIF International
World Tower

HEAVY DUTY, AC / DC POWER

AEG-Telefunken
Alpha Wire Corp.
California Instruments
Cine 60 Inc.
Daburn Electronics & Cable
Emcor Products
Galite
Pirelli Cable Corp.
Tech Theatre Inc.
Thomson-CSF
Transector Systems

MICROPHONE CABLE

AEG-Telefunken
AKG Acoustics
AKG Akustische u. Kino-Gerate
Alpha Wire
Audio-Technica US Inc.
Beyer Dynamics
Bi-tronics
Brand-Rex
Broadcast Electronics
David H. Brothers Co.
Comprehensive Video Supply
Connect-Air International
Daburn Electronics & Cable
Dyma Engineering
Emcor Products
G.C. Electronics
Galite
Hammond Industries
Harris Corporation, Broadcast Products Division
McMartin Industries
Marshall Electronics
Miles Associates, Div. Miles Air Products Ltd.
Mohawk Wire & Cable Corp.
Georg Neumann GwBH
Panasonic
Pirelli Cable Corp.
Shure Brothers
John M. Sullivan Associates
Tascam
Teac Corp. of America
Telex Comm. Inc.
Vidaire Electronics Mfg.
Wireworks Corporation

TRANSMISSION LINES, PRESSURIZED

AEG-Telefunken
Andrew Corp.
Anixter-Mark
Antennas for Communications
CSP Inc.
Cablewave Systems
Cetec Broadcast Group
Comark Communications
Continental Electronics Mfg.
Copperweld Bimetallics Group
Dielectric Communications
Emcor Products
Gabriel Electronics
Harris Corporation, Broadcast Products Division
LeBlanc & Royle Communications

McMartin Industries
Micro Communications
Moseley Associates
PHELPS Dodge Communications
Pirelli Cable Corp.
Prodelin
S.W.R. Inc.
Shively Laboratories
Television Technology
Thomson-CSF
Wilkinson Electronics

CALIBRATION SERVICES

(See Test Equipment & Services)

CAMERA MOUNTS, CARRYING SYSTEMS & ACCESSORIES

AIRBORNE MOUNTING/STABILIZING
Arriflex
ENG Helicopter Satellites Ltd.
Feathercam
M/A-COM Video Systems

CARRYING SYSTEM
Anvil Cases
William Bai Corporation
Calvert Electronics
Cine 60 Inc.
Cinema Products
Feathercam
Fiberbilt
Harris Corporation, Broadcast Products Division
Image Devices Incorporated
Innovative Television
K and H Products, Ltd.
Lee-Ray Industries
Listec TV Equipment

DOLLIES & TRIPODS
Arriflex
Bardwell & McAlister
Calvert Electronics
Calzone Case Co.
Cinema Products
Comprehensive Video Supply
Davis & Sanford
Elektroimpex
Elicon
Feathercam
Alan Gordon Enterprises
Gruber Products
Harris Corporation, Broadcast Products Division
Karl Heltz Inc.
ITE (Innovative Television Equipment)
K & H Products
Lee-Ray Industries
Listec TV Equipment
Matthews Studio Equipment
Miller Professional Equipment
O'Connor Engineering
One Pass Video
Optical & Textile Ltd.
PAG Group
Quick - Set
Sachtler Corp. of America
Smith-Victor
Strand Century
John M. Sullivan Associates
Telescript
Television Products Co.
Triple SMFC Corp.

PAN & TILT HEADS
Arriflex
David H. Brothers Co.
Calvert Electronics
Cinema Products
Cohu, Electronics Division
Comprehensive Video Supply
Davis & Sanford
Electro & Optical Systems
Elektroimpex
Elicon
Feathercam, Inc.
G.B.C.

Harris Corporation, Broadcast Products Division
Karl Heltz, Inc.
ITE (Innovative Television Equipment)
Image Devices Incorporated
Javelin Electronics
KB Systems
Listec TV Equipment
Miller Professional Equipment, Inc.
Motorola Communications and Electronics
O'Connor Engineering Labs
Optical & Textile Ltd.
PAG Group
Panasonic
Peerless Sales
Quick Set
Sachtler Corp. of America
Smith - Victor Sales Corp.
John M. Sullivan Associates
Tele-Cine
Telescript

PEDESTALS
Bardwell & McAlister
Calvert Electronics
Elektroimpex
Elicon
Feathercam
Harris Corporation
ITE (Innovative Television Equipment)
Lee Ray Industries
Listec TV Equipment
Matthews Studio Equipment
O'Connor Engineering
One Pass Video
Sachtler Corp. of America
Telescript
Television Products Company

REMOTE CONTROLS
A.F. Associates
Bayly Engineering
David H. Brothers, Co.
Cinema Products
Cinetronics
Comark Communications
Crow of Reading Ltd.
Elicon
Feathercam, Inc.
Harris Corporation, Broadcast Products Division
Image Devices Incorporated
Javelin Electronics
Listec TV Equipment
M/A-COM Video Systems
Motorola Communications and Electronics
Panasonic
Potomac Marine & Aviation
Tele-Cine
Videomedia

STABILIZED CARRYING SYSTEM

Anvil Cases Inc.
Arriflex
Cinema Products
Feathercam
Image Devices Incorporated
K and H Products Ltd.
Lee Ray Industries
M/A-COM Video Systems
Tele-Cine

TEST CHARTS
Porta-Pattern Telecommunications

CAMERA/RECORDER COMBINATION

Fernseh (Bosch)
Hitachi
Ikegami Electronics
Panasonic
RCA
Sony Corp. of America

CAMERAS, FILM

Aaton Cameras
Arriflex

Continued on page 64

Outstanding Outdoors

Camera location 3 behind home plate is no place to tear down a camera. Especially if the director wants to punch it up on air to catch the next pitch. That's just one reason why the rock-steady, works-every-time HK-357A is an outstanding choice for production in the field.

Beyond its reputation for legendary Ikegami reliability, the HK-357A has a lot more to recommend it as the ideal field camera. For example, its crisp, high resolution picture, signal-to-noise ratio of better than 53 dB, and superb colorimetry.

What's more the camera really shows off when it's time to set up. Use of the optional microproces-

sor control brings into play Ikegami's Emmy award-winning digital techniques for automatic setup. Simply press one button and the computer automatically refreshes all set up and registration adjustments in about 45 seconds. No chip charts blowing in the wind, no tweaking. Just unpack, plug-in, auto-setup, and shoot.

Hook up is a simple matter too. Choose the triax option and you can position the camera as far as a mile from the van with absolutely no compromise in picture quality as compared to multicore. And for versatility, our triax camera interfaces with TV-81 multicore at the flip of a switch.

Field test an HK-357A to see why Ikegami is the choice of so many networks, major market stations, and independent producers.



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Ikegami HK357A

Ikegami Electronics (USA) Inc., 37 Brook Avenue
Maywood, NJ 07607: (201) 368-9171
Northeast: (201) 368-9171 West Coast: (213) 534-0050
Southwest: (713) 445-0100 Southeast: (813) 884-2046
Canada: (201) 368-9179
Circle (37) on Action Card



Cinema Products
Compro Productions
Feathercam
Fernseh
Frezzolini
G.B.C.
Alan Gordon Enterprises
Image Devices Incorporated
Team Electronics
Wide Range Electronics

CAMERAS, VIDEO

CCD
English Electric Valve
Fairchild CCD Imaging
NEC America, Broadcast
Equipment
Panasonic
Teknekron Controls
Thompson-CSF

CCTV
ATV Research
Adwar Video
Robert Bosch GmbH
David H. Brothers, Co.
Cinema Products
Cohu, Inc., Electronics Division
Commercial Electronics, Inc. (CEI)
Compro Productions
Dage-MTI
Elektroimpex
Fernseh
GBC Closed-Circuit TV
Hitachi Denshi American Ltd.
Ikegami
Javellin Electronics
Link Electronics
Motorola
Nytone Electronics Corp.
Oktel
Panasonic Video Systems
Philips Broadcast
RCA Broadcast Systems
Sharp Electronics
Thomson-CSF
Toshiba International
U.S. JVC Corporation
Video Masters
Westinghouse Electric

FILM CHAIN CAMERA
Adwar Video
Robert Bosch GmbH
Cinema Products
Cohu, Electronics Division
Fernseh
Harris Corporation, Broadcast
Products Division
Hitachi Denshi America
Ikegami
Image Devices Incorporated
Marconi Electronics
NEC America
Nytone Electronics
Philips Broadcast
RCA Broadcast Systems
Rank Cintel
Sharp Electronics
Thomson-CSF
Toshiba International
U.S. JVC Corporation

ENG / HANDHELD
Adwar Video
Ampex
Robert Bosch GmbH
CEI
Cinema Products
Fernseh
Frezzolini Electronics
Hitachi Denshi American Ltd.
Ikegami
Javellin Electronics
NEC America
Panasonic Video Systems
Philips Broadcast
Pye TVT
RCA Broadcast Systems
Sharp Electronics
Sony Corporation of America
Swintek Enterprises
Thomson-CSF Broadcast
Toshiba America
U.S. JVC Corporation

FIELD CAMERA
Ampex
Robert Bosch GmbH
CEI
Cinema Products
Fernseh
Harris Corporation, Broadcast
Products Division
Hitachi Denshi America
Ikegami
International Video Corp.
Link Electronics
Marconi
NEC America
Panasonic Video Systems
Philips Broadcast
Pye TVT
RCA Broadcast Systems
Sharp Electronics
Sony Corporation of America
Thomson-CSF Broadcast
Toshiba America
U.S. JVC Corporation

STUDIO CAMERA
Ampex
Robert Bosch GmbH
CEI
Cinema Products
Fernseh
Harris Corporation, Broadcast
Products Division
Hitachi Denshi America
Ikegami
International Video Corp.
Marconi Electronics
NEC America
Panasonic Video Systems
Philips Broadcast
Pye TVT
RCA Broadcast Systems
Sharp Electronics
Thomson-CSF Broadcast
Toshiba America
U.S. JVC Corporation

CAMERA, VIDEO DIGITAL REMOTE CONTROL SYSTEM

Anton/Bauer
Bayly Engineering
David H. Brothers Co.
Cinema Products

CAPACITORS, TRANSMITTING

BES Electronics
Calvert Electronics
Ceco Communications
Comad Communications
English Electric Valve
ITT Jennings
Mallory Capacitor
Surcom Associates
Thomson-CSF

CART MACHINES & SERVICES

SINGLE DECK
Amilon
Ampro/Scully
Audi-Cord
BASF Limited
Broadcast Electronics
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Industries
Contel
Continental Electronics Mfg.
D - B Electronics
Elcom-Bauer
Harris Corporation, Broadcast
Products Division
IGM Communications
ITC/3M
International
Electro - Magnetics

International Tapetronics
Leader Broadcast Systems
Pacific Recorders
Ramko Research
Singer Products Company
Sono-Mag
Tapecaster TCM, Inc.
Telex Communications
UMC Electronics
UREI

DUAL DECK
Amilon
Ampro/Scully
Aristocart, Div. of Weston
Broadcasting
Audi-Cord
Broadcast Electronics
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Ind.
D - B Electronics, Inc.
Harris Corporation, Broadcast
Products Division
IGM Communications
International
Electro-Magnetics
International Tapetronics
Leader Broadcast Systems
MacKenzie Laboratories
Ramko Research
Sono-Mag
UREI

TRIPLE DECK
Amilon
Ampro/Scully
Audi-Cord
Broadcast Electronics
Calico Video
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Ind.
D - B Electronics
Harris Corporation, Broadcast
Products Division
IGM Communications
ITC/3M
International
Electro-Magnetics
International Tapetronics
Leader Broadcast Systems
MacKenzie Laboratories
Ramko Research
Singer Products Company
Sono-Mag
UMC Electronics

MULTIPLE DECK
Amilon
Audi-Cord
Broadcast Electronics
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Ind.
D - B Electronics
Harris Corporation, Broadcast
Products Division
IGM Communications
International
Electro-Magnetics
MacKenzie Laboratories
Ramko Research
Sono-Mag
Tapecaster TCM, Inc.
UMC Electronics

RANDOM ACCESS
(See Also Automation Controls Audio)
Audi-Cord
Broadcast Electronics
Calico Video
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Ind.
IGM Communications
International Tapetronics
Microprobe Electronics
Singer Products Company
Sono-Mag
UMC Electronics
VIF International

REBUILDING SERVICES
Aristocart
Audi-Cord
Audio Path

Broadcast Electronics
Century 21 Programming
Ear Systems Inc.
Harris Corporation, Broadcast
Products Division
IGM Communications
Leader Broadcast Systems
The Management
RCA Service Company
Tapecaster TCM, Inc.

RECORD ONLY
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Ind.
Contel
Harris Corporation, Broadcast
Products Division
International Tapetronics
MacKenzie Laboratories
Pacific Recorders &
Engineering
Ramko Research
Tapecaster TCM
Telex Communications

STEREO
Ampro/Scully
Audi-Cord
Broadcast Electronics
David H. Brothers, Co.
Century 21 Programming
Cetec Broadcast Group
Consolidated Electronic Ind.
Continental Electronics
D - B Electronics
Harris Corporation, Broadcast
Products Division
IGM Communications
ITC/3M
International Tapetronics
MacKenzie Laboratories
The Management
Pacific Recorders & Engineering
Ramko Research
Tapecaster TCM, Inc.
Telex Communications
UMC Electronics

CARTRIDGES (TAPE), ACCESSORIES & SERVICES

ALIGNMENT TAPES
Aristocart, Division of
Weston Broadcasting
Broadcast Electronics, Inc.
Continental Recordings
Fidelipac Corp.
Harris Corporation
IGM Communications
Marathon Products Corp.
Nortronics
United Research Lab Corp.

DELAY CARTS
Broadcast Electronics
Capitol Magnetic Products
Cetec Broadcast Group
Consolidated Electronic Ind.
Continental Recordings
D - B Electronics
Fidelipac
3M Company, Magnetic
A/V Products Division
Marathon Products
Procart
Tapecaster TCM, Inc.
Western Broadcasting

MONO CARTS
Aristocart
Broadcast Electronics
Capitol Magnetic Products
Century 21 Programming
Continental Electronics Mfg.
Consolidated Electronics Ind.
Continental Recordings
D - B Electronics
Fidelipac
Harris Corporation, Broadcast
Products Division
IGM Communications

Continued on page 66

Crosstown or cross country, call Calvert first.

You'll get the lowest price in America *and* overnight delivery.

TRANSMITTING TUBES

3B28	14.00	4CX350F	125.00	575A	29.00	6696A	2850.00
3CW20000A3	1480.00	4CX1000A	370.00	673	45.00	6697A	3000.00
3CW20000A7	1585.00	4CX1000K	502.00	805	65.00	ML7007A	3750.00
3CX1000A7	527.00	4CX1500A	584.00	807	8.50	7237A	553.00
3CX1500A7	465.00	4CX1500B	470.00	810	69.00	7527	130.00
3CX2500A3	432.00	4CX3000A	871.00	813	45.00	7527A	165.00
3CX2500F3	469.00	4CX5000A	1025.00	828	88.00	8008	18.00
3CX3000A1	432.00	4CX10000D	1175.00	833A	85.00	8122	98.00
3CX3000A7	601.00	4CX15000A	1500.00	833A (U.S.A.)	185.00	8791	375.00
3CX3000F1	516.00	4CX20000A	1495.00	866A	7.25	8791VI	387.00
3CX3000F7	610.00	4CX35000C	5525.00	866AX	38.00	8792	680.00
3CX10000A3	1130.00	4CX40000G	7075.00	872A	18.00	8792VI	690.00
3CX10000A7	1440.00	4X150A	50.00	4055VI	165.00	8806	2500.00
3CX10000U7	2045.00	4X500A	320.00	5762	545.00	8807	2660.00
3CX15000A3	1387.00	4-65A	65.00	5867A	135.00	8873	191.00
3CX15000A7	1340.00	4-125A	75.00	5879	4.80	8874	191.00
3CX20000A7	1873.00	4-250A	90.00	5924A	825.00	8875	191.00
3-400Z	90.00	4-400A	95.00	5933	19.00	8890	2600.00
3-500Z	99.00	4-400AX	165.00	6076	695.00	8891	3375.00
4CV35000A	2625.00	4-400B	130.00	6076A	650.00	8916	3375.00
4CX250B	57.00	4-400C	95.00	6146A	8.95	8976	2832.00
4CX250BC	71.00	4-500A	221.00	6146B	8.95	8977	2600.00
4CX250K	126.00	4-1000A	420.00	6155	75.00	8984	6300.00
4CX250R	95.00	5CX1500A	650.00	6156	90.00	8985	1650.00
4CX300A	184.00	5CX3000A	900.00	6161	550.00	8986	1275.00
4CX300Y	205.00	5-500A	260.00	6166A (7007)	2640.00	8988	2900.00
4CX350A	99.00	9C25	9200.00	6181	3486.00	9007	3800.00

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BC4390 series	1955.00	BC4592 series	2238.00	BC4992 series	2350.00	BC7735	240.00
BC4391 series	2222.00	BC4593R	2444.00	BC4993R	2555.00	BC8134	766.00
BC4392 series	2350.00	BC4594 series	2444.00	BC4994 series	2555.00	BC8134B	766.00
BC4393R	2555.00	BC4809	750.00	5820A/L	3295.00	8480	1350.00
BC4394 series	2555.00	BC4809B	750.00	7295C	2950.00	BC8480	1915.00
BC4396 series	2400.00	BC4908 series	1955.00	7389C	3050.00	BC8507	275.00
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3CX2500A3	415.	432.	432.	583.
3CX3000A1	415.	432.	432.	583.
3CX3000F1	480.	516.	491.	663.
3CX15000A7	1325.	1340.	1340.	1675.
4CX1000A	345.	370.	365.	493.
4CX3000A	825.	871.	830.	1037.
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4CX10000D	1015.	1069.	1200.	1500.
4CX35000C	5325.	5525.	5600.	7000.

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Dynaquip Electron Devices Ltd.
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Shintron
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T M Systems

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EchoLab
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Videomedia

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Chrono-log Corporation
ESE
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IGM Communications
Image Video Limited
KB Systems
Leader Broadcast Systems
McCurdy Radio Industries
Nationwide Electronic Systems
QSI Systems
Standard Electric Time Corp.
Thomson-CSF
Torpey Controls & Engineering
Vamco Engineering

COUNTER, UP

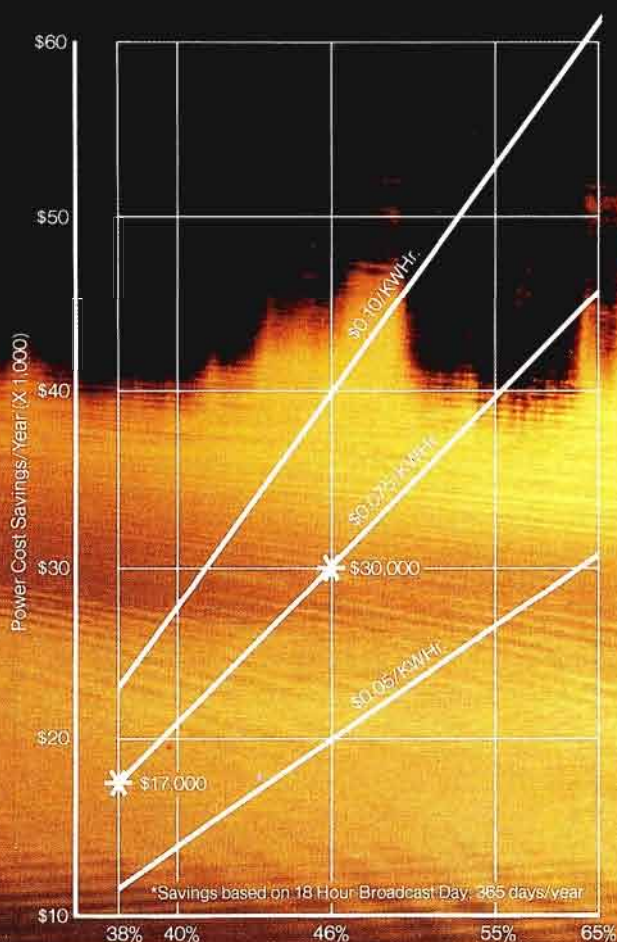
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QSI Systems
Rangertone Research Inc.
Standard Electric Time Corp.
Tapecaster TCM
Thomson-CSF
Torpey Controls & Engineering

Continued on page 68

EEV high efficiency UHF klystrons pay for themselves...in 1 to 3 years!



Annual Power Cost Savings using
EEV 55KW high efficiency klystron vs.
older generation 30% efficiency klystron



These are the facts.

- Over 70 EEV 55KW high efficiency external cavity klystron installations made during the past three years.
 - These klystrons are operating from 38% to 46% efficiency vs. average of 30% efficiency for older generation klystrons.
 - Annual power cost savings from \$17,000 to \$30,000 for single tube installations.*
 - Existing transmitters upgraded with new EEV klystrons operating from 38% to 40% Eff.
 - New transmitter installations with EEV klystrons operating from 40% to 46% Eff.
 - Life and reliability proven by 1400 installations worldwide logging over 9,000,000 hours/year.
 - EEV 55kw high efficiency klystrons available for UHF channels 14 to 78.
 - Development work being completed to attain 55%-65% efficiencies for external cavity klystrons with modulating anode or grid pulsing vs. klystron's intrinsic 46% efficiency.
- With these facts you can predict your power cost savings when you install EEV's 55KW high efficiency external cavity klystron.

Start now.

Specify EEV for your existing or new transmitter *or*

Convert and upgrade your internal cavity klystron system to EEV's external cavity klystron.

Every week you delay installing an EEV 55KW high efficiency klystron can represent an additional 4400KW to 7500KW on your power bill.

*Based on an 18 Hour Broadcast Day and \$0.75/KWHr.



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Geleco Electronics

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ENG
Comrex
Martl Electronics

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American Microsignal
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Dell Technical Vehicles
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GTE Products Corp.
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Regency
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Sonar Radio
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Swintek Enterprises
Texscan Corp.

MICROWAVE

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AEL (American Electronic
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Datum
Dell Technical Vehicles
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ESE
True Time Instruments

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Telesource Communication
Services
Video Specialties
Weather Services Int'l

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BIC Computers
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Computer Business Systems

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SynSat International
Technology Service
Texscan/MSI Corp.
Weather Services Int'l
Weatherscan International

Continued on page 70

STUDIO OR STADIUM, FUJINON'S NEW BCTV LENSES PLAY ALL THE ANGLES.

From super-wide to ultra-tele, in the studio or the stadium, Fujinon BCTV lenses are the clear winners . . . from any angle.

NEW. Fujinon's P28x15 ESM — the super studio lens. It gives you a wall-to-wall 15mm wide angle and a maximum aperture of F/2.2 which is maintained out to ten times. Even at 420mm, the F/4.2 allows you to keep your lighting levels reasonable. And for the tightest shots, the built-in 1.7X extender takes you to 714mm. Naturally, it has a built-in diascope for near instant computer setup. But range and speed do not reveal the incredibly sharp, bright, high contrast image the new 28X delivers. Its superior resolution and color performance place it ahead of any lens in its class.

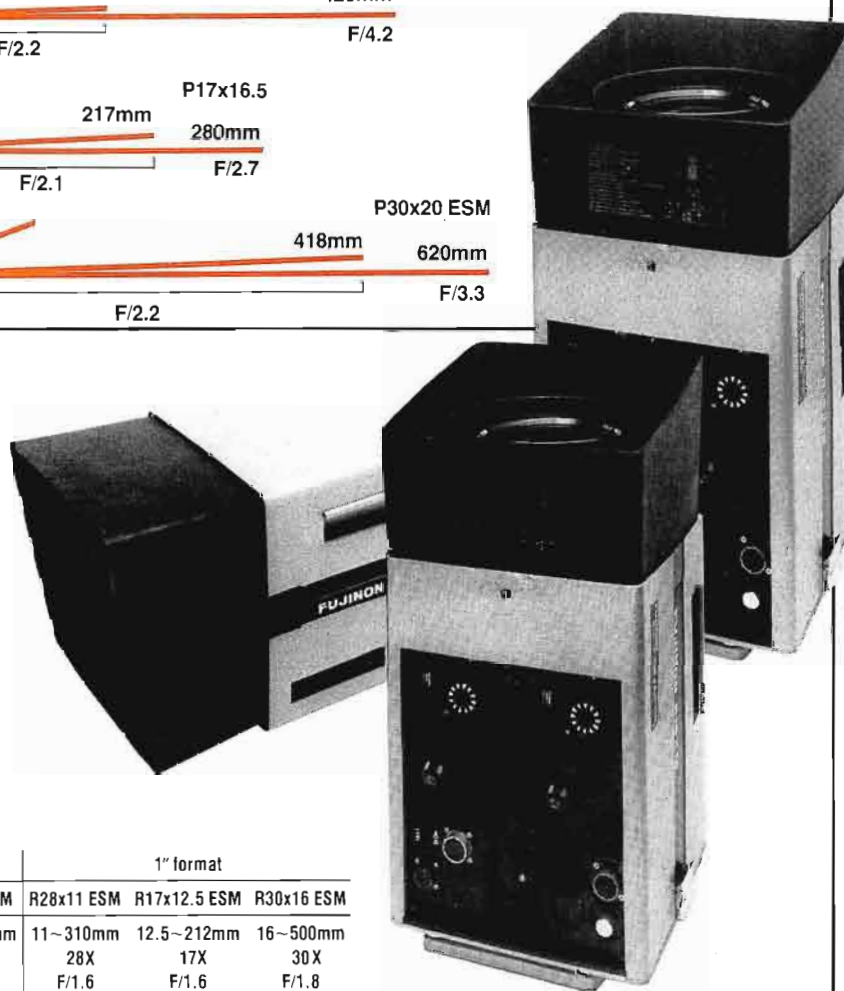
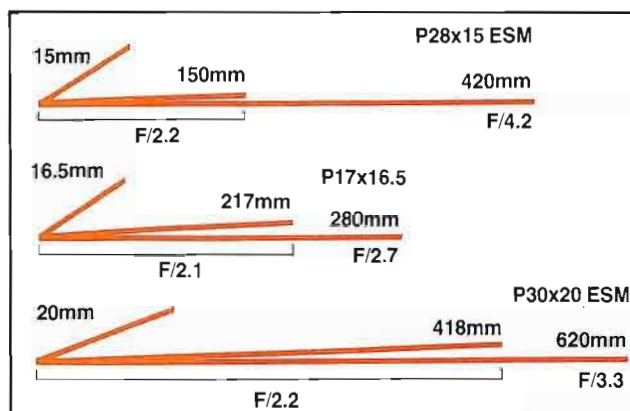
NEW. Fujinon's P17x16.5 ESM — the standard studio lens. With a zoom range from 16.5 to 280mm, an aperture which will remain flat at F/2.1 out to 217mm and built-in 1.5X and 2X extenders, here's the lens destined to be the industry workhorse for years to come. Simply put, it offers virtually every performance and operating feature — including built-in diascope — you're likely to need.

Not new. Fujinon's P30x20 ESM — the super field lens. Whether picking up the clearest shot of the space shuttle lifting off or a concert stage from the back of the top balcony, it goes out farther and flatter to deliver outstanding images . . . especially under lighting conditions that leave other lenses in the dark. Total zoom range, with the built-in 2X extender

is an incredible 20 to 1240mm. The F/2.2 aperture remains flat from 20 to 418mm — and at 620mm is giving you F/3.2. No wonder the 30X lens is acknowledged by the industry as the finest field zoom available.

For more information on the newest

and finest BCTV lenses, and why they are the best performance investment for your new or existing cameras, contact Fujinon. Large format zoom lenses are another reason why the world sees itself more clearly through the eyes of Fujinon.



Specifications:	1 1/4" format			1" format		
	P28x15 ESM	17x16.5 ESM	30x20 ESM	R28x11 ESM	R17x12.5 ESM	R30x16 ESM
Focal Length	15-420mm	16.5-280mm	20-620mm	11-310mm	12.5-212mm	16-500mm
Zoom Ratio	28X	17X	30X	28X	17X	30X
Max. Aperture	F/2.2	F/2.1	F/2.2	F/1.6	F/1.6	F/1.8
M.O.D.	.95m	.75m	2.5m	.95m	.75m	2.5m
Range Extender	1.7X	1.5X, 2X	2X	1.7X	1.5X, 2X	2X



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Broadcast Audio Corp.
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Dyma Engineering
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Logitek
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Processing Plus
ProTech Audio Corporation
Quad Eight
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Richmond Sound Design
C.N. Rood BV
Russco
SATT Electronics
Salt Electronics
Scantex Laboratories
Siemens AG Osterreich
Singer Products Company
Solid State Logic
Sontec Electronics
Sound Dynamics
Spectra Sonics
Sphere Electronics
Studer International
Studer Revox America
Tangent Systems
Tascam, Div. of Teac
TOA Electronics
Tramec Electronics
Trident
Tweed Audio USA
UMC Electronics
UREI
Ultra Audio Pixtec
VIF International
Ward - Beck Systems Ltd.
Yamaha International

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Autogram Corp.
Automated Processes
BFE KG
Broadcast Audio Assoc.
Broadcast Audio Corp.
Broadcast Electronics

Broadcast Technology
Cetec Broadcast Group
Coherent Communications
Custom Audio Elect
Datatronix
Dyma Engineering
Electro-Voice/E.V. Tapco
Elektroimpex
Enertec Schlumberger
Farrtronics
Finntek
Full Compass Systems
Greg Laboratories
Hallikainen and Friends
Harris, Broadcast Products
Harrison Systems
IGM Communications
LPB Inc.
Leader Broadcast Systems
Listec
Logitek Electronic Systems
McCurdy Radio Industries
MBI Broadcast Systems
MCI
McMartin Industries
Micro - Trak Corporation
Modular Audio Products
Georg Neumann GmbH
Opamp Labs
Rupert Neve
ProTech Audio Corporation
Quad Eight Elec.
Quantum Audio
RCA Broadcast Systems
Ramko Research
Richmond Sound Design
C.N. Rood BV
Salt Electronics
Scantex Laboratories
Siemens AG Osterreich
Solid State Logic
Sontec Electronics
Spectra Sonics
Sphere
Studer International
Studer Revox America
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Trak Audio
Tramec Electronics
Trident
Tri Tec Systems Inc.
Tweed Audio USA
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UREI
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Broadcast Electronics
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Harrison Systems
Howe Audio
IGM Communications
Integrated Sound, GLI Div.
LPB Inc.
Leader Broadcast Systems
Logitek Electronic Systems
McCurdy Radio Industries
McMartin Industries
MBI Broadcast Systems
MCI

Micro - Trak Corporation
Modular Audio Products
Opamp Labs
Rupert Neve
Pacific Recorders
Panasonic, Professional Audio Division
Processing Plus
ProTech Audio Corporation
Pye TVT
Quad Eight Electronics
Quantum Audio
RCA Broadcast Systems
Radio Systems Inc.
Ramko Research
Richmond Sound Design
Rohde & Schwarz
C.N. Rood BV
Russco
SATT Electronics
Salt Electronics
Scantex Laboratories
Siemens AG Osterreich
Singer Products Company
Solid State Logic
Sontec Electronics
Soundcraft Electronics
Spectra Sonics
Sphere Electronics
Studer International
Studer Revox America
John M. Sullivan Associates
TOA Electronics
Tangent Systems
Tascam, Div. of Teac
Tramec Electronics
Trident (USA) Inc.
Tweed Audio USA
UMC Electronics
UREI
VIF International
Ward - Beck
Wilkinson Electronics
Yamaha International

BROADCAST STEREO MODULAR

ADM Technology
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Amco Engineering Co.
Amek TAC
Arrakis Systems
Auditrionics
Aulix Limited
Audy Instruments
Autogram Corp.
Automated Processes
BFE KG
Broadcast Audio Corp.
Broadcast Electronics
Broadcast Technology
Cetec Broadcast Group
Coherent Communications
Custom Audio Elect
Datatronix
Dyma Engineering
Electro-Voice/EV Tapco
Elektroimpex
Enertec Schlumberger
Farrtronics
Greg Laboratories
Harris, Broadcast Products
Harrison Systems
Howe Audio
IGM Communications
Kajaani Oy
LPB Inc.
Leader Broadcast Systems
Listec
Logitek Electronic Systems
McCurdy Radio Industries
McMartin Industries
MBI Broadcast Systems
MCI
Micro - Trak Corporation
Modular Audio Products
Georg Neumann GmbH
Opamp Labs
Rupert Neve
Pacific Recorders
ProTech Audio Corporation
Quad-Eight Electronics
Quantum Audio
RCA Broadcast Systems
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Richmond Sound Design
Rohde & Schwarz

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Scantex Laboratories
Siemens AG Osterreich
Solid State Logic
Sontec Electronics
Soundcraft Electronics
Spectra Sonics
Sphere Electronics
Studer Revox America
TOA Electronics
Tangent Systems Inc.
Tascam, Div. of Teac
Trak Audio
Tramec Electronics
Trident
Tri Tec Systems Inc.
Tweed Audio USA
UMC Electronics
UREI
VIF International
Ward - Beck
Westrex

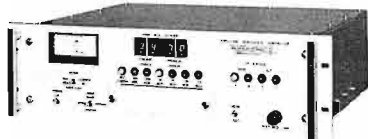
PORTABLE FOR REMOTES

ADM Technology
AEG-Telefunken
(Bayly Engineering)
ALICE (Stancoil Ltd.)
ATI Audio Technologies Inc.
Amek TAC
Applied Technology
Arrakis Systems
Audio Processing Systems
Auditrionics
Aulix Limited
Audy Instruments
BSM Systems
Don Britton Ent.
Broadcast Audio Assoc.
Broadcast Electronics
Cetec Broadcast Group
Coherent Communications
Comrex Corp.
Continental Electronics Mfg.
Crosspoint Latch
Custom Audio Electronics
Datatronix
Dyma Engineering
ENG Helicopter Satellite Ltd.
EV-Tapco
Electro-Voice
Enertec Schlumberger
Environmental Container Systems
Farrtronics
Full Compass Systems
Hallikainen & Friends
Harris Corporation, Broadcast Products Division
Harrison Systems
IGM Communications
Integrated Sound
LPB Inc.
Leader Broadcast Systems
Listec TV Equipment
Logitek
McCurdy Radio Industries
McMartin Industries
MBI Broadcast Systems
MCI
Micro - Trak
Modular Audio Products
Moseley Associates
Rupert Neve
Georg Neumann
Opamp Labs
Panasonic, Professional Audio Division
Processing Plus
ProTech Audio Corporation
Quad Eight Electronics
RTS Systems
Ramko Research
Richmond Sound Design
C.N. Rood BV
Russco
SATT Electronics
Salt Electronics
Scantex Laboratories
Sescom
Shure Brothers
Siemens AG Osterreich
Sontec Electronics
Sound Dynamics
Soundcraft Electronics
Spectra Sonics

Continued on page 72

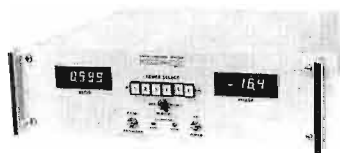
DELTA BROADCAST PRODUCTS

AMC-1/FMC-1



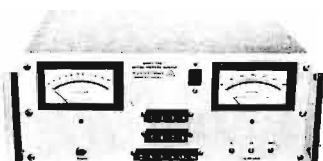
The **Modulation Controllers** are the only modulation controlling systems that provide a completely closed loop around the transmitter. The sampling of actual modulation levels after the PA output network assures precise adjustment for optimum modulation levels. The **AMC-1/FMC-1** also keep a digital count of positive and negative overmodulation bursts for both present and previous one minute periods.

DAM-1



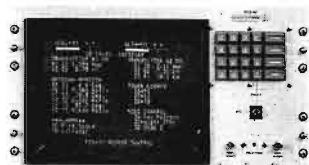
The **Digital Antenna Monitor** couples pushbutton ease of operation with digital accuracy. The **DAM-1** will accept RF samples from up to 12 towers (with an auxiliary panel) and features $\pm 1^\circ$ phase and $\pm 2\%$ current ratio accuracies. Remote panels and other accessories are available.

AAM-1



The **Analog Antenna Monitor** gives stable phase and ratio readings even in high RF fields. Separate phase and ratio mirrored-scale meters assure accurate meter indications.

RCS-1V



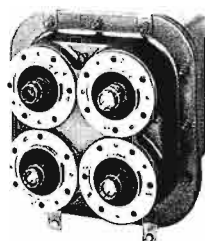
The **RCS-1V Remote Control System** combines microprocessor technology with simplified operation. Features include direct interface boards for antenna monitors, patented remote modulation bargraph, automatic logging, and synthesized speech telephone interface. The modular design allows the customer to plug in additional input or control boards to expand remote control capabilities even after the system is operating in the field.

APC-1

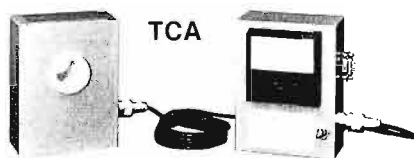


The **Automatic Power Controller** is your insurance against citations for over- and under-power operation. The **APC-1** continuously monitors the transmitter output power, and makes automatic power adjustments with the transmitter loading control. This assures proper power adjustment at all times.

**6730-E
6740-B**



Designed to switch two transmitters from antenna to dummy load, the **6730E** interfaces with 1 5/8 inch coaxial cable. For 3 1/8" lines, the **6740-B** transfer switch is used. Either manually or remote controlled, the **Transfer Switch** is fully interlocked and can be wired to existing equipment to prevent "hot" switching.



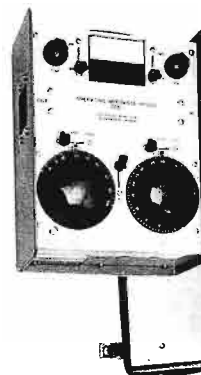
State of the art antenna current metering has arrived in the **TCA Ammeter Systems**. Accurate, Modulation-free, temperature stable current indications are found in the **TCA**. Models include single and dual scale meters.

TCT

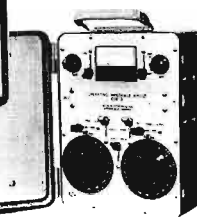


Delta's **Toroidal Current Transformers** provide accurate sampling current and phase values without the problems associated with sampling loops. Three output voltage ranges are available, as well as high voltage models for high-power facilities.

OIB-1



OIB-3



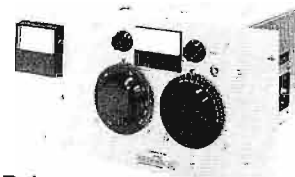
The **Operating Impedance Bridge** measures the impedance of networks, radiators, and the like while they operate under full power. VSWR as well as complex impedances of up to $400 \pm j300$ ohms can be measured.

The **OIB-3 Operating Impedance Bridge** provides extended resistance and reactance ranges, measuring up to $1000 \pm j900$ ohms. The bridge has a built-in carrying case and RF amplifier for improved nulling.



RG-3

The **Receiver/Generator** combines a two-watt RF output and a correlation detector circuit that virtually eliminates interference problems. The **RG-3** can be used in conjunction with any conventional impedance bridge including the **OIB** series.



CPB-1

The **Common Point Impedance Bridge** is designed for permanent installation; and allows continuous monitoring of the common point, thus facilitating network adjustment. This model can be provided with one of Delta's **TCA** ammeters mounted in the front panel.

DELTA ELECTRONICS



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Studer ReVox America
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Tramec Electronics
Trident
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Ultra Audio Pixtec
VIF International
Zercom Corp.

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Autogram Corp.
BFE KG
Don Britton Ent.
Broadcast Electronics
Broadcast Technology
Cetec Broadcast Group
Datafonix
EV-Tapco
Electro-Voice
Elektroimpex
Enertec Schlumberger
Finntek Limited
Harris Corporation
Harrison Systems
IGM Communications
Kajaani Oy
LPB Inc.
Logitek Electronic Systems
McCurdy Radio Industries
MBI Broadcast Systems
MCI Inc.
Micro-Trak Corp.
Modular Audio Products
Rupert Neve
Georg Neumann GmbH
Opamp Labs
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Pye TVT
Pyramid Loudspeakers
Quad Eight Electronics
RCA Broadcast Systems
Ramko Research
Richmond Sound Design
Russco
Sait Electronics
Sandar
Siemens AG Osterreich
Sierra Audio
Singer Products Company
Solid State Logic
Sontec Electronics
Soundcraft Electronics
Spectra Sonics
Sphere Electronics
Studer International
Studer ReVox America
Tascam, Div. of Teac
Technicobal
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Trident (USA) Inc.
Tweed Audio USA
VIF International
Ward-Beck Systems
Westrex

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Audix Limited
Audy Instruments
Bogen Division / Lear Siegler
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Communications Control Centers
Michael Cox
Crosspoint Latch
Datatek
Di-tech
Dyma Engineering
Dynair
Edco Products
Elektroimpex
Enertec Schlumberger
Full Compass Systems
Hallikainen & Friends
Harrison Systems

HEDCO/Hughes Electronic Devices Corp.

Image Video Limited
Industrial Sciences Inc. (ISI)
International Nuclear
Key Video Ltd.
McCurdy Radio Industries
Modular Audio Products
Rupert Neve
Pro-Bel
ProTech Audio Corporation
Richmond Sound Design
Roh Corporation
Sait Electronics
Scantex Laboratories
Siemens AG Osterreich
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TBC Pye Ltd.
Technicobal
Trident (USA)
Tri Tec Systems Inc.
Tweed Audio USA
Ultra Audio Pixtec
Viscount Industries

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Amco Engineering Co.
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Arrakis Systems
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Audix Limited
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Autogram Corp.
BFE KG
Don Britton Eng.
Broadcast Audio Corp.
Broadcast Technology
Cetec Broadcast Group
Coherent Communications
Michael Cox
Crosspoint Latch
Datafonix
Dyma Engineering
ENG Helicopter Satellite Ltd.
EV-Tapco
Elektroimpex
Enertec Schlumberger
Finntek Limited
Full Compass Systems
General TV Network
Hallikainen and Friends
Harrison Systems
Industrial Sciences Inc. (ISI)
Kajaani Oy
LPB Inc.
Listec TV Equipment
Logitek Electronic Systems
MBI Broadcast Systems
MCI Inc.
McCurdy Radio Industries
McMartin Industries
Marcom Communication Systems
Micro-Trak Corporation
Modular Audio Products
Rupert Neve
Georg Neumann
Opamp Labs
ProTech Audio Corporation
Quad-Eight Electronics
Ramko Research
Richmond Sound Design
Russco
SATT Electronics AB
Sait Electronics
Scantex Laboratories
Siemens AG Osterreich
Solid State Logic
Spectra Sonics
Sphere Electronics
Studer International
Studer ReVox America
Technicobal
Tri Tec Systems Inc.
Trident (USA) Inc.
Tweed Audio USA
UREI
Ultra Audio Pixtec
Ward-Beck Systems

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Angenieux
Beaveronics
Robert Bosch GmbH
Central Dynamics
Centro
Convergence
Michael Cox
Crosspoint Latch
Delta Systems
Dyma Engineering
Elektrohome
Elektroimpex
G.B.C. Closed Circuit TV
Grass Valley Group
Industrial Sciences Inc. (ISI)
Javelin Electronics
Kalarit Victor Corporation
Lang Video Systems
Marcom Communication Systems
Motorola Communications & Electronics
Ross Video
Sandar Electronics A/S
Shintron
Tech Electronics
Telemet
Texscan/MSI Corp.
Thomson-CSF
U.S. JVC Corporation
Viscount Industries
Vital Industries

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Altha Video & Elec. Corp.
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BFE KG
Robert Bosch GmbH
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Central Dynamics
Centro
Michael Cox
Crosspoint Latch
Crow of Reading Ltd.
Delta Systems
Dyma Engineering
Grass Valley Group
Image Video Limited
Industrial Sciences (ISI)
International Nuclear
Javelin Electronics
NET Enterprises
Rohde & Schwarz
Ross Video
Thomson-CSF
Vital Industries

PORTABLE PRODUCTION

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Ampex
Asaca/Shibasoku
BFE KG
Beaveronics
Broadcast Video Systems
Central Dynamics
Centro
Convergence
Michael Cox
Crosspoint Latch
Crow of Reading Ltd.
Datatron
Delta Systems
Dyma Engineering
ENG Helicopter Satellite Ltd.
Echolab, Inc.
Electro & Optical Systems
Environmental Container Systems
General TV Network
Image Video Limited
Industrial Sciences, Inc. (ISI)
Kaitronics Corp.
Lang Video Systems
NEC America
NET Enterprises
Panasonic
Quantum Audio Labs
Rohde & Schwarz
Ross Video

Shintron
Sony
Thomson-CSF
Toshiba International
U.S. JVC Corporation
Videocom Engineering
Videomedia
Viscount Industries
Vital Industries
Winsted Corporation

POST PRODUCTION

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Altha Video & Elec. Corp.
American Data
BCB Electronic Sales
Beaveronics
Robert Bosch GmbH
Central Dynamics Ltd.
Michael Cox
Crosspoint Latch
Crow of Reading Ltd.
Delta Systems
Dyma Engineering
Echolab, Inc.
General TV Network
Grass Valley Group
Harris Corporation
Industrial Sciences (ISI)
Lang Video Systems
NET Enterprises
Quantum Audio Labs
Ross Video
Scantex Laboratories
Shintron
Solid State Logic
Thomson-CSF
Unemco International
Viscount Ind.
Vital Industries
Winsted Corp.

ROUTING

AVL Digital
Altha Video & Elec. Corp.
American Data
BFE KG
Robert Bosch GmbH
Broadcast Video Systems
Channelmatic
Michael Cox
Crosspoint Latch
Crow of Reading Ltd.
Datatek Corp.
Delta Systems
Dyma Engineering
Dynair Electronics
Fernseh Inc.
Grass Valley Group
HEDCO
Image Video Ltd.
Industrial Sciences (ISI)
International Nuclear
Key Video Ltd.
Lang Video Systems
NEC America
NET Enterprises
Pro-Bel
Sandar Electronics A/S
Scantex Laboratories
TBC Pye Ltd.
Telemet
Thomson-CSF
Viscount Ind.
Vital Industries

STUDIO PRODUCTION

Adwar Video
Altha Video & Elec. Corp.
American Data
Ampex
BFE KG
Beaveronics
Robert Bosch GmbH
Broadcast Video Systems
Central Dynamics Ltd.
Convergence
Michael Cox
Crosspoint Latch
Crow of Reading Ltd.
Datatron
Delta Systems
Dyma Engineering
Dytek
Echolab Inc.
General TV Network

Continued on page 74

THE WORD IS OUT!

Vanguard Helps Editors Learn Procedures

CP/I ASSIGNABLE COAXIAL
INTERFACING

HELPING EDITORS LEARN
PROCEDURES

SYNC ROLL WITH EFFECTS
(SRE)

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TIAL AND CONTINUOUS
ROLL AUTOMATIC
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PATIBLE EDL

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CLIENT I/D IN
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SMART SCAN SLOW MOTION EDITING OPTION

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SPLITS WITH TWO AUDIO
TRACKS

FIVE VTR ROLL

320 EVENTS MEMORY
OPTIONAL 500 EVENTS

AUTO SCROLL OF THE EDL

USER DEFINABLE REACTION
TIME, POST ROLL, PREROLL

REPLAY

DF/NDF CONVERSION AND MIXED
FORMAT READING

SCRATCH PAD MEMORY
WITH MATH FUNCTIONS

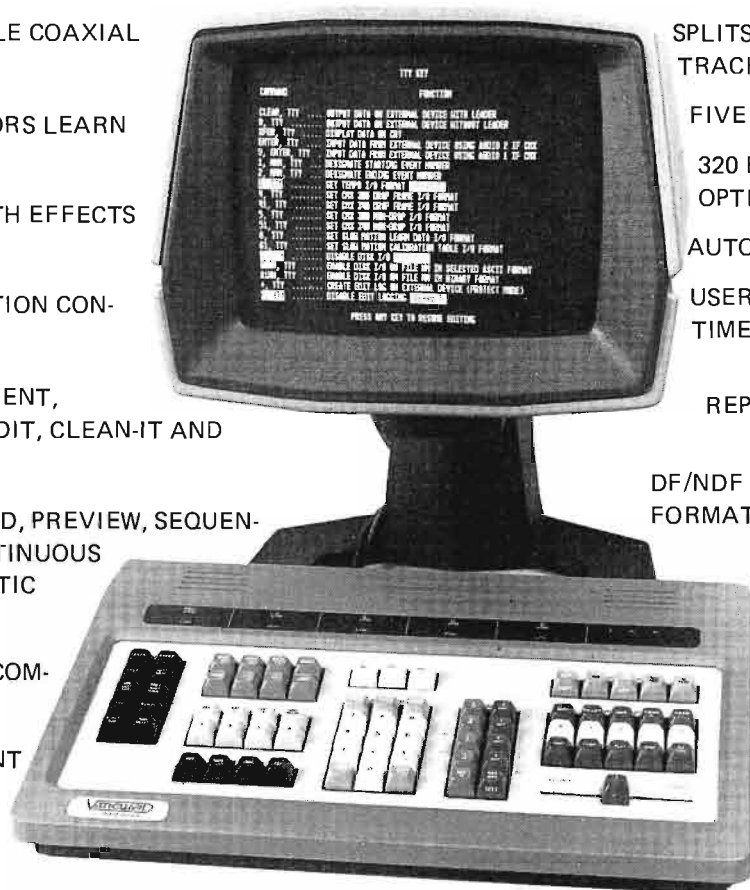
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PLAY CONFIGURATION
OF ANY DECK

HIGH SPEED FLOPPY
DISK

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TROL OPTION

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Industrial Sciences (ISI)
International Nuclear
3M Company
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Marcom Communication Systems
NEC America
NET Enterprises
Panasonic
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Pye TVT
Quantum Audio Labs
RCA
Ross Video Ltd.
Russco
Siemens
Seltech
Shintron
Strand Century
Thomson-CSF
Viscount Industries
Vital Industries
Winsted Corporation

STUDIO PRODUCTION WITH

DIGITAL EFFECTS
Altha Video & Elect. Corp.
American Data
Amplex
Robert Bosch GmbH
Central Dynamics Ltd.
Convergence
Crow of Reading Ltd.
Delta Systems
Dyma Engineering
Grass Valley Group
Industrial Sciences (ISI)
Marcom Communication Systems
Master Digital Inc.
NEC America
NET Enterprises
Pye TVT
Ross Video
Thomson-CSF
Vital Industries

CONSULTING SERVICES

AVC
Action Video Inc.
Aderhold Construction Co.
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Robert Bosch GmbH
Walter S. Brewer Co.
Don Britton Ent.
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Broadcast Aids Inc.
Candex Pacific
Canter-Redman Technologies
Jim Cason Electronics
Centro
Compucon
Computer Management Systems
Comsearch
Corporate Communications
Consultants
Crosspoint Latch
Crowder Communications
3D Video
Davis Electronics
John J. Davis & Associates
Dell Technical Vehicles
Deltamod
Dyma Engineering
Dynamic Technology
East Coast Video Systems
Electro-Acoustic Designs
Electro Controls
Elektroimpex
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Harris Corporation
Hoppmann Corp.
Imero Fiorentino Associates
Interface Video Systems Inc.
Jamieson and Associates

Jenel Consultants
Kitchen Productions
Lighting Elimination Associates
McCurdy Radio Industries
MBI Broadcast Systems
The Management
Master Digital Inc.
Kenneth R. Meades
Merlin Engineering
Midwest Corp.
Multiphase Consulting
Musicues Corp.
NET Enterprises
L.E. Nelson Corp.
Panoak Lighting Systems
Potomac Marine & Aviation
Processing Plus
Pyramid Loudspeaker Corp.
R.A.V.E./Reliable Audio Video
Enterprises
Radiotechniques
Rees Associates Inc.
Rivers Associates
Rosner Television Systems
Scantex Laboratories
Shane Media Services
Siemens AG Osterelch
Sierra Audio
Shafer Associates
Soll Inc.
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Spencer Broadcast
Standard Telephon Und Radio
AG
TVNS
Technology Service Corp.
Telecommunications Systems
Teleconcepts In
Communications
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Video-Ink
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AVA Electronics
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Comrex Corp.
Dielectric Communications
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Products Division
Howe Audio Marketing
Magnavox CATV Systems
Micro Communications
Narda Microwave Corp.
North Hills Electronics
RMS Electronics
RTS Systems
Scientific-Atlanta, Phoenix
Division
Shively Laboratories
Vidair Electronics Mfg.
Wide Band Engineering

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Apert-Herzog
Computer Labs, Div. of Analog
Devices, Inc.
Consolidated Electronic Ind.
Datel-Intersil
Eagle Comtronics
Electroline TV Equipment
Global Video Comm. Corp.
Grove Video
ILC Data Device
Jerrold Division, General
Instruments Corp.
Johnson Electronics
Moseley Associates, Inc.
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Scientific-Atlanta, Phoenix
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Thomson-CSF
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Moseley Associates, Inc.
Tektronix
Theatre Techniques Inc.
World Video Inc.

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Calvert Electronics
Edison Electronic Co.
Elcom Specialty Products
Elektroimpex
Harris Corporation, Broadcast
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Moseley Associates
Motorola Communications
& Electronics
Thomson-CSF
Wilkinson Electronics

CUE SYSTEMS, REMOTE

Autocue
Cetec Vega
Channelmatic
Coastcom
Comrex
Consolidated Elec. Ind.
D'San Corporation
Edcor
IGM Communications
Leader Broadcast Systems
Modulation Associates
Monroe Electronics
Motorola Comm. & Elec.
Nady Systems
Panoak Lighting Systems
ProTech Audio Corporation
RTS Systems
Roh Corporation
Swintek Enterprises
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Fung Eng. Labs., Inc.
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Division
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(Bayly Engineering)
American Microsignal
Cetec Vega
Channelmatic
Communications Control Centers
Deltamod
Di-tech
Frequency Devices
Gorman-Redlich
IGM Communications
Jatex Inc.
McMartin Industries
Modulation Associates
Monroe Electronics
Potomac Marine & Aviation
Rivers Associates
Rohde & Schwarz
Texscan/MSI
Trepac Corp. of America
UMC Electronics

STONE, EBS

Broadcast Electronics
ESE
Emergency Alert Receiver
Gorman-Redlich Mfg. Co.
International Nuclear Corp.
Johnson Electronics
McMartin Industries
ProTech Audio
Rivers Associates
Rohde & Schwarz
UMC Electronics

DEGAUSSER

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Comprehensive Video Supply
Fidelipac
Fluxcom
Garner Industries
IGM Communications
Nalpak Sales
Nortronics
Research Technology Int'l.
Rohde & Schwarz
Sonar
United Research Lab Corp.
UMC Electronics

DE-ESSERS

ATI Audio Technologies Inc.
Audio & Design Recording
Datatronix
IGM Communications
Georg Neumann
Valley People

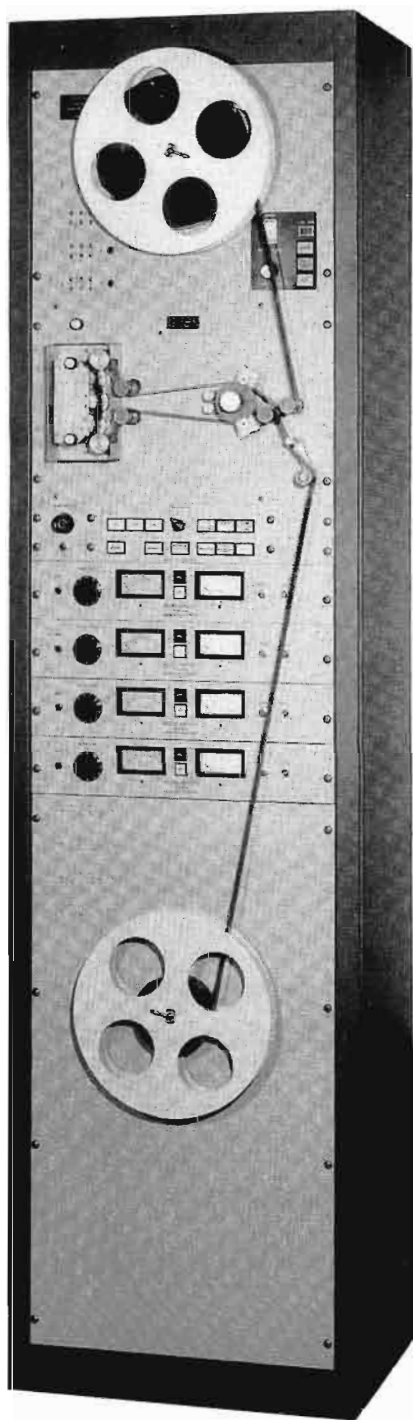
DELAY, AUDIO TAPE

Fidelipac
IGM Communications

DELAY LINES, AUDIO

AKG Acoustics
AKG Akustische u. Kino-Gerate
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Caracas 106 Venezuela

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Hammond Industries
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Industrial Research Products
Klark-Teknik Research
Leader Broadcast Systems
Lexicon
MXR Innovations
ProTech Audio Corporation
Spectra Sonics
T M Systems, Inc.
TT Electronics, Inc.
UREI
URSA Major, Inc.

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Allen Avionics
American Data
Anders Inc.
Andersen Laboratories
Broadcast Video Systems
Michael Cox
ESC Electronics
Eagle Contronics
Fairchild CCD Imaging
Faroudja Laboratories
Grass Valley Group
Leitch Video
Link Electronics
Listec TV Equipment
NEC America
Rohde & Schwarz
Sandar Electronics A/S
TT Electronics
Television Equipment Assoc.
Thomson-CSF

DELAY MACHINE, TALK SHOW

Comrex

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Foundation Electronic Instruments
Telemet
Times Fiber Communications

DEMODULATORS, VIDEO

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Barco Video Systems
Blonder-Tongue Laboratories
Cotel
Comark Communications
EEG Enterprises
Electro & Optical Systems
Fung Engineering Labs
Harris Corp. Broadcast Products
Javelin Electronics
Jerrold Div., Gen. Instrument
Lang Video Systems
Lenco Inc.
Optek Inc.
Phasecom
Hans Plisch
QSI Systems
R. E. Instruments
Rohde & Schwarz
Scientific-Atlanta
TL Systems
Tektronix
Telemet
Television Technology
Thomson-CSF
Townsend Associates
Triple Crown Electronics
Videomedia
Velec Safat
Videotek

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GTE Products Corp.
Gralex
Harris Corporation,
PRD Electronics Div.
Marconi Instruments Ltd.
Metrifast
Moseley Associates
Narda Microwave
Varian Associates
Velec Safat

QUADRATURE DISTORTION

Rohde & Schwarz
Telemet
Velec Safat

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Coaxial Dynamics
Comark Communications
Harris Corporation, Broadcast Products Division
Harris Corporation, PRD Electronics Division
Moseley Associates
Potomac Instruments
Rohde & Schwarz
Telemet
Television Technology
Texscan Corp.
Velec Safat
Vitek Electronics
Wavetek Indiana
Wide Band Engineering

VIDEO PRESENCE

AVL Digital
Channelmatic
Michael Cox
Di-tech
Graham-Patten Systems
International Microwave
Javelin Electronics
Portac
Rivers Associates
Telemet
Vidicraft
Video Aids of Colorado

DE-TUNING UNITS

BES Electronics
CSP Inc.
Dyma Engineering

DIGITAL VIDEO ANALYZER

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Apert-Herzog
NET Enterprises
Rohde & Schwarz
Tektronix

DIGITIZER, COLOR

Alford Mfg. Co.
Amtron Corporation of America
Aurora Systems
Grove Video
Gralex
Technology Service Corp.
Thomson-CSF

DIPLEXER

(See Antenna Accessories)

DISCS, VIDEO

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Arvin Echo
Eigen Video
Grove Video

Oktel Corporation
Precision/Echo Science
Tele Concepts In Communications
Thomson-CSF
U.S. JVC Corporation
Videomedia

DISPLAY UNITS, (TIME TEMP, ID)

(See Also Character Generators)
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Channelmatic
Cherry Elec. Prod. Corp.
Chrono-log Corporation
Cinema Products
Computer Video Systems
Datum
Gralex
Grove Video
EEV Inc.
ESE
Harris Corporation, Broadcast Products Division
IGM Communications
Jatex Inc.
Kajaani Oy
Logitek
Multidyne Electronics
QSI Systems
Texscan/MSI Corp.
Thomson-CSF
Torpey Controls
Unitel
Vamco Engineering
Velec Safat
Visual Methods

DIVIDERS, POWER

CSP Inc.
Comark Communications
Comtech Data
Cosmin Electronics
Crowder Communications
Dielectric Communications
Elcom-Bauer
Gardiner Communications
Harris Corporation, Broadcast Products Division
Micro Communications
Moseley Associates
Mu-Del Electronics
Narda Microwave Corp.
North Hills Electronics
Phelps Dodge Communications
Rohde & Schwarz
SED Systems
Scala Electronic
Shively Laboratories, Inc.
Television Technology
Thomson-CSF
Trompeter Electronics
Velec Safat
Wide Band Engineering

DROPOUT COMPENSATOR

Merlin Engineering
NEC America
One Pass Video
RCA Broadcast Systems
Siegel-Electronics
Studer ReVox America
John M. Sullivan Assoc., Inc.
Thomson-CSF
Video I-D
Videomedia

EARTH TERMINALS, RECEIVE ONLY

AEG-Telefunken
Ampica, Inc.
Anixter-Mark
Automation Techniques
Aydin Microwave
Blonder-Tongue Laboratories

Bonneville Satellite Corp.
California Microwave
Comad Communications
Compucon
Comtech Data Corp.
Conifer
Crowder Communications
Electrohome Ltd.
Gabriel Electronics
Gardiner Communications
Harris Corporation, Broadcast Products Division
International Microwave
Lang Video Systems
Lindsay Specialty Products
M/A-COM Video Systems
Microdyne
Microwave Communications Products
Modulation Associates
NEC America
Pinzone Communications
RF Technology
Rohde & Schwarz
SED Systems
Satcom Inc.
Scientific-Atlanta
Standard Communications
TL Systems
Television Technology
Thomson-CSF
Triple Crown Electronics
Velec Safat
Wold Communications

EARTH TERMINALS, RECEIVE/TRANSMIT

AEG-Telefunken
Anixter-Mark
Aydin Microwave
Bonneville Satellite Corp.
California Microwave
Comad Communications
Compucon
Comtec Data Corp.
Crowder Communications
Harris Corporation, Broadcast Products Division
Hughes Television Network
M/A-COM Video Systems
Microdyne Corp.
Modulation Associates
SED Systems
Scientific-Atlanta
Thomson-CSF
Varian Associates
Wold Communications

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Aston Electronic Designs Ltd.
The BTX Corporation
C-M-C Technology Corp.
Coherent Communications
Control Video Corporation
Datametrics
Datatron
Datum
EECO Incorporated
ESE
For-A Corp. of America
Gray Engineering Labs
Jatex Inc.
Kaitronics
NET Enterprises
Shintron
Skotel Corporation
Telcom Research
Unemco International
United Media
Videomedia

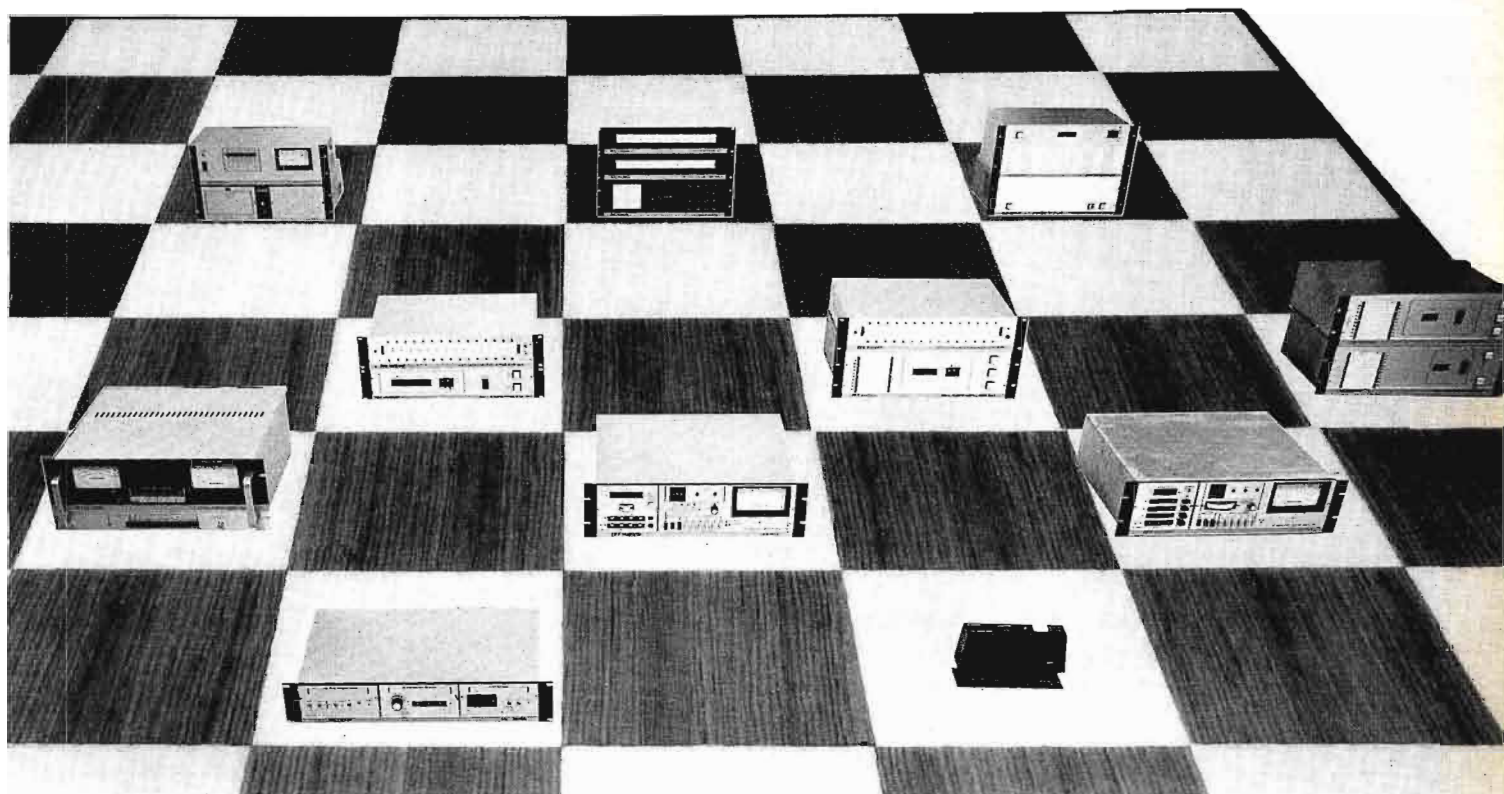
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The BTX Corporation
C-M-C Technology Corp.
Coherent Communications
Control Video Corporation
Convergence

Continued on page 78



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Since 1970, TFT, Inc. has been a pioneer in state-of-the-art broadcast technology. As such, we have been able to always keep one move ahead in cost-effective design to provide reliable, versatile and innovative products to the broadcast industry.

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EECO Incorporated
ESE
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Gray Engineering Labs Inc.
Jatex
Kaltronics
Shintron
Skotel Corporation
Steenbeck
Telcom Research
Thomson-CSF
Torpey Controls & Engineering
Unemco International
United Media

EDITOR, AUDIO

The BTX Corporation
Control Video Corp.
Datatron
EECO Inc.
Editall Corp.
Jatex
Leader Broadcast Systems
Musiques
Quad-Eight Electronics
Scantex Laboratories
Steenbeck
United Media

EDITOR, FILM

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Cinema Products
Compro Productions
Datatron
J&R Film Co., Inc.
K B Systems
Kalarit Victor Corporation
Leedal
3M Company, Video Products
Magnasync / Moviola
Mobile Visual Productions
Neumade Products
New Earth TV Works
PAG Films Ltd.
Paulmar
Research Technology Int'l.
Scantex Laboratories
Steenbeck
Thomson-CSF
Unidek Film Editing Systems
Videomedia
The Virginia Company

EDITORS, VIDEO

CCTV / INDUSTRIAL
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BCB Electronic Sales
CMX/Orron
Cezar International, Ltd.
Cinema Products
Control Video Corp.
Convergence
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Datatron
EMS Inc.
General Television Network
Harris Video Systems
Jatex
Javelin Electronics
3M Company
Panasonic Industrial
Portac
Sait Electronics
Sony Corp. of America
Thomson-CSF
U.S. JVC Corporation
Unemco International
United Media
Videomedia/S.E.D.

ENG / FIELD PRODUCTION

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Cezar International
Control Video Corp.
Michael Cox

Crow of Reading Ltd.
Harris Video Systems
Panasonic
Sony
US JVC Corporation
Video I-D
Videomedia

STUDIO PRODUCTION

Adwar Video
Ampex
BCB Electronic Sales Ltd.
BTX Corp.
Robert Bosch GmbH
Television Systems Div.
Cezar International, Ltd.
CMX / Orron
Compro Productions
Control Video Corp.
Convergence
Michael Cox
Crow of Reading Ltd.
Datatron
EECO Incorporated
Fernseh
General Television Network
Harris Corp.,
Broadcast Products Div.
Interface Video Systems
Jatex
3M Company
Microvision
New Earth Television Work
System, Ltd.
Panasonic
RCA Broadcast Systems
Scantex Laboratories
Thomson-CSF
Tore Seem
Unemco International
United Media Inc.
U.S. JVC Corp.
Video I-D
Videomedia

EFFECTS SYSTEM, DIGITAL VIDEO

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Adwar Video
Ampex
Aurora Systems
Robert Bosch GmbH
Television Systems Div.
Broadcast Video Systems
Central Dynamics Ltd.
Colorado Video
Convergence
Data Communications
Digital Video Systems
The Grass Valley Group
Grove Video
Harris Video Systems
Interand
MCI/Quantel
NEC America Inc.
Broadcast Equipment
Precision/Echo Science
Quantel Limited
Texscan/MSI Corporation
Thomson-CSF
Video I-D
Videomedia
Vital Industries

ELECTROMAGNETICS FOR KLYSTRON TUBES

Thompson-CSF
Varian Associates

ENCODERS

CLOSED CAPTIONING
EEG Enterprises
Logica

COLOR VIDEO

Asaca/Shibasoku
Broadcast Video Systems
Cezar International
Cohu, Electronics Division

Michael Cox
Fernseh
For-A Corporation
Grove Video
Harris Corporation, Broadcast
Products Division
Ikegami
Jatex
Jerrold Div., General Instrument
Lenco
Marcom Communication Systems Ltd.
Marconi Electronics, Inc.
MPB Technologies
QSI Systems
Siegel - Electronics
Thomson-CSF
Videomedia

TONE

AEG-Telefunken
(Bayly Engineering)
American Microsignal
Bogen Division / Lear
Sieglar, Inc.
Cetec Vega
Channematic
Comex Systems
Communications Control Centers
Deltamod
Di-tech
Edcor
Frequency Devices
Gorman Redlich
IGM Communications
McMartin Industries
Monroe Electronics, Inc.
Motorola Communications &
Elect.
Rivers Associates, Inc.
Trepac Corporation of America

EBS

Broadcast Electronics
ESE
Gorman-Redlich Mfg. Co.
International Nuclear Corp.
Johnson Electronics
McMartin Industries
Rivers Associates

ENHANCERS, VIDEO IMAGE

Adwar Video
Asaca/Shibasoku
Robert Bosch GmbH
Cohu, Electronics Division
Composite Video
Consolidated Video
Crow of Reading Ltd.
Edutron
Faroudja Laboratories
Fernseh Inc.
Grove Video
Harris Video Systems
Ikegami
Lectrotech, Inc.
Listec Television Equipment Corp.
Microtime
Piclear, Inc.
Siegel - Electronics
Simon Associates
John M. Sullivan Associates
Thomson-CSF
Video I-D
Video Optics
Video Products/3M
Vidicraft

ENHANCERS, STEREO PHASE

ATI Audio Technologies Inc.
Audionics of Oregon
Kintek
Howe Audio Marketing
Rupert Neve
Orange County

EQUALIZERS

AUDIO
ADM Technology

AEG-Telefunken,
(Bayly Engineering)
ATI Audio Technologies Inc.
Amek TAC
American Data
Apex Systems Ltd.
Audio & Design Recording
Audio Processing Systems
Audisar
Audix Ltd.
Bogen Division / Lear
Sieglar, Inc.
Broadcast Electronics
Broadcast Technology
C-Cor Electronics
Composite Video
Continental Electronics Mfg.
Crown International
Datatronix
Dolby Labs
Dukane Corp.
Dyma Engineering
Electro-Voice/EV Tapco
Electroline Television Equipment
Elektroimpex
Enertec Schlumberger
Farrtronics
Frequency Devices
Georg Neumann GwBH
Hammond Industries
Harrison Systems
IBX Inc.
IGM Communications
Integrated Sound GLI Div.
International
Electro-Magnetics, Inc.
Ivle Electronics
Kahn Communications
Kintec
Klar-Teknik Research Ltd.
Leader Broadcast Systems, Inc.
Leevers Rich Equipment Ltd.
MXR Innovations, Inc.
McCurdy Radio
McMartin Industries
Modular Audio Products
NTP Elektronik A/S
Rupert Neve
Georg Neumann
Opamp Labs
Orban Associates
Processing Plus
ProTech Audio Corporation
Pulse Techniques Inc. (Pultec)
Quad-Eight Electronics
Ramko Research
Research Systems Tech., Inc.
Richard Sound Design
C.N. Rood B.V.
SAE
Sescom, Inc.
Shure Brothers
Siemens Ag Osterreich
Sontec Electronics
Sound & Light Co.
Spectra Sonics
Spectrum Instruments
Sphere Electronics
John M. Sullivan Associates
Superex Electronics Corp.
TOA Electronics
TTE Inc.
Tascam, Div. of Teac
Tri Tec Systems Inc.
Tweed Audio USA, Inc.
UREI
Valley People
VIF International
Ward-Beck Systems
White Instruments

VERTICAL APERTURE
Electroline Television Equipment
Thomson-CSF

VIDEO

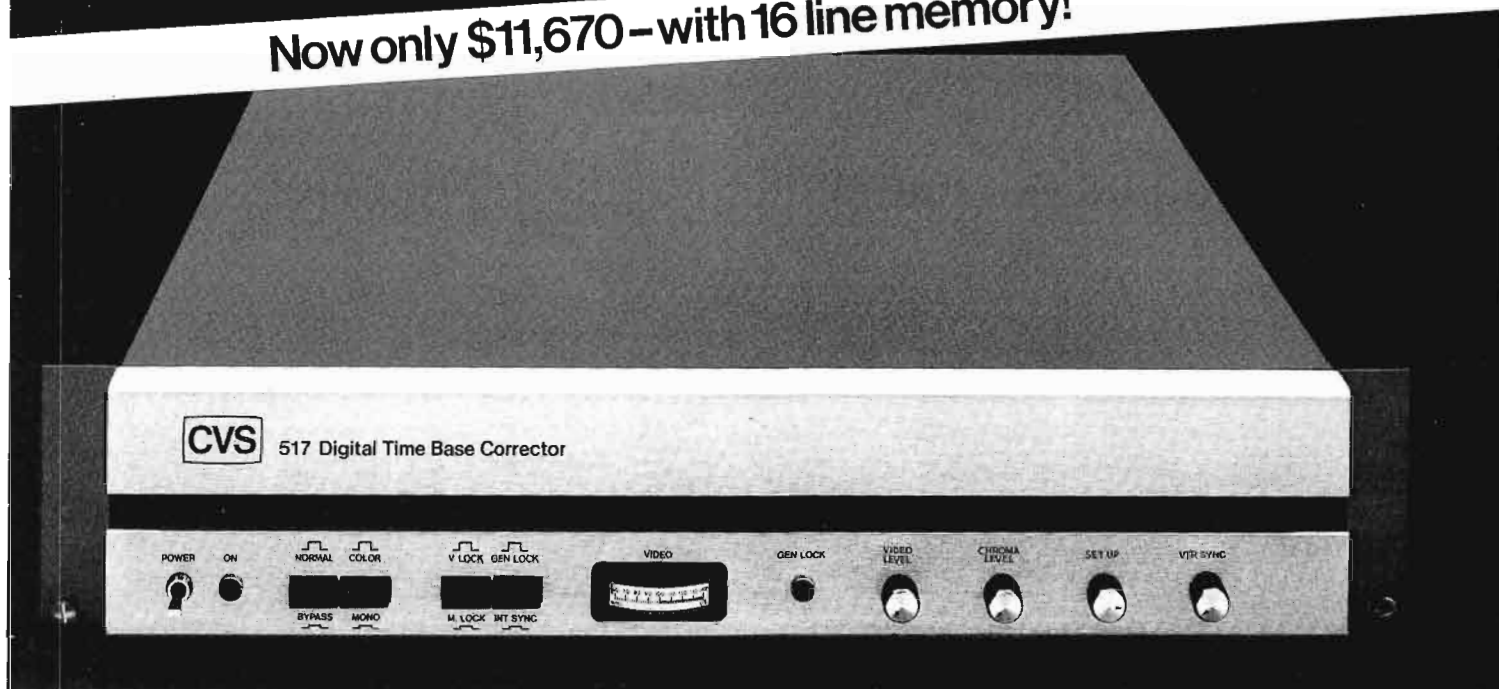
AVL Digital Ltd.
Allen Avionics
American Data
Robert Bosch GmbH
CMC technology Corporation
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C-Cor Electronics
Composite Video
Michael Cox
Datalek

Continued on page 80

For Pal/SECAM heterodyne VTRs

The advantages of component-coding in a proven, digital TBC

Now only \$11,670—with 16 line memory!



Recently, many experts have called for a digital standard based on component coding.

At Harris, we agree. We've been using it in our digital time base correctors since 1976 when, as Consolidated Video Systems, we introduced the CVS 517.

Today, the CVS 517 is acknowledged as the most versatile and effective TBC available — proven in over 500 installations.

The 517's unique architecture processes the video signal in *component* form instead of in *composite* form. This component coding technique results in a system that is inherently immune to color phasing problems and horizontal picture shift, or "cycle jump."

In addition, you receive real benefits in your day-to-day operation:

- Inherent immunity to color subcarrier editing problems.

- Excellent time base correction because there is no need to track the jittering subcarrier.
- Improved odd field and rough edit processing.
- Chroma noise reduction of 3db, without degradation of the luminance component.
- Better signal-to-noise ratio than composite systems with the same bit rate.

What's more, the CVS 517 features, as standard equipment: one-cable gen-lock, a DOC and a full proc amp with auto preset controls.

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For details and a demonstration, contact your Authorized HVS Distributor, or the HVS office nearest you.

**Be sure to ask for our free
booklet about the basics of
time base correction.**



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GBC Closed Circuit TV Corp.
The Grass Valley Group
HEDCO
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International Nuclear Corp.
Javelin Electronics
Leitch Video
Lenco
Link Electronics
Multidyne Electronics
Opamp Labs
Pro Bel Ltd.
Superex Electronics Corp.
Telemet, Div. of Geotel
Television Equipment Associates
Thomson-CSF
TTE Inc.
Vital Industries

EQUIPMENT BUILDINGS PREFABRICATED

Fort Worth Tower Co.
Harris Corporation
Portatronics

EQUIPMENT CARRYING SYSTEMS

CASES
A&S Case Co.
Adwar Video
Anvil Cases
William Bal Corporation
Bardwell & McAllister
David H. Brothers, Co.
Calzone Case Co.
Cases Inc.
Comprehensive Video Supply
Environmental Containers
Systems Inc.
Excalibur Industries
Fiberbilt
The Great American Market
Harris Corp./Farinon Video
Impact Case Sales Limited
K&H Products
Leader Broadcast Systems
Lowel-Light Mfg. Co.
Nalpak Sales
O'Connor Engineering Labs
Panasonic
Panoak Lighting Systems
Portatronics
Research Technology Int'l.
See Hear Industries
Sharp Electronics
Simon Associates
Thermodyne International Ltd.

CASES WITH WHEELS
A&S Case Co.
Adwar Video
Anvil Cases
William Bal Corporation
Bardwell & McAllister
Calzone Case Co.
Cases Inc.
Environmental Container
Systems Inc.
Excalibur Industries
Fiberbilt
The Great American Market
K&H Products
Leader Broadcast Systems
Nalpak Sales
PAG Group
Portatronics
Schuessler Case
Sharp Electronics
John M. Sullivan Associates
Thermodyne International Ltd.

DOLLIES
Adwar Video
Anvil Cases
Bardwell & McAllister

Bretford Mfg.
Comprehensive Video Supply
Excalibur Industries
Fiberbilt
GKM Manufacturing Corp.
Gruber Products
Harris Corporation
K&H Products
Leader Broadcast Systems
Lee-Ray Industries
PAG Group
Portatronics
Roll-A-Reel Co.
Stantron Div. of Wyco
Metal Products
John M. Sullivan Associates

EXCITERS

AM EXCITER
Acrodyne
Bayly Engineering
Comad Communications
Continental Electronics Mfg.
Elcom Specialty Products
Harris Corporation, Broadcast
Products Division
LPB Inc.
McMartin Industries
Rohde & Schwarz GmbH & Co. KG
Rohde & Schwarz
Singer Products Inc.
Scientific-Atlanta
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Versa - Count
Wilkinson Electronics

AM STEREO
Belar Electronic Labs
Comad Communications
Continental Electronics Mfg.
Elcom Specialty Products
Harris Corporation, Broadcast
Products Division
Kahn Communications
McMartin Industries
Motorola Inc. Special Products
Processing Plus
Rohde & Schwarz GmbH & Co. KG
Rohde & Schwarz
Tramec Electronics

FM EXCITER
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Acrodyne
Broadcast Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
CSI Inc.
Crowder Communication
Elcom Bauer
Harris Corporation, Broadcast
Products Division
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McMartin Industries
Moseley Associates
NEC America, Inc.
Broadcast Equipment
QEI Corp.
RCA Broadcast Systems
Rockwell International
Rohde & Schwarz
C.N. Rood B.V.
Singer Products Inc.
Scientific-Atlanta
Solid Electronics Laboratories
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Versa - Count
Wilkinson Electronics

FM STEREO
AEG-Telefunken
(Bayly Engineering)
Broadcast Electronics
Comad Communications
Continental Electronics Mfg.
Crowder Communications
Elcom Specialty Products
Elcom Bauer
Fung Engineering Labs Inc.

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McMartin Industries
Marconi Electronics, Inc.
Moseley Associates
NEC America Inc.
Broadcast Equipment
Orban Associates
Pyramid Loudspeaker
QEI Corp.
RCA Broadcast Systems
Rohde & Schwarz GmbH
& Co KG
Rohde & Schwarz
C.N. Rood B.V.
Singer Products Inc.
Solid Electronics Laboratories
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Versa - Count

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Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
Elcom Specialty Products
Elcom Bauer
Harris Corporation, Broadcast
Products Division
McMartin Industries
Moseley Associates
QEI Corp.
Rohde & Schwarz
C.N. Rood B.V.
Solid Electronics Laboratories
Versa - Count

FIBER-OPTIC TRANSMISSION SYSTEM

AEG-Telefunken
(Bayly Engineering)
American Laser Systems
Arel Communications
Belden
Robert Bosch GmbH,
Television Systems Div.
Catel, Div. of United Scientific
Foundation Electronic Instruments
GTE Products Corp.
The Grass Valley Group
ILC Data Device Corp.
LeCroy Research System
M/A-COM Video Systems
Moseley Associates
NEC America Inc.
R. E. Instruments
Standard Telephon UND Radio
Telemet, Div. of Geotel
Thomson-CSF
Times Fiber Communications

FIBER OPTIC FOTOR

Tektronix

FIELD VIDEO SETUP MODULE

Altha Video & Elect. Corp.
Cinema Products
Lang Video Systems
One Pass Video
Porta-Pattern Telecommunications
John M. Sullivan Associates

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8mm/16mm
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Compro Productions
The Durafilm Co.
Eastman Kodak
Goldberg Bros. Inc.

Houston Pearlless 76 Inc.
J&R Film Co. Inc.
K B Systems
Leo Diner Film
Magna-Tech Electronic Co., Inc.
Magnasync/Moviola
Mobile Visual Productions
Optical & Textile
PAG Films Ltd.
W.A. Palmer Films
Paulmar Inc.
Rangertone Research Inc.
Rank Cintel
Schuessler Case
Starex Inc.
Unidek Film Editing Systems
The Zei-Mark Corp.

DUBBING SYSTEMS

Magna-Tech

REWINDERS

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J&R Film Co., Inc.
K B Systems
Kalart Victor Corporation
Kinetronics Corporation
Lipsner-Smith
Magnasync/Moviola
Neumade Products
PAG-Group
Paulmar Inc.
Research Technology, Int'l.
Sigma Film Equipment

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Eastman Kodak
Image Transform
K B Systems
Leo Diner Films
Lipsner Smith Co.
Magna-Tech Electronic
Magnasync/Moviola
Multi-Track Magnetics
PAG-Films Ltd.
W.A. Palmer Films, Inc.
Rangertone Research Inc.
Rank Cintel
E.J. Stewart Inc.

TO VIDEOTAPE TRANSFER

Adwar Video
Cinema Products
Eastman Kodak
Image Transform, Inc.
Interface Video Systems, Inc.
Leo Diner Films
Lipsner Smith, Co.
One Pass Video
Magnasync/Moviola
Mobile Visual Productions
Multi-Track Magnetics
W.A. Palmer Films
Piclear Inc.
Quad Eight
Rank Cintel
E.J. Stewart, Inc.
Thomson-CSF
Video Dub
The Zei-Mark Corp

FILM CHAIN LIGHT CONTROL

BEI (Beston Electronics)
Elicon
Industrial Sciences Inc. (ISI)
Laird Telemet, Inc.
Lipsner Smith, Co.
The Zei-Mark Corp.

FILM CHAIN SYSTEMS

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Buhl Optical
Cohu, Electronics Division
Fernseh Inc.
Global Video Comm. Corp.

Continued on page 82

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3CX2500A3.....	426.00
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3CX3000F1.....	495.00
3CX3000F7.....	602.00
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3CX15000A7.....	1330.00
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4CX250BC.....	68.00
4CX250K.....	120.00
4CX250R.....	87.00
4CX300A.....	175.00
4CX350A.....	105.00
4CX350F.....	118.00
4CX1000A.....	365.00
4CX1000K.....	450.00
4CX1500A.....	579.00
4CX1500B.....	460.00
4CX3000A.....	862.00
4CX5000A.....	1018.00
4CX10000D.....	1175.00
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TRANSMITTING TUBES

5-500A.....	225.00
575A.....	27.00
673.00.....	35.00
802.....	27.50
805.....	50.00
807.....	5.50
810.....	60.00
813.....	40.00
816.....	5.25
828.....	80.00
833A.....	80.00
866A.....	6.80
872A.....	15.50
889RA.....	1775.00
891R.....	2220.00
892R.....	2200.00
4055V I.....	105.00
5762.....	910.00
5879.....	4.00
5924A.....	795.00
5933.....	15.25
6076.....	540.00
6076A.....	625.00
6146A.....	7.25
6146B.....	7.50
6155.....	70.00
6156.....	70.00
6161.....	395.00
6166A(7007).....	2220.00
6696A.....	2790.00
6697A.....	2900.00
ML7007A.....	3390.00
7237A.....	525.00
7527.....	110.00
7527A.....	160.00
8008.....	16.00
8122.....	82.00
8791VI.....	405.00
8792VI.....	725.00
8873.....	185.00
8874.....	185.00
8875.....	185.00
8890.....	2400.00
8891.....	3300.00
8916.....	3100.00
8985.....	1600.00
8986.....	1225.00

CAMERA TUBES

BC4390 series.....	\$1820
BC4391 series.....	2140
BC4392 series.....	2270
BC4393R.....	2460
BC4394.....	2460
BC4532U.....	1325
BC4592 series.....	2195
BC4593R.....	2350
BC4594 series.....	2350
BC4809.....	720
BC4809B.....	720
BC4908 series.....	1875
BC4909.....	1955
BC4992 series.....	2280
BC4993R.....	2460
BC4994 series.....	2460
5820A L.....	3060
7295C.....	2835
7389C.....	2855
BC7735.....	240
BC8134.....	810
BC8134B.....	775
8480.....	1315
BC8480.....	1945
BC8507.....	270
BC8541.....	270

VIDICONS FOR CCTV

20PE11.....	26.25
20PE13A.....	26.25
20PE14.....	28.35
20PE19/S4097.....	28.35
20PE20/S4097A.....	28.35
4532U.....	285.00
7262A.....	30.35
7735A.....	30.85
7735B.....	165.00
8134.....	294.00
8507.....	150.00
8507A.....	245.00
8541.....	40.00
8541B.....	50.00
8758A.....	45.00
8823.....	30.00
8844.....	26.25
8929.....	30.00
S4075.....	279.50
S4076.....	318.50
S4092.....	299.00
S4102.....	305.00
S4113.....	344.00
S4119.....	403.00
S4140.....	403.00

AIR SYSTEM SOCKETS

SK-300.....	470.00
SK-300A.....	325.00
SK-310.....	380.00
SK-400.....	235.00
SK-410.....	32.00
SK-500.....	336.00
SK-510.....	32.50
SK-600.....	47.00
SK-600A.....	46.25
SK-602.....	68.00
SK-602A.....	72.00
SK-607.....	56.00
SK-610.....	52.00
SK-610A.....	60.00
SK-611.....	41.00
SK-612.....	72.00
SK-620A.....	59.00
SK-630A.....	61.00
SK-640.....	34.00
SK-650.....	35.00
SK-1300.....	319.00
SK-1310.....	336.00
SK-1320.....	366.00
SK-1400A.....	430.00
SK-1420.....	570.00
SK-1470A.....	555.00
SK-1490.....	522.00
SK-1500A.....	984.00
SK-1510A.....	1149.00
SK-1920.....	19.00
SK-2200.....	76.00
SK-2210.....	64.00
SK-2220.....	292.00
SK-655.....	36.00
SK-660.....	37.00
SK-660A.....	35.00
SK-700.....	216.00
SK-710.....	207.00
SK-711A.....	207.00
SK-712A.....	207.00
SK-740.....	72.00
SK-760.....	72.00
SK-761.....	72.00
SK-770.....	80.00
SK-800B.....	240.00
SK-810B.....	260.00
SK-820.....	565.00
SK-830A.....	540.00
SK-831.....	286.00
SK-840.....	340.00
SL-860.....	207.00

AIR SYSTEM SOCKETS

SK-890B.....	234.00
SK-900.....	283.00

CHIMNEYS

SK-3096.....	25.00
SK-316.....	25.00
SK-406.....	57.00
SK-416.....	27.00
SK-506.....	85.00
SK-516.....	105.00
SK-606.....	10.00
SK-626.....	10.00
SK-636B.....	29.00
SK-646.....	58.00
SK-656.....	58.00
SK-806.....	31.00
SK-816.....	27.00
SK-906.....	44.00
SK-1306.....	37.00
SK-1406.....	32.00
SK-1426.....	35.00
SK-2216.....	48.00

SOLID STATE REPLACEMENTS FOR VACUUM TUBE RECTIFIERS

ASSR-1010 575A.....	35.00
ASSR-1011 673.....	50.00
ASSR-1013 866A, 866AX, 3B28.....	9.00
ASSR-1014 872A, 872AX, 4B32.....	30.00
ASSR-1015 8008, 8008XE.....	35.00

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Complete lines of major
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Circle (46) on Action Card

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Broadcast Products Div.
Ikegami
Image Devices
Kalart Victor Corporation
Laird Telemedia
Lipsner Smith Co.
Magnasync/Moviola Corp.
Marconi
NEC America
Nytone Electronics Corporation
Phillips Broadcast Group
RCA Broadcast Systems
Radmar
Rangertone Research
Rank Cintel
RCA Broadcast Systems
Video I-D
Westrex
Zel-Mark Corporation

FILTERS

ACTIVE

ADM Technology
ATI Audio Technologies Inc.
Amek TAC
Aphex Systems
Audio & Design Recording
Composite Video
dbx Inc.
Dyma Engineering
Electroline Television Equipment
Elektroimpex
Frequency Devices
Ivie Electronics
ILC Data Device Corp.
Lipsner Smith Co.
Georg Neumann GwBH
Rupert Neve
Georg Neumann
Potomac Marine & Aviation
Quad-Eight Electronics
Research Systems Tech., Inc.
Richard Sound Design
C.N. Rood B.V.
Sescom, Inc.
Sontec Electronics
Spectrum Instruments
Spectra Sonics
TT Electronics
VIF International
White Instruments

ANTENNA

Alford Mfg. Co.
Antennas for Communications
Bird Electronics
Coaxial Dynamics
Continental Electronics Mfg.
Dielectric Communications
Dyma Engineering
Elcom-Bauer
Electroline Television Equipment
The Finney Company
Harris Corporation, Broadcast
Products Division
Kathrein-Werke AG
Lipsner Smith Co.
Micro Communications
Phelps Dodge Communications
RMS Electronics
Rohde & Schwarz
Shively Laboratories
Triple Crown Electronics
TT Electronics
VTE Microwave Inc.
Vidaire Electronics Mfg.

NOISE

Audio & Design Recording
Beaveronics
Broadcast Video Systems
Computer Business Systems
Electroline Television Equipment
Fernseh
Frequency Devices
Lightning Elimination Associates
Lipsner Smith Co.
Jatex
Nurad Inc.
Ramko Research
Rohde & Schwarz
C.N. Rood B.V.
Spectra Sonics
TT Electronics

Vidaire Electronics Mfg.

PASSIVE

AEG-Telefunken,
(Bayly Engineering)
AMP Inc.
AVL Digital Ltd.
Allen Avionics
Altec Lansing
Anderson Laboratories
Antennas for Communications
Audio & Design Recording
Audio-Video Engineering Co.
Bird Electronics
Blonder-Tongue Laboratories
Coastcom
Coaxial Dynamics
Comark Communications, Inc.
Compac Development Corp.
EFI
ESC Electronics
Electroline Television Equipment
The Finney Company
ILC Data Device Corp.
Jerrold Div.,
General Instrument
Lightning Elimination Assoc.
Lipsner Smith Co.
Modulation Associates
Mu-Del Electronics
North Hills Electronics
Phelps Dodge Communications
Potomac Instruments
Potomac Marine & Aviation
Quad-Eight Electronics
C.N. Rood B.V.
Sescom
Shure Brothers
Tepco Corp.
TT Electronics
Vitek Electronics
White Instruments

VARIABLE / FIXED

ADM Technology
Audio & Design Recording
Barker & Williamson Inc.
Coaxial Dynamics
ESC Electronics
Frequency Devices
ILC Data Device Corp.
International Microwave Corp.
Lipsner Smith Co.
North Hills Electronics
Potomac Instruments
ProTech Audio
Pulse Techniques Inc. (Pultec)
Quad-Eight Electronics
Richard Sound Design
Research Systems Tech. Inc.
Sescom
Spectrum Instruments
Texscan Corp.
TT Electronic Inc.
White Instruments Inc.

VIDEO

AVL Digital Ltd.
Allen Avionics
Anderson Labs
Audio-Video Engineering Co.
Broadcast Video Systems
Catek
Datek
ESC Electronics
Faroudja Laboratories
ILC Data Device Corp.
Lipsner Smith Co.
Modulation Associates
Rohde & Schwarz
TT Electronics, Inc.
Thomson-CSF
Tiffen Mfg. Corp.
Vidaire Electronics Mfg.

FRAME STORE SYNCHRONIZERS

Adda Corporation
Apert-Herzog
Arvin Echo
Asaca/Shibasoku
BCB Electronic Sales Ltd.
Digital Video Systems
EEOC Inc.

Harris Video Systems
Harris Corp.,
Broadcast Products Div.
MCI/Quantel
Microtime
NEC America Inc.
Broadcast Equipment
Quantel Ltd.
RCA Broadcast Systems
Thomson-CSF

FRAME / FIELD STORE, DIGITAL

Adda Corporation
Apert-Herzog
Arvin Echo
Asaca/Shibasoku
Aurora Systems
Robert Bosch GmbH,
Television Systems Div.
Colorado Video
Digital Video Systems
Eigen Video
Fernseh Inc.
Grove Video
Harris Corp., Broadcast Products
Harris Video Systems
Logica
MCI/Quantel
Merlin Engineering
Microtime
MPB Technologies
NEC America, Inc.
Broadcast Equipment
Phase Video Inc.
Quantel Ltd.
RCA Broadcast Systems
Rohde & Schwarz
Thomson-CSF
Vital Industries

FRAMES & RACKS

Amco Engineering
Artel Communications Corp.
Bayly Engineering
Bud Industries
Broadcast Electronics
Cases Inc.
Centro Corp.
David H. Brothers Co.
Digital Video Systems
Dell Technical Vehicles
Dyma Engineering
Dynair
Enclosure Corp.
Encor Products
GBC Closed Circuit TV Corp.
GF Business Equipment
GKM Manufacturing Corp.
Grinnan Fixture
HSC Incorporated
Hammond Industries
Micro-Trak
Modular Audio Products
Panoak/B-W Lighting System
Research Technology Int'l.
Stantron
Straight Wire Audio
Vector Electronic Co.
Winsted Corp.
Wyco Metal Prod.

FURNITURE & CABINETRY, STUDIO

Amco Engineering
Audiotronics
Bretford Mfg.
Broadcast Audio Corp.
David H. Brothers Co.
Bud Industries
Calzone Case Co.
Centro Corp.
Dell Technical Vehicles
Dyma Engineering
Dynamic Technology Ltd.
Electro-Acoustic Designs
Emcor Products/GF Business
Equipment
Encor Products

The Graphic Express
Grinnan Fixture
HSC Incorporated
Hammond Industries
Harris Corp.
Broadcast Products Div.
IGM Communications
Kreonte
Leader Broadcast Systems
Leedal
McCurdy Radio Industries
Mirco-Trak
Pacific Recorders & Engineering
Panoak Lighting Systems
Rack Techniques
Rangertone Research Inc.
Research Technology Int'l.
Ruslang Corp.
Strantron, Div. of Wyco
Uniset Corp.
Winsted Corporation

GENERATORS

AF

Amber Electro Design
Audisair
Bald Mountain Lab
CMC Technology Corp.
California Instruments
Comex Systems
Elektroimpex
Georg Neumann GwBH
Kajaani Oy
Leader Broadcast Systems
Leader Instruments
Modular Audio Products
Georg Neumann
Opamp Labs
Potomac Instruments
Potomac Marine & Aviation
Quad-Eight Electronics
Rohde & Schwarz
Sescom
Siemens AG Osterreich
Spectra Sonics
Tektronix
VIZ Mfg. Co.
White Instruments Inc.
Xedit Corporation

BACKGROUND COLOR

American Data
Asaca/Shibasoku
Automation Techniques
Beaveronics
Robert Bosch GmbH
Broadcast Video Systems
C-M-C Technology Corp.
Cezar International
Michael Cox
Crosspoint Latch Corp.
Crow of Reading Ltd.
Elektroimpex
Graham-Patten Systems
The Grass Valley Group
Harris Corporation, Broadcast
Products Division
Image Video Limited
Industrial Sciences, Inc. (ISI)
International Nuclear Corp.
Lang Video Systems
Lenco
Shintron
John M. Sullivan Associates
Texscan/MSI Corporation
Thomson-CSF
Vital Industries

BURST

American Data
Automation Techniques, Inc.
Robert Bosch GmbH
Don Britton Ent.
Broadcast Video Systems
Michael Cox
C-M-C Technology Corp.
Canter-Redman Technologies
Crosspoint Latch
Crow of Reading Ltd.
Dynair Electronics
Fernseh Inc.
Graham-Patten Systems
Harris Corporation, Broadcast
Products Division

Continued on page 84

Profitable in-house production starts with the right system.

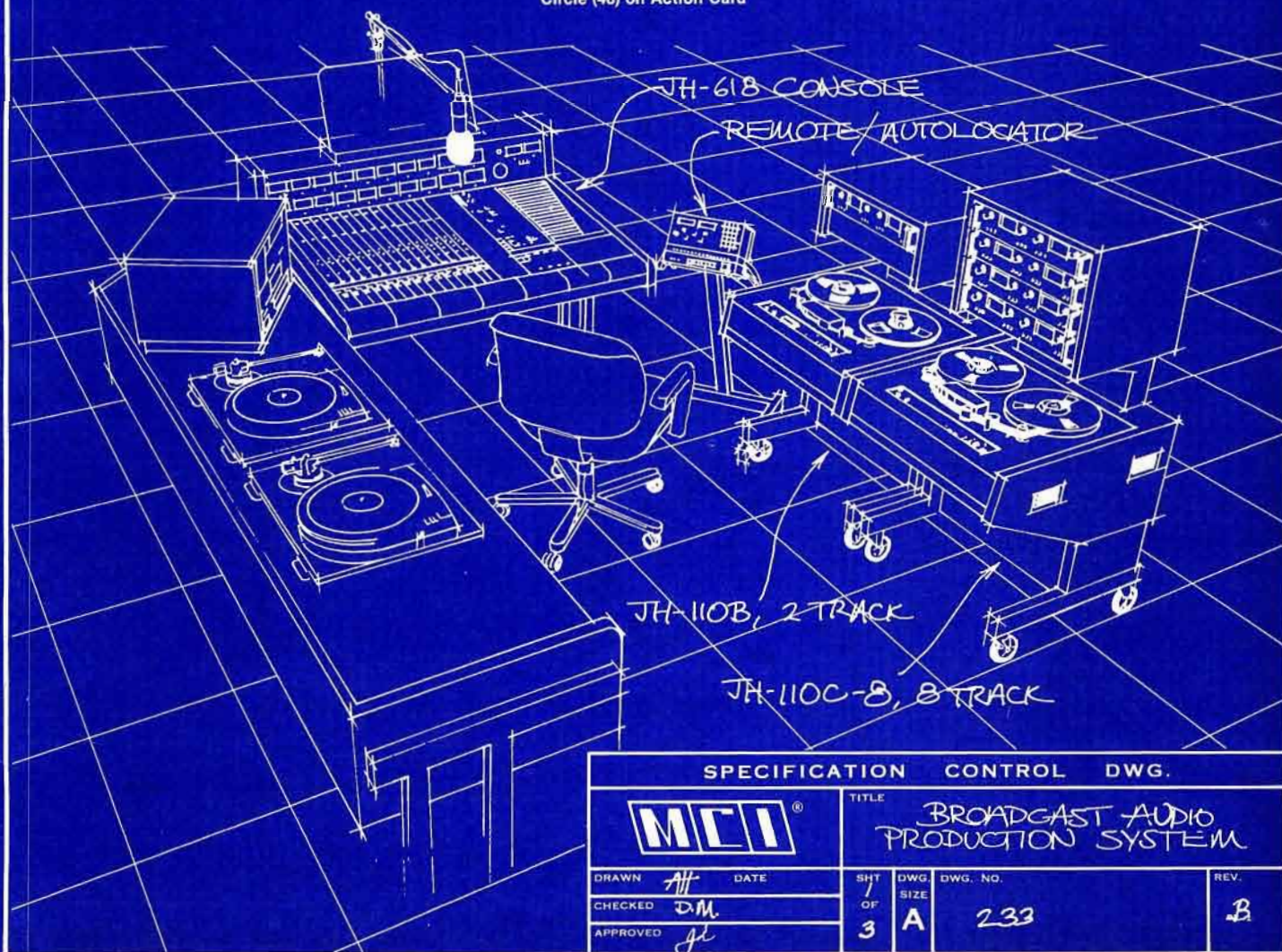
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Time was when you could get by on in-house production with a couple of beat-up tape recorders and a turntable. But audiences and advertisers of today are demanding more. And that means a total production system that allows you to do everything from overdubbing and track bouncing to live multitrack recording. Now the company that has equipped more award winning studios than any other has designed a Total Production Package priced within your budget. You get an 8-track recorder, 2-track recorder and a studio quality console with

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SPECIFICATION				CONTROL		DWG.	
			TITLE BROADCAST AUDIO PRODUCTION SYSTEM				
DRAWN <i>AH</i>	DATE	SHT OF 3	DWG. SIZE A	DWG. NO. 233		REV. B	
CHECKED <i>D.M.</i>							
APPROVED <i>HL</i>							

Industrial Sciences, Inc. (ISI)
International Nuclear Corp.
Jatex Inc.
Leader Instruments Corp.
Leitch Video
Lenco
Marconi Electronics, Inc.
Multidyne Electronics
NTP Elektronik A/S
Philips Test & Measuring
QSI Systems
Thomson-CSF
Video Aids of Colorado
Vital Industries

COLOR PATTERN

Philips Test & Measuring

COLOR SYNC

Asaca/Shibasoku
Aston Electronic Developments
Robert Bosch GmbH
Broadcast Video Systems
Michael Cox
Crosspoint Latch Corp.
Crow of Reading Ltd.
Dynair Electronics
ECHOlab, Inc.
Elektrolmex
Fernseh Inc.
Graham-Patten Systems
The Grass Valley Group
Harris Corp., Broadcast Products
Ikegami
Industrial Sciences Inc. (ISI)
Lang Video Systems
Leader Instruments Corp.
Leitch Video
Lenco
Link Electronics
3M Company
Marconi Electronics, Inc.
Multidyne Electronics
Panasonic
Phase Video Inc.
Philips Test & Measuring
QSI Systems
Rohde & Schwarz
Shintron
Siegel - Electronics
Sigma Electronics
John M. Sullivan Associates
Tektronix
Thomson-CSF
Videcom Engineering
Video Aids of Colorado

CONVERGENCE

Amtron Corp.
Crow of Reading
Harris Corporation, Broadcast
Products Division
Leader Instruments Corp.
Lectrotech
Leitch Video
Lenco
Multidyne Electronics
Philips Test & Measuring
Rohde & Schwarz
Sigma Electronics
Tektronix
Telmet
Videomedia

RF

ATV Research
Asaca/Shibasoku
Boonton Electronics Corp.
Delta Electronics
John Fluke Mfg. Co., Inc.
Javelin Electronics
Lang Video Systems
Leader Instruments
Marshall Electronics
Moseley Associates
Motorola Communications & Elect.
Potomac Instruments
Rohde & Schwarz
John M. Sullivan Associates
Thomson-CSF
VIZ Mfg. Co.
Wavelek Indiana

SYNC, TV

Asaca/Shibasoku
Aston Electronic Developments
Automation Techniques, Inc.

Broadcast Video Systems
Cinetronics
Michael Cox
Crosspoint Latch Corp.
Crow of Reading Ltd.
Digital Video Systems
Dynair Electronics
Echo Lab
Fernseh
Fortel
Graham-Patten Systems
The GBC Closed Circuit TV Corp.
Grass Valley Group
Harris Corp., Broadcast Products
Ikegami
Industrial Sciences Inc. (ISI)
Lang Video Systems
Leader Instruments
Leitch Video
Lenco
Link Electronics
Marconi Electronics
Multidyne Electronics
Philips Test & Measuring
Philips Broadcast Group
QSI Inc.
Rohde & Schwarz
Shintron
Sigma Electronics
Tektronix
Telemet
Thomson-CSF
Video Aids of Colorado
Viscount Industries

SUBCARRIER, FM

ATV Research
Broadcast Electronics
Catel (Division of United Scientific)
Cetec Broadcast Group
Harris Corp. Broadcast Products
Leader Broadcast Systems, Inc.
McMartin Industries
Micro Control Associates
Modulation Assoc.
Moseley Associates, Inc.
Philips Test & Measuring
Rohde & Schwarz
C.N. Rood B.V.
Solid Electronics Laboratories
Tektronix
Tepco

SCA

Broadcast Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
Harris Corp., Broadcast Products
McMartin Industries
Moseley Associates
QEI Corp.
Rohde & Schwarz
C.N. Rood B.V.
Solid Electronics Laboratories
Swintek Enterprises
Versa-Count

SPECIAL EFFECTS

American Data
Asaca/Shibasoku
Aurora Systems
Beaveronics
Broadcast Video Systems
Central Dynamics Ltd.
Colorado Video
Convergence
Michael Cox
Crosspoint Latch Corp.
Crow of Reading Ltd.
Digital Video Systems
Dubner Computer Systems
Dynair Electronics, Inc.
Echo Lab
Graham-Patten Systems
Grass Valley Group
Grove Video
Industrial Sciences Inc. (ISI)
Interand
Lang Video Systems
3M Video Products
MCI/Quantel
NEC America Inc.
Panasonic
RAVE/Reliable Audio Video
Enterprises
Shintron

Tech Theatre Inc.
Thomson-CSF
Vital Industries
Video Associates Labs
Videcom Engineering
Viscount Ind.

STEREO

(See Also Test Equipment)
BPI Audio Text Instruments
Broadcast Electronics
Comad Communications
Continental Electronics Mfg.
Harris Corporation, Broadcast
Products Division
Kintek
Leader Instruments
Leader Broadcast Systems
McMartin Industries
Moseley Associates
Orban Associates
Potomac Instruments
Pyramid Loudspeaker Corp.
Rohde & Schwarz
C.N. Rood B.V.
Solid Electronics Laboratories
Sound Technology
Tektronix
Versa-Count

TIME CODE

Amplex
Audio Kinetics
The BTX Corporation
Robert Bosch GmbH
Broadcast Video Systems
C-M-C Technology Corp.
Chrono-log Corporation
Control Video Corporation
Datametrics Dresser
Datatron Inc./
Video Systems Div.
Datum
Dynamic Technology Ltd.
Dynaquip Electron Devices Ltd.
E & O Systems, Ltd.
EECO Incorporated
ESE
Gray Engineering Laboratories
Jatex
Kaitronics
Kudelski SA
Multidyne Electronics
Multi-Track Magnetics
Panasonic
Philips Broadcast Group
QSI Systems
Recortec
Shintron
Skotel Corporation
Telcom Research
Thomson-CSF
Torrey Controls & Engineering
True Time Instruments
United Media, Inc.

TONE

American Microsignal Corp.
Asaca/Shibasoku
Audisar
Bald Mountain Lab
Bogen Division/Lear Siegler, Inc.
Broadcast Electronics
C-M-C Technology Corp.
Cetec Vega
Channelmatic
Comex Systems
Communications Control Centers
Conex Electro Systems
Deltamod
Gorman Redlich
Leader Broadcast Systems
Link Electronics
McMartin Industries
Modular Audio Products
Modulation Associates
Motorola Communications & Elect.
Multidyne Electronics
Opamp Labs
Potomac Marine & Aviation
Rivers Associates Inc.
Sescom
Siemens AG Osterrelch
Teac Corp. of America
Triplett Corp.
Trepac Corporation of America
VIF International

TONE, EBS

Bald Mountain Lab
Broadcast Electronics
ESE
Gorman-Redlich Mfg. Co.
McMartin Industries
Rivers Associates Inc.

GENERATORS, ELECTRIC POWER

AEG-Telefunken
California Instruments
Deli Technical Vehicles
Dynamote
E-N-G Corp.
Gralex
Harris Corp., Broadcast
Products Div.
North Wind Power
Onan Corp.
RTS Systems
Teledyne Energy Systems
Vanner

GRAPHIC EQUALIZERS

Audio & Design Recording
Datatronix
Harrison Systems
IGM Communications
Integrated Sound
International Electro Magnetics
MXR Innovations Inc.
Opamp Labs
Orban Associates
Pulse Techniques
Quad-Eight Electronics
Spectra Sonics
John M. Sullivan Associates
White Instruments

HEAD DEGAUSSERS

R.B. Annis Co.
Comprehensive Video Supply
IGM Communications
Kudelski S.A.
Leevers Rich Equipment Ltd.
Marathon Products
Nortronics
Research Technology Int'l.
Saki Magnetics
Spectra Sonics
United Research Lab. Corp.
Wide Range Electronics

HEADS, AUDIO & ACCESSORIES/ SERVICES

ALIGNMENT GAUGES
Aristocart
Broadcast Electronics
D-B Electronics
Fidelipac
Harris Corporation, Broadcast
Products Division
IGM Communications
Image Devices Incorporated
Merlin Engineering
Multi-Track Magnetics
Nortronics
Studer ReVox America
Tapecaster TCM, Inc.
Telex Communications
UMC Electronics

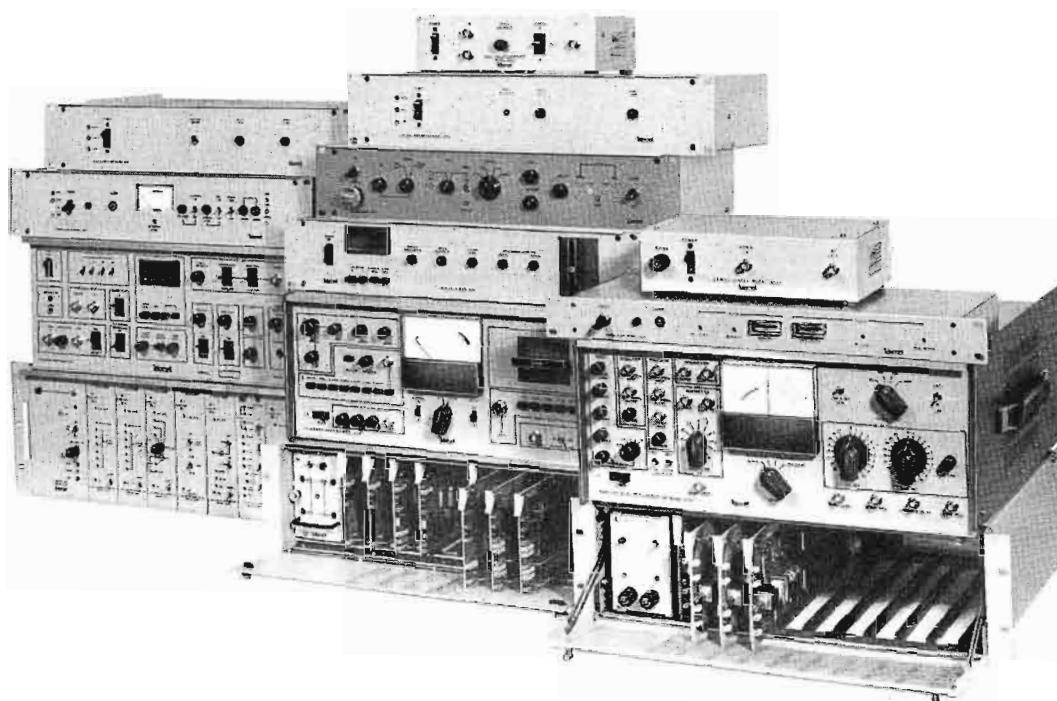
CLEANERS

Allsop
Broadcast Electronics
Chemtronics
Comprehensive Video Supply
Electro-Acoustic Designs
Fidelipac
IGM Communications

Continued on page 86

Telemet

Video Broadcast and Test Equipment



AV Routing Switcher, 7934 is the latest in the state of the art circuitry. Both manual or computer control options available.

Envelope Delay Measurement Set, 3705 measures the envelope delay of video frequencies for compliance with FCC requirements.

Sideband Analyzer, 3706 shows with a calibrated response curve if sideband attenuation and frequency response meet FCC requirements. (model 3709, for deeper resolution and spectrum analysis).

Broadcast Demodulator, 4501 accurately demodulates the transmitted signal to show the true video signal being broadcast.

Demod Tester, 4503-A1 quickly checks the broadcast signal demodulator for flatness of frequency response.

Modulator, 4420 is a state of the art cable TV modulator with VSB saw filter, digital display, very low noise and FCC TV transmitter specs.

Broadcast Demodulator, 3710 is a comprehensive demodulator with both synchronous and envelope detection, built-in self tester, digital display, multiplexed outputs and other convenience features.

Video and Pulse Distribution System, (3300 series). Features Video DA's with frequency equalization; Pulse DA's with variable delay.

Clamper Amplifier, 3203-F clamps high levels of hum on balanced and unbalanced lines. Equalizes for cable loss up to 10 dB.

Fiber Optics Video Transmission System, 4210 has audio sub-carrier. Provides interference-free video and aural transmissions for STL and ENG applications.

Modular Test Set, 3538 provides up to 8 EIA standard video test signals. Special purpose modules also available.

Audio DA System, 6910. Each DA card provides 6 balanced, or 12 unbalanced 600 ohm outputs. 10 cards per frame with power supply.

NTSC Chroma Keyer Decoder, 4706-A1 decodes the NTSC signal with no apparent H delay for RGB keying.

Isolation Amplifier, 5300. An active device that negates hum caused by ground loops on unbalanced video transmission cable.

Over 175 products and accessories available

Telemet

A Geotel Company

185 Dixon Avenue, Amityville, L.I., New York 11701 (516) 842-2300 TWX 510-227-9850
Eastern Area Office—(914) 279-3231

Circle (47) on Action Card

Image Devices Incorporated
Leader Broadcast Systems
Marathon Products Co.
Nortronics
RMS Electronics
Tascam, Div. of Teac
The Texwipe Co.
VIF International

ERASE

R.B. Anns Co.
Bogen Electronic GwBH
Broadcast Electronics
Brush Magnetic Heads
Century 21 Programming
D-B Electronics
Harris Corp. Broadcast
Products Div.
IGM Communications
Image Devices Incorporated
International
Electro-Magnetics Inc.
Elektrolmplex
Leader Broadcast Systems
Magna Tech Electronic Co.
Michigan Magnetics
Minneapolis Magnetics
Multi-Track Magnetics
Neal-Ferrograph
Norton Associates
Nortronics, Recorder Care Div.
Saki Magnetics
Sonar Radio Corp.
Studer ReVox America
Taber Mfg. & Eng. Co.
Tapecaster TCM, Inc.
Tascam, Division of Teac
United Research Lab Corp.
VIF International
Vikron
Woelke Magnet Bandtechnik GmbH

PLAYBACK

Audi-Cord
Bogen Electronic GmbH
Broadcast Electronics
Brush Magnetic Heads
Century 21 Programming
D-B Electronics
Elektrolmplex
IGM Communications
International
Electro-Magnetics Inc.
Magna Tech Electronic Co.
Michigan Magnetics
Minneapolis Magnetics
Multi-Track Magnetics
Neal-Ferrograph
Nortronics, Recorder Care Div.
Norton Associates
Saki Magnetics
Studer ReVox America, Inc.
Taber Mfg. & Eng. Co.
Tapecaster TCM Inc.
Tascam, Division of Teac
UMC Electronics
United Research Lab Corp.
VIF International
Vikron
Woelke Magnet Bandtechnik GmbH

RECORD

Audi-Cord
Bogen Electronic GmbH
Broadcast Electronics
Brush Magnetic Heads
Century 21 Programming
D-B Electronics
Elektrolmplex
IGM Communications
International
Electro-Magnetics Inc.
Leader Broadcast Systems
Magna Tech Electronic Co.
Michigan Magnetics
Minneapolis Magnetics
Multi-Track Magnetics
Neal-Ferrograph
Nortronics, Recorder Care Div.
Norton Associates
Saki Magnetics
Studer ReVox America
Taber Mfg. & Eng. Co.
Tapecaster TCM, Inc.
Tascam, Division of Teac
UMC Electronics
United Research Lab Corp.

Vikron
VIF International
Woelke Magnet Bandtechnik GmbH

FILM STRIPE

Brush Magnetic Heads
International
Electro-Magnetics Inc.
Leader Broadcast Systems
Magna Tech Electronic Co.
Multi-Track Magnetics
Norton Associates
Vikron

RECONDITIONING SERVICES

Accurate Sound
Broadcast Electronics
Brush Magnetic Heads
CMC Technology
D-B Company
International
Electro-Magnetics Inc.
Leader Broadcast Systems
Merlin Engineering
Michigan Magnetics
Minneapolis Magnetics
Norton Associates
Saki Magnetics
Sound Dynamics
Taber Mfg. & Eng. Co.
Tascam, Division of Teac
United Research Lab Corp.

HEADS, VIDEO & SERVICES

REPLACEMENT HEADS
Bogen Electronic GmbH
Brush Magnetic Heads
C-M-C Technology Corp.
Image Devices Incorporated
International Electro Magnetics
Minneapolis Magnetics
Nortronics, Recorder Care Div.
Panasonic
RCA Broadcast Systems
Ramko Research
Saki Magnetics
Spin Physics
John M. Sullivan Associates
Taber Mfg. & Eng.
Thomson-CSF
UMC Electronics
Videomagnetics
Vikron Inc.
Woelke Magnet Bandtechnik GmbH

REFURBISHING SERVICES

Ampex
Bogen Electronic GmbH
Brush Magnetic Heads
CMC Technology Corporation
International Electro Magnetics
Minneapolis Magnetics
RCA Broadcast Systems
Saki Magnetics
Spin Physics
Taber Mfg. & Eng.
Videomagnetics

HEADPHONES

ANNOUNCERS EARPIECE

Audioscars
Beyer Dynamics
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Broadcast Electronics, Inc.
David H. Brothers Co.
Burns Audiotronics
Elektrolmplex
Harris Corporation, Broadcast
Products Division
IGM Communications
Integrated Sound GLI Div.
Kimlan Sales
Norcom Manufacturing
R-Columbia Products
Setcom Corporation
Sennheiser Electronic Corp.
Shure Brothers
Stanton Magnetics
Television Equipment Associates

Telex Communications, Inc.
Vidaire Elec. Mfg.

MONO

AKG Acoustics
AKG A Kustische u. Kino-Gerate
Audiotronics
Beyer Dynamic
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Robert Bosch GmbH
Broadcast Electronics
David H. Brothers Co.
Burns Audiotronics
Clear Com Intercom Systems
D-B Electronics
Edcor
Elektrolmplex
Harris Corporation, Broadcast
Products Division
IGM Communications
Image Devices Incorporated
Kimlan Sales Inc.
Miles Associates, Div. Miles Air
Products Ltd.
Neal-Ferrograph
R-Columbia Products
Sennheiser Elect Corp.
Setcom Corporation
Shure Brothers
Superex Electronics Corp.
Swintek Enterprises
Television Equipment Assoc.
Telex Communications, Inc.
Vidaire Elec. Mfg.

STEREO

AKG Acoustics
AKG Akustische u. Kino-Gerate
Audio-Technica US Inc.
Audiotronics
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Beyer Dynamic
Broadcast Electronics
David H. Brothers Co.
Burns Audiotronics
David Clark Co.
Clear Com Intercom Systems
D-B Electronics
Elektrolmplex
Fostex
G.C. Electronics
Harris Corporation, Broadcast
Products Division
IGM Communications
Kimlan Sales Inc.
Koss Corporation
Miles Associates
Neal Ferrograph (USA) Inc.
North American Soar Corp.
R-Columbia Products
SAE
Sennheiser Electronic Corp.
Setcom
Setcom Corporation
Shure Brothers
Stanton Magnetics
Studer ReVox America
Superex Electronics Corp.
Swintek Enterprises
Tascam, Div. of Teac
Television Equipment Assoc.
Telex Communications, Inc.
VIF International
Vidaire Electronics Mfg.

WITH ANNOUNCERS MIKE

AKG Acoustics
AKG Akustische u. Kino-Gerate
Audioscars
Beyer Dynamic
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Robert Bosch GmbH
Broadcast Electronics
David H. Brothers Co.
Burns Audiotronics
Clear-Com Intercom Systems
Electro-Voice
Elektrolmplex
Hammond Industries
Harris Corporation, Broadcast
Products Division
IGM Communications
Koss Corp.

Miles Associates, Div. Miles Air
Products Ltd.
Pro Tech Audio
R-Columbia Products
RTS Systems
Sennheiser Electronic Corp.
Setcom Corporation
Shure Brothers
Superex Electronics Corp.
Television Equipment Assoc.
Telex Communications

HEAT EXCHANGERS

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Products Division
Micro Communications
Shively Laboratories
Thomson-CSF(81)
Trelse Engineering

HEATERS FOR VANS

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Harris Corp., Broadcast
Products Div.
John M. Sullivan Associates

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Commerce Airborne Corp.
ENG Helicopter Satellite Ltd.
Feathercam Inc.
Harris Broadcast Microwave
Harris Corp./Farinon Video
Lang Video Systems
Lee Ray Industries
M/A-COM Video Systems
NEC America Inc.
Broadcast Equipment
Nurad Inc.
R.F. Technology Inc.
Tayburn Electronics

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Arriflex
Cinema Products
ENG Helicopter Satellite Ltd.
Feathercam, Inc.
Gralex
Sfena

HELICOPTERS

Bell Helicopter
ENG Helicopter-Satellite Ltd.
Hughes Helicopters

HUM STOP COIL

Crow of Reading Ltd.
North Hills Electronics
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CMC Technology Corp.
AVL Digital Ltd.
CMC Technology Corp.
Comprehensive Video Supply
Michael Cox
Datatek
Di-tech
Dynamic Technology Ltd.
Fernseh
Gray Engineering Laboratories
Lang Video Systems

Continued on page 88

**"Confidentially...
the top news is
at the bottom."**

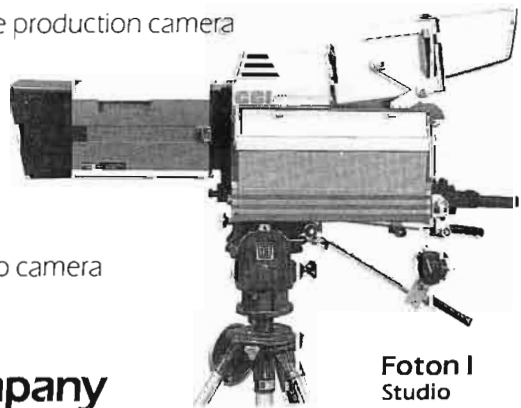
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Visual Methods

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Interand
MCI/Quantel
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Broadcast Equipment
Video Aids of Colorado

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(See Also ICs and Semiconductors)
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(Bayly Engineering)
AEL-American Electronic Laboratories
Apex Systems
Calvert Electronics
Cherry Elec. Prod. Corp.
Cherry Semiconductor
Cool Light
Datel-Intersil
Fairchild CCD Imaging
Javelin Electronics
Logica
Motorola
Narda Microwave
NEC America Inc.
Broadcast Equipment
Thomson-CSF

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Bogen Division / Lear
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Brabury Electronics Ltd.
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Fisher Berkeley Corp.
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International Electro - Magnetics
Leader Broadcast Systems
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McCurdy Radio Industries
Minicom
Rupert Neve
PAG Group
Paso Sound Products
ProTech Audio Corporation
R-Columbia Products
RTS Systems
Richmond Sound Design
Roh Corporation
Salt Electronics
Setcom Corporation
Sharepoint Systems
Siemens Ag Osterreich
Singer Products Co.
Standard Telephon UND Radio
Swintek Enterprises, Inc.
TOA Electronics
Telectro Systems Corp.
Television Equipment Assoc.

Telex Communications
Thomson-CSF
Tweed Audio USA
Vamco Engineering
Velec Sefat
Vidaire Electronics Mfg.
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Ward-Beck Systems
World Video

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Don Britton Ent.
Comprehensive Video Supply
Vanner Inc.

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Moseley Associates
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Video Aids of Colorado

ISOLATOR

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Varian MCSD
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Broadcast Technology
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Datanonix
Dell Technical Vehicles
Dielectric Communications
Dynamic Technology Ltd.
Dynatech Data Systems
Electro-Acoustic Design
Elektroimpex
Farrtronics Limited
G.C. Electronics
Harris Corp., Broadcast Products
Image Video Limited
Leader Broadcast Systems
Link Electronics
McCurdy Radio Industries
McMartin Industries
Rupert Neve
Panoak/B-W Lighting Systems
Potomac Instruments
Potomac Marine & Aviation
Ramko Research
Rex Rheostat & Co. Inc.
Rockwell International
Shively Laboratories
Sphere
Switchcraft
TM Systems
Trompeter Electronics
Union Connector
Victor Electronic Co.
Ward-Beck Systems

JACK PANELS, WIRED

Audio Accessories
Broadcast Systems
Comad Communications

KEYERS, VIDEO INSERT

American Data
Beaveronics

Continued on page 90

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Motorola's C-QUAM® (Compatible Quadrature) AM Stereo System is attracting the attention of broadcasting executives.

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Motorola, Inc. P.O. Box 95334
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Title _____

Station / Group _____

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THE ANSWER
TO THE
MARKETPLACE
DECISION**



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Circle (52) on Action Card

Robert Bosch GmbH, Television Systems Div.
Don Britton Ent.
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Control Video Corporation
Michael Cox
Crosspoint Latch
Dynair Electronics
Graham-Patten Systems
Image Video Limited
Industrial Sciences Inc. (ISI)
International Nuclear Corp.
Key Video Ltd.
Link Electronics
Rohde & Schwarz
Siegel Electronics
Thomson-CSF
Torrey Controls & Engineering
Video Associates Labs
Videomedia
Vital Industries

KNOBS CONTROL

Alco Electronic Products
Buhl Optical Co.
Electronic Instrument & Specialty Corp.
G.C. Electronics
Selco Products
Sescom, Inc.
VIZ Mfg. Co.

LENS FILTERS

Angenieux Corp. of America
David H. Brothers Co.
Century Precision Cine/Optics
Harris Corporation
Schneider Corp. of Am.
Tiffen Manufacturing
Tele-Cine Inc.
The Zei-Mark Corp.

LENSES, FIXED

ATV Research
Angenieux
Arriflex
Robert Bosch GmbH
David H. Brothers Co.
Buhl Optical
Canon USA
Century Precision Cine/Optics
Cinema Products
Comprehensive Video Supply
D.O. Industries Inc.
Etablissements Pierre Angenieux
Fujinon Inc.
GBC Closed Circuit TV Corp.
Harris Corp. - Broadcast Products Div.
Karl Heitz Inc.
Javelin Electronics
Lenz Optical
Panasonic
Power Optics
Rank Precision
Rank Taylor Hobson
Jos. Schneider GmbH
The Schneider Corp. of Am.
Tele-Cine Inc.
Visual Methods
The Zei-Mark Corp.

LENSES, PROJECTION

Buhl Optical
DO Industries Inc.
Rangertone Research
Jos. Schneider
Tele-Cine Corp.
The Zei-Mark Corp.

LENSES, ZOOM

ATV Research
Angenieux Inc.

Arriflex
Robert Bosch GmbH
David H. Brothers Co.
Buhl Optical
Canon USA
Century Precision Cine/Optics
Cinema Products
Comprehensive Video Supply
Crow of Reading
D.O. Industries Inc.
Etablissements Pierre Angenieux
Frezzolini Electronics
Fujinon Inc.
GBC Closed Circuit TV
Harris Corp. Broadcast Products Div.
Javelin Electronics
Kalart Victor
Lenz Optical
One Pass Video
Panasonic
Power Optics
Rank Precision
Rank Taylor Hobson
Jos. Schneider GmbH & Co.
The Schneider Corp. of Am.
Sharp Electronics
Tele-Cine Inc.
Visual Methods

LIGHTING ACCESSORIES

CONNECTOR PLUGS

AVA Electronics
Bardwell & McAllister
Belden Communications
Walter S. Brewer Co.
Colortran
Electro Controls
Electronics Diversified, Inc.
G.C. Electronics
GTE Products Corp.
Kliegl Bros.
L.E. Nelson Corp.
LTM Corp. of America
Olesen
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Research Technology Int'l.
Rex Rheostat & Co.
Strand Century
John M. Sullivan Associates
Union Connector Co., Inc.
Whirlwind Music

FADER CONTROLS

Belden Communications
Walter S. Brewer Co.
CAE Inc.
Colortran
Duncan Electronics
Dynamic Technology Ltd.
Electro Controls
Electronics Diversified Inc.
Hammond Industries
Kliegl Brothers
L.E. Nelson Corp.
Olesen
Packaged Lighting Systems
Panoak Lighting Systems
Skirpan Lighting Control Corp.
Strand Century
John M. Sullivan Associates
Theater Techniques

TRANSFORMERS

Belden Communications
Peter W. Dahl
Harris Corporation, Broadcast Products Division
L. E. Nelson Corp.
Olesen
Packaged Lighting Systems
Panoak/B-W Lighting Systems
World Tower

LIGHTING: CONTROLS, FIXTURES, LAMPS

CONTROL BOARD/CONSOLE
AEG-Telefunken
Alco Electronics

AVAB America
Bardwell & McAllister
Belden Communications
Walter S. Brewer Co.
Don Britton Ent.
CAE, Inc.
Colortran
Custom Audio Electronics
Dynamic Technology Ltd.
Electro Controls
Electronics Diversified, Inc.
The Great American Market
Hammond Industries
Kliegl Brothers
LTM Corp. of America
Matthews Studio Equipment
L.E. Nelson Corp.
Olesen
Osram Sales Corp.
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Rainco Products
Siemens
Skirpan Lighting Control Corp.
Strand Century
Tech Theatre Inc.
Theater Techniques Inc.
Thorn Lighting Limited
Ultra Audio Pixtec

FILTERS & GELS

AEG-Telefunken
Bardwell & McAllister
Belden Communications
Walter S. Brewer Co.
Colortran
Cool Light
Electro Controls
Electronics Diversified Inc.
Kliegl Bros.
LTM Corp. of America
Matthews Studio Equipment
L.E. Nelson Corp.
Olesen
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Smith - Victor Sales Corp.
Strand Century
John Sullivan Associates
Tech Theatre Inc.
Tiffen

HANGERS, STUDIO

AEG-Telefunken
Automatic Devices
Bardwell & McAllister Inc.
Walter S. Brewer Co.
Colortran
Electro Controls
Electronics Diversified
Image Devices Incorporated
Kliegl Brothers
LTM Corp. of America
Matthews Studio Equipment
L.E. Nelson Corp.
Olesen
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Smith - Victor Sales Corp.
Strand Century
Syracuse Scenery & Stage Lighting

LAMPS, REPLACEMENT

AEG-Telefunken
Alco Electronic Products
Bardwell & McAllister
Belden Communications
Walter S. Brewer Co.
Cinema Products
Cool Light
Dynamic Technology Ltd.
Electro Controls
Electronics Diversified
Frezzolini Electronics
GTE Products Corp.
Lighting Products Group
Grand Tower
Image Devices Incorporated
Kliegl Brothers
LTM Corp. of America
Lowel - Light
L.E. Nelson Corp.
Fred A. Nudd

Olesen
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Smith - Victor Sales Corp.
John M. Sullivan Associates
Strand Century
Teledyne Big Beam

LIGHTS, HMI

AEG-Telefunken
Arriflex
Bardwell & McAllister
Belden Communications
Cine 60 Inc.
Cinema Products
Electro Controls
Electronics Diversified
The Great American Market
Image Devices Incorporated
Kliegl Bros.
LTM Corp. of America
Nalpak Sales
L.E. Nelson Corp.
Olesen
Osram Sales
PAG Power Ltd.
Panoak Lighting Systems & Supply
Strand Century

LIGHTS, PORTABLE / ENG

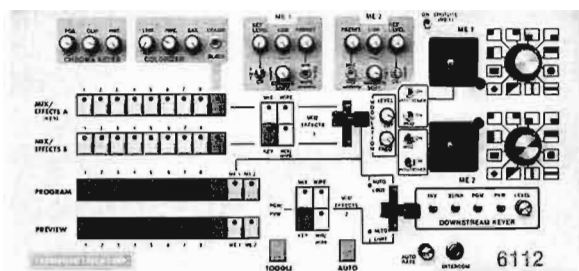
AEG-Telefunken
Arriflex
Bardwell & McAllister
Belden Communications
CAE Inc.
Cine 60 Inc.
Cinema Products
Colortran
Comprehensive Video Supply
Cool Light
Custom Audio Electronics
Dynamic Technology Ltd.
Electro Controls
Frezzolini Electronics
GTE Products Corp. - Lighting Products Group
The Great American Market
Harris Corporation, Broadcast Products Division
Harwood Mfg. Co.
Kapco Communications
Kliegl Brothers
LTM Corp. of America
Lowel - Light Mfg., Inc.
L.E. Nelson Corp.
Olesen
PAG-Power Ltd.
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Strand Century
Teledyne Big Beam
Video I-D

LIGHTS, STUDIO

AEG-Telefunken
Arriflex
Avab America
Bardwell & McAllister Inc.
Belden Communications
Walter S. Brewer Co.
Broadcast Electronics Inc.
CAE Inc.
Cine 60 Inc.
Cinema Products
Colortran
Comprehensive Video Supply
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Custom Audio Electronics
Dynamic Technology Ltd.
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Electronics Diversified, Inc.
Frezzolini Electronics
GTE Products Corp. - Lighting Products Group
The Great American Market
Harris Corporation, Broadcast Products Division
Harwood Mfg. Co.
Kliegl Brothers
LTM Corp. of America
Leedal
Lowel - Light Mfg., Inc.
Moile-Richardson

Continued on page 92

A RANGE OF VIDEO SWITCHERS



6112

The only switcher in its class to offer two fully independent MIX EFFECTS systems, with each M/E having its own pattern generator and positioner. This nine input, four bus unit includes the following standard features: downstream keyer, pattern modulator, spot-lite, colorizer, toggle or "take preview", automatic or manual mix and wipe operations, variable soft wipes, adjustable borders, internal or external keying on each M/E, intercom, loop-thru video inputs, preset of mix or wipes, black burst output, and a blanking processor. There is also a plug-in optional chroma keyer available. All inputs accept synchronous, non-synchronous, composite, non-composite, monochrome or color signals and go thru dual back porch clamping.

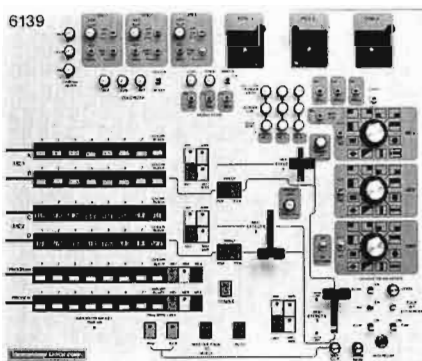
Price \$7,950.00 PAL \$8,950.00

Options

Encoded chroma keyer (plug-in board) **\$1,050.00**

RGB chroma keyer (plug in board) **\$1,050.00**

Slimline control panel (4 inches) **\$250.00**



6139

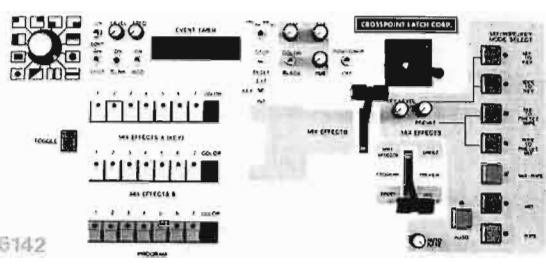
Eight input production switcher with three fully independent Mix Effects Systems. Each ME has its own pattern generator and positioner and each one is capable of double re-entry. Chroma keyer (either encoded or RGB), downstream keyer with matte, blink, invert and edge or external border. Downstream keyer may be previewed. Five video signals can be displayed at the same time. Downstream fade to black. Quad split. Field expandable to 24 inputs with additional pattern selector.

Plug in Option

Genlock

Two chroma keyers (RGB or encoded)

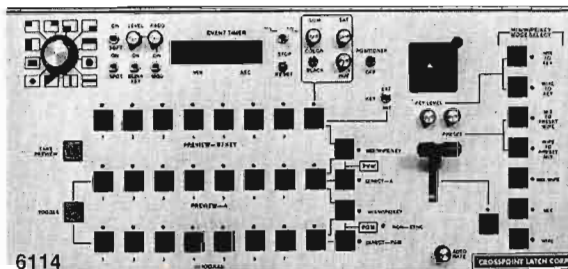
Dual Colorizer (instead of one chroma keyer)



6142

The 6142 is a three bus, eight input completely self-contained switcher. This unit features dual fader handles which permits the operator to dissolve to an effect. The mix effects system features double re-entry along with 12 patterns, variable soft, 24 hour event timer, internal or external keying, pattern modulator, blink key, colorizer, toggle, spot lite, positioner, mix or wipe to key, preset of mix and wipes, blanking processor, loop thru video inputs, dual back porch clamps and black burst output.

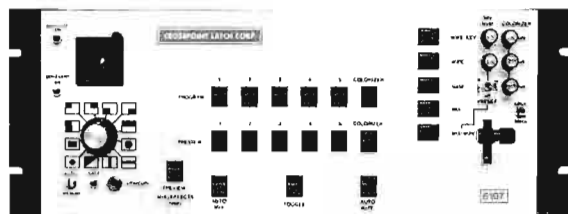
Price: \$5,245.00 PAL \$6,245.00



6114

The 6114 is a broadcast quality, eight input, three bus video switcher. It features 12 patterns, positioner, event timer, pattern modulator, soft wipe, spot lite, blink key, toggle, take preview, automatic or manual mix and wipe blanking processor, non-sync lamp, loop through video inputs and a blackburst output.

Price: \$4,680 PAL \$5,680



6107

The 6107 is a broadcast quality switcher. Though there are only 2 buses it is possible to preview and/or preset a mix or effect without disturbing the program output. The special mix-wipe function provides a combination mix and wipe (for instance, a dissolve within a circle pattern), which normally requires at least three buses. It also features 12 patterns, soft wipes, built-in intercom amplifiers; and colorizer, toggle and blackburst output.

Price: \$3,800. PAL \$4,800.

CROSSPOINT LATCH CORP.

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Circle (53) on Action Card

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Syracuse Scenery & Stage Lighting
Teledyne Big Beam
Theatre Techniques Inc.

PATCH PANEL
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Bardwell & McAlister
Belden Communications
Walter S. Brewer Co.
Colortran
Electro Controls
Electronics Diversified
Kliegl Bros.
L.E. Nelson
Olesen
One Pass Video
Osram Sales
Packaged Lighting Systems
Panoak Lighting Systems & Supply
Rex Rheostat & Co.
Skirpan Lighting Control Corp.
Strand Century
John M. Sullivan Associates
Theatre Techniques Inc.
Union Connector Co. Inc.
Videomedia

LIGHTS, STUDIO WARNING

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Continental Electronics Mfg.
Electro Controls
Fidelipac
GTE Products Corp.
Grant Tower
McMartin Industries
John M. Sullivan Associates
UNR-Rohn
World Tower

LIGHTS, TOWERS

(See Tower Lights & Accessories)

LIGHTNING ARRESTORS

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Dyna Engineering
EEV
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Grant Tower
Lightning Elimination Associates
MCG Electronics Inc.
McMartin Industries
Multiplier Industries
Fred A. Nudd Corporation
Thomson-CSF
TransTector Systems
Vidair Electronics Mfg.
World Tower

LIGHTNING PROTECTION SYSTEMS

Abroyd Construction
C-Cor Electronics
ComSonics Inc.
Continental Electronics Mfg.
EEV Inc.
EFI
The Great American Market
Lightning Elimination Associates
MCG Electronics
RMS Electronics

SGL Waber Electric
Thomson-CSF
Topaz Electronics
TransTector Systems
Wilkinson Electronics
World Tower

LIMITER / COMPRESSOR, AM

Applied Technology
ATI Audio Technologies Inc.
Audio Design & Recording
Bogen Division/Lear Siegler, Inc.
Broadcast Electronics
Cetec
Circuit Research Labs
Continental Electronics Mfg.
dbx Inc.
Delta Electronics
Dorrough Electronics
EMT Franz
Elcom Bauer
Elcom Specialty Products
Elektrolmex
Harris Corporation
IGM Communications
Inovonics Incorporated
Kahn Communications
Leader Broadcast Systems
LPB
McMartin Industries
Modular Audio Products
Moseley Associates
NTP Elektronik A/S
Rupert Neve
Orban Associates
Pacific Recorders
Processing Plus
Pyramid Loudspeaker
QEI
RCA Broadcast
C.N. Rood B.V.
Spectra Sonics
Thomson-CSF
Tramec Electronics
Valley People
VIF International

LIMITER / COMPRESSOR, FM

Applied Technology Corp.
Audio Design & Recording
ATI Audio Technologies Inc.
Bogen Division/Lear Siegler, Inc.
Broadcast Electronics
Circuit Research Labs
Continental Electronics Mfg.
dbx Inc.
Delta Electronics
Dolby Laboratories
Dorrough Electronics
Elcom Bauer
Harris Corp., Broadcast Products
IGM Communications
Inovonics Inc.
Kajaani Oy
LPB
Leader Broadcast Systems
Martel
McMartin Industries
Modular Audio Products
Modulation Sciences
Moseley Associates
NTP Elektronik A/S
Rupert Neve
Orban Associates
Pacific Recorders
Processing Plus
QEI
Rohde & Schwarz GmbH
Siemens AG Österreich
Spectra Sonics
Thomson-CSF
Tramec Electronics
VIF International
Valley People

LIMITER / COMPRESSOR, TV

Orban Associates

LINE SURGE PROTECTORS

AEG-Telefunken
(Bayly Engineering)
C-Cor Electronics
Comad Communications
Computer Business Systems
ComSonics Inc.
Continental Electronics Mfg.
Delta Electronics
EEV Inc.
EFI
Elcom-Bauer
Harris Corporation, Broadcast Products Division
IGM Communications
Lightning Elimination Associates
McMartin Industries
MCG Electronics
PTS Electronics
SGL Waber Electric
The Superior Electric Co.
Television Technology Corp.
Thomson-CSF
Topaz Electronics
TransTector Systems
Video Aids of Colorado

LOAD RESISTORS, COAXIAL

AEG-Telefunken
(Bayly Engineering)
Ava Electronics Corporation
Barker & Williamson Inc.
Bird Electronic
Coaxial Dynamics
Dielectric Communications
Electro Impulse Laboratory, Inc.
Magnavox CATV Systems
North Hills Electronics
Phelps Dodge Communications
Pyramid Industries Inc.
Pyramid Loudspeaker Corp.
Shively Labs
Thomson-CSF
Trompeter Electronics
Wide Band Engineering

LOUDSPEAKERS, CONTROL ROOM

Altec Corp.
Argos Products Co. Inc.
Audislar
Audio-Technica U.S.
Auernheimer Labs and Co.
BGW Systems
Bayly Engineering
Barco Electronic
Bogen Division/Lear Siegler, Inc.
Broadcast Audio Corp.
Broadcast Electronics
Cetec Gauss
Continental Electronics Mfg.
D-B Electronics
Electro-Voice
Elektrolmex
Dukane Corp.
Fostex
Hartley Products Corp.
IGM Communications
Integrated Sound, GLI Div.
JBL
Koss Corp.
McCurdy Radio Industries
McMartin Industries
Merlin Engineering Works
NET Enterprises
Neal Ferrograph (USA) Inc.
Panasonic, Professional Audio Div.
Pyramid Loudspeaker
Rohde & Schwarz GmbH
Russco
Shure Brothers
Siemens AG Österreich
Sierra Audio Corp.
Singer Products Company
Spectra Sonics
Studer International AG

John M. Sullivan Associates
Telectro Systems
Teledyne Acoustic Research (AR)
VIF International
Video I-D

LOUDSPEAKERS, RECORD STUDIO

Altec Corp.
Argos Products Co. Inc.
Audio-Technica U.S.
Audislar
Auernheimer Labs and Co.
BGW Systems
Barco Electronic
Bogen Division/Lear Siegler, Inc.
Broadcast Audio Corp.
D-B Electronics
Electro-Voice
Elektrolmex
Fostex
IGM Communications
JBL
Koss Corp.
McMartin Industries
Panasonic, Professional Audio Div.
Pyramid Loudspeaker
Russco
Siemens AG Österreich
Shure Brothers
Sierra Audio Corp.
Spectra Sonics
Studer International AG
Studer ReVox America
Telectro Systems
Teledyne Acoustic Research (AR)

LOW FREQUENCY EXTENDERS

Comrex Corporation
dbx Inc.
Hartley Products Corp.
Integrated Sound GLI Div.
Kahn Communications
Kintek Corp.
McCurdy Radio Industries
C.N. Rood B.V.
Sierra Audio Corp.

MACHINE ASSIGNMENT SYSTEMS

Broadcast Electronics
Datatek Corp.
Dynamic Technology Ltd.
Kaitronics
NEC America Inc.
Torpey Controls & Engineering Ltd.

MAINTENANCE SERVICES

AM SERVICES
AEG-Telefunken
Abroyd Construction
Atlas Tower Corp.
Burden Associates
CSP Inc.
Jim Cason Electronics
Davis Electronics
John J. Davis & Assoc.
Global Communications
Grant Tower
Harris Corp. Broadcast Products Div.
Harrison Systems
IGM Communications
Image Devices Incorporated
Leader Broadcast Systems
LeBlanc & Royle Communications
Multiphase Consulting
Processing Plus
RCA Service Company
Radiotechniques
Swager Tower Corp.
Tramec Electronics

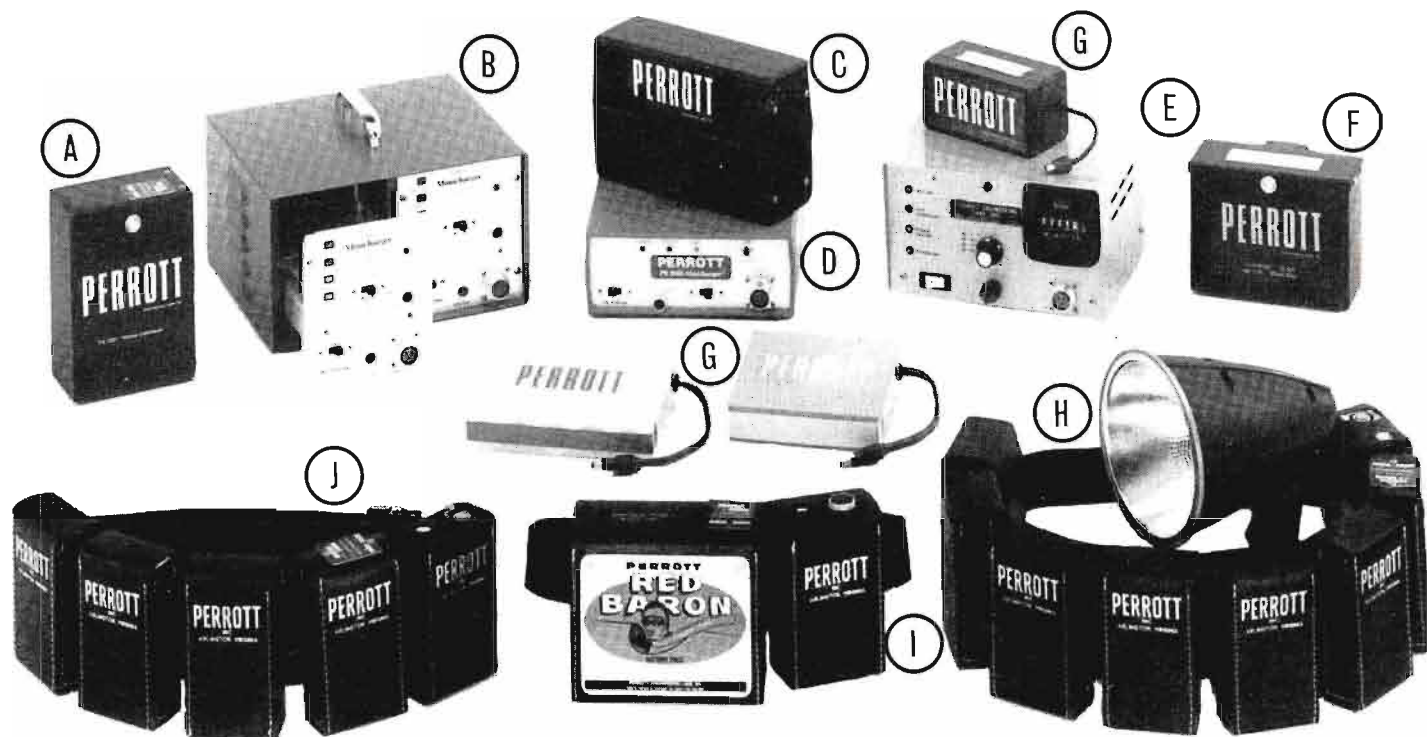
Continued on page 94

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Burden Associates
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Crowder Communications Ltd.
Davis Electronics
John J. Davis & Assoc.
Electro-Acoustic Designs
Image Devices Incorporated
Global Communications
Grant Towers
Harris Corp., Broadcast
Products Div.
Harrison Systems
IGM Communications
Leader Broadcast Systems
LeBlanc & Royle Communications
Micro Communications
Multiphase Consulting
Processing Plus
RCA Service Company
Radiotechniques
Rohde & Schwarz GmbH
Swager Tower Corp.
Tramec Electronics
Utility Tower
World Tower Company

TV SERVICES

AEG-Telefunken
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Atlas Tower Corp.
Broadcast Aids Inc.
Jim Cason Electronics
Cinema Products
Comark Communications
Cohu, Electronics Div.
Crowder Communications
Davis Electronics
John J. Davis & Assoc.
Grant Towers
Harris Corp., Broadcast
Product Div.
Harrison Systems
Image Devices Incorporated
Global Communications
LeBlanc & Royle
Communications Inc.
Micro Communications
Radiotechniques
RCA Service Company
Rohde & Schwarz
Swager Tower Corp.
Utility Tower
Velec Sefat
Videocom Engineering
Videomagnetics
World Tower Company

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John J. Davis & Associates
Gabriel Electronics
Grant Towers
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Products Div.
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Jatex Inc.
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LeBlanc & Royle
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R.F. Technology
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Gabriel Electronics
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Multiphase Consulting
Fred A. Nudd Corporation
LeBlanc & Royle
Communications Inc.
RCA Service Co.
Swager Tower Corp.
Utility Tower
World Tower Company

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Compucon Inc.
Comsearch
Conifer
Dynacom Electronics Ltd.
EMCEE Broadcast Products
Lindsay Specialty Products Ltd.
Micro Communications
Oak Communications, CATV
Division
Standard Communications
Texscan

METERS

(See Test Equipment)

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Amek TAC
Applied Technology
Audisar
Audix Limited
Audio-Technica U.S.
Avab America
Bill Audio Systems
Bogen Division / Lear Siegler
Broadcast Electronics, Inc.
Cinetronics
Coherent Communications
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Georg Neumann GwBH
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Electro-Voice
Elektrolmex
EV-Tapco
Foundation Electronic Instruments
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Hammond Industries
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IGM Communications
Industrial Research Products
Integrated Sound Systems, Inc.
Ivle Electronics
LTM Corp. of America
MBI Broadcast Systems, Inc.
McCurdy Radio Industries
McMartin Industries
Micro-Trak
Rupert Neve
Northland Communications
PAG-Group
Panasonic, Professional Audio Div.
Paso Sound Products
ProTech Audio
Quad-Eight Electronics
Quantum Audio Labs
RTS Systems
Ramko Research
Richmond Sound Design
Russco
Satt Electronics AB
Sescom Inc.
Shure Brothers
Sontec Electronics
Spectra Sonics
Sphere

Stancoll Ltd.
Stellovox
Studer International AG
Studer ReVox America
Teac Corp. of America
Transist-O-Sound
Ultra Audio Plxtec
Vidaire Electronics Mfg.
Video I-D
Videomedia
Ward-Beck Systems

MICROPHONES & ACCESSORIES

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AKG Acoustics
AKG Akustische u. Kino-Gerate
Accurate Sound
Allen Gordon Enterprises
The Astatic Corporation
Atlas Sound
Audio-Technica US Inc.
Beyer Dynamics
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Bogen Division / Lear Siegler
Broadcast Electronics, Inc.
David H. Brothers Co.
Cinema Products
Continental Electronics Mfg.
Creative Trade, CTAB AB
D-B Electronics
Elektrolmex
Fidellpac Corp.
G.C. Electronics
Hammond Industries
Harris Corporation
Karl Heitz Inc.
McCurdy Radio Industries
NET Enterprises
Neal Ferroglyph (USA) Inc.
Northland Communications
Georg Neumann GwBH
Paso Sound Products
Sennheiser Electronic Corp.
Shure Brothers
Singer Products Co. Inc.
Strand Century
Studer International AG
John M. Sullivan Associates
Turner, Division of Telex
Communications, Inc.
Vidaire Elec. Mfg.

FLEXIBLE / MOBILE HOLDER (FOR CONSOLES)

AKG Acoustics
AKG Akustische u. Kino-Gerate
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Beyer Dynamics
Creative Trade, CTAB AB
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Bogen Division / Lear Siegler
Broadcast Electronics
Continental Electronics Mfg.
Harris Corporation
Neal Ferroglyph (USA) Inc.
Georg Neumann
R-Columbia Products
Sescom
Shure Brothers
Studer International AG

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AKG Akustische u. Kino-Gerate
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The Astatic Corporation
Audio-Technica US, Inc.
Auditronics
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Beyer Dynamics
Bogen Division / Lear Siegler
Broadcast Electronics, Inc.
David H. Brothers Co.
Cetec Vega
Continental Electronics Mfg.
Creative Trade, CTAB AB
Electro-Voice
Elektrolmex
Eumig USA

Fidellpac Corp.
G.C. Electronics
Hammond Industries
Harris Corporation, Broadcast
Products Division
Leader Broadcast Systems
Nady Systems
George Neumann GwBH
Northland Communications
PAG-Group
Panasonic Canada-Video Systems
Panasonic Professional Audio
Division
Paso Sound Products
RMS Electronics
Sennheiser Elect. Corp.
Shure Brothers
Sony
Standard Communications
Studer International AG
Studer Revox America, Inc.
John Sullivan Associates
Swintek Enterprises, Inc.
TOA Electronics
Tascam, Div. of Teac
Telax Communications
Turner, Division of Telex
Communications, Inc.
Vidaire Electronics Mfg.
Video I-D

LAPEL MIKE

AIWA
AKG Acoustics
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Audio-Technica US Inc.
Auditronics
Beyer Dynamics
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Bogen Division / Lear Siegler
Broadcast Electronics
David H. Brothers Co.
Coherent Communications
Creative Trade, CTAB AB
Crown International
Electro-Voice
Eumig USA
Fidellpac Corp.
G.C. Electronics
Harris Corporation
Micron Audio Prod.
Northland Communications
PAG-Group
Panasonic Canada-Video Systems
Panasonic Professional Audio
Sennheiser Elect. Corp.
Shure Brothers
Standard Communications
Superex Electronics Corp.
Swintek Enterprises
Telex Communications
Turner, Division of Telex
Communications, Inc.
Vidaire Electronics Mfg. Corp.
Video I-D

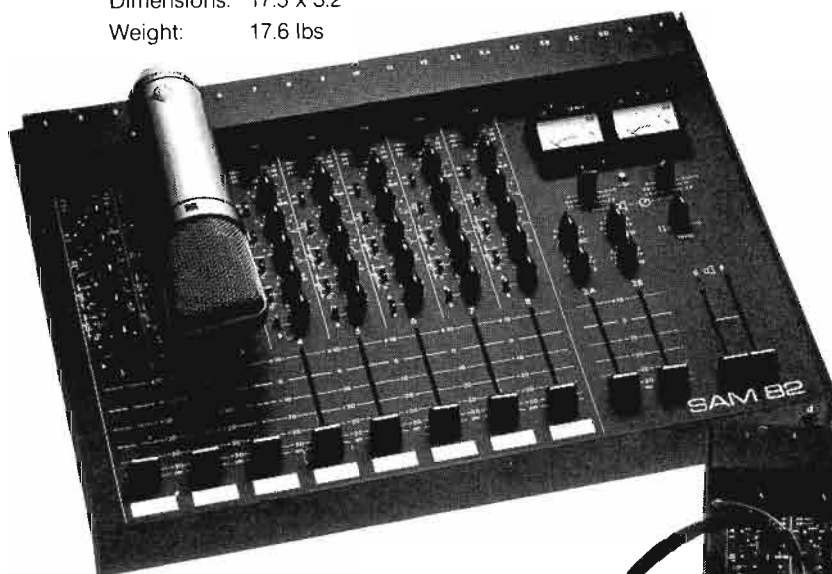
LAVALIER MIKE

AIWA
AKG Acoustics
AKG Akustische u. Kino-Gerate
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The Astatic Corporation
Audio-Technica US Inc.
Auditronics
Beyer Dynamics
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Bogen Division / Lear Siegler
Broadcast Electronics
David H. Brothers Co.
Cetec Vega
Coherent Communications
Comprehensive Video Supply
Creative Trade, CTAB AB
Crown International
Dukane Corp.
Eddor
Electro-Voice
Eumig USA
Fidellpac Corp.
G.C. Electronics
Harris Corporation
Micron Audio Prod. Ltd.
Nady Systems
George Neumann GwBH

Continued on page 96

SAM82

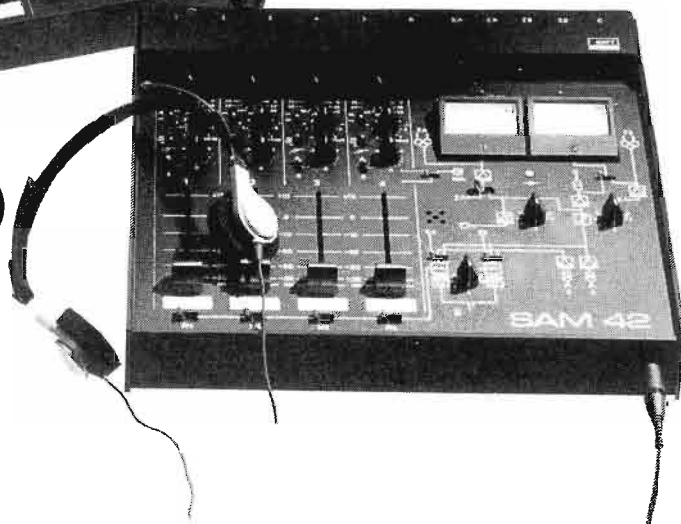
Dimensions: 17.5 x 3.2"
Weight: 17.6 lbs



STUDIO AUDIO MIXERS

SAM42

Dimensions: 11.3 x 10.4 x 3.1"
Weight: 8.5 lbs



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Electronics

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Phone: +46 (8) 81 01 00 Telex: 10884 SATTEL S

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Address _____

Postal code _____

Country _____

Telephone _____ BC 6/82

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Swintek Enterprises
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Vidair Elec. Mfg.

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AKG Akustische u. Kino-Geräte
Audio-Technica US Inc.
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Beyer Dynamics
Bogen Division / Lear Siegler
David H. Brothers Co.
Coherent Communications
Comprehensive Video Supply
Electro-Voice
Fidelipac Corp.
Gelco Electronics Ltd.
Georg Neumann GwBH
PAG - Group
Sennheiser Electronic Corp.

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Beyer Dynamic Inc.
Eugene Beyer Elektrotechnische
Fabrik GmbH & Co.
Cetec Vega
Coherent Communications
Comrex Corporation
Edcor
Alan Gordon Enterprises
H. M. Electronics
Micron Audio Prod. Ltd.
Nady Systems
Paso Sound Products
R-Columbia Products
Ken Schaffer Group
Sennheiser Electronic Corp.
Spectra Sonics
Swintek Enterprises, Inc.
Telex Communications

MICROPHONE SPLITTER

Beyer Dynamics
Harris Corp., Broadcast Products
Neal Ferrograph (USA) Inc.
Georg Neumann
Ramko Research
Sescom
Straight Wire Audio
Wireworks
Whirlwind Music Dist.

MOBILE UNITS

(See Vans)

MODULATION CONTROLLER

Delta Electronics

MODULATORS, TV

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Automation Techniques Inc.
ATV Research
Barco Video Systems
Don Britton Ent.
Catal
Comtec Data Corp.
Crowder Communications
Crow of Reading Ltd.
Dynair Electronics

Fung Eng. Labs Inc.
GTE Products Corp.
Gardiner Communications Corp.
Harris Corp., Broadcast
Products Div.
Javelin Electronics
Letrotech Inc.
Marshall Electronics
Panasonic
Phasecom
Rohde & Schwarz
Scientific-Atlanta
TL Systems
Telemet
Television Technology Corp.
Thomson-CSF
Times Fiber Communications
Triple Crown Electronics
UHF Associates

MONITORS, AUDIO & RF

AM SYSTEM
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CSP Inc.
Comad Communications
Continental Electronics Mfg.
Delta Electronics
Gorman Redlich
Harris Corporation, Broadcast
Products Division
Motorola Inc., Special Products
Potomac Instruments
ProTech Audio
Rohde & Schwarz
Rohde & Schwarz GmbH
Singer Products Co. Inc.
TFT
Wavetek Indiana

ANTENNA
Comad Communications
Delta Electronics
Gorman Redlich Mfg. Co.
Harris Corporation
Potomac Instruments

BASE CURRENT / ANT SAMPLING

BES Electronics Ltd.
Belar
CSP Inc.
Continental Electronics Mfg.
Cosmin Electronics
Delta Electronics
Geleco Electronics
Gorman Redlich
Potomac Instruments
Thomson-CSF

DIRECTIONALS

BES Electronics Ltd.
Belar
CSP Inc.
Coaxial Dynamics
Continental Electronics Mfg.
Cosmin Electronics
Delta Electronics
Gorman-Redlich Mfg. Co.
Harris Corporation, Broadcast
Products Division
Micro Communications
Potomac Instruments
Thomson-CSF

FM Systems

Broadcast Electronics
Rohde & Schwarz

FREQUENCY

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Broadcast Electronics, Inc.
Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
Eldson Electronic
Global Specialties Corp.
Harris Corporation, Broadcast
Products Division
McMartin Industries
Motorola
Philips Test & Measuring
Rohde & Schwarz
Rohde & Schwarz GmbH

Singer Products Co. Inc.
TFT Inc.
Tektronix
Thomson-CSF
True Time Instruments
Versa-Count
Wavetek Indiana

MODULATION

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Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
Harris Corp., Broadcast Products
Javelin Electronics
Kudelski S.A. Switzerland
McMartin Industries
Marconi Instruments Ltd.
Motorola Communications & Elect.
QEI Corp.
R. E. Instruments
Scientific-Atlanta
Singer Products Co. Inc.
TFT Inc.
Thomson-CSF
Versa-Count
Wavetek Indiana

PHASE MONITOR

Belar
CSP Inc.
Continental Electronics Mfg.
Delta Electronics
Dranetz Eng. Labs
Gorman-Redlich Mfg. Co.
Javelin Electronics
Jerrold Div., General
Instrument
Kajaani Oy
Marconi Instruments Ltd.
Potomac Instruments
Pro Tech Audio
Selco Products
Thomson-CSF
Video Aids of Colorado

POWER MONITOR

B & I Electronics
Belar
Bird Electronic
Bogen Division / Lear Siegler
Coaxial Dynamics
Delta Electronics
Harris Corporation, Broadcast
Products Division
Marconi Instruments Ltd.
Moseley Associates
Narda Microwave
Potomac Instruments
ProTech Audio
SGL Waber Electric
Sierra Audio Corp.
Thomson-CSF

PROGRAM MONITOR

Belar
Bogen Division / Lear Siegler
Harris Corp., Broadcast Products
ProTech Audio
Real World Technologies
Roh Corp.
Russco
Thomson-CSF
Ultra Audio Pixtec
Videotek
Video Aids of Colorado
World Video

RF LEVEL

B & I Electronics
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Bird Electronic
Coaxial Dynamics
Delta Electronics
Harris Corporation, Broadcast
Products Division
Jerrold Div., General Instru.
Marconi Instruments Ltd.
Moseley Associates
Potomac Instruments
R. E. Instruments
Rohde & Schwarz
Sadelco Inc.
Thomson-CSF

SCA MONITOR

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Cetec Broad Group
Comad Communications
Continental Electronics Mfg.
Harris Corporation
McMartin Industries
Rohde & Schwarz
Singer Products Co. Inc.
Swintek Enterprises
TFT Inc.
Thomson-CSF
Versa-Count

TV AURAL

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Comrex Corp.

MONITORS, VIDEO

B & W RACK

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Barco Video Systems
Robert Bosch GmbH
David H. Brothers Co.
Cinema Products
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Conrac Corp.
Crow of Reading Ltd.
Electrohome Ltd.
Elektroimpex
Fernseh Inc.
G.B.C. Closed Circuit TV Corp.
Harris Corp. Broadcast
Products Div.
Ikegami
Javelin Electronics
Lenco
Link Electronics
Motorola Communications & Elect.
NET Enterprises
Panasonic
Rohde & Schwarz
Rohde & Schwarz GmbH
Team Electronics
Tektronix
Telemation
Thomson-CSF
Veele Sefat
Videcom Engineering
Video I-D

B & W STANDALONE

Amtron Corp.
ATV Research
Audiotronics Corp.
Barco Video Systems
Robert Bosch GmbH Television
Cinema Products
Cohu, Electronics Division
Conrac Corporation
Crow of Reading
Electrohome Ltd.
Elektroimpex
Fernseh Inc.
G.B.C. Closed Circuit TV Corp.
Ikegami
Javelin Electronics
Lenco
Link Electronics
Motorola Comm. & Elect.
Panasonic
Rohde & Schwarz
Rohde & Schwarz GmbH
Team Electronics
Tektronix
Thomson-CSF
Veele Sefat
Video Aids of Colorado
Videcom Engineering
Visual Methods Inc.

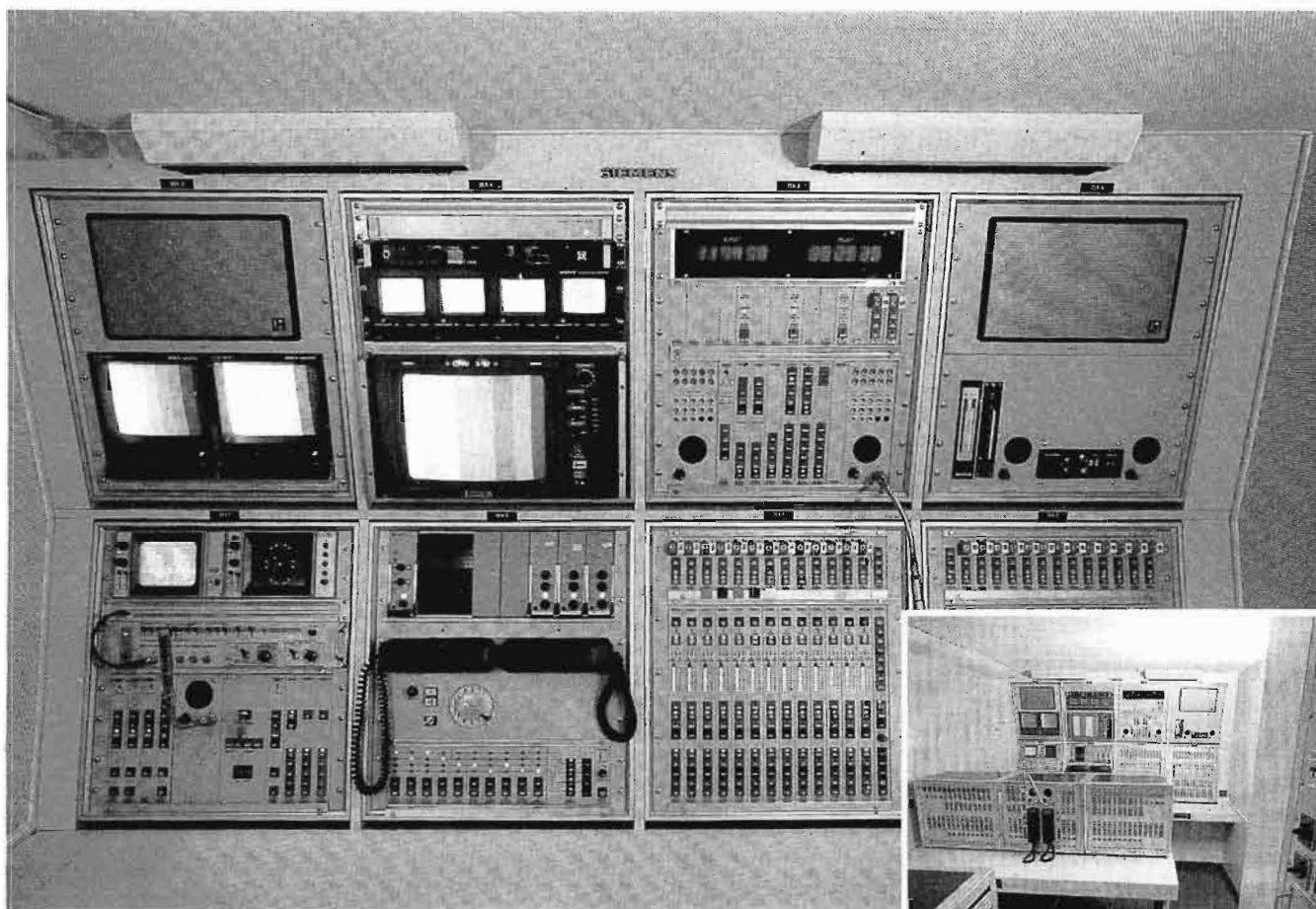
COLOR RACK

Adwar Video
Amtron Corporation of America
Asaca/Shibasoku
Autocue Products
Barco Video Systems

Continued on page 98

SIEMENS

A solide solution...



Siemens: a synonym for years of experience in sound control and studio engineering. Development, planning, manufacture and mounting of complete radio and television studios, intercommunications systems, microprocessor-controlled signal routing systems, sound control desks for all purposes and sizes, professional and semi-professional TV and radio transmission vans, speech and sound transmission systems of

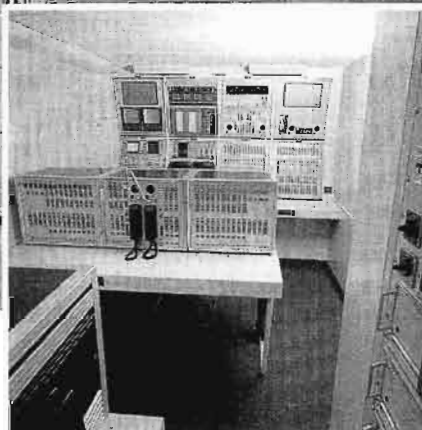
digital technique, peripheral modules for switch room and control desk applications.

For further details on sound control and studio engineering, please contact

Siemens AG Österreich
Division Ton- und Studioteknik
A-1031 Vienna, P.O.B. 326
Phone (0222) 73 45 11/103
Tx 1 33603

Sound control equipment – for Eurovision – OB van EW 11

Circle (56) on Action Card



TS 15

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Conrac
Crow of Reading Ltd.
Electro
Electro & Optical Systems
Electrohome
Elektroimpex
Fernseh Inc.
Hitachi
Ikegami
Lenco
Link Electronics
NET Enterprises
Panasonic
Pye TVT
Rohde & Schwarz
Rohde & Schwarz GmbH
Shintron
Sony Corporation of America
Team Electronics
Tektronix
Thomson-CSF
Velec Sefat
Videocom Engineering
Video I-D
Videotek Inc.
World Video

COLOR STANDALONE
Amtron Corporation of America
Asaca/Shibasoku
ATV Research
Autocue Products
Barco Video Systems
Robert Bosch GmbH
Broadcast Video Systems
Canter-Redman Technologies Corp.
Cinema Products
Conrac
Crow of Reading Ltd.
Electro
Electro & Optical Systems
Electrohome
Elektroimpex
Fernseh Inc.
Ikegami
Hitachi
Lectrotech Inc.
Lenco
Link Electronics
Panasonic
Pye TVT
Rohde & Schwarz
Rohde & Schwarz GmbH
Shintron
Sony
Team Electronics
Tektronix
Velec Sefat
Videocom Engineering
Video Aids of Colorado
Video I-D
World Video

PULSE CROSS
Adwar Video
Amtron Corporation of America
Asaca/Shibasoku
Autocue Products Ltd.
Barco
Robert Bosch GmbH
Cinema Products
Conrac
Crow of Reading
Electro
Electrohome
Fernseh Inc.
Ikegami
Lenco
Link Electronics
Panasonic
Rohde & Schwarz
Shintron
Tektronix
Videocom Engineering
Video Aids of Colorado
Video I-D
Videotek Inc.
World Video

RECEIVER / MONITORS
ATV Research
Adwar Video
Amtron Corporation
BCB Electronic Sales
Barco Electronic

Conrac
Crowder Communications
Crow of Reading Ltd.
Electro
Electro & Optical Systems
Electrohome
Lectrotech
Panasonic
Rohde & Schwarz
Team Electronics
Thomson-CSF
U.S. JVC Corporation
Videocom Engineering
Video Aids of Colorado
Video I-D
Videotek Inc.
World Video

WAVEFORM
(See Also Test Equipment)
Amtron Corporation
Broadcast Video Systems
Michael Cox
Cinema Products
Crow of Reading Ltd.
Elektroimpex
Hitachi
Image Devices Incorporated
Lectrotech
Lenco
Marconi Instruments Ltd.
Rohde & Schwarz
Tektronix
Thomson-CSF
Ultra Audio Pixtec
Video I-D
Videotek Inc.

MULTICARRIER SYSTEMS

Aydn Microwave
Coastcom
Calzone Case Co.
GTE Lenkurt Incorporated
Modulation Associates
Moseley Associates
C.N. Rood BV
Valtec Corporation

MULTIPLEXER

ATV Research
Alford Mfg. Co.
Artel Communications Corp.
Aydn Microwave
Aydn Monitor Systems
Bayly Engineering
Buhl Optical
CSP Inc.
Coastcom
Cohu, Electronics Division
Comark Communications
Dielectric Communications
Fernseh Inc.
GTE Lenkurt Incorporated
GTE Products Corp.
Ikegami Electronics
Kalart Victor
Laird Telemedia
Micro Communications
Modulation Associates
Mu-Dei Electronics
North Hills Electronics
Nytone Electronics Corp.
C.N. Rood BV
Shively Laboratories
Thomson-CSF
Zel-Mark Corporation

MUSIC PRODUCTION SERVICES

American Image Productions
Emil Ascher Music
BPI
The Broadcast Center
Century 21 Programming
The CnB Studios
CVE Recording
Columbia Special Products
Continental Recordings

DeWolfe Music Library
Kitchen Productions
Musicues
Network Production Music
Parasound Inc.
Real Radio Co.
Ken Schaffer Group
Tape-Athon / Cavox Stereo
Productions
Valentino Inc.

MUSIC PROGRAM SERVICES

Emil Ascher Music
BPI (Broadcast Programming
International)
The CnB Studios
CVE Recording
Century 21 Programming
Chase Media Inc.
Computer Management Systems
Concept Productions
DeWolfe Music Library
Drake-Chenault
KalaMusic
Klimian Sales Inc.
Kitchen Productions
Live Sound
Mighty Minute Programs
Musicues
Radio Computing Services
Real Radio Company
Sacred Sounds
Shane Media Services
Tape-Athon / Cavox Stereo
Productions
VIF International
Valentino Inc.
Video Data Systems

NETWORKS

AUDIO MATCHING
Bayly Engineering Ltd.
Leader Broadcast Systems
McCurdy Radio Industries
Sescom
Siemens AG Osterreich
TM Systems
TTE Inc.
Vidaire Electronics Mfg.

MIXING
Michael Cox
Leader Broadcast Systems
McCurdy Radio Industries
Modular Audio Products
NET Enterprises
ProTech Audio Corporation
Siemens AG Osterreich
Straight Wire Audio

PHASING
BES Electronics
CSP Inc.
Continental Electronics
Elcom-Bauer
Harris Corporation
Leader Broadcast Systems
McCurdy Radio Industries
NET Enterprises
Siemens AG Osterreich
TTE Inc.
Thomson-CSF

RF MATCHING
BES Electronics
Bayly Engineering
CSP Inc.
Continental Electronics
Dielectric Communications
Elcom Bauer
Harris Corporation
North Hills Electronics
S.W.R.
Siemens AG Osterreich
TTE Inc.
Texscan Corp.
Thomson-CSF
Wide Band Engineering

NEWS SERVICES

The Associated Press
United Press International

NOISE REDUCTION SYSTEMS, AUDIO

ADM Technology
AEG-Telefunken
(Bayly Engineering)
ATI-Audio Technologies Inc.
Advanced Analog Systems, Inc.
Aphex Systems
Applied Technology Corp.
Audio & Design Recording
Audionics of Oregon
Bruehl & Kjaer Instruments
Coastcom
Composite Video
dbx Inc.
Deltamod
Dolby Laboratories
EMT Franz
GTE Products Corp.
Harris Corporation, Broadcast
Products Division
IGM Communications
Inovonics
Integrex
Kintek
Leader Broadcast Systems
MXR Innovations
McCurdy Radio Industries
Micmix Audio Products
Modulation Associates
NEC America
NET Enterprises
Opamp Labs Inc.
Processing Plus
Ramko Research
Sierra Audio
Straight Wire Audio
Tascam, Div. of Teac
Valley People

NOISE REDUCTION SYSTEMS, VIDEO

Asaca/Shibasoku
Composite Video
Crow of Reading Ltd.
Digital Video Systems
Faroudja Laboratories
Fernseh, Inc.
Fortel
GTE Products Corp.
Harris Corporation
Microtime
NEC America
NET Enterprises
Philips Broadcast Group
Siegel - Electronics
Thomson-CSF

OSCILLATORS, TONE

Audisair
Broadcast Electronics
Broadcast Technology
Bruehl & Kjaer
CMC Technology Corp.
Channelomatic
Datatronix
Deltamod
Frequency Devices
Gorman-Redlich
Leader Broadcast Systems
McCurdy Radio Industries
Multidyne Electronics
Opamp Labs Inc.
Potomac Marine & Aviation
ProTech Audio Corporation
Rohde & Schwarz
Spectra Sonics
Sphere
Tektronix

Continued on page 100



EIMAC cavities cover 54 to 970 MHz at power levels to 30 kW —our design or yours

Varian EIMAC has complete cavity design and production capability. We make sure that tube and cavity are compatible. If it isn't an off-the-shelf-item, we have the designers and engineers for any specific job.

EIMAC has expertise in all disciplines including pulse, CW, FM, and TV. We match tube, power,

bandwidth and operating mode to achieve optimum performance.

More information on EIMAC cavities and tubes is available in our Cavity Capability brochure from Varian EIMAC. Or for prompt consideration of your special design requirements, contact Product Manager, Var-

ian EIMAC, or the nearest Varian Electron Device Group sales office. Call or write today.

Electron Device Group
Varian EIMAC
301 Industrial Way
San Carlos, California 94070
415 592-1221

Varian A.G.
Steinhauserstrasse
CH-6300 Zug, Switzerland
Tel: (042) 23 25 75
Telex: 78 841

EIMAC Cavity	Matching EIMAC Tube	Tuning Range (MHz)	Power Output
CV-2200	4CX20,000A	86-108	30 kW
CV-2220	3CX1500A7	86-108	1.5 kW
CV-2225	4CX3500A	86-108	5 kW
CV-2240	3CX10,000U7	54-88	10 kW†
CV-2250	3CX10,000U7	170-227	10 kW†
CV-2400	8874	420-450	300/1250 W*
CV-2800	3CX400U7	850-970	225 W
CV-2810	3CX400U7	910-970	190 W

*pulsed power

†peak sync, or 2.5 kW combined in translator service



OSCILLOSCOPES

(See Test Equipment)

PATCH PANELS

ADM Technology
Audio Accessories, Inc.
AudiTronics
Bayly Engineering Ltd.
Brabury Broadcast Systems
Broadcast Electronics
Broadcast Technology
Continental Electronics
Crow of Reading Ltd.
Datatronics
Dell Technical Vehicles
Dielectric Communications
Dyma Engineering
Dynamic Technology Ltd.
Dynatech Data Systems
Electro-Acoustic Designs
Elektroimpex
Farrtronics
Harris Corporation, Broadcast Products Division
Kings Electronics
Link Electronics
McCurdy Radio Industries
McMartin Industries
Micro Communications
Panoak Lighting Systems
Phelps Dodge Communications
Potomac Instruments
Rex Rheostat & Co., Inc.
S.W.R.
Shively Laboratories
Siemens AG Osterreich
Sphere
Strand Century
Switchcraft
Tascam, Div. of Teac
Theatre Technologies Inc.
Thomson-CSF
Trompeter Electronics
Union Connector Co., Inc.
Vector Electronic
Videomedia
Wireworks

PHASE CONTROLLER, AUTOMATIC

California Instruments
Delta
Micro Communications
NEC America
Rohde & Schwarz
Thomson-CSF

PHASE CONVERTERS

California Instruments
Kay Industries
Thomson-CSF
Wilkinson Electronics

PHASE CORRECTOR, CART

Howe Audio Productions

POWER CONTROLLER

Delta Electronics

POWER SUPPLIES

AEL (Am. Elec. Labs)
AKG Acoustics
AKG Akustische u. Kino-Gerate
Advance Conversion Devices
Alpha Technologies
Anton/Bauer
Beyer Dynamic
California Instruments
Catel
Christie Electric Corp.
Cinema Products

Cinetronics
Coastcom
Comprehensive Video Supply
Crowder Communications
Peter W. Dahl Co., Inc.
Dukane Corp.
Dynamote
Dynascan
Elektroimpex
Frequency Devices
GTE Products Corp.
Glassman High Voltage
Gould Inc./Instruments Div.
Harris Corp. Broadcast Products
Keithley Instruments
McCurdy Radio Industries
Microwave Power Devices
Modular Audio Products
Motorola Comm. & Elec.
Georg Neumann GwBH
North Wind Power Co.
Nova Electric Mfg. Co.
Opamp Labs, Inc.
PTS Electronics
Potomac Marine & Aviation
Power Products
ProTech Audio Corporation
Salt Electronics
Siemens AG Osterreich
Sorenson
Spectra Sonics
Systron Donner
Sytron Inc.
Teledyne Energy Systems
Tepco Corp.
Thomson-CSF
Vanner
Varian, MCSD
Vidair Electronics Mfg. Corp.

PREAMPLIFIERS

MICROPHONE
ADM Technology
AKG Acoustics
ATI Audio Technologies Incorporated
Amek TAC
Arrakis Systems
Audio & Design Recording
Audiolincs of Oregon
Audislar
AudiX Ltd.
Bayly Engineering Ltd.
Bell Audio Systems, Inc.
Bogen Division / Lear Siegler
Broadcast Electronics, Inc.
Broadcast Technology
Bruehl & Kjaer Instruments
Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
Datatek
Datatronics
Dukane Corp.
Dyma Engineering
Edcor
Elektroimpex
EV-Tapco
Full Compass Systems
Georg Neumann GwBH
Gregg Laboratories
Hammond Industries
Harris Corporation, Broadcast Products Division
ITT Electronics
Leader Broadcast Systems
MXR Innovations, Inc.
McCurdy Radio Industries
Micro - Trak Corporation
Miles Assoc., Div. of Miles
Air Products Ltd.
Modular Audio Products
Rupert Neve
Opamp Labs Inc.
Paso Sound Products
Processing Plus
ProTech Audio Corporation
Quad-Eight Electronics
RTS Systems
Ramko Research
Richmond Sound Design
Roh Corporation
Russo
Salt Electronics
Sescom Inc.
Shure Brothers
Siemens AG Osterreich

Sontec Electronics
Shure Brothers
Siemens AG Osterreich
Spectra Sonics
Sphere
Straight Wire Audio
TOA Electronics
Tri Tec Systems Inc.
Valley People

MODULES, FOR CONSOLES

ADM Technology
ALICE (Stancoll Ltd.)
Amek TAC
Arrakis Systems
Audio Technology
AudiX Ltd.
Bogen Division / Lear Siegler
Broadcast Electronics, Inc.
Broadcast Technology
Datatronics
Dyma Engineering
Elektroimpex
Georg Neumann GwBH
Howe Audio
Leader Broadcast Systems
McCurdy Radio Industries
McMartin
Micro - Trak Corporation
Modular Audio Products
Rupert Neve
Georg Neumann
Opamp Labs Inc.
ProTech Audio Corporation
Quad-Eight Electronics
Richard Sound Design
Roh Corporation
Salt Electronics
Sescom
Siemens AG Osterreich
Sontec Electronics
Spectra Sonics
Sphere Electronics
Straight Wire Audio
TOA Electronics
Telex Communications
Tri Tec Systems Inc.
Ward-Beck Systems

STEREO

ADM Technology
ATI Audio Technologies Incorporated
Arrakis Systems
Audio Technology
Audiolincs of Oregon
Audislar
AudiX Ltd.
Broadcast Electronics
Bryston
Comad Communications
Continental Electronics Mfg.
Crown International
Dyma Engineering
Ear Systems Inc.
Elektroimpex
Full Compass Systems
Georg Neumann GwBH
Harris Corporation, Broadcast Products Division
Integrated Sound Systems
Leader Broadcast Systems
Logitek Electronic Systems
MXR Innovations
McCurdy Radio Industries
Micro - Trak Corporation
Rupert Neve
Georg Neumann
Panasonic, Professional Audio Div.
Processing Plus
ProTech Audio Corporation
RTS Systems
Ramko Research
Richmond Sound Design
Roh Corporation
Rohde & Schwarz
Rohde & Schwarz GmbH
C.N. Rood B.V.
Russo
Salt Electronics
Sescom, Inc.
Siemens AG Osterreich
Sontec Electronics
Sphere
Stanton Magnetics
Straight Wire Audio
Teac Corp. of America

Telex Communications, Inc.
Valley People
Vidair Electronics Mfg. Corp.

TURNTABLE

ADM Technology
ALICE (Stancoll Ltd.)
Applied Technology
Arrakis Systems
ATI Audio Technologies Inc.
Audio Path
Audio Technology
Audiolincs of Oregon
Audislar
AudiX Ltd.
Bogen Division / Lear Siegler
Broadcast Audio Assoc.
Broadcast Electronics
Bryston
Cetec Broadcast Group
Comad Communications
Continental Electronics Mfg.
Crown International Inc.
D-B Electronics
Datatronics
Dyma Engineering
Full Compass Systems
Gregg Laboratories
Hammond Industries
Harris Corporation, Broadcast Products Division
Howe Audio
Leader Broadcast Systems
Logitek Electronic Systems
LPB Inc.
MXR Innovations
McCurdy Radio Industries
McMartin Industries
Micro-Trak Corporation
Opamp Labs Inc.
Processing Plus
ProTech Audio Corporation
RTS Systems
Radio Systems
Ramko Research
Research Systems Tech.
Russo
Sescom
Sontec Electronics
Stanton Magnetics
Straight Wire Audio
Tweed Audio USA Inc.
Vidair Electronics Mfg.

VIDEO

Acrodyne
Blonder-Tongue Laboratories
Comad Communications
Crow of Reading Ltd.
International Nuclear Corp.
Opamp Labs Inc.
Rohde & Schwarz
Thomson-CSF

PROCESSORS, AUDIO

ATI Audio Technologies Inc.
Aphex Systems Ltd.
Applied Technology Corp.
Audio & Design
Audio Path
Broadcast Electronics
Circuit Research Coastcom
Comad Communications
Composite Video
Deltamod
Dyma Engineering
Eventide Inc.
Greg laboratories
IGM Communications
Inovonics
Integrated Sound
Kahn Communications
Labs Inc.
Lexicon
MXR Innovations
Modulation Sciences
Orban Associates
Processing Plus
ProTech Audio
Pyramid Loudspeaker Corp.
Richmond Sound Design
Sontec Electronics
Spectra Sonics
Trident (USA)

Continued on page 102



IMPROVE YOUR IMAGE

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angénieux

Angénieux has developed for your needs, the complete modular lens systems. With selectable attachments, we cover—from the widest wide angle to the super telephoto with the same basic lens.

These systems cover studio lenses with outstanding optical quality as well as durable, lightweight, compact ENG, EFP and field lenses.

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if you're thinking about purchasing a good lens
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Circle (58) on Action Card

VIF International
URSA Major
Valley People

PRODUCTION/ POST-PRODUCTION SERVICES

Action Video
BCB Electronic Sales Ltd.
Bonneville Productions
The Broadcast Center
Center City Video
Compro
Dolphin Productions
Golden Egg
Interface Video Systems
Imero Fiorentino Assoc.
Bernie Krause/Gary Remal
LTI Productions
Leo Diner Films
McQ Productions
Master Digital Inc.
Mobile Visual Productions
NET Enterprises
New Earth Television Works
Systems Ltd.
Oak Communications Inc.
Satellite Systems
Optical Radiation
Quantum Audio Labs
R.A.V.E./Reliable Audio Video
Enterprises
Rank Precision Industries, Inc.
(Cintel Div.)
K.L. Rubel & Assoc., Ltd.
Smith-Mattingly Productions Ltd.
E.J. Stewart Inc.
Teleconcepts in Communications
Television Assoc. Inc.
Television Production Services
Television International
Operations, Ltd.
Trans-American Video
Unidek Film Editing Systems
Valentino Inc.
Vipro Program Services
Video Workshop

PROJECTORS

FILM CHAIN
Buhl Optical
Crow of Reading Ltd.
Eastman Kodak
Harris Corporation, Broadcast
Products Division
Ikegami Electronics
Image Devices Incorporated
Kalart Victor Corporation
Laird Telemedia
L-W International
Mobile Visual Productions
Multi-Track Magnetics
Rangertone Research
Rank Precision Industries
(Cintel Div.)
Spendler & Sauppe
Westrex
The Zei-Mark Corp.

LARGE SCREEN TV
Advent Corp.
Barco Electronic
Canter Redman Technologies Corp.
Conrac
Eidophor Ltd.
Electro
Electrohome Ltd.
General Electric Co. - Video
Display Equipment Operation
Image Magnification Inc.
Kalart Victor Corporation
Link Electronics
Panasonic
Tele Concepts in Communications

SLIDE
Buhl Optical
Crow of Reading Ltd.
Datatron
Eastman Kodak
The Great American Market

Harris Corporation, Broadcast
Products Division
Interand
Kalart Victor
Laird Telemedia
Mobile Visual Productions
Optical Radiation
Rank Cintel
Rangertone Research
Research Technology Int'l.
Spendler & Sauppe
The Zei-Mark Corp.

PROMPTERS

Autocue Products Ltd.
BEI (Beston Electronics)
Cinema Products
D'San Corporation
Listec Television Equipment Corp.
Q-TV
Telescript
Texscan/MSI Corporation

PULSE ASSIGNMENT SYSTEMS

Audico Inc.
Central Dynamics
Litch Video
Lenco
Thomson-CSF

RF COMPONENTS

Andrew Corp.
BES Electronics
Calvert Electronics
Catal
Coaxial Dynamics
Compac Development Corp.
CSP Inc.
Delta Electronics
Elcom-Bauer
Gralex
Jerrold Div.
Magnecraft Electric Co.
Marconi Instruments Ltd.
Marshall Electronics
Micro Communications
Motorola
Mu-Del Electronics
North Hills Electronics
Nurad Inc.
Phelps Dodge Communications
Rohde & Schwarz
S.W.R.
Scientific Atlanta Phoenix Div.
Shively Labs
TL Systems
Texscan
Thompson-CSF
Tramec Electronics
UTE Microwave
Varian MCS-D
Varian Associates

READER FOR TIME CODE IN VERTICAL INTERVAL

BTX Corporation
Control Video Corp.
Datatron
Dynamic Technology Ltd.
EECO Inc.
Gray Engineering Labs
Skotel Corp.
Telcom Research

RECEIVERS

AM RECEIVER
TFT Inc.

DAT
AEG-Telefunken
Aydin Microwave
Catal (Division of United Scientific)

Datum Inc.
Johnson Electronics
Radio Data Systems
Technology Service Corp.

EARTH STATION
AEG-Telefunken
Andersen Scientific
Anixter Mark
Automation Techniques
Aydin Microwave
Blonder-Tongue Labs
California Microwave
Coastcom
Comad Communications
ComTech Data
Conifer
Crowder Communication
Gardiner Communications
Harris Corp., Broadcast Products
Hughes Aircraft Co.,
M/A-COM Video Systems
International Microwave Corp.
Microdyne Corporation
Modulation Associates
NEC America
Oak Communications Inc.
Satellite Systems
Rohde & Schwarz
SED Systems
Satcom Inc.
Satvision
Scientific-Atlanta
Standard Communications
TL Systems
TerraCom-Loral
Triple Crown Electronics
United States Tower
Velec Sefat

EBS RECEIVER
AEG-Telefunken
Automation Techniques
Broadcast Electronics
Emergency Alert Receiver
Gorman-Redlich Mfg. Co.
Harris Corp., Broadcast Products
International Nuclear Corp.
Johnson Electronics
McMartin Industries
Radio Systems Inc.
Rivers Associates Inc.
TTF Inc.

FM RECEIVER
AEG-Telefunken
Audix Ltd.
Bogen Division / Lear Siegler
Catal
Comad Communications
Electra Co., Div. of Masco
Emergency Alert Receiver Inc.
Gorman Redlich Mfg. Co.
McMartin Industries
Micro Communications
Paso Sound Products
Pyramid Loudspeaker Corp.
R - Columbia Products
Regency Electronics
Rohde & Schwarz
Scientific Atlanta Phoenix Div.
H.H. Scott
Sharp Electronics
Studer International AG
Studer ReVox America
Swintek Enterprises
TFT Inc.
Triple Crown Electronics

MICROWAVE
AEG-Telefunken
Automation Techniques
Aydin Microwave
Cablewave Systems
Conifer Corp.
Datum
Farinon Video/Harris Corp.
Harris Broadcast Microwave
Harris Corp., Broadcast Products
International Microwave Corp.
M/A-COM Video Systems
Marconi Instruments Ltd.
Moseley Associates
NEC America
Nurad Inc.
R.F. Technology
RHG Electronics

Satvision
Tayburn Electronics
Tepco Corp.
Terracom - Loral
Visual Methods Inc.

RECEIVER/GENERATOR

Delta Electronics

SCA
AEG-Telefunken
Bogen Division/Lear Siegler
David H. Brothers Co.
Comad Communications
Continental Electronics Mfg.
Emergency Alert Receiver Inc.
Harris Corp., Broadcast Products
Johnson Electronics
McMartin Industries
Moseley Associates
Radio Data Systems, Inc.
Rohde & Schwarz
TFT Inc.

STL
AEG-Telefunken
Artel Communications
Aydin Microwave
Broadcast Electronics
Cablewave Systems
Comad Communications
Continental Electronics Mfg.
Harris Corp./Farinon Video
International Microwave Corp.
McMartin Industries
M/A-COM Video Systems
Martel
Micro Control Associates, Inc.
Moseley Associates
Phelps Dodge Communications
R.F. Technology
RHG Electronics
Swintek Enterprises
TFT Inc.
Tayburn Electronics
Versa-Count

TSL
TFT Inc.

TIME (WWW)
AEG-Telefunken
Catal
ESE
McKay Dymek Company
Scientific Radio Systems
Tepco Corp.
True Time Instruments

WEATHER, VHF
AEG-Telefunken
Alden Electronic Impulse
& Recording Equipment
Catal
Electra, Div. of Masco
Emergency Alert Receiver
Gorman Redlich
Kudelski S.A. Switzerland
Heath Company
Motorola Communications & Elec.
Regency Electronics
Scientific Radio Systems

RECEIVER, TV AURAL

Rohde & Schwarz

RECORDER PARTS & ACCESSORIES

CAPSTAN ASSEMBLY
Broadcast Electronics
Century 21 Programming
Consolidated Electronic Ind.
Leader Broadcast Systems
Merlin Engineering
Neal-Ferroglyph
Studer ReVox America
Telectro Systems
UMC Electronics
VIF International

CARE KITS

Allsop
R. B. Annis Co.
Broadcast Electronics
Century 21 Programming
Chemtronics
Fidelipac
G.C. Electronics
Harris Corp., Broadcast
Products Div.
Leader Broadcast Systems
Marathon Products
Merlin Engineering
Neal-Ferrograph
Nortronics
PAG - Group
Studer ReVox America
Teac Corp. of America
The Texwipe Company

DRIVE MOTOR POWER SUPPLY

Broadcast Electronics
Century 21 Programming
Consolidated Electronic Ind.
Leader Broadcast Systems
Merlin Engineering
Neal-Ferrograph
Studer ReVox America

ELECTRONICS

Audi-Cord
Broadcast Electronics
Brush Magnetic Heads
Consolidated Electronic Ind.
Inovonics
Leader Broadcast Systems
Merlin Engineering
Neal-Ferrograph
Sontec Electronics
Studer ReVox America
Taber Mfg. & Eng.
Teac Corp. of America
UMC Electronics
United Research Lab Corp.
Videomagnetics
VIF International
Westrex

HEADS (See Heads)

MOTORS

Audi-Cord
Broadcast Electronics
Brush Magnetic Heads
Century 21 Programming
Consolidated Electronic Ind.
International Electro-Magnetics
Leader Broadcast Systems
Merlin Engineering
Neal-Ferrograph
Studer ReVox America
Taber Mfg. & Eng. Co.
Telectro Systems
UMC Electronics
United Research Lab Corp.
VIF International

SERVO MODIFICATIONS

Consolidated Electronic Ind.
Inovonics
Marconi Electronics
Merlin Engineering
Multi-Track Magnetics
Recortec
Studer ReVox America
Video Associates Labs

SPEED CONTROLS

Cherry, Semiconductor
Consolidated Electronic Ind.
Leader Broadcast Systems
Merlin Engineering
Multi-Track Magnetics
Neal-Ferrograph
Studer ReVox America
Unemco International

SYNCHRONIZERS

Audiotronics
The BTX Corporation
Consolidated Electronic Ind.
EECO Incorporated
Kudelski S.A. Switzerland
Leader Broadcast Systems
Merlin Engineering
Multi-Track Magnetics

Neal-Ferrograph
Skotel Corporation
Studer International AG
Studer ReVox America
Telcom Research
Tiffen Manufacturing Corp.

TAPE DECK CABINETS

Broadcast Electronics
Consolidated Electronic Industries
Ear Systems Inc.
Grinnan Fixture
Leader Broadcast Systems
Micro-Trak
Merlin Engineering
Otari Corp.
Sound Dynamics
Studer ReVox America
UMC Electronics
Winsted Corp.

TAPE DECKS

AEG-Telefunken
Amilon Corp.
Ampro-Scully
Audi-Cord
Broadcast Electronics
David H. Brothers Co.
Century 21 Programming
Consolidated Electronic Industries
International Electro-Magnetics
Kudelski S.A.
Leader Broadcast Systems
Merlin Engineering
Neal-Ferrograph
Rupert Neve
Panasonic, Professional Audio Div.
Sound Dynamics
Studer ReVox America
Tascam, Div. of Teac
Telectro Systems
Telex Communications
Triple I Inc.
UMC Electronics
United Research Lab Corp.
VIF International

TENSION CONTROLS

Broadcast Electronics
Consolidated Electronic Industries
Inovonics
K. B. Systems
Merlin Engineering
Recortec
UMC Electronics
VIF International

TRANSPORT SERVICES

Century 21 Programmer
Consolidated Electronic Industries
Leader Broadcast Systems
Merlin Engineering
Neal-Ferrograph
Recortec
Sound Dynamics
Taber Mfg. & Eng.
VIF International

VELOCITY ERROR CORRECTORS

CMC Technology Corporation
Consolidated Electronic Industries
Merlin Engineering
Studer International AG

RECORDERS, AUDIO TAPE

CARTRIDGE (See Cart Machines)

CASSETTE (See Cassette Machines)

DIGITAL

Amilon Corp.
Comex Systems
Consolidated Electronic Industries
3M Company, Video Products
MCI
Master Digital Inc.
Panasonic, Professional Audio Div.
Rangertone Research Inc.
Sony

FILM RECORDER

Enertec Schlumberger
Kudelski S.A. Switzerland

Magna-Tech Electronic Co.
Magnasync/Moviola
Multi-Track Magnetics
Rangertone Research
Rank Cintel Ltd.
Westrex

LOGGING

Amilon Corp.
Ampro-Scully
Broadcast Electronics
David H. Brothers Co.
Consolidated Electronic Industries
Continental Electronics Mfg.
Dictaphone Corporation
Elektroimpex
IGM Communications
International Electro-Magnetics
Kudelski S.A. Switzerland
Leader Broadcast Systems
Magnasync/Moviola
Nagra Magnetic Recorders
Neal-Ferrograph (USA), Inc.
Otari
QSI Systems
Singer Products Co. Inc.
Soundscriber Magnetic
Recording Co. Inc.
The Stancil-Hoffman Corporation
Studer ReVox America
Telectro Systems
Telex Communications

REEL: ONE & TWO TRACK

Accurate Sound
Ampro-Scully
BASF Limited
David H. Brothers Co.
Cetec Broadcast Group
Consolidated Electronic Industries
Continental Electronics Mfg.
Electro Sound
Elektroimpex
Enertec Schlumberger
IGM Communications
ITC/3M
Kudelski S.A. Switzerland
Leader Broadcast Systems
Lyrec Manufacturing A/S
Magna-Tech Electronic Co.
MCI
Microprobe Electronics
Micro-Trak
Nagra Magnetic Recorders
Neal-Ferrograph (USA) Inc.
Rupert Neve
Northland Communications
Otari
Pacific Recorders
Panasonic, Professional Audio Div.
Ramko Research
RCA Broadcast
L. J. Scully Manufacturing Corp.
Singer Products Co. Inc.
Sono-Mag
Sound Dynamics
Soundscriber Magnetic Recording
Stancil Corp.
Stillavox
Studer International AG
Studer ReVox America
Tascam, Div. of Teac
Telex Communications
United Research Lab Corp.
VIF International

REEL: FOUR TRACK

Accurate Sound
Ampro-Scully
Consolidated Electronic Industries
Continental Electronics Mfg.
IGM Communications
Kudelski S.A. Switzerland
Lyrec Manufacturing A/S
Microprobe Electronics, Inc.
MCI Inc.
Nagra Magnetic Recorders
Neal-Ferrograph (USA) Inc.
Rupert Neve
Northland Communications
Otari
Ramko Research
S.J. Scully
Singer Products Co. Inc.

Stancil Hoffman
Stillavox
Studer International AG
Studer ReVox America
Tascam, Div. of Teac
Telex Communications, Inc.
United Research Lab Corp.
VIF International

REEL: MULTI-TRACK

Accurate Sound
Ampro-Scully
Consolidated Electronic Industries
Continental Electronics Mfg.
Dictaphone Corporation
Leader Broadcast Systems, Inc.
Lyrec Manufacturing A/S
MCI Inc.
Rank Cintel Ltd.
Rupert Neve
Otari
Sierra Audio Corp.
Singer Products Co. Inc.
Soundcraft Electronics
Stancil-Hoffman
Stillavox
Studer International AG
Studer ReVox America
Tascam, Div. of Teac
Telex Communications, Inc.
Trident (USA) Inc.
United Research Lab Corp.
VIF International

RECORDERS, VIDEOTAPE

1/4 - INCH

Fernseh
Hitachi
Ikegami
Technicolor

1/2 - INCH

Action Video Inc.
Adwar Video
Canter Redman Technologies Corp.
Feathercam Inc.
Ikegami Electronics
Javelin Electronics
Merlin Engineering
NET Enterprises
Panasonic
QSI Systems
RCA
Sharp Electronics
Sony Corp. of America
US JVC Corporation
Video I-D

3/4 - INCH

Action Video Inc.
Adwar Video
Merlin Engineering
NET Enterprises
Panasonic
RCA
Recortec
Sony Corporation of America
US JVC Corporation
Video I-D
Video Masters

1 - INCH

A.F. Associates
Adwar Video
Ampro
BCB Electronic Sales Ltd.
Robert Bosch GmbH
Fernseh Inc.
Hitachi
International Video Corp.
3M Company, Video Products
Marconi Electronics
Merlin Engineering Works
NEC America
Philips Broadcast Group
RCA Broadcast Systems
Sony Corporation of America
Video Masters

Extended Play Kit
Marconi Electronics

Continued on page 104

Merlin Engineering Works
Recortec

QUAD

A.F. Associates
Ampex
Robert Bosch GmbH
Marconi
Merlin Engineering
RCA Broadcast Systems
Recortec
Video Masters

LOGGING

David H. Brothers Co.
Fernseh Inc.
Merlin Engineering
QSI Systems

RECONDITIONED MACHINES

A.F. Associates
Merlin Engineering Works

SLOW MOTION REPLAY

Ampex
Arvin Echo
Brabury Broadcast Systems
Elgen Video
Fernseh Inc.
Javelin Electronics
Marconi Electronics
Merlin Engineering Works
NEC America, Broadcast
Equipment
NET Enterprises
Okte Corporation
Panasonic
RCA Broadcast Systems
Television Graphics
U.S. JVC Corporation

RECORDING SERVICES, AUDIO

Accurate Sound
American Image Productions
Bonneville Productions
CVC Recording
Century 21 Programming
Command Productions
Compact Video
Compro Productions
Continental Recordings
Highland Labs
Master Digital Inc.
Musicues
W.A. Palmer Films, Inc.
Real Radio Company
Richmond Sound Design
See Hear Industries
Sierra Audio
John M. Sullivan Assoc., Inc.
Tape
Tuesday Productions
Video Workshop
9 West Recording Studio

RECORDS

AUDIO TEST

Audio-Technica US, Inc.
Bruei & Kjaer Instruments
Leader Broadcast Systems
Ortofon A/S
Shure Brothers

SOUND EFFECTS

Emil Ascher Music
Century 21 Programming
Columbia Special Products (CBS
Records)
Comprehensive Video Supply
Leader Broadcast Systems
Tech Theatre Inc.
Valentino Inc.

REELS

AUDIO TAPE

Broadcast Electronics, Inc.
Continental Electronics
Dictaphone

D'San Corporation
ENG Corp.
Hannay Reels
Harris Corporation, Broadcast
Products Division
Leader Broadcast Systems
3M Mag A/V Products Division
Pan Canada Magnetics Ltd.
Plastic Reel Corp.
Polyline Corp.
See Hear Industries
The Stancil-Hoffman Corporation
Studer ReVox America
Tascam, Div. of Teac
VIF International

CABLE & MIKE

(See Cables)

VIDEOTAPE

Calico Video
Fuji Magnetic Tape Division
Goldberg Bros. Inc.
J&R Film Co., Inc.
Javelin Electronics
3M Mag A/V Products Division
Panasonic
Plastic Reel Corp.
Polyline Corp.
RCA Service Company
Re-Play Video Cartridge Service
Schuessler Case
See Hear Industries

REGULATORS VOLTAGE

AEG-Telefunken
(Bayly Engineering)
California Instruments
Cinetronics
Continental Electronics
DTE Superior Electric Co.
Lightning Elimination Associates
MCG Electronics
Motorola
Spectra Sonics
The Superior Electric Co.
Sytron Inc.
Thomson-CSF
Topaz Electronics
TransTector Systems
Vidaltre Electronics

RECTIFIERS

POWER (SEMICONDUCTOR)

AEG-Telefunken
(Bayly Engineering)
Amperex Electronics
Calvert Electronics
Ceco Communications
Electronic Devices
GTE Products Corp.
Motorola
RCA Distributor & Special
Products
Thomson-CSF

SCR

AEG-Telefunken
(Bayly Engineering)
Amperex Electronics
Calvert Electronics
Ceco Communications
Comprehensive Video Supply
Electronic Devices
Motorola
RCA Distributor & Special
Products
Thomson-CSF

STACK

Amperex Electronics
Calvert Electronics
Ceco Communications
Electronic Devices

TUBES (See Tubes)

REMOTE CONTROL SYSTEMS, AM-FM

Bayly Engineering
Broadcast Electronics
Channematic
Comad Communications
Communication Control
Centers Inc.
Delta Electronics
Harris Corporation
Hallikainen & Friends
Micro Control Assoc.
Monroe Electronics
Moseley Associates
Potomac Instruments
Rohde & Schwarz
C.N. Rood B.V.
Soll Inc.
TFT Inc.
Tayburn
Torpey Controls & Engineering
Tramec Electronics
Video Specialties
Zercom Corp.

REMOTE CONTROL SYSTEMS, VIDEO

Advanced Analog Systems
Airborne Video Systems Corp.
Altha Video & Elect. Corp.
American Data
Asaca/Shibasoku
David H. Brothers
CALDATA COM
Cat Systems
Channematic
Cinema Products
Cohu, Electronics Division
Communications Control Centers
Control Video Corporation
Michael Cox
Crow of Reading Ltd.
Delta Electronics
DI-tech
Dynair Electronics
Dynamic Technology Ltd.
Fernseh Inc.
GBC Closed-Circuit TV
Harris Corporation, Broadcast
Products Division
Image Video Limited
Javelin Electronics
Jenel Corp. Consulting Engineers
Micro Control Associates
Monroe Electronics
Moseley Associates
NEC America
Panasonic
Phillips Broadcast Group
PWH Electronics Limited
Rohde & Schwarz
Soll Inc.
Tayburn Electronics
TFT Inc.
Thomson-CSF
Torpey Controls & Engineering
United Media
Vamco Engineering
Video Specialties
Video Tape Systems

REMOTE PICKUP SYSTEMS

Altha Video & Elect. Corp.
Broadcast Electronics
Centro
Comrex Corporation
Farinon Video/Harris Corp.
Harris Broadcast Microwave
Harris Corporation, Broadcast
Products Division
Kaitronics
Lang Video Systems
McCurdy Radio Industries
McMartin Industries
Marti

Micro Control Associates
Micro-Trak
Moseley Associates
Motorola Communications
and Electronics
Nady Systems
Norcom Manufacturing
Northland Communications
R F Technology
Rivers Associates
Sound Dynamics
Tayburn

REPEAT COILS

ITI Electronics Inc.
Video Aids of Colorado

RETICULE SAFE AREA/TITLE

Amtron Corp.
CMC Technology Corp.
Gray Engineering Labs
Porta-Pattern Telecommunications

REVERBERATION UNITS

AKG Acoustics
AKG Akustische u. Kino-Gerate
Advanced Analog Systems
Audicon Inc.
Audio & Design
Comex Systems
Deltalab Research
EMT Franz
EV-Tapco
Eventide Inc.
IGM Communications
Klark-Teknik Research Ltd.
Leader Broadcast Systems
Lexicon
Micmix Audio Products
Orban Associates
ProTech Audio Corporation
Quad Eight
Sony
Ursa Major
VIF International

REWINDERS, TAPE

(See Tape Accessories)

SAFE AREA GENERATORS

Asaca/Shibasoku
Broadcast Video Systems
CMC Technology
Crow of Reading Ltd.
Gray Engineering Labs

SATELLITE DISTRIBUTION SERVICES

AEG-Telefunken
American Satellite Company
Bonneville Satellite Corp.
California Microwave
Catel (Division of United Scientific)
Centro
Comad Communications
Compucon Inc.
Comtec Data Corp.
Crowder Communications Ltd.
Global Video Comm. Corp.
Modulation Associates
New Earth Television Works
Oak Satellite Corp.
RCA Americom
SED Systems
Satvision
Scientific-Atlanta, Phoenix Div.
Telecommunications System
Tuesday Productions
Video Tape Systems

Western Union Telegraph
Wold Communications

SCRAMBLERS

AEG-Telefunken
(Bayly Engineering)
Don Britton Ent.
CALDATACOM
Coherent Communications
Crowder Communications
Dynamac Electronics Ltd.
Dynamic Technology
Eagle Comtronics
Fung Eng. Labs, Inc.
Magnavox CATV Systems
Microtime
Motorola Communications
and Electronics
Oak Satellite Corp.
QSI Systems
Scientific Radio Systems
Swintek Enterprises
Torrey Controls & Engineering
Video Tape Systems

SEMICONDUCTORS

Calvert Electronics
Ceco Communications
Cherry Semiconductor
Dynamic Technology Ltd.
Electronic Devices
Fairchild CCD Imaging
Harris Corporation, Broadcast
Products Division
Levit Electronics
Motorola
RCA Distributor & Special
Products
Thomson-CSF
Transecter Systems
Varian Associates

SCREENS

FRONT PROJECTION
Bretford Mfg.
Eastman Kodak
Da-Lite Screen
Electrohome
Hoppmann Corporation
Raven Screen Corp.
Research Technology Int'l.
The Screen Works
Simon Associates
Tech Theatre Inc.
Wilcox - Lange Inc.

REAR PROJECTION
Da-Lite
Hoppmann Corporation
Raven Screen Corp.
Research Technology Int'l.
The Screen Works
Simon Associates
Tech Theatre Inc.
Uni-Set Corp.
Wilcox - Lange Inc.

SENSORS, TONE

Don Britton Ent.
Century 21 Programming
Channelmatic
Coney Electro Systems
IGM Communications
Leader Broadcast Systems
Monroe Electronics
Potomac Marine & Aviation
Processing Plus
ProTech Audio Corporation
Rivers Associates
VIF International

SLIDES, TEST

D & S Corley Ltd.
Porta - Pattern Telecommunications
Thomson-CSF

SLOW SCAN TV SYSTEMS

David H. Brothers Co.
Colorado Video
Interand
Javelin Electronics
NEC America, Broadcast
Equipment

SOLAR CELLS, PHOTOVOLTAIC

AEG-Telefunken
Bayly Engineering
Motorola
North Wind Power Co.
Teledyne Energy Systems
Television Technology

SOUND SYSTEMS

LEVEL CONTROL
ATI Audio Technologies Inc.
Audio & Design Recording
Audix Ltd.
Bogen Division / Lear Siegler
Circuit Research Labs
EV-Tapco
Elektroimpex
Leader Broadcast Systems
MXR Innovations
McCurdy Radio Industries
Micro-Trak
ProTech Audio Corporation
Sait Electronics
Siemens AG Osterreich
Spectra Sonics
Swintek Enterprises
Tele Concepts in Communications
Telectro Systems Corp.
Vidair Elec. Mfg.

PORTABLE
Amek TAC
Argos Products
Atlas Sound
Audio & Design Recording
Audix Ltd.
Auratone
Bogen Division / Lear Siegler
David H. Brothers Co.
Cetec Vega
Coherent Communications
Dukane Corp.
EV-Tapco
Electro-Acoustic Design
Elektroimpex
Hoppmann Corp.
Ivie Electronics
Kudelski SA Switzerland
Harrison Systems
Leader Broadcast Systems
MXR Innovations
Micro-Trak
Northland Communications
Paso Sound Products
Perma Power Electronics
ProTech Audio Corporation
Sait Electronics
Shure Brothers
Spectra Sonics
TOA Electronics
Telectro Systems Corp.
Video Masters

STUDIO
Audio & Design Recording
Audix Limited
Auratone
Bogen Division / Lear Siegler
Dukane Corp.
EV-Tapco
Electro-Acoustic Design
Elektroimpex
Fostex
Harrison Systems
Hartley Products
Hoppmann Corp.
Klipsch & Associates
Leader Broadcast Systems

MXR Innovations
McCurdy Radio Industries
Micro-Trak
Perma Power Electronics
ProTech Audio Corporation
Richmond Sound Design
Sait Electronics
Siemens AG Osterreich
Sony
Spectra Sonics
TOA Electronics
Ultra Audio Pixtec
Video Masters

SPEECH RECOGNITION SYSTEMS

Heuristics
Logica
NEC America, Broadcast
Equipment
New England Digital Corp.

SPEECH SYNTHESIS SYSTEMS

Comex Systems
Delta Electronics
National Semiconductor
R F Technology
Telesensory Systems
Texas Instruments
Video Specialties

STL EQUIPMENT SYSTEMS

AEG-Telefunken
(Bayly Engineering)
Artel Communications Corp.
Aydin Microwave
Broadcast Electronics
Catal (Division of United Scientific)
Cetec Broadcast Group
Coastcom
Comad Communications
Continental Electronics
Farinon Video/Harris Corp.
GTE Lenkurt Incorporated
Harris Broadcast Microwave
Harris Corporation, Broadcast
Products Division
IGM Communications
International Microwave Corp.
Jenel Corp. Consulting Engineers
McMartin Industries
MIA-COM Video Systems
Martel
Micro Control Associates
Moseley Associates
RF Technology
RHG Electronics
Rockwell International
C.N. Rood B.V.
Singer Products Company
Studer ReVox America
TFT Inc.
Tayburn Electronics
Telecommunications System
Telcom Research
Terracom
Tramec Electronics
Versa - Count

STV SYSTEMS

Blonder-Tongue Laboratories
Comtech Antenna Corp.
Conifer Corp.
Dynamac Electronics Ltd.
The Finney Co.
Oak Communications

STANDARDS CONVERTERS/ SERVICES

Audio Plus Video

Broadcast Video Systems
Canter-Redman Technologies Corp.
Michael Cox
Fernseh Inc.
Global Video Comm. Corp.
MCI / Quantel
OKI Electric Overseas Corp.
Quantel Ltd.
Thomson-CSF

STILL / SLIDE STORE, ELECTRONIC

Adda Corporation
Ampex
Arvin Echo
Digital Video Systems
Eigen Video
Fernseh Inc.
Grove Video
Harris Corporation, Broadcast
Products Division
Harris Video Systems
Logica
Lyon Lamb
MCI / Quantel
Oktel Corporation
Precision/Echo Science
Quantel Ltd.
Thomson-CSF

SCA EQUIPMENT

Belar
Bogen Division / Lear Siegler
Broadcast Electronics
Comad Communications
David H. Brothers Co.
Elcom Specialty Products
Harris Corporation
IGM Communications
Johnson Electronics
McMartin Industries
Micro Control Associates
Moseley Associates
Printer Terminal Communications
Rivers Associates
Rohde & Schwarz
C.N. Rood BV
Solid Electronics
Swintek Enterprises
TFT Inc.
TOA Electronics

STUDIO DESIGN SERVICES

AVC
Aderhold Construction Co.
Angelvine Acoustical Consultants
Crow of Reading Ltd.
Dyma Engineering
East Coast Video
Electro-Acoustics Design
Harris Corporation
Kenneth R. Meades
Jamieson and Associates
Jenel Consultants Corp.
Leader Broadcast Systems
L.E. Nelson Corp.
Panoak Lighting System
Radiotechniques
Rees Associates
Siemens AG Osterreich
Soll Inc.
Richmond Sound Design
Straight Wire Audio
Syracuse Scenery & Stage Lighting
Thomson-CSF
Uni-Set Corp.

SWITCHES, COAXIAL

AEG-Telefunken
Ava Electronics Corporation
Barker & Williamson
Bird Electronic
CSP Inc.
Channelmatic Inc.
Comark Communications Inc.

Continued on page 106

Compac Development Corp.
Comtec Data Corp.
Continental Electronics
Crow of Reading Ltd.
Delta Electronics
Dielectric
Dow-Key
Elec. Instrument & Specialty Corp.
Harris Corp., Broadcast Products
ITT Jennings
Magnecraft Electric Co.
Marshall Electronics
Micro Communications
Phelps Dodge Communications
RMS Electronics Inc.
Rohde & Schwarz
S.W.R.
Shively Laboratories
Sigma Electronics
Thomson-CSF
Transco Products
Vidaire Electronics
Vital Industries
Wide Band Engineering

SWITCHES, VIDEO ACTIVATED

AVL Digital Ltd.
Channelmatic
Michael Cox
Dynamic Technology Ltd.
Panasonic
Rohde & Schwarz
Video Aids of Colorado
Vital Industries

SWITCHER LIGHTING KIT

Dynair

SWITCHERS, ROUTING

American Data
AVL Digital Ltd.
Audix Limited
Broadcast Video Systems
Broadcast Technology
Channelmatic
Communications Control Centers Inc.
Michael Cox
Crow of Reading Ltd.
Datatek Corp.
Delta Systems
Dielectric Communications
Di-tech
Dynair Electronic
HEDCO
Industrial Sciences Inc.
Key Video Ltd.
Lenco Inc.
McCurdy Radio Industries
NEC America
NTP Elektronik AIS
Opamp Lab Inc.
Pacific Recorders & Engineering
Pro Bel Ltd.
Richmond Sound Design
Scandex Laboratories
Telemet
Thomson-CSF
Viscount Ind.
Vital Industries

SWITCHERS, CROSSBAR

AEG-Telefunken
Alco Electronic Products
Ava Electronics
Robert Bosch GmbH
Central Dynamics Ltd.
Channelmatic
Cherry Elec. Prod. Corp.
Communications Control Centers Inc.
Michael Cox
Datatron
Delta Electronics
Delta Systems
Dynair Electronics
ITT Jennings
Industrial Sciences Inc. (ISI)
Javelin Electronics

NTP Elektronik A/S
Pacific Recorders
Rohde & Schwarz GmbH
Rohde & Schwarz Sales
Siemens AG Österreich
Shintron
Standard Telefon und Radio
Telemet
Thomson-CSF
Unemco International
Vital Industries

SWITCHERS, VIDEO

(See Consoles, Video)

SYNCHRONIZERS, AUDIO - VIDEO

Adda Corporation
Amplex
Audio Kinetics
Audiotronics
The BTX Corporation
California Instruments
Control Video Corp.
Datatron
Digital Video Systems
EECO Incorporated
Harris Corporation, Broadcast
Products Division
Harris Video Systems
Leader Broadcast Systems
MCI Inc.
MCI/Quantel
Microtime
Multi-Track Magnetics
NEC America
Perfectone Products SA
Philips Broadcast Group
Rohde & Schwarz GmbH
Rohde & Schwarz Sales
Skotel Corporation
Studer International AG
Studer ReVox America
Telcom Research
Thomson-CSF

SYNCHRONIZERS, DIGITAL VIDEO

(See Frame Store)

SYNTHESIZERS, STEREO

The BTX Corporation
Catal
Elcom Bauer
Elcom Specialty Products
IGM Communications
Orban Associates
Rohde & Schwarz GmbH
Rohde & Schwarz Sales
Studer International
Telemet

SYSTEM DESIGN, AUDIO

Accurate Sound
Alice Stancoll Ltd.
Amek TAC
Audix
Aydin Microwave
C-Cor Electronics
Centro
Coastcom
Comad Communications
Crosspoint Video Ltd.
Dell Technical Vehicles
Dukane Corp.
Dyma Engineering
ENG Helicopter Satellite Ltd.
East Coast Video
Electro Acoustic Designs
Elektroimpex
G. A. Gilbreath
Graham-Patten Systems
Harris Corporation

Harrison Systems
Happmann Corp.
Jenel Consultants Corp.
Kintek
Leader Broadcast Systems
Link Electronics
MCI
McCurdy Radio Industries
The Management
Kenneth R. Meades
Multiphase Consulting
Multi-Track Magnetics
Opamp Labs Inc.
Pacific Recorders & Engr.
Perfectone Products SA
ProTech Audio
Radiotechniques
Richmond Sound Design
Rohde & Schwarz
C.N. Rood B.V.
Scantex Laboratories
Siemens AG Österreich
Soli Inc.
Spectra Sonics
Straight Wire Audio
Tascam, Div. of Teac
Ultra Audio Pixtec

SYSTEM DESIGN, VIDEO

A.F. Associates
Altha Video & Elect. Corp.
Aydin Microwave
Robert Bosch GmbH
C-Cor Electronics
Canter-Redman Technologies Corp.
Central Dynamics Ltd.
Centro
Cinema Products
Cohu, Electronics Division
Crosspoint Video Ltd.
Crow of Reading Ltd.
Dell Technical Vehicles
Delta Systems
Dyma Engineering
Dynamic Technology Ltd.
ENG Helicopter Satellite Ltd.
East Coast Video
Graham-Patten Systems
Harris Corp., Broadcast Products
Happmann Corp.
Interand
Jatex
Javelin Electronics
Jenel Consultants Corp.
Link Electronics
Kenneth R. Meades
Multi-Track Magnetics
Panoak Lighting Systems
QSI Systems
Rohde & Schwarz
Rosner Television Systems
Sandar Electronics A/S
Scantex Laboratories
Siegel Electronics
Soli Inc.
Thomson-CSF
Ultra Audio Pixtec
Video-Ink
Vital Industries

TAPE-FILM INTERLOCK

Magna-Tech

TAPE, AUDIO

(See Also Cartridges)

CARTRIDGE
Ampex, Magnetic Tape Division
Aristocart
Audio Magnetics
BASF Limited
Broadcast Electronics
Colorado Magnetics
Consolidated Electronic Ind.
Datatronix
Fidelipac
IGM Communications
Kudelski S.A.
3M Magnetic A/V Products
Magnetic Reference Laboratories
Marathon Products
Memorex
Nortronics
Radiotechniques
Sound Dynamics
Standard Tape Laboratory, Inc.
Studer ReVox America
TDK Electronics
Team Electronics
VIF International
Video I-D

Ramko Research
See Hear Industries
Tape-Athon Corp.
Team Electronics
Telectro Systems Corp.
UMC Electronics

CASSETTE

Agfa-Gevaert
Ampex, Magnetic Tape Division
Audio Magnetics
BASF Limited
Capitol Magnetic Products
Colorado Magnetics
Fidelipac Corp.
Fuji Photo Film USA Inc.
3M Mag A/V Products Division
Maxell Corp. of America
Memorex
Pan Canada Magnetics Ltd.
RKO Tape
Recortec
See Hear Industries
TDK Electronics
Tape-Athon Corp.
Team Electronics
Telectro Systems Corp.
Video I-D

LOGGING

Ampex, Magnetic Tape Division
Colorado Magnetics
Consolidated Electronic Ind.
Dictaphone Corporation
Elektroimpex
Fidelipac Corp.
Leavers Rich Mfg. Co. Inc.
3M Mag A/V Products Division
Magnasync/Moviola
Marathon Products
Memorex
Pan Canada Magnetics Ltd.
Soundscriber Magnetic Recording
The Stancil-Hoffman Corporation
Telectro Systems

OPEN REEL

Agfa-Gevaert
Ampex, Magnetic Tape Division
BASF Limited
Broadcast Electronics
Century 21 Programming
Colorado Magnetics
Consolidated Electronic Ind.
Elektroimpex
Fidelipac
Leavers Rich Equipment Ltd.
3M Mag A/V Products Division
Maxell Corp. of America
Memorex
Pan Canada Magnetics Ltd.
RKO Corp.
Recortec
See Hear Industries
Studer ReVox America
TDK Electronics
Tape-Athon Corp.
Team Electronics
Telectro Systems Corp.
VIF International
Video I-D

TEST TAPE

Ampex, Magnetic Tape Division
Aristocart
Audio/Tek Inc.
BASF Limited
BPI Audio Test Instruments
Broadcast Electronics
Colorado Magnetics
Consolidated Electronic Ind.
Datatronix
Fidelipac
IGM Communications
Kudelski S.A.
3M Magnetic A/V Products
Magnetic Reference Laboratories
Marathon Prod. Co.
Memorex
Nortronics
Radiotechniques
Sound Dynamics
Standard Tape Laboratory, Inc.
Studer ReVox America
TDK Electronics
Team Electronics
VIF International
Video I-D

TAPE, AUDIO ACCESSORIES

CLEANERS

Allsop
Audio Magnetics
Audio-Technica U.S.
Broadcast Electronics
Chemtronics
Dictaphone Corporation
Fidelipac
Fuji Photo Film USA Inc.
IGM Communications
Marathon Products
Merlin Engineering Works
NOVA Corp.
Nortronics
Pan Canada Magnetics Ltd.
RMS Electronics
Recortec
Studer ReVox America
TDK Electronics
Teac Corp. of America
Texwipe
United Research Lab Corp.
Vidaltre Electronics
Xedit Corporation

DEMAGNETIZERS

R. B. Annis Co.
Broadcast Electronics
Dictaphone
Fidelipac Corp.
Garner Ind.
IGM Communications
Magnefax International
Marathon Products
Nalpak Sales
Neal Ferrograph (USA)
Nortronics
PAG-Group
Soundscriber Magnetic Recording
TDK Electronics
Taber
Tape
Teac Corp. of America
UMC Electronics

LOADERS

Audico
Audio/Tek Inc.
Merlin Engineering Works
Otarl Corporation
Recortec
See Hear Industries
Tapecaster TCM

MOTION CONTROLS

Merlin Engineering Works
Television Graphics
United Research Lab Corp.

REWINDERS

Audico
D-B Electronics
Dictaphone Corporation
K B Systems
Merlin Engineering Works
Neumade
See Hear Industries
Tape
Tapecaster TCM Inc.

SPLICERS

Audico
Broadcast Electronics
D-B Electronics
Dictaphone Corporation
Fidelipac
Goldberg Bros. Inc.
ITC/3M
J&R Film Co., Inc.
Leader Broadcast Systems
Marathon Products
Neal Ferrograph (USA)
Nortronics
Plastic Reel Corp.
Studer ReVox America
Vidaltre Electronics Mfg. Corp.
Xedit Corporation

SPLICE FINDERS

Broadcast Electronics
Consolidated Electronic Ind.

Harris Corporation, Broadcast
Products Division
IGM Communications
ITC/3M
Nortronics
UMC Electronics

TAPE, VIDEO

CASSETTES

Adwar Video
Agfa-Gevaert
Ampex
Audico
Audio/Tek
BASF Limited
Ceco Communications
E.I. Dupont De Nemours & Co.
Fidelipac Corp.
Fuji Photo Film USA, Inc.
Fuji Magnetic Tape Div.
Lyrec Manufacturing A/S
3M Mag A/V Products Division
Maxell Corp. of America
Memorex
Merlin Engineering
Otarl
Panasonic
Polyline Corp.
RKO Corp.
Recortec
Research Technologies Int'l.
See Hear Industries
Sony
Studer ReVox America
TDK Electronics
Team Electronics
U.S. JVC Corporation
Video Cassette Services
Video I-D
Videotape Exchange

CARTRIDGES

Agfa - Gevaert
Ampex
Audio/Tek
BASF Limited
Calico Video
Ceco Communications
Fidelipac Corp.
3M Mag A/V Products Division
Memorex
Merlin Engineering
Panasonic
Re-Play Video
Tape
Team Electronics
Videotape Exchange

OPEN REEL

Adwar Video
Agfa - Gevaert
Ampex
BASF Limited
Calico Video
Ceco Communications
Fidelipac Corp.
Fuji Photo Film USA, Inc.
3M Mag A/V Products Division
Maxell Corp.
Memorex
Otarl
Panasonic Video Systems
Studer ReVox America
TDK Electronics
Team Electronics
Videotape Exchange

TAPE, VIDEO ACCESSORIES

CARRYING & SHIPPING CASES

A & S Case Company
Adwar Video
Amaray Sales
Anvil Cases
David H. Brothers Co.
Display Media
Environmental Container Systems
Excalibur Industries
Fiberblit
Impact Cases Inc.
Innovative Concepts
3M Mag A/V Products Division

Nalpak Sales
Neumade Products
Plastic Reel Corp.
Reliance Plastics & Packaging
Research Technology, Int'l.
Schuessler Case
See Hear Industries
Winsted Corporation

DEMAGNETIZERS

Garner Industries

EVALUATOR

Asaca/Shibasoku
Chyron Telesystems
Merlin Engineering Works
Recortec
Research Technology Int'l.
Television Equipment Associates

SPINDLE HEIGHT GAUGE

Tentel

REWINDERS

Audico
Merlin Engineering Works
Neumade Products
Ramko Research
Recortec
Research Technology Int'l.

TAPE CLEANER

Adwar Video
Allsop
Asaca/Shibasoku
Audico
Audio-Technica U.S.
G.C. Electronics
Merlin Engineering Works
NOVA Corporation
PAG-Group
Panasonic
Recortec
Research Technology Int'l.
TDK Electronics
Texwipe
Xedit Corporation

TENSION GAUGE

Adwar Video
BCB Electronic Sales
Leavers Rich Equipment Ltd.
Merlin Engineering Works
Tentel

TELECINE

Laird Telemedia
Magnasync/Moviola Corp.
Marconi Electronics
Multi-Track Magnetics
Piclear Inc.
Rangertone Research Inc.
Rank Cintel Ltd.
Westrex
Thomson-CSF
The Zel-Mark Corp.

TELECONFERENCE SYSTEM, AUTOMATIC AUDIO/VIDEO

Altha Video & Elect. Corp.
Centro
Dyma Engineering
Happmann Corp.
Interand Corp.
Misar Industries
Telectra Systems Corp.

TELECONFERENCING SYSTEMS

Artel Communications Corp.
Audix Limited
Bonneville Satellite Corp.
Centro
Comrex Corporation
David Brothers Co.
GE VDEO
GTE Products
Hoppmann Corp.

Interand Corp.
Microdyne Corp.
Misar Industries
NEC America
NET Enterprises
Sharp Electronics
Tele Concepts In Communications

TELEPHONE EQUIPMENT

EQUALIZERS

AEG-Telefunken
(Bayly Engineering)
Audio & Design
Coastcom
Comrex
GTE Products
ITI Electronics
Kahn Communications
McCurdy Radio Industries
NTP Elektronik A/S
Radiotechniques
C.N. Rood B.V.
Russco
T M Systems
Telemet
White Instruments Inc.

HYBRID FILTER / AMP

AEG-Telefunken
(Bayly Engineering)
Alice Stancoll Ltd.
Coastcom
Comrex
GTE Products
Greg Laboratories
IGM Communications
ITI Electronics
McCurdy Radio Industries
Northland Communications
Potomac Marine & Aviation
RTS Systems
Studer International
Studer ReVox America
T M Systems
Thomson-CSF
Western Broadcasting

TONE RECEIVERS

AEG-Telefunken
(Bayly Engineering Ltd.)
American MicroSignal
Don Britton Ent.
Cetec Vega
Channelmatic
Frequency Devices
GTE Products
Potomac Marine & Aviation
T M Systems
Trepac Corp. of America

TONE TRANSMITTERS

AEG-Telefunken
American MicroSignal
Bayly Engineering Ltd.
Don Britton Ent.
Cetec Vega
Channelmatic
Frequency Devices
GTE Products
Potomac Marine & Aviation
T M Systems
Trepac Corp. of America
Triplett Corporation

TELETEXT SYSTEMS

AEG-Telefunken
Antiope Videotex Systems
Aston Electronic Design Ltd.
Barco Electronics
Barda Electronics
Computer Video Systems
Consolidated Electronic Ind.
Dynamic Technology Ltd.
EEG Enterprises
Electro & Optical Systems
Logica
Oak Communications
Rohde & Schwarz
Torrey Controls & Engineering
Unitel
Video Data Systems

Continued on page 108

TERMINAL EQUIPMENT

Di-tech
Graham-Patten Systems
Harris Corporation
HEDCO

TEST EQUIPMENT: GENERATORS

AUDIO SINE

Amalgamated Wireless
Amber Electro Design
Asaca/Shibasoku
Audisar
BPI Audio Test Instruments
Bald Mountain Lab
Broadcast Electronics, Inc.
Briel & Kjaer Instruments
CMC Technology Corp.
California Instruments
Dynascan
Frequency Devices
Global Specialties
Hickok
Kajaani Oy
Leader Instruments Corp.
Link Electronics
Marconi Instruments Ltd.
Multidyne Electronics
Neal Ferroglyph (USA)
Opamp Labs Inc.
Philips Test & Measuring
Potomac Instruments
Rohde & Schwarz
Sescom
Spectra Sonics
Teac Corp. of America
Tektronix
Ultra Audio Pixtec
Viz Manufacturing

AUDIO SWEEP

Amalgamated Wireless
Amber Electro Design
Asaca/Shibasoku
Audisar
Briel & Kjaer Instruments
CMC Technology Corp.
Dynascan
Global Specialties Corp.
Leader Instruments Corp.
Marconi Instruments Ltd.
Tektronix
UREI
Viz Manufacturing

COLOR BAR

AVL Digital Ltd.
Automation Techniques
Asaca/Shibasoku
Robert Bosch GmbH
Broadcast Video Systems
CMC Technology Corp.
Canter-Redman Technologies Corp.
Michael Cox
Crosspoint Latch
Crow of Reading Ltd.
D and S Corley
Dynascan
Elektroimpex
Hickok
Industrial Sciences Inc. (ISI)
Lang Video Systems
Leader Instruments Corp.
Lectrotech
Leitch Video
Lenco
Link Electronics
Marconi Electronics
Multidyne Electronics
QSI Systems
Panasonic
Rohde & Schwarz
Sencore
Sigma Electronics
Tektronix
Telemet
Thomson-CSF
Ultra Audio Pixtec
Videomedia
Visual Information Institute
Viz Manufacturing
World Video

CROSS PULSE

AVL Digital Ltd.
Amtron Corp.
Asaca/Shibasoku
Robert Bosch GmbH
Crow of Reading Ltd.
Dynascan
Lenco
Rohde & Schwarz
Thomson-CSF
Video Aids of Colorado

DOT / BAR

AVL Digital Ltd.
Asaca/Shibasoku
Broadcast Video Systems
Canter-Redman Technologies Corp.
Crow of Reading Ltd.
Dynascan
Hickok
Leader Instruments Corp.
Lectrotech
Leitch Video
Lenco
Link Electronics
Marconi Electronics
Philips Test & Measuring
Sencore
Sigma Electronics
Tektronix
Telemet
Thomson-CSF
Ultra Audio Pixtec
Visual Information Institute
World Video

FUNCTION

Amber Electro Design Inc.
Asaca/Shibasoku
Audisar
Briel & Kjaer Instruments
Dynascan
Global Specialties Corporation
Heath Company
Hickok
Leader Instruments Corp.
Marconi Instruments Ltd.
Philips Test & Measuring
Tektronix
Thomson-CSF
Viz Manufacturing

MARKER

Amtron Corp.
Asaca/Shibasoku
Ballantine Laboratories
Dynascan
Philips Test & Measuring
Tektronix
Texscan Corp.
Thomson-CSF
Viz Manufacturing

NTSC SIGNAL TEST

Asaca/Shibasoku
Broadcast Video Systems
Canter-Redman Technologies Corp.
Cezar International
Dynascan
Lang Video Systems
Leader Instruments Corp.
Leitch Video
Link Electronics
Marconi Instruments Ltd.
Multidyne Electronics
Rohde & Schwarz
Sigma Electronics
Tektronix
Ultra Audio Pixtec
Vidicraft
Video Aids of Colorado
Videomedia
Visual Information Institute
World Video

PULSE

Asaca/Shibasoku
Audico Inc.
Broadcast Video Systems
Briel & Kjaer Instruments
Dynascan
Elektroimpex
Global Specialties
Leitch Video
Lenco Inc.
Link Electronics
Marconi Instruments Ltd.

North American Soar Corp.
Rohde & Schwarz
Systron Donner
Tektronix
Thomson-CSF
Video Aids of Colorado
Videomedia
Viz Manufacturing
Xedit Corporation

RF SIGNAL

Asaca/Shibasoku
Delta Electronics
John Fluke Mfg. Co. Inc.
Dynascan
Harris Corp., Broadcast Products
Harris Corporation - PRD
Electronics Div.
Heath Company
Lang Video Systems
Leader Instruments Corp.
Marconi Instruments Ltd.
Motorola
Narda Microwave Corp.
Potomac Instruments
R. E. Instruments
Rohde & Schwarz
Sadelco
Sound Technology
Systron Donner
Texscan Corp.
Triple Crown Electronics
Videomedia
Viz Manufacturing
Wavetek Indiana

SQUARE WAVE

Amber Electro Design
Asaca/Shibasoku
BPI Audio Test Instruments
California Instruments
D and S Corley
Dynascan
Global Specialties
Hickok
Leader Instruments Corp.
Leitch Video
Link Electronics
Marconi Instruments Ltd.
Rohde & Schwarz
Tektronix
Telemet
Thomson-CSF
Visual Information Institute
Viz Manufacturing
Wavetek Indiana Inc.

STAIRCASE

AVL Digital Ltd.
Asaca/Shibasoku
Robert Bosch GmbH
Broadcast Video Systems
Canter-Redman Technologies Corp.
Dynascan
Lang Video Systems
Leader Instruments Corp.
Leitch Video
Lenco
Link Electronics
Rohde & Schwarz
Tektronix
Telemet
Thomson-CSF
Ultra Audio Pixtec
Visual Information Institute
World Video

STEREO

Asaca/Shibasoku
Leader Instruments
McMartin Industries
Marconi Instruments Ltd.
Rohde & Schwarz

VIDEO SWEEP

AVL Digital Ltd.
Asaca/Shibasoku
Datatek
Dynascan
Leader Instruments Corp.
Lenco
Lectrotech Inc.
Link Electronics
Philips Test & Measuring
Rohde & Schwarz
Tektronix
Telemet

Texscan Corp.
Thomson-CSF
Ultra Audio Pixtec
Visual Information Institute
Viz Manufacturing

VITS

AVL Digital Ltd.
Asaca/Shibasoku
Elektroimpex
Lenco
Link Electronics
Rohde & Schwarz
Sencore
Tektronix
Telemet
Thomson-CSF
Video Aids of Colorado

VITS INSERTER

Asaca/Shibasoku
Elektroimpex
Link Electronics
Marconi Instruments Ltd.
Rohde & Schwarz
Tektronix
Thomson-CSF
Video Aids of Colorado

TEST EQUIPMENT: MEASURING INSTRUMENTS

ACOUSTIC ANALYZER

Amber Electro Design Ltd.
David H. Brothers Co.
Briel & Kjaer Instruments
Communications Co. Inc.
Crown International
Eventide Clockworks
Inovonics
Ivie Electronics
Klark Teknik Research Ltd.
Neutrik Products
Ortofon A/S
Telectro Systems Corp.
White Instruments

AUDIO SYSTEM ANALYZER

Amber Electro Design Ltd.
Asaca/Shibasoku
BPI Audio Test Instruments
Bald Mountain Lab
Barker & Williamson
Briel & Kjaer
Crown International
Eventide Inc.
Hammond Industries
Inovonics
Ivie Electronics
Klark Teknik Research
Leader Instruments Corp.
Neal Ferroglyph (USA)
Neutrik Products
Ortofon A/S
Potomac Instruments
R. E. Instruments
Rohde & Schwarz
Sound Technology
Spectra Sonics
Tektronix

BURST PHASE METER

Asaca/Shibasoku
Ortofon A/S
Rohde & Schwarz
Video Aids of Colorado

COLOR ANALYZER

Philips Test & Measuring

DELAY MEASURING SETS

Asaca/Shibasoku
Briel & Kjaer Instruments
Datatek
Hirschmann Electric
Hitachi Denshi America
Ivie Electronics
Klark Teknik Research
Marconi Instruments Ltd.
Philips Test & Measuring
Rohde & Schwarz
Telectro Systems Corp.
Telecommunications Technology
Telemet

DEMOD TESTER

R. E. Instruments
Tektronix

DIFFERENTIAL PHASE / GAIN SETS

Amtron Corporation
Asaca/Shibasoku
Bruehl & Kjaer Instruments
Crow of Reading Ltd.
Hammond Industries
Harris Corporation, PRD Elec.
Hewlett - Packard
Hirschmann Electric
Lectrotech
Link Electronics
Phillips Test & Measuring
Potomac Instruments
Rohde & Schwarz
Tektronix
Telecommunications Technology
Teletel

FIELD STRENGTH METER, AM / FM

Anritsu America
Broadcast Electronics
Continental Electronics
Harris Corporation
Kathrein-Werke KG
McMartin Industries
Potomac Instruments
Rohde & Schwarz
Sadelco Inc.
Texscan Corp.
Vidale Electronics Mfg. Corp.

FIELD STRENGTH METER, TV

Anritsu America
Asaca/Shibasoku
Kathrein-Werke KG
Leader Instruments
Lectrotech
PTS Electronics
Potomac Instruments
Rohde & Schwarz
Sadelco
Texscan Corp.

FREQUENCY COUNTER

Alltech
Anritsu America
Ballantine Laboratories
Dynascan Corp.
Belar Electronic Labs
Coaxial Dynamics Inc.
EIP Microwave, Inc.
John Fluke Mfg. Co. Inc.
Glenetrix
Global Specialties Corporation
Hammond Industries
Heath Company
Leader Instruments Corp.
Lectrotech
Marconi Instruments Ltd.
Motorola
North American Soar Corp.
Ortofon A/S
Phillips Test & Measuring
Sencore
Systron Donner
TFT Inc.
Tektronix
Telecommunications Technology
Texscan Corp.
Triplett
Viz Manufacturing
Xedit Corporation

HARMONIC DISTORTION ANALYZER

Amalgamated Wireless
Amber Electro Design Ltd.
Asaca/Shibasoku
BPI Audio Test Instruments
Broadcast Electronics
Bruehl & Kjaer Instruments
Dragnet Eng. Labs
Elektroimpex
Heath Company
Leader Instruments Corp.
Ortofon A/S
Potomac Instruments
Radiometer Electronics
Sescom
Sound Technology
Tektronix
Telecommunications Technology
Woelke Magnetbandtechnik GmbH

INSERTER / READER VIT

Asaca/Shibasoku
Crow of Reading Ltd.
Harris Corporation
Link Electronics
Tektronix

INTERMOD DISTORTION ANALYZER

Amalgamated Wireless
Amber Electro Design Ltd.
BPI Audio Test Instruments
Broadcast Electronics
Bruehl & Kjaer Instruments
Heath Company
Otofon A/S
Potomac Instruments
Sound Technology
Tektronix

INTERVAL TIMER, V & H

A.F. Associates
Anritsu America
Broadcast Video Systems Ltd.
D'San Corporation
Global Specialties Corporation
Nationwide Electronic Systems
Standard Electric Time Corp.
World Video

MONITORS

(See Monitors, Audio; Monitors, Video)

MULTI-PHASE/VIRS INSERTER

Tektronix
Video Aids of Colorado

OSCILLOSCOPES

Ballantine Laboratories
Bruehl & Kjaer Instruments
Dynascan
Gould Instruments Division
Heath Company
Hewlett - Packard
Hickok
Hitachi Denshi America
Leader Instruments Corp.
Lectrotech
Motorola
North American Soar Corp.
Phillips Test & Measuring
Rohde & Schwarz
Scientific-Atlanta, Phoenix Div.
Sencore
Tektronix
Texscan Corp.
Viz Manufacturing
Wavetek Indiana

PHASE ANGLE METER

Bruehl & Kjaer Instruments
Delta Electronics
Dragnet Eng. Labs
Hewlett - Packard
Potomac Instruments
Western Broadcasting

SIDEBAND ANALYZER

Tektronix
Rohde & Schwarz

SPECTRUM ANALYZER

Alltech
Amber Electro Design Ltd.
Anritsu America
Applied Technology
Bruehl & Kjaer Instruments
Crown International
Eventide Inc.
Glenetrix
Ivie Electronics
Klark Teknik Research
Marconi Instruments Ltd.
Motorola
NTP Elektronik A/S
Phillips Test & Measuring
Photo Research, Kollmorgen Corp.
R. E. Instruments
Scientific-Atlanta
Spectrum Instruments
Systron Donner
Tektronix
Texscan Corp.
Wavetek Indiana

VSWR & POWER METER

Bird Electronic
Boonton Electronics
Coaxial Dynamics
Delta Electronics

Dielectric Communications

Electro Impulse Inc.
Marconi Instruments Ltd.
Motorola
Narda Microwave Corp.
Sadelco Inc.
Texscan Corp.
Vidale Electronics
Viz Manufacturing

VIDEO ANALYZER

Rohde & Schwarz

VIDEO LINE OUTPUT DISPLAY

Broadcast Video Systems

WAVEFORM MONITORS

Amtron Corporation
Anritsu America
Broadcast Video Systems
Bruehl & Kjaer Instruments
Canter-Redman Technologies
Michael Cox
Crow of Reading Ltd.
Elektroimpex
Leader Instruments Corp.
Lectrotech
Lenco
Marconi Instruments Ltd.
Motorola
Rohde & Schwarz
Sencore
Tektronix
Television Graphics
Ultra Audio Pixtec
Videcom Engineering
Videotek
Woelke Magnetbandtechnik GmbH

WOW & FLUTTER METER

Asaca/Shibasoku
BPI Audio Test Instruments
Broadcast Electronics
Bruehl & Kjaer Instruments
Fidelipac
Hammond Industries
Leader Instruments Corp.
Neal Ferrograph (USA)
Ortofon A/S
Potomac Instruments
R. E. Instruments
Radiometer Electronics
Sound Technology
Woelke Magnetbandtechnik GmbH
Xedit Corporation

VECTORSCOPE

Amtron Corporation
Broadcast Video Systems
Crow of Reading Ltd.
Leader Instruments Corp.
Lectrotech
Tektronix
Television Graphics
Ultra Audio Pixtec
Videcom Engineering
Video I-D
Videotek

TEST EQUIPMENT: MEASURING / MONITORING METERS

ANTENNA BASE METER

Antenna Base Meter
Continental Electronics
Delta Electronics
Gorman-Redlich

COHERENT DETECTOR

Image Devices Incorporated
Potomac Instruments

DIGITAL MULTIMETER

Ballantine Laboratories
Biddle Instruments
Dynascan
Elektroimpex
John Fluke Mfg. Co. Inc.
G.C. Electronics
Global Specialties Corp.
Hickok
Keithley Instruments
Leader Instruments Corp.
Motorola
North American Soar Corp.

Sencore
Tektronix
Triplett
Vidale Elec. Mfg.
Viz Manufacturing

DIGITAL PANEL METER

Ballantine Laboratories
Delta Electronics
Gralex

GRID DIP METER

Barker & Williamson
Image Devices Incorporated

IC TESTER

Datatron
Dynascan
John Fluke Mfg. Co. Inc.
G.C. Electronics
Global Specialties Corporation
Keithley Instruments
Orban Associates
Vidale Elec. Mfg.

IMPEDANCE BRIDGE

Biddle Instruments
Boonton Electronics
Delta Electronics
HEDCO
Harris Corporation - PRD
Leader Instruments Corp.
Marconi Instruments Ltd.
Potomac Instruments
Radiometer Electronics
Sadelco, Inc.
Sencore
Texscan Corp.
Wide Band Engineering

LINE VOLTAGE METER

Audio Technology
Biddle Instruments
Gralex Industries
Image Devices Incorporated
International Instruments
Motorola Communications
Paladin
Sencore
Triplett
Viz Manufacturing

MODULAR TEST SET

Teletel

PEAK PROGRAM

Alice Stancoli Ltd.
Applied Technology Corp.
Audio Technology
Broadcast Technology
Michael Cox
Crow of Reading Ltd.
Dorough Electronics
ESE
Elektroimpex
Inovonics
Logitek
McCurdy Radio Industries
Micmix Audio
NTP Elektronik A/S
Ramko Research
Selco Products
Siemens AG Osterreich
Tweed Audio USA

POWER

Audio Technology
Bird Electronic
Boonton Electronics
Coaxial Dynamics
Dragnet
Electro Impulse Laboratory, Inc.
Gralex Industries
Harris, PRD Electronics Div.
Image Devices Incorporated
Leader Instruments Corp.
Marconi Instruments Ltd.
Paladin
Photo Research
T M Systems

RF METER

Ballantine Laboratories
Barker & Williamson
Bird Electronic
Boonton Electronics
Coaxial Dynamics

Continued on page 110

Delta Electronics
Electro Impulse Inc.
Fung Eng. Labs. Inc.
Harris Corp. PRD Electronics Div.
Marconi Instruments Ltd.
Motorola
R. E. Instruments
Sadelco Inc.
T M Systems
Triplett
Vitek Electronics
Viz Manufacturing

SEMICONDUCTOR TESTER

Dynascan
Heath Company
Keithley Instruments
Leader Instruments
PTS Electronics
Sencore
Tektronix

VIDEO LEVEL METER

Asaca/Shibasoku
Link Electronics
Rohde & Schwarz
Vidicraft

VIDEO NOISE METER

Asaca/Shibasoku
Lenco
Link Electronics
Rohde & Schwarz
Sadelco Inc.
Tektronix
Video Aids of Colorado

VOLTMETER, AUDIO

Amber Electro Design Ltd.
Asaca/Shibasoku
Audio Technology
BPI Audio Test Instruments
Bald Mountain Lab
Ballantine Laboratories
Bayly Engineering
Boonton Electronics
Broadcast Technology
Bruehl & Kjaer Instruments
dbx Inc.
Elektroimpex
John Fluke Mfg. Co., Inc.
Global Specialties Corp.
Heath Company
Image Devices Incorporated
Leader Broadcast Systems
Motorola
Neal Ferrograph USA
Ortofon A/S
Potomac Instruments
Rohde & Schwarz
Rycom Instruments
Sencore
Viz Manufacturing

VTVM

B & K Precision Product
Group/Dynascan Corp.
Ballantine Laboratories
Heath Company
ITT Jennings
Motorola
Triplett
Vidair Electronics
Viz Manufacturing

VU METER

ADM Technology
ATI-Audio Technologies Inc.
Applied Technology Corp.
Audio Technology
Bald Mountain Lab
Broadcast Electronics
Dorrough Electronics
ESE
Elektroimpex
Logitek
McCurdy Radio Industries
NTP Elektronik A/S
Potomac Marine & Aviation
Ramko Research
Roh Corp.
Rohde & Schwarz
Selco Products
Siemens AG Osterelch
Spectra Sonics
T M Systems
Triplett

Ward-Beck Systems Ltd.

WATTMETER

AEG-Telefunken (Bayly Engr.)
Audio Technology
Barker & Williamson
Bird Electronic
Coaxial Dynamics
Dielectric Communications
Marconi Instruments Ltd.
Micro Communications
Motorola
North American Soar Corp.
R. E. Instruments
Rohde & Schwarz
Triplett
Viz Manufacturing

TIME BASE CORRECTORS

Adda Corporation
Adwar Video
Ampex
Automation Techniques
BCB Electronic Sales
Don Britton Ent.
Digital Video Systems
Eigen Video
For-A Corporation
Fortel Inc.
Harris Video Systems
MCI/Quantel
Marconi Electronics
Merlin Engineering Works
Microtime
NEC America
NET Enterprises
Phase Video Inc.
Philips
RCA Broadcast
Siegel Electronics
Sony
TBC Pty. Ltd.
Video Data Systems
Video I-D
Video Tape Systems

TIME CODE GENERATOR, VERTICAL INTERVAL

EECO Inc.

TIME COMPRESSOR, AUDIO

Deltalab Research
Eventide Inc.
Harris Corporation
IGM Communications
Integrated Sound

TIMERS, BLANKING INTERVAL

Broadcast Video Systems
For-A Corp. of America
Harris Corporation, Broadcast
Products Division
Lexicon Inc.
Standard Electric Time Corp.
Tektronix
V.S.C.
World Video

TIMERS, PROGRAM

(See Also Clocks & Counters)

Applied Technology
Audico
Automation Techniques
B G Engineering
Broadcast Aids
Broadcast Electronics
Channelmatic
Michael Cox
Datum
D'San Corporation
Dynaquip Electron Devices Ltd.
ESE

Harris Corporation, Broadcast
Products Division
IGM Communications
Image Video Limited
Jatex Inc.
Kajaani Oy
Logitek
The Management
Nationwide Electronic Systems
Neal Ferrograph (USA)
Pacific Recorders
QEI Systems
Radio Systems
Sharepoint Systems
Standard Electric Time Corp.
Tapecaster TCM, Inc.
Tentel
Torpey Controls & Engineering Ltd.
Vamco Engineering
Video Tape Systems

TIMERS, VIDEO TAPE

Convergence
Michael Cox
Dynamic Technology Ltd.
Dynaquip Electron Devices Ltd.
ESE
Electro & Optical Systems
For-A Corp. of America
G.B.C.
Jatex Inc.
Merlin Engineering Works
Panasonic Video Systems
QSI Systems
Recortec
Standard Electric Time Corp.
Tentel
Vamco Engineering
Video Tape Systems

TITLING SYSTEMS

(See Also Character Generators)

Aurora Systems
Autographics Inc.
Beston Elect. Inc. (BEI)
Robert Bosch GmbH
CMC Technology Corp.
Chyron Telesystems
Comprehensive Video Supply
Computer Video Systems
Michael Cox
Crow of Reading Ltd.
Elicon
Fernseh Inc.
For-A Corp. of America
Interand
Knox Video Products
Laird Telemedia
McInnis-Skinner & Assoc.
PAG Group
Reynolds/Leteron
Shintron
Television Graphics
Thomson-CSF
Unitel
Velec Sefat
Video Associates Labs

TOOL KITS

AVA Electronics Corp.
The Will Burt Company
Comprehensive Video Supply
The Cooper Group
Kline Iron & Steel
Nalpak Sales
PAG Group
Pace Inc.
Paladin Corporation
SSAC
UNR-Rohn
Vidair Electronics Mfg.

TOWER LIGHTS & ACCESSORIES

FLASHERS
AEG-Telefunken
Abroyd Construction
Allied Tower
Calvert Electronics

Elcom Bauer
Flash Technology
Hughey & Phillips
LeBlanc & Royle
Communications Towers Inc.
Osram Sales
SSAC
Swager Tower Corporation
Tech Theatre Inc.
Teledyne Big Beam
UNR-Rohn
United States Tower
Utility Tower
World Tower

FLASHERS, HIGH INTENSITY

AEG-Telefunken
Allied Tower
Calvert Electronics
EG&G, Electro Optics
Flash Technology Corp. of America
LeBlanc & Royle
Communications Inc.
Osram Sales
SSAC
Swager Tower Corporation
Teledyne Big Beam
UNR-Rohn
Utility Tower

ISOLATION TRANSFORMERS

AEG-Telefunken
Abroyd Construction
Allied Tower
BES Electronics
CSP Inc.
Peter Dahl Company
Decca Austin Insulators
Flash Technology
Hughey & Phillips
LeBlanc & Royle
Communications Inc.
MCG Electronics, Inc.
North Hills Electronics
Swager Tower Corporation
UNR-Rohn
Utility Tower
World Tower

LAMPS, REPLACEMENT

AEG-Telefunken
Abroyd Construction
Allied Tower
Atlas Tower Corp.
Flash Technology Corp. of America
Grant Tower
Hughey & Phillips
LeBlanc & Royle
Communications Towers
Fred Nudd Corp.
Swager Tower Corporation
Teledyne Big Beam
UNR-Rohn
Utility Tower
World Tower

LIGHT FAILURE ALARM

(See Alarms)

LIGHT INDICATOR PANELS

AEG-Telefunken
Abroyd Construction
Allied Tower
B & I Electronics
CSP Inc.
Flash Technology Corporation
of America
Grasis
Hughey & Phillips
UNR-Rohn

TOWERS

Abroyd Construction
Allied Tower Company
Aluma Tower Company
Atlas Tower Corp.
The Will Burt Company, TND Div.
Cetec Broadcast Group
Continental Electronics
Cortland Cable Co.
E-N-G Corporation
E-Z Way Products
Fort Worth Tower
Grant Tower
Grasis Corporation

Harris Corporation, Broadcast Products Division
Kline Iron and Steel Co.
LeBlanc & Royle Communications Inc.
McMartin Industries
Magnum Towers
Microlect
Motorola
North Wind Power
Fred A. Nudd Corporation
Allen Osborne Assoc.
Stainless
Stevens Tower Co.
Swager Tower Corporation
Telex Communications
Tri-ex Tower
TMD Division, The Will Burt Co.
UNR-Rohn
United States Tower
Up-Right Inc.
Utility Tower
V & B Tower Company
Wilkinson Electronics
World Tower Company

TOWER SERVICES

Abroyd Construction
Angle Steel Erectors
Antennas for Communications Inc.
Atlas Tower Corp.
The Will Burt Company
EMCEE Broadcast Products
Fort Worth Tower
Gabriel Electronics
Grant Tower
Grasls Corporation
Kline Iron and Steel Co.
LeBlanc & Royle Communications Inc.
Magnum Towers
Microlect
Fred A. Nudd Corporation
Soll Inc.
Stainless
Stevens Tower Co.
Swager Tower Corporation
Tri-ex Tower
UNR-Rohn
United States Tower
Utility Tower
V & B Tower Company
World Tower Company

TRANSFORMERS

AUDIO
Altec Lansing
Audisar
Bogen Division / Lear Siegler
Broadcast Technology
Cletronic Inc.
Consolidated Electronic Ind.
Peter W. Dahl Co.
Dyma Engineering
Elektroimpex
Enertec Schlumberger
Harris Corporation, Broadcast Products Division
ITI Electronics, Inc.
Jensen Transformers
Marconi Instruments Ltd.
Modular Audio Products
Modulation Associates
Northland Communications
Opamp Labs Inc.
ProTech Audio Corporation
Sescom
Shure Brothers
Siemens AG Osterreich
Spectra Sonics
TTE Inc.
Tramec Electronics
Tri Tec Systems Inc.
Vidair Electronics Mfg. Corp.

FILAMENT

Peter W. Dahl Co.
Cletronic
Tramec Electronics

MODULATION

Peter W. Dahl Co.
Cletronic Inc.
Tramec Electronics

PLATE

Peter W. Dahl Co.
Cletronic
Tramec Electronics

RF SAMPLING

BES Electronics
CSP Inc.
Coaxial Dynamics
Peter Dahl Company
Delta Electronics
Millen Components

TORODIAL CURRENT

BES Electronics
CSP Inc.
Cletronic
Peter Dahl Company
Delta Electronics
Millen Components

TRANSFORMER VIDEO/DATA LINE ISOLATION

North Hills Electronics

TRANSLATORS

HIGH POWER

AEG-Telefunken
Acrodyne Industries
Anderson Scientific
EMCEE Broadcast Products
Harris Corporation, Broadcast Products Division
Hans Pilisch
Larcen Communications Inc.
Rodelco
Rohde & Schwarz
TBC Pty. Ltd.
Television Technology
Thomson-CSF
Townsend Associates
Velec Sefat
Versa-Count

LOW POWER

AEG-Telefunken
Acrodyne Industries
Anderson Scientific
Crowder Communications
EMCEE Broadcast Products
Harris Corporation, Broadcast Products Division
Howe-Yin Research Company
D. N. Latus & Co., Inc.
NEC America
Hans Pilisch
Rodelco
Rohde & Schwarz
TBC Pty. Ltd.
Television Technology
Tapco
Thomson-CSF
Townsend Associates
Triple Crown Electronics
United States Tower
Velec Sefat
Versa-Count

TRANSMISSION LINES

(See Cables)

TRANSMISSION LINES, SUPERVISION SYSTEMS

Catel (Division of United Scientific Corp.)
Fernseh Inc.
Grass Valley
GTE Lenkurt Incorporated
LeBlanc & Royle Communications
LeCroy Research Systems
Times Wire & Cable
Telemet
Valtec Corporation

TRANSMITTER MODULATION CONTROLLER

AEG-Telefunken

Circuit Research Labs
Continental Electronics
Delta Electronics
GTE Products
Kahn Communications
Moseley Associates
Thomson-CSF

TRANSMITTER OUTPUT CONTROLS

AEG-Telefunken
Cat Systems
Delta Electronics
Hallikainen & Friends
Moseley Associates
Orban Associates
Sharepoint Systems
Singer Broadcast Products
Thomson-CSF

TRANSMITTERS, AM

500 WATTS & UNDER

AEG-Telefunken
Cetec Broadcast Group
Comad Communications
Dyma Engineering
Elcom-Bauer
Harris Corporation, Broadcast Products Division
LPB Inc.
McMartin Industries
Microwave Power Devices
Nautel Maine
Radio Systems Inc.
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Triple Crown Electronics
Wilkinson Electronics

500 WATTS & OVER, SOLID-STATE

AEG-Telefunken
Comad Communications
Dyma Engineering
Elcom-Bauer
Harris Corporation, Broadcast Products Division
McMartin Industries
Microwave Power Devices
Nautel Maine
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

1,000 TO 2,500 WATTS

AEG-Telefunken
CSI Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics
Dyma Engineering
Elcom-Bauer
Harris Corporation, Broadcast Products Division
McMartin Industries
Marconi
Microwave Power Devices
NEC America
Nautel Maine
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

5,000 TO 7,500 WATTS

AEG-Telefunken
CSI Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics
Dyma Engineering
Elcom-Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
McMartin Industries
Marconi
Microwave Power Devices

NEC America
Nautel Maine
RCA Broadcast Systems
Siemens AG
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

10,000 TO 20,000 WATTS

AEG-Telefunken
CSI Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics
Dyma Engineering
Elcom-Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
McMartin Industries
Marconi
NEC America
Nautel Maine
Siemens AG
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

OVER 20,000 WATTS

AEG-Telefunken
(Bayly Engineering Ltd.)
CSI Electronics
Comad Communications
Continental Electronics
Dyma Engineering
Elcom-Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
McMartin Industries
Marconi Electronics, Inc.
Siemens AG
Singer Broadcast Products
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

TRANSMITTERS, FM

500 WATTS & UNDER

AEG-Telefunken
(Bayly Engineering)
Anderson Scientific
Broadcast Electronics
CSI Electronics
Cetec Broadcast Group
Comad Communications
Crowder Communications
Dyma Engineering
Elcom-Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
LPB Inc.
McMartin Industries
Microwave Power Devices
Nady Systems
NEC America
QEI Corp.
Rohde & Schwarz
C.N. Rood B.V.
Singer Broadcast Products
Solid Electronics Labs
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Triple Crown Electronics
Versa-Count
Wilkinson Electronics

500 WATTS & OVER, SOLID-STATE

AEG-Telefunken
(Bayly Engineering)
Broadcast Electronics, Inc.
Comad Communications
Dyma Engineering
Elcom-Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division

Continued on page 112

McMartin Industries
Microwave Power Devices
NEC America
QEI Corp.
Rohde & Schwarz
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

1,000 TO 2,500 WATTS

AEG-Telefunken
(Bayly Engineering Ltd.)
Broadcast Electronics
CSI Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics
Dyma Engineering
Elcom Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
McMartin Industries
Marcom Communication Systems Ltd.
Marconi Electronics
Microwave Power Devices
NEC America
QEI Corp.
Rohde & Schwarz
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

5,000 TO 7,500 WATTS

AEG-Telefunken
(Bayly Engineering)
Broadcast Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics
Dyma Engineering
Elcom Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
McMartin Industries
Marcom Communication Systems
Microwave Power Devices
NEC America
QEI Corp.
RCA Broadcast Systems
Rohde & Schwarz
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

10,000 TO 20,000 WATTS

AEG-Telefunken
(Bayly Engineering)
Broadcast Electronics
CSI Electronics
Cetec Broadcast Group
Comad Communications
Continental Electronics
Dyma Engineering
Elcom Bauer
Elcom Specialty Products
Harris Corporation, Broadcast Products Division
Larcan Communications Inc.
McMartin Industries
Marcom Communication Systems
NEC America
QEI Corp.
RCA Broadcast Systems
Rohde & Schwarz
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

OVER 20,000 WATTS

AEG-Telefunken
Broadcast Electronics
CSI Electronics
Cetec
Comad Communications
Continental Electronics
Dyma Engineering
Elcom Bauer

Elcom Specialty Products
Harris Corporation, Broadcast Products Division
Larcan Communications Inc.
McMartin Industries
NEC America
RCA Broadcast Systems
Singer Broadcast Products
Thomson-CSF
Tramec Electronics
Wilkinson Electronics

TRANSMITTERS, TV

LOW POWER, UHF

AEG-Telefunken
(Bayly Engineering)
Acrodyne Industries
Anderson Scientific
Comad Communications
Comark Communications Inc.
Crowder Communications
EMCEE Broadcast Products
Harris Corporation, Broadcast Products Division
Hirschmann Electric
Marconi
Microwave Power Devices
NEC America
Rodelco Electronics Corp.
Rohde & Schwarz
Satcom Inc.
Swintek Enterprises
TBC Pty. Ltd.
Television Technology
Thomson-CSF
Townsend Associates
Triple Crown Electronics
United States Tower
Visual Methods, Inc.

LOW POWER VHF

AEG-Telefunken
Acrodyne Industries
Comad Communications
Crowder Communications
EMCEE Broadcast Products
Harris Corporation, Broadcast Products Division
Howe-Yin Research
Microwave Power Devices
Nady Systems
Rodelco Electronics
Rohde & Schwarz
Swintek Enterprises
TBC Pty. Ltd.
Television Technology
Thomson-CSF
Townsend Associates
Triple Crown Electronics
Visual Methods

UHF HIGH POWER

AEG-Telefunken
Acrodyne Industries
Comad Communications
Comark Communications Inc.
Harris Corp., Broadcast Products
Marcom Communication Systems Ltd.
Marconi Electronics Inc.
Microwave Power Devices
NEC America
Philips Broadcast
RCA Broadcast Systems
Rodelco Electronics
Rohde & Schwarz
Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Townsend Associates
Varian MCSD

VHF HIGH POWER

AEG-Telefunken
Acrodyne Industries
Comad Communications
Comark Communications Inc.
Harris Corp., Broadcast Products
Larcan Communications Inc.
Marcom Communication Systems Ltd.
Marconi
Microwave Power Devices
NEC America
RCA Broadcast Systems
Rodelco Electronics
Rohde & Schwarz

Singer Broadcast Products
TBC Pty. Ltd.
Thomson-CSF
Townsend Associates

TRANSMITTERS, MICROWAVE

AEG-Telefunken
Aydin Microwave
Datum
EEV
Farinon Video/Harris
Hughes Aircraft Company
International Microwave
M/A-COM Video Systems
Moseley Associates
Nurad
RF Technology
Tayburn Electronics
Terracom
Thomson-CSF
Varian, MCSD
Velec Sefat
Visual Methods

TRANSMITTERS, SHORTWAVE

Continental Electronics

TUBES

CRT MONITOR

Auditronics
Amperex
Calvert Electronics
EEV
GBC Closed Circuit TV Corp.
Levit Electronics, Inc.
Team Electronics
Thomson-CSF

CRT OSCILLOSCOPE

Amperex
Calvert Electronics
EEV
Levit Electronics
RCA Electro-Optics
Texscan
Thomson-CSF

RECEIVER TYPES

AEG-Telefunken
Amperex
David H. Brothers Co.
Calvert Electronics
CeCo Communications
EEV
Levit Electronics
RCA Distributor & Special Products
RF Gain
Team Electronics
Varian Associates

RECTIFIER TUBES

AEG-Telefunken
Amperex
Calvert Electronics
CeCo Communications
EEV
Levit Electronics
RCA Distributor & Special Products
RF Gain
Team Electronics
Thomson-CSF
Varian Associates
Westinghouse Electric Corp.

SOLID-STATE REPLACEMENT

AEG-Telefunken
Amperex
Calvert Electronics
Electronic Devices
Microwave Power Devices

TRANSMITTER TUBES, AM/FM

AEG-Telefunken
Amperex
Broadcast Electronics
Calvert Electronics

Ceco Communications
Comad Communications
EEV
Econco Broadcast Service
Elcom-Bauer
Freeland Products Co.
Harris Corporation
Levit Electronics
RCA Distributor & Special Products
RCA Electro-Optic Devices
RF Gain
Team Electronics
Thomson-CSF
Vacuum Tube Industries
Varian, MCSD
Westinghouse Electric Corp.

TRANSMITTER TUBES, KLYSTRONS

AEG-Telefunken
Amperex
Calvert Electronics
EEV
Harris Corporation
NEC America
Thomson-CSF
Vacuum Tube Ind. Inc.
Varian Assoc.
Varian, MCSD

TRANSMITTER TUBES, VHF

AEG-Telefunken
Amperex
Calvert Electronics
EEV
Econco Broadcast Service
Harris Corporation
RCA Electro-Optic Devices
Thomson-CSF
Vacuum Tube Industries
Varian Associates

VIDEO CAMERA PICKUP

ATV Research
Amperex
Robert Bosch GmbH
David H. Brothers Co.
Calvert Electronics
Ceco Communications
EEV
English Electric Valve
GBC Closed Circuit TV
Harris Corporation
Hitachi
Levit Electronics
Link Electronics
Panasonic
Philips
RCA Electro-Optic Devices
Team Electronics
Thomson-CSF

TUNERS, FM

Bill Audio Systems
Bogen Division / Lear Siegler
Catal
Crown International
Johnson Electronics
McMartin Industries
Paso Sound Products
Pyramid Loudspeaker Corp.
H. H. Scott
Sharp Electronics
Singer Products Company
Studer International AG
Studer ReVox America

TUNERS, VIDEO

Barco (Elector)

TURNKEY INSTALLATION SERVICES

AEG-Telefunken
A.F. Associates
Alice Stancil Ltd.
Altha Video & Elect. Corp.
Amek Systems & Controls
Andrew Corporation
Antennas for Communications Inc.
Audix
Aydin Microwave
Braybury Electronics

Burden Associates
 Canter-Redman Technologies Corp.
 Jim Cason Electronics
 Central Dynamics
 Centro
 Comad Communications
 Comark Communications Inc.
 Compact Video
 Computer Management Systems
 Crowder Communications
 Davis Electronics
 John J. Davis & Assoc.
 Delta Systems
 Dynacom Electronics Ltd.
 Dynamic Technology
 EEG Enterprises
 EMCEE Broadcast Products
 Electro - Acoustic Designs
 Elektrolmex
 Gabriel Electronics
 Global Communications
 Harris Corporation
 Harrison Systems
 Hoppmann Corporation
 Immad Broadcast Services Ltd.
 Jamieson and Associates
 Jatex
 Jenel Consultants
 Jerrold Div., Gen. Instrument Corp.
 Larcam Communications Inc.
 Leader Broadcast Systems
 LeBlanc & Royle
 Link Electronics
 McCurdy Radio Industries
 M/A-COM Video Systems
 MBI Broadcast Systems
 Microdyne Corporation
 Midwest Corp.
 Multi-Track Magnetics
 Multiphase Consulting
 National TeleConsultants
 L.E. Nelson
 Rupert Neve
 Pacific Recorders & Engr.
 Professional Electronics Co.
 RCA Broadcast Systems
 RCA Service Company
 Radio Systems
 Radiotechniques
 Rohde & Schwarz
 Rosner Television Systems
 Sait Electronics
 Sat Vision
 Siemens AG Osterreich
 Soil Inc.
 Standard Telephon und Radio
 Strand Century
 Studer International
 Swager Tower Corp.
 TBC Pty. Ltd.
 Telecommunications Systems
 Thomson-CSF
 Townsend Associates
 Tramec Electronics
 Ultra Audio Pixtec
 United States Tower
 Valley People
 Valtec Corporation
 Velec Sefat
 Video Masters
 World Tower Company

TURNKEY TV FACILITY

AEG-Telefunken
 A.F. Associates
 Aderhold Construction
 Altha Video & Elect. Corp.
 BFE KG
 CSP Inc.
 Central Dynamics
 Centro
 Crowder Communications
 Dynacom Electronics Ltd.
 General Television Network
 Global Communications
 Graham-Patten Systems
 Harris Corporation, Broadcast
 Products Division
 Harrison Systems
 Immad Broadcast Services
 Jenel Consultants
 LeBlanc & Royle Comm. Inc.
 Merlin Engineering Works
 Midwest Corp.
 Multi-Track Magnetics

L.E. Nelson
 RCA Broadcast Systems
 Rohde & Schwarz
 Rosner
 Soil Inc.
 Siemens AG Osterreich
 Strand Century
 Thomson-CSF
 Ultra Audio Pixtec

TURNTABLES & ACCESSORIES

PHONO CARTRIDGES
(See Cartridges, Phono)

TONE ARMS
 Audio-Technica US, Inc.
 Broadcast Electronics
 Cart-Align Research
 Cetec Broadcast Group
 Continental Electronics
 D - B Electronics
 Elektrolmex
 Fidelipac Corp.
 Harris Corporation, Broadcast
 Products Division
 IGM Communications
 LPB Inc.
 McCurdy Radio Industries
 Micro-Trak
 Panasonic, Professional Audio Div.
 Ramko Research
 Russco
 Shure Brothers
 Westrex

TURNTABLE

AIWA
 Bogen Division / Lear Slegler
 Broadcast Electronics
 David H. Brothers Co.
 Cetec Broadcast Group
 Continental Electronics
 D - B Electronics
 Elektrolmex
 EMT - Franz
 Harris Corporation, Broadcast
 Products Division
 IGM Communications
 LPB Inc.
 McCurdy Radio Industries
 McMartin Industries
 Micro-Trak Corporation
 Panasonic, Professional Audio Div.
 RCA Broadcast Systems
 Radio Systems
 Ramko Research
 Russco
 H.H. Scott
 Sharp Electronics
 Stanton Magnetics Inc.
 Studer International AG
 Studer ReVox America

SPEED CONTROLS

Broadcast Electronics
 Harris Corporation, Broadcast
 Products Division
 McCurdy Radio Industries

VANS & MOBILE UNITS

ENG/RENG REMOTE

A.F. Associates
 Altha Video & Elect. Corp.
 Audix Limited
 Robert Bosch GmbH
 Brabury Broadcast Systems
 Brabury Electronics
 Centro
 ComCoach Corporation
 Compact Video Systems
 Compro
 Crow of Reading Ltd.
 Dell Technical Vehicles
 Dynamic Technology
 E-N-G Corporation
 Farinon Video/Harris
 The Gerstenslager Company
 Harris Broadcast Microwave
 Harris Corporation, Broadcast
 Products Division
 Hughes Television Network
 Jenel Consulting Engineers

Link Electronics
 M/A-COM Video Systems
 Marconi
 Midwest Corporation
 NET Enterprises
 One Pass Video
 Philips Broadcast Group
 RCA Broadcast Systems
 R F Technology
 Rack Techniques
 Sait Electronics
 Siemens AG Osterreich
 Standard Telephon und Radio
 Studer International AG
 Tayburn Electronics
 Television Engineering
 Thomson-CSF
 Van Ladder
 Video Masters
 Videomedia
 Videosystems International
 Wold Communications
 Wolf Coach Inc.

VIDEO PRODUCTION

A.F. Associates
 Altha Video & Elect. Corp.
 Robert Bosch GmbH
 Brabury Broadcast Systems
 Brabury Electronics
 Centro
 ComCoach Corporation
 Compact Video Systems
 Compro Productions
 Crow of Reading Ltd.
 Dell Technical Vehicles
 Dynamic Technology
 E-N-G Corporation
 The Gerstenslager Company
 Harris Corporation, Broadcast
 Products Division
 Hughes Television Network
 Interface Video Systems
 Jenel Consulting Engineers
 Lang Video Systems
 Link Electronics
 Marcom Communication Systems
 Marconi
 Midwest Corporation
 Mobile Visual Productions
 NET Enterprises
 One Pass Video
 Phillips Broadcast Group
 RCA Broadcast Systems
 RCA Service Company
 Rosner Television Systems
 Sait Electronics
 Siemens AG Osterreich
 Soil Inc.
 Standard Telephon und Radio
 Television Engineering
 Thomson-CSF
 Video I-D
 Video Masters
 Videomedia
 Videosystems International
 Wold Communications
 Wolf Coach Inc.

VANS WITH LADDERS

Brabury Broadcast Systems
 Centro
 Compact Video
 Crow of Reading Ltd.
 Dell Technical Vehicles
 Dynamic Technology
 E-N-G Corporation
 Harris Corporation
 Kindwall Corp.
 Midwest Corporation
 NET Enterprises
 Phillips Broadcast Group
 Rosner Television Systems
 Television Engineering
 Thomson-CSF
 Van Ladder
 Videosystems International
 Wolf Coach Inc.

VIDEO CONTROLLER

BCB Electronic Sales
 BTX Corp.
 CMC Technology Corp.
 Cezar International
 Channelmatic
 Control Video

Convergence
 Crow of Reading Ltd.
 Jatex Inc.
 Javelin Electronics
 MPB Technologies
 Microtime
 Panasonic
 Rohde & Schwarz
 Tech Electronics

VIDEO LINE OUTPUT DISPLAY

Broadcast Video Systems
 Datum
 Javelin Electronics

VIDEOTAPE DUPLICATION

Video Dub Inc.

WEATHER GRAPHIC SYSTEM

Spectra Computer Systems

WEATHER INSTRUMENTS

Arvin-Diamond
 ESE
 Computer Video Systems
 Harris Corp., Broadcast Products
 Heath Company
 Information Processing Systems
 Kudelski SA Switzerland
 Merrill Cable Equipment Corp.
 Nagra Magnetic Recorders
 North Wind Power
 Taylor Instrument
 Texas Electronics
 Texscan
 Viz Manufacturing
 Weatherscan International

WEATHER RADAR SYSTEMS

AEG-Telefunken
 Alden Elec. & Impulse Recording
 Calvert Electronics
 Computer Video Systems
 Enterprise Electronics
 Oktel Corporation
 Sperry Marine Systems
 Technology Service
 Varian Associates
 Weatheration
 Weatherscan International

WEATHER RECEIVERS

(See Receivers, Weather)

WEATHER SERVICES

Arvin Echo
 BEI (Beston Electronics)
 Computer Video Systems
 Connect Air International
 McInnis-Skinner & Associates
 Mesomet
 Spectra Computer Systems
 Synsat International
 Station Program Resources
 Telesource Communication Services
 Texscan
 Weather Services International
 Weatherscan International
 Weatheration

WIRE *(See Cable)*

WIRING SERVICES

(See Cable)

DIRECTORY OF MANUFACTURERS AND SERVICE COMPANIES

A

ADDA CORPORATION

1671 Dell Ave.
Campbell, CA 95008 (408) 379-1500

Regional Sales Offices:

ADDA CORPORATION
No. 7 Pitman Avenue
Wakefield, MA 01880 (617) 245-4602

Contact: Frank Alioto, Reg. Sls. Mgr.
ADDA CORPORATION
1966 E. 38th St.

Brooklyn, NY 11234 (212) 375-4064

Contact: Marty Frange, Reg. Sls. Mgr.
ADDA CORPORATION
13952 Chelmsford Walk

Westminster, CA 92683 (714) 891-3364

Contact: Sheila Holmes, Reg. Sls. Mgr.
ADDA CORPORATION
9517 Moody Park Circle

Overland Park, KS 66212 (913) 631-1500

Contact: Emerson Ray, Reg. Sls. Mgr.
ADDA CORPORATION
30310 Woodgate Dr.

Southfield, MI 48076 (313) 332-1500

Contact: Dick Strauss, Reg. Sls. Mgr.
ADDA CORPORATION
2693 Twigg Circle

Marletta, CA 30067 (404) 953-1500

Contact: Duane Tuttle, Reg. Sls. Mgr.

ADM TECHNOLOGY INC.

1626 E. Big Beaver Road
Troy, MI 48084 (313) 778-8400

Sales Contact: Murray Shields, VP/Sales

Regional Sales Offices:

ADM TECHNOLOGY INC.
P.O. Box 912
Arlington, TX 76010 (817) 467-2990

Contact: Gordon Peters, Sales Rep.
ADM TECHNOLOGY INC.
2118 26th Ave.

San Francisco, CA 94116 (415) 664-2400

Contact: Ron Webb, Sales Rep.

AEG-TELEFUNKEN,

Bayly Engineering Ltd.

167 Hunt St.
Ajax, Ontario
Canada L1S 1P6 (416) 683-8200

Sales Contact: Bill Lindsay, Sales Manager

AEG-TELEFUNKEN

Theodor-Stern-Kei
6000 Frankfurt/Main
West Germany (0611) 600

Sales Contact: Hans Gissel, Dr. Eng.

AEL-AMERICAN ELECTRONIC

LABORATORIES INC.

P.O. Box 552
Lansdale, PA 19446 (215) 822-2929

Sales Contact: A. Rosset, Adv. Mgr.

A.F. ASSOCIATES INC.

100 Stonehurst Ct.
Northvale, NJ 07647 (201) 767-1000

Sales Contact: Bill Ebell, Mktg. Mgr.

AIWA AMERICA INC.

35 Oxford Drive
Moonachie, NJ 07074 (201) 440-5220

Sales Contact: Robert Fisher, Nat'l. Sls. Mgr.

AKG ACOUSTICS INC.

77 Selleck St.
Stamford, CT 06902 (203) 348-2121

Sales Contact: Peter Wellikoff, Nat'l. Sls. Mgr.

AKG Akustische u. Kino-Geräte GEs.m.b. H

A-1150 Vienna,
Brunnhildengasse 1 (0222) 956517

Sales Contact: Ing. H. Sicheritz, Int'l Sls. Mgr.

AMP INC.

P.O. Box 3608
Harrisburg, PA 17105 (715) 564-0100

Sales Contact: Robert Steele, VP Ind. Sls.

AMP SPECIAL INDUSTRIES

(A subsidiary of AMP Incorporated)

Valley Forge, PA 19482 (215) 647-1000

Sales Contact: Joseph Maher, Gen. Sls. Mgr.

A & S CASE COMPANY

1111 North Gordon Street
Hollywood, CA 90038 (213) 466-6181

Sales Contact: Jan Alejandro, Sales Mgr.

ATI-AUDIO TECHNOLOGIES INC.

328 W. Maple Ave.
Horsham, PA 19044 (215) 443-0330

Sales Contact: Ed M. Mullin, V.P.

Regional Sales Offices:

AUDIOTECHNIQUES
652 Glenbrook Road
Stamford, CT 06906 (203) 359-2312

Contact: Michael Faulkner
ALLIED BROADCAST EQPT.
635 South E Street

Richmond, IN 47374 (317) 962-8596

Contact: Roy Ridge
AVC SYSTEMS INC.
1517 E. Lake St.

Minneapolis, MN 55407 (612) 729-8305

AUDIO DISTRIBUTORS INC.
2342 Division Ave., S.
Grand Rapids, MI 49507 (616) 452-1596

BROADCAST COMM. PRODUCTS
8179 Second Ave.
Leyden, CO 80401 (303) 424-3231

Contact: Greg Pine
BROADCAST EQPT. & SUPPLY CO.
P.O. Box 3141

Bristol, TN 37620 (615) 878-2531

DOUG BROWN ENTERPRISES
1703 E. Skelly Drive
Tulsa, OK 74105 (918) 747-3618

Contact: Doug Brown
COMAD COMMUNICATIONS
91 Kelfield Street, Unit 5

Rexdale, Ontario M9W 5A3 (416) 245-1734

Contact: Emil Adamyk
CRAMER VIDEO/AUDIO SYSTEMS
120 Hampton Ave.

Needham, MA 02194 (617) 449-2100

Contact: Jim Rittterman
CROUSE-KIMZEY CO.
P.O. Box 9830

Ft. Worth, TX 76107 (800) 433-2105

Contact: Mark Bradford
FLANNER AND HAFOS
2500 N. Mayfair Rd.

Milwaukee, WI 53226 (414) 259-9665

Contact: John Loeper
FULL COMPASS SYSTEMS
6729 Seybold Road

Madison, WI 53719 (608) 271-1100

Contact: Jonathan Lipp
GRAY COMM. CONSULTANTS INC.
5401 Southern Comfort Blvd.

Tampa, FL 33614 (813) 885-1411

DAVID GREEN BROADCAST CONSULTANTS
P.O. Box 590
Lynchburg, VA 22405 (703) 777-8660

Contact: David Green
H.M. HOLZBERG ASSOC.
P.O. Box 322

Totowa, NJ 07051 (201) 256-0455

Contact: Herb Holzberg
MARTIN AUDIO/VIDEO CORP.
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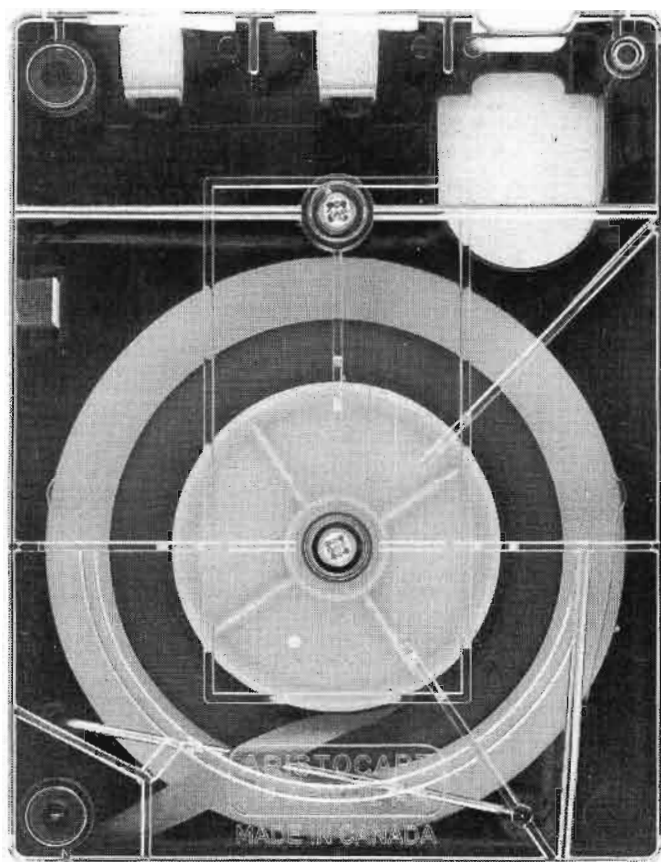
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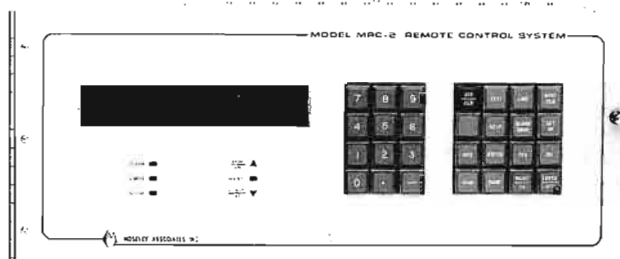
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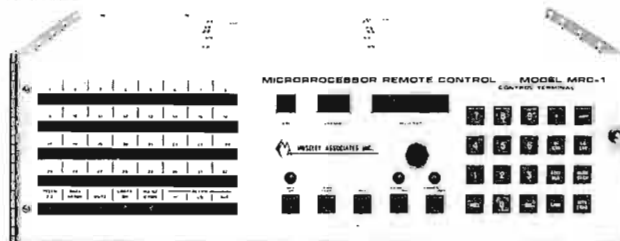
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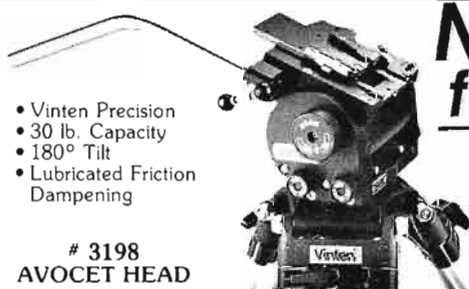
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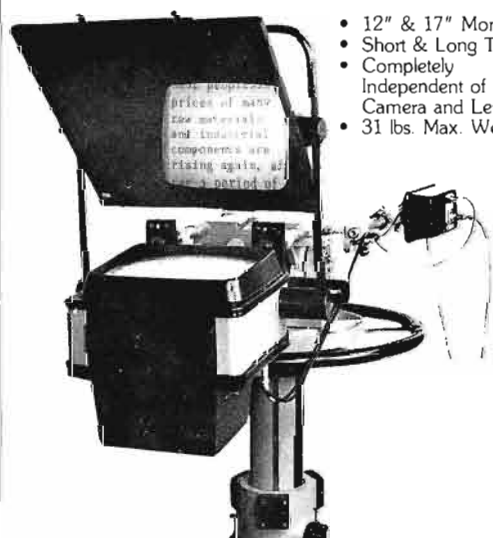
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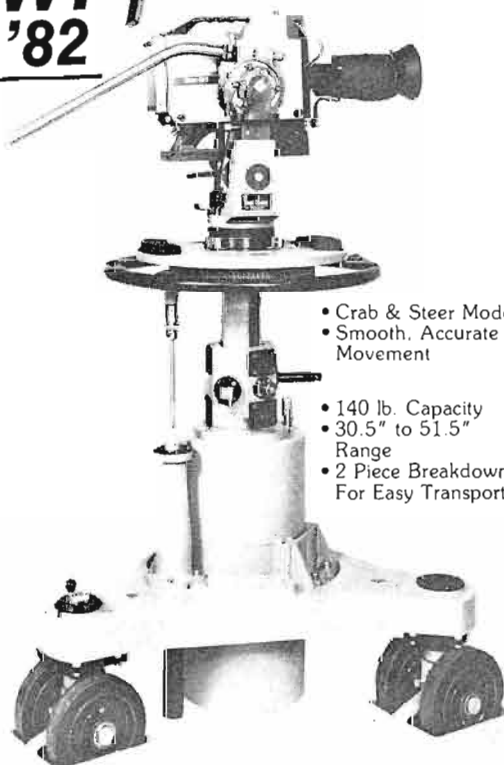
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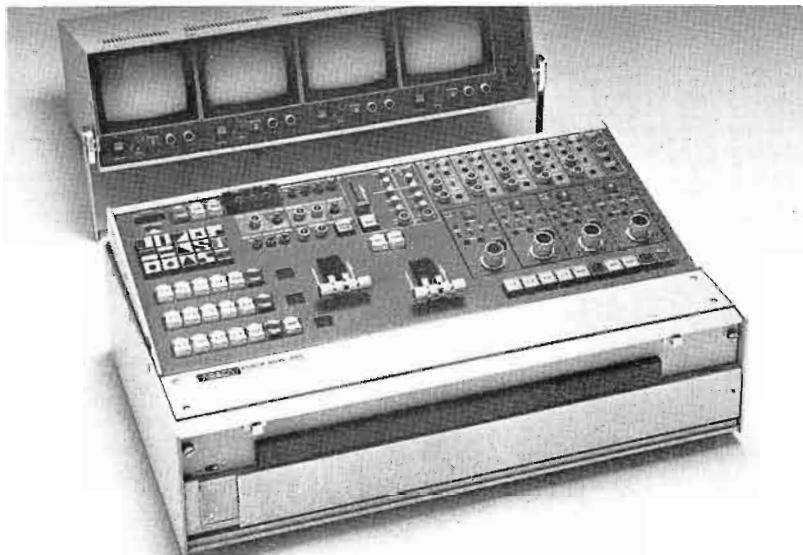
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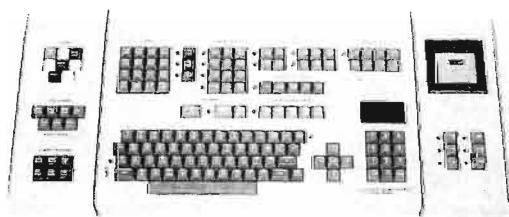
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Agincoourt, Ontario M1W 2L8 (416) 497-1020
Sales Contact: Bert Verwey, Gen. Mgr.

BRUEL & KJAER INSTRUMENTS
185 Forest St.
Marlboro, MA 01752 (617) 481-7000
Sales Contact: Simon Jepsen, Reg. Mgr.

BRUMAC INDUSTRIES
5261 Business Dr.
Huntington Beach, CA 92649 (714) 891-2505
Sales Contact: Carl Bode, V.P. Marketing

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FORGFLO CORP.**
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P.O. Box 638
Sunbury, PA 17801 (717) 286-5611
Sales Contact: Robert I. Trachtenberg, VP

BRYSTON MANUFACTURING LTD.
57 A Westmore Drive
Rexdale Ontario
Canada M9V3Y6
Sales Contacts:
Brian Russell (CAN) (416) 746-1800
John Russell (US) (802) 223-6159

BUD INDUSTRIES INC.
4605 E. 355th St.
Willoughby, OH 44094 (216) 946-3200
Sales Contact: Blair Haas, Sales Mgr.

BUHL OPTICAL
1009 Beech Avenue
Pittsburgh, PA 15233 (412) 321-0076
Sales Contact: Irv Stapsy, Pres.

BURDEN ASSOCIATES
20944 Sherman Way
Canoga Park, CA 91303 (213) 340-4590
Sales Contact: Richard Burden, Mgr.

THE WILL BURT CO.
169 S. Main St.

Continued on page 126

For maintenance technicians, no practice is perfect!

Too much routine studio maintenance is enough to turn off any good technician. They'd prefer to spend their time on more pressing problems, rather than just practicing their skills on routine chores. And that's what makes the AVL Digital Routing Switcher perfect for busy maintenance departments. It's routine-maintenance free. No practice is necessary!

With AVL Digital, constant fine-tuning and regular adjustments are chores of the past. That can save time and money for the department. The system is reliable and simple... just install it and turn it on for dependable control switching performance.

AVS 100 switchers are available from stock in standard configurations such as 10 x 10 and 20 x 20, or virtually any size, made to order. There's a full range of 'audio

follow video', 'video only' and 'audio only' systems available.

Building an AVL system to meet specific needs is as simple as it is to maintain!

Give your technicians a break from the regular maintenance practice. The AVL Digital Routing Switcher is a perfect start.

For more details on AVS 100 Switchers, options, sizes and other quality AVL Digital products, please contact...



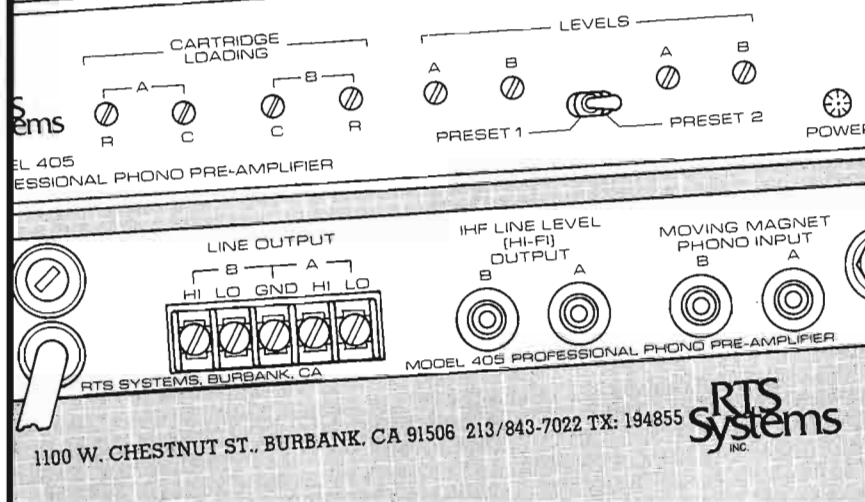
AVL DIGITAL LTD.
70 Milner Avenue, Unit 5
Scarborough, Ontario Canada M1S 3P8
Telephone: (416) 298-6220
Tlx: 06-963533 Twx: 610-4923219



Circle (69) on Action Card

PHONO PRE

Our Model 405 Professional Phono Preamplifier offers high performance in a unique package: +27 dBm balanced output at .003% THD, -72 dB SNR, and 70 dB channel separation. Compact, self-contained, the 405 may be used free standing or in single or tandem rack mount. Let us tell you more about our distinguished high definition Phono Preamplifier. Call or write RTS Systems for details.



Circle (70) on Action Card

Get the most from your AM signal...



The MAP II Multiband Audio Processor gives you optimum modulation of your AM/AM-Stereo program. Yet it costs much less than similar systems.

Discriminate Compression
Only MAP II offers you independent compression and equalization for each of eight bands. Input level is held constant by a slow, gain-riding A.G.C.

Inaudible Phase Optimization
Program phase is silently "rotated" for maximum positive modulation.

Absolute Peak Control
A unique integrated peak controller combines a hard clipper with a low-distortion peak limiter.

Convenient Operation
Features include selectable low- and high-pass filters, "proof" mode, and built-in pink-noise generator.

Call or write today for more information.

Inovonics Inc.

503-B Vandell Way
Campbell, CA 95008

Telephone
(408) 374-8300



Circle (71) on Action Card

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Sales Contact: H. Featherstone, VP

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Sales Contact: William R. Trimmer, Plant Mgr.

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CAE INC.
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Sales Contact: John Malek, Mktg. Mgr.

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Sales Contact: Joe Soll

C-COR ELECTRONICS INC.
60 Delibel Road
State College, PA 16801 (814) 238-2461
Sales Contact: Gerry Groff, Inside Sales

CCS CABLE
Plant 5707
5707 W. Buckeye Rd.
Phoenix, AZ 85043 (602) 272-6855
Mail: P.O. Box 14710
Phoenix, AZ 85063
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880 Maude Ave.
Mt. View, CA 94043-4089 (415) 969-1910
Sales Contact: Len Adler, Dir. of Mktg.

Regional Sales Offices:
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137 E. 25th Street
Floor 9
New York, NY 10010 (212) 685-4390
Contact: Harvey Ray, Eastern Sls. Mgr.
CEI
4357 N. Lowell Avenue
Chicago, IL 60641 (312) 725-8181
Contact: Jim Comella, Midwest Sls. Mgr.
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880 Maude Avenue
Mountain View, CA 94043 (415) 969-1910
(714) 540-2317
Contact: Jim Irvine, Int'l Mktg. Mgr.

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Sales Contact: William E. Fitts, Dir. of Mkt.

CMX SYSTEMS/ORROX CORPORATION
3303 Scott Blvd.
Santa Clara, CA 94086 (408) 988-2000
Sales Contact: Allan J. Behr, VP/IGM

Regional Offices:
CMX SYSTEMS/ORROX CORP.
3303 Scott Blvd.
Santa Clara, CA 95050 (408) 988-2000
Contact: Darrell Vincent, W. Reg. Field Sls. Mgr.
CMX SYSTEMS/ORROX CORP.
1301 W. 22nd St., Suite 501
Oakbrook, IL 60521 (312) 325-8488
Contact: Doug Hutton, Cent. Reg. Field Sls. Mgr.
CMX SYSTEMS/ORROX CORP. (212) 371-1122
Contact: Murray Bevilz, E. Reg. Field Sls. Mgr.

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18248 East Rogers Circle
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Sales Contact: Bernard Gelman, President

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Sales Contact: David C. Gorman, President

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60 Dodge Ave.
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Sales Contact: William Meola,
Broadcast Sales Mgr.

CALDATACOM
293 Quinhill Ave.
Los Altos, CA 94022 (415) 941-2259
Sales Contact: D.J. Edwards, V.P. Mktg.

CALICO VIDEO
8955 Thwin Rd.
Stockton, CA 95209 (209) 952-3333

CALIFORNIA INSTRUMENTS,
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San Diego, CA 92111 (714) 279-8620
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Sales Contact: Mike Tooley, Mktg. Mgr.

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Sales Contact: Larry Broome, Sales Mgr.

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Contact: Jane Stack, West Coast Sls. Mgr.
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Dir. of Mktg./Sales

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Bloomfield, CT 06002 (203) 243-1761
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Sales Contact: Sherman Duck, V.P.

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Sales Contact: John J. Keyes, Vice Pres.

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Sales Contact: Quentin Nelson, VP, Mktg.

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Sales Contact: Larry Hockemeyer,
Bud Jackson, VP/Int'l Sls.

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Sales Contact: Janene Spencer, Sales Mgr.

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Sales Contact: Wayne Nall, VP Mktg.

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Sales Contact: Jim Cason, Owner

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Sales Contact: Tony Ianna, Brd. Mgr.

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Philadelphia, PA 19102 (215) 568-6010
Sales Contact: Jordan Schwartz, Chairman

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900 Corporate Drive
Mahwah, NJ 07430 (201) 529-1550
Sales Contact: John L. Barker, President

Regional Sales Offices:
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331 West Northwest Hwy.
Palatine, IL 60067 (312) 991-4720
Contact: Jim Gardner, Reg. Mgr.
CENTRAL DYNAMICS CORPORATION
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No. Hollywood, CA 91604 (213) 766-8184
Contact: M. Hart/D. Cadora, Reg. Mgrs.
CENTRAL DYNAMICS CORPORATION
570 Taxter Road, Suite 570
Elmsford, NY 10523 (914) 592-5440
Contact: Dick DeBeradinis, Reg. Sls. Mgr.
CENTRAL DYNAMICS
801 Howard Grove Road
Davidson, MD 21035 (301) 956-3065
Contact: Bob Mahoney, Reg. Manager
CENTRAL DYNAMICS
(American Data headquarters)
401 Wynn Drive
Huntsville, AL 35805 (205) 837-5180
Contact: Bob Munzner, Reg. Manager
CENTRAL DYNAMICS
P.O. Box 27324
Indianapolis, IN 46227 (317) 784-3000
Contact: Jim Gardner, Reg. Manager
CENTRAL DYNAMICS
Rt. 2, 801 E. Woodglen
Lewisville, TX 75067 (817) 455-2214
Contact: Mike Mackin, Reg. Manager

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Pointe Claire, Quebec
Canada H9R 1G1 (514) 697-0810

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Sales Contact: Jon Munderloh, President

CENTURY 21 PROGRAMMING
4340 Beltwood Parkway (800) 527-5959
Dallas, TX 75234 or (214) 934-2121
Sales Contact: Tom McIntyre, President

CENTURY PRECISION CINE/OPTICS
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No. Hollywood, CA 91601 (213) 766-3715
Sales Contact: Ken Skuban, Mktg. Admin.

CETEC ANTENNAS
6939 Power Inn Road
Bow 2842 5
Sacramento, CA 95828 (916) 383-1177

Continued on page 128

Video Switcher



SERIES 1500 6 x 1 Passive Video Switcher provides a simple and economical means of manually switching one of six sources to one output.

Auxiliary switching contacts are included for user wiring of additional switching functions such as audio and control circuits.

- ★ Reliable operation
- ★ Auxiliary switch contacts for audio or control circuits
- ★ Lighted push button option
- ★ Legendable buttons

DYN AIR

5275 Market St., San Diego, CA 92114
Phone 714/263-7711
TWX 910/335-2040

Circle (72) on Action Card

Distribution Amplifier



SERIES 1500 1 in, 4 out Video Distribution Amplifiers provide high quality performance in color and high resolution monochrome systems.

Precision hybrid video operational amplifiers provide ± 0.5 dB frequency response to 10 MHz, $+1$, -2 dB at 30 MHz, and 0.25%/0.250 differential phase/gain.

- ★ High thermal stability
- ★ Front panel adjustment and test points
- ★ Self-contained with internal power supply

DYN AIR

5275 Market St., San Diego, CA 92114
Phone 714/263-7711
TWX 910/335-2040

Circle (73) on Action Card

TX6 AUDIO DA

Our Model 416 is a super high-performance 1 by 6 audio distribution amplifier with balanced differential input and six transformer coupled outputs—each driven by a separate amplifier with independent level control. Super specifications and a rack-mountable compact package make this amplifier perfect for any distribution need. For more about this versatile amplifier, call or write RTS.

RTS SYSTEMS, BURBANK, CA, USA

1100 W. CHESTNUT ST., BURBANK, CA 91506 213/843-7022 TX: 194855

Circle (74) on Action Card



Revox PR99. Not just another pretty faceplate.

Before you buy a compact audio recorder, be sure to compare what you're getting on the inside. Look at the chassis, the headblock, the motors, the switches, the PC boards, and the wiring. When you do, you'll notice a difference between the PR99 and everything else in its price range. The PR99 looks better because it must adhere to stricter standards of quality. Standards that have made Studer Revox the world's most respected name in audio recording.

PR99 features: • Balanced and floating line in and line out • Calibrate/uncalibrate switches • Servo controlled capstan motor • Edit mode switch • Tape dump • Self sync • Optional remote control and vari-speed • Cabinet, console, and rack mount versions.

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AMERICA, INC.

STUDER REVOX OF AMERICA, INC. • 1425 Elm Hill Pike • Nashville, TN 37210 • (615) 254-5651

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Sales Contact: Jerry R. Clements,
National Sales Mgr.
Tony Mezey, Prod. Mgr.

CETEC GAUSS

9130 Glenoaks Blvd. (213) 875-1900
Sun Valley, CA 91352 Telex: 194989
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CETEC VEGA

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El Monte, CA 91731 (213) 442-0782
Sales Contact: Ken Bourne, Dir. of Mktg.

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Sales Contact: Richard A. Hogberg, Reg. S. Mgr.

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Sales Contact: Diane Church, Sls. Coord.

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Sales Contact: David Biberman, Mktg. Mgr.

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Sales Contact: David Buckler, Dir. Sales

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630 9th Ave.
New York, NY 10036 (212) 586-8782
Sales Contact: Don F. Civitillo, Mktg. Mgr.

Regional Sales Offices:

CINE 60 INC.
6430 Sunset Blvd.
Hollywood, CA 90028 (213) 461-3046
Sales Contact: Evan Green, Mgr.

CINEMA PRODUCTS CORPORATION

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Los Angeles, CA 90025 or 477-1972
Sales Contact: Ed Clare, Nat'l. Sls. Mgr.

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CINETRONICS

8610 Oakdale Ave.
Canoga Park, CA 91306 (213) 709-4694
Sales Contact: Dieter Steinmaier, Owner

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Tempe, AZ 85282 (602) 894-0077
Sales Contact: Jack Stuart, Mktg. Mgr.

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San Francisco, CA 94107 (415) 861-6666
Sales Contact: Edward M. Fitzgerald, Sales Dir.

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Worcester, MA 01604 (617) 756-6216
Sales Contact: George R. Conlon, Prod. Mgr.

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Sales Contact: Julian J. Pec, App. Sls. Eng.

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Martha Freeman, Mktg. Rep.

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Sales Contact: Emil Adamyk, President
Regional Sales Office:
COMAD INC.
P.O. Box 10667
Pensacola, FL 32504 (904) 434-9782

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Sales Contact: T.H. Sullivan, Gen. Mgr.

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Sales Contact: Victor M. Hall, Sls. Mgr.

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John Brandon

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Sales Contact: Susan Bodiford,
Sls. & Mktg. Rep.

COMPUCON INC.

P.O. Box 401229
Dallas, TX 75240
13749 Neutron Road
Dallas, TX 75234 (214) 233-4380
Sales Contact: Becky Shipman, Sls. Rep.

COMPUTER BUSINESS SYSTEMS INC.

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Weymouth Industrial Park
Weymouth, MA 02189 (617) 337-7799
Sales Contact: Richard White, Dir.

COMPUTER CONCEPTS CORPORATION

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Overland Park, KS 66202 (800) 255-6350
Sales Contact: Greg Dean, President

COMPUTER GRAPHICS LAB

Wheatley Road
Old Westbury, NY 11568

COMPUTER IMAGE CORP.

2475 West 2nd Avenue
Denver, CO 80223 (303) 934-5801
Sales Contact: Pete Freyschlag

Continued on page 130

Balanced Equalizer



SERIES 1500 Balanced Equalizing Amplifiers provide high quality video transmission through 124 ohm cable runs.

High performance 24 dB post-equalization for cable runs to 3,000 ft. — 7,500 ft. when used with pre-equalizer.

- ★ Front panel adjustments and test points
- ★ Two outputs
- ★ High thermal stability
- ★ Self-contained with internal power supply

DYN AIR

5275 Market St., San Diego, CA 92114
Phone 714/263-7711
TWX 910/335-2040

Circle (76) on Action Card

Unbalanced Equalizer



SERIES 1500 Unbalanced Equalizing Amplifiers provide high quality video transmission through 75 ohm cable.

High performance 24 dB post-equalization for cable runs to 3,000 feet.

- ★ Differential/grounded inputs
- ★ Front panel adjustments and test points
- ★ Two outputs
- ★ High thermal stability
- ★ Self-contained with internal power supply

DYN AIR

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Circle (77) on Action Card

Racal-Decca Canada Inc.

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- **GUY STRAIN INSULATORS**
- **BASE INSULATORS***
- **ISOLATION TRANSFORMERS**
- **TRANSFORMER ENCLOSURES,
STATIC DRAIN RESISTORS,
CUSTOM DESIGNED
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* Base Insulators can be adapted for direct mounting of Isolation Transformers

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Circle (78) on Action Card

NEW FM AND TV FIELD STRENGTH METER FIM-71

- Accurate — Direct Reading — Volts or dB ■ 45 MHz to 225 MHz — Continuous Tuning ■ Peak or Averaging Detector (switch selectable) ■ Wide or Narrow IF Bandwidth (switch selectable) ■ 20 dB or 60 dB Meter Range (switch selectable) ■ AM or FM Demodulator (switch selectable) ■ Calibrated Dipole Antenna, Mounted on Case for Near-Ground Measurements or Removable for TASO Measurements ■ 140 dB Measurement Range (1 μ V to 10 V) ■ 4 1/2-Inch, Mirrored Scale, Taut-Band Meter
- Front Panel Speaker
- Recorder Output
- Rugged, Portable Package ■ Calibrated Signal Generator, 45 MHz to 225 MHz
- Battery or External Power ■ Use as Signal Source/Selective Voltmeter for Insertion Loss Measurements of Filters, etc. ■ Measures FM Harmonics to -80 dB



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SILVER SPRING, MD. 20910
(301) 589-2662

Circle (79) on Action Card

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6610 North Shadeland Ave.
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Sales Contact: Myron Keeney, VP

COMPUTER VIDEO SYSTEMS INC.
3678 West 2150 South Unit No. 2
Salt Lake City, UT 84120 (801) 974-5380
(800) 453-8822
Sales Contact: Randy Wegner, Dir. of Mktg.

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P.O. Box 269
Sudbury, MA 01776 (617) 443-8811
Sales Contact: Lynn Distler, Sls. Mgr.

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Sales Contact: Jerry Schulman, VP

COMSONICS INC.
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Sales Contact: Carl Hensley, Gen. Sls. Mgr.

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St. Cloud, FL 32769-4692 (305) 892-6111
Sales Contact: Glenn Higgins, VP

COMTECH DATA CORPORATION
350 N. Hayden Road
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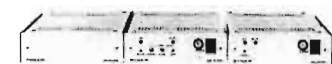
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Switch, Distribute, Equalize

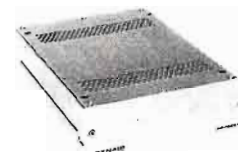
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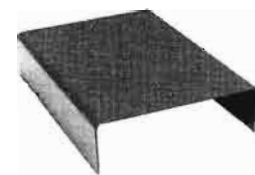
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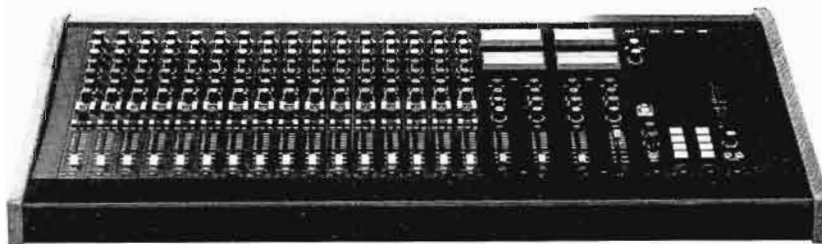
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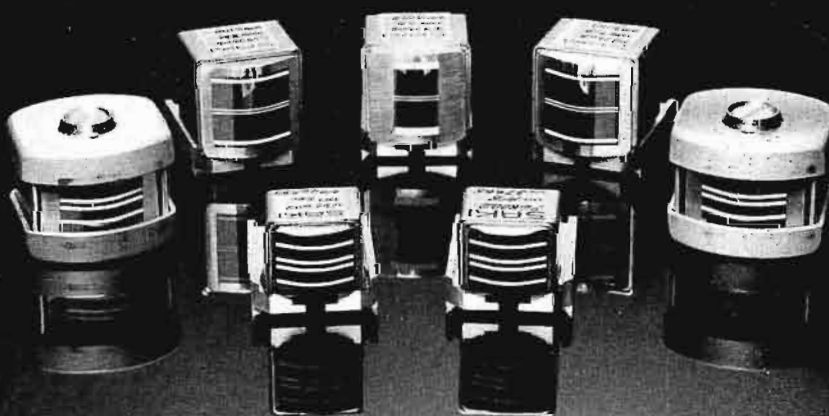
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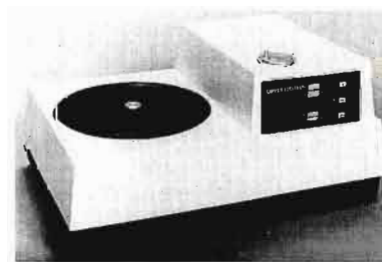
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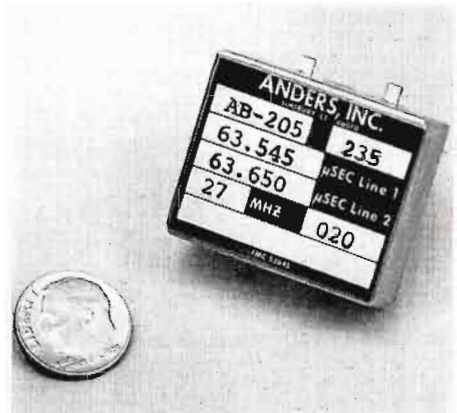
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Sales Contact: Brian Fogerty, Nat'l. Sls. Mgr.

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Sales Contact: Mike Klasco

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Sales Contact: R. Tucker, Sales Dir.

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Sales Contact: Dr. Leonard Reiffel, Pres.

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1333 New Hampshire Ave., NW LL-200
Washington, DC 20036 (202) 861-0500
Sales Contact: Terri Symonds Grow, Sales, Marketing

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Chicago, IL 60611 (312) 943-1200
Sales Contact: E.K. Lunkenheimer, VP/Sales

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580 F Dobbie St.
Winnipeg, Manitoba
Canada R2K 1G4 (204) 668-4864
Sales Contact: Paul Nagle, Sales Mgr.

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350 N. Eric Drive
Palatine, IL 60067 (312) 358-4622
Sales Contact: Tony Pretto, Sales Mgr.

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Schneider 14X ENG/EFP lens zooms from super wide angle to long telephoto.

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Finland *358 86 37311
Sales Contact: Veikko Hjerpe, Mark. Mgr.

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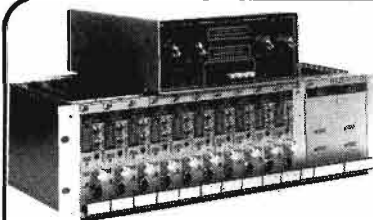
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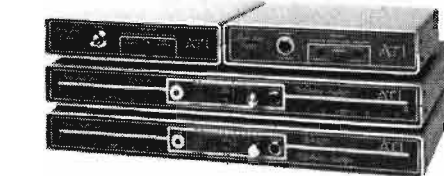
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Sales Contact: *Joanne Camarda, Manager*
Regional Sales Offices:

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5914 Maple
Houston, TX 77074 (713) 774-3314
Contact: *Bernie Giesler, Rep.*
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Laredo, TX 78040 (512) 723-6913
Contact: *Richard Reyes, Export Rep.*

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Amy Carter, Ass't. Sls. Mgr.

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Sales Contact: *O.J. Henderson, Nat'l. Sls. Mgr.*

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Denmark TLX: 37568 Lyrec DK
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3M - Mag A/V Products Division

3M Center - Bldg. 223-5N
St. Paul, MN 55144 (612) 733-7980
Sales Contact: *C. Devore, Sls / Service Analyst*

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Atlanta, GA 30360 (404) 447-7000
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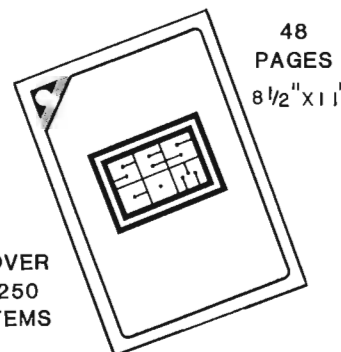
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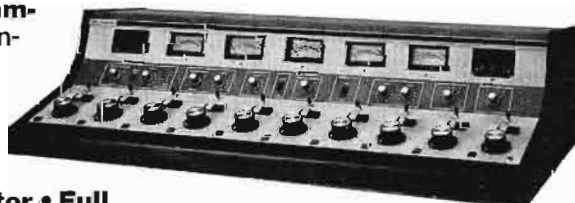
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301 North Colfax Street
Griffith, IN 46319 (219) 924-6136
Sales Contact: *Bruce McCullough, Sales Mgr.*

SMOKE SIGNAL BROADCASTING

31336 Via Colinas
Westlake Village, CA 91362 (213) 889-9340
Sales Contact: *Jim Alliday, Natl. Sis. Mgr.*

SOLID ELECTRONICS LABORATORIES

4-9 Fairfield Road
Havertown, PA 19083 (215) 446-4799
Sales Contact: *S.J. Hemphill, Owner*

SOLID STATE LOGIC LTD.

Churchfields Road
Stonesfield, Oxford OX7 2PS
England (44) 099 389 8282
Sales Contact: *Bill Aitken, Sales Mgr.*

SOLL INC.

401 E. 74th St.
New York, NY 10021 (212) 988-0290
Sales Contact: *Joe Soll, Pres.*

SONAR RADIO CORPORATION

3000 Stirling Road
Hollywood, FL 33021 (305) 981-8800
Sales Contact: *Bernard E. Klein, Pres.*

SONDOR EXPORT AG

Dachslernenstrasse II
CH-8702 Zollikon 01 65 80 90
Switzerland 11/81 — 01/391 80 90
Sales Contact: *Hans-Jurgen Schreier, Sales*

SONIC RESEARCH INC.

27 Sugar Hollow Rd.
Danbury, CT 06810 (203) 792-8822
Sales Contact: *Ronald E. Wilcox, Nat. Sales & Mktg. Mgr.*

SONO VIDEO INC.

2881 Le Corbusier
Chomedey, Laval
Quebec, Canada H7S 1Z4 (514) 335-0113

SONO-MAG CORPORATION

1833 W. Hovey Avenue
Normal, IL 61761 (309) 452-5313
Sales Contact: *Stephen S. Sampson, Exe. VP*

SONTEC ELECTRONICS

Audio Drive
Goldbond, VA 24094 (703) 626-7256
Sales Contact: *Burgess Macneal, Mktg. Mgr.*

SONY BROADCAST LTD.

City Wall House
Basing View, Basingstoke
Hampshire RG21 2LA United Kingdom

SONY BROADCAST PRODUCTS COMPANY

9 W. 57th Street
New York, NY 10019 (212) 371-5800

SORENSEN COMPANY

676 Island Pond Road
Manchester, NH 03103 (603) 668-4500
Sales Contact: *Roy Allman, Nat. Sis. Mgr.*

SOUND TECHNOLOGY INC.

1400 Dell Avenue
Campbell, CA 95008 (408) 378-6540
Sales Contact: *Sonny Funke, Nat'l. Sis. Mgr.*

SOUNDCRAFT ELECTRONICS LTD.

5-8 Great Sutton St.
London EC1V 0BX (01) 251-3631
Sales Contact: *P. Dudderidge, Mktg. Dir.*

SOUND DYNAMICS INC.

P.O. Box 32055
San Jose, CA 95152 (408) 926-3588
Sales Contact: *Ron Golick, Gen. Mgr.*

SOUNDScriber MAGNETIC RECORDING CO. INC.

85 Willow Street
New Haven, CT 06511 (203) 624-5179
Sales Contact: *Lawrence A. Acampora, G. Mgr.*

THE SOUND & LIGHT CO.

1169 Tower Rd.
Schaumburg, IL 60195 (312) 885-2341
Sales Contact: *Jim Hildebrandt, Pres.*

SOUTHWESTERN PROGRAMMING SERVICE

1014 South Toltec
Mesa, AZ 85204 (602) 892-2343
Sales Contact: *Jim Gaspar, Owner*

SPECTRA COMPUTER SYSTEMS

391 Chipeta Way

Salt Lake City, UT 84108 (801) 581-5478
Sales Contact: Steven Root, Pres.

SPECTRA SONICS

3750 Airport Road
Ogden, UT 84403 (801) 392-7531
Sales Contact: Mr. Gregory D. Dilley, Eng. Sls.

SPECTRUM INSTRUMENTS INC.

P.O. Box 97
Hartsdale, NY 10530 (914) 428-4975
Sales Contact: J. McClean, Sales Mgr.

SPENCER BROADCAST INC.

316 E. El Camino Drive
Phoenix, AZ 85020 (602) 242-2211
Sales Contact: Janene Spencer, Sls. Dir.

SPERRY MARINE SYSTEMS

630 Gaiennie St.
New Orleans, LA 70130 (504) 525-7127
Sales Contact: Doug Goff, Dist. Mgr.

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20201 A. Prairie
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Sales Contact: David Holmes, Sales Mgr.

SPINDLER & SAUPPE

13034 Satcoy Street
N. Hollywood, CA 91605 (213) 764-1800
Sales Contact: Sarah Calkins, Mktg. Coord.

SPIN PHYSICS INC.

3099 Science Park Rd.
San Diego, CA 92121 (714) 453-5410
Sales Contact: Wm. W. Heywood, VP, Sales

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3rd & Montgomery Avenue
North Wales, PA 19454 (215) 699-4871
Sales Contact: Jess Rodriguez, V.P. / Sls.

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921 No. Highland Ave.
Hollywood, CA 90038 (213) 464-7461
Sales Contact: Mike Custer, VP.

STANDARD COMMUNICATIONS CORP.

108 W. Victoria
Carson, CA 90009 (213) 532-5300
Sales Contact: Mark Thomas, Dir. of Mktg.

STANDARD ELECTRIC TIME CORP.

357 Cottage St.
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Sales Contact: Howard Weed, Sls. Mgr.

STANDARD TAPE LABORATORY INC.

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Sales Contact: Frank G. Lennert, Pres.

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Friesenberg Strasse 75
CH 8055 Zurich (01) 465-2111
Sales Contact: K. Haering, Exp. Mgr.

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200 Terminal Drive
Plainview, NY 11803 (516) 349-0200
Sales Contact: Pete Bidwell, Prof. Sls. Mgr.

STANTRON DIV. OF WYCO METAL PROD.

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North Hollywood, CA 91605 (213) 875-0800
Sales Contact: Guy A. Tessier, VP/Sales

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Orland Park, IL 60462 (312) 429-6200
Sales Contact: Dennis R. Toma, Pres.

STAREX INC.

655 Schuyler Ave.

P.O. Box 248

Kearny, NJ 07032 (201) 997-1555
Sales Contact: Stanley A. Asinof, Pres.

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Div. Control Data Corp.
600 West Putnam Avenue
Greenwich, CT 06830 (800) 243-5300
Sales Contact: J. Neil Smith, VP (203) 622-2400

STATION PROGRAM RESOURCES

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Sales Contact: Jack Hansen, Pres.

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9045 Eton Avenue, Suite A
Canoga Park, CA 91304 (213) 998-4033
Sales Contact: Ted Diamond, Sales Mgr.

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Jardillets 18
CH-2068 Hauterive (NE)
Switzerland (038) 33 42 33
Sales Contact: Georges Quellet, Propriet or

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P.O. Box 281
Laurel, MS 39440 (601) 425-5145
Sales Contact: Robert L. Stevens, Owner

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525 Mildred Ave.
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Sales Contact: Hal Lipman, Gen. Mgr.

STOREEL CORPORATION

2050-C Carroll Ave., Ste. 2,
P.O. Box 80523
Atlanta, GA 30341 (404) 458-3280
Sales Contact: Ruth E. Schaeffer, President

STRAIGHT WIRE AUDIO CORP.

2523 Willson Boulevard
Arlington, VA 22201 (703) 522-7780
Sales Contact: Bill Sacks, Chief Engineer

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5432 W. 102 St.
Los Angeles, CA 90045 (213) 776-4600
Sales Contact: Bob Schiller, VP Mktg.

STANDARD TELEPHON AND RADIO AG

Friesenbergstrasse 75
CH 8055 Zurich, Switzerland (01) 214 2111
Sales Contact: K. Haering, Exp. Mgr.

STUDER INTERNATIONAL AG

Professional Audio Equipment
CH-8105 Regensdorf
Althardstrasse 150 01 840 29 60
Switzerland Telex 58489 stui ch
Sales Contact: Mister E. Sporri, Man. Dir.

STUDER REVOK AMERICA INC.

1425 Elm Hill Pike
Nashville, TN 37210 (615) 254-5651
Sales Contact: Bruno Hochstrasser, Pres.

Regional Sales Offices:

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155 Avenue of the America
New York, NY 10013 (212) 255-4462
Sales Contact: Fred Layn, Regional Manager
Thomas Mintner, Reg. Manager

STUDER REVOK AMERICA

14046 Burbank Blvd.
Van Nuys, CA 91401 (213) 780-4234
Sales Contact: Bill Van Doren, Reg. Manager
STUDER REVOK AMERICA
111 South Drive
Barrington, IL 60010 (312) 381-4559
Sales Contact: Brian Tucker, Reg. Manager

JOHN M. SULLIVAN ASSOCIATES INC.

341 Marrett Road
Lexington, MA 02173 (617) 861-7472
861-0238
Sales Contact: John M. Sullivan, Pres.

SUPEREX ELECTRONICS

151 Ludlow St.
Yonkers, NY 10705 (914) 965-6906
Sales Contact: Michael Solomon, Mktg. Dir.

THE SUPERIOR ELECTRIC COMPANY

383 Middle St.
Bristol, CT 06010 (203) 582-9561
Sales Contact: J. McMahon, Sales Eng.

SURCOM ASSOCIATES INC.

305 Wisconsin Ave.
Oceanside, CA 92054 (714) 722-6162
Sales Contact: August J. Link, Pres.

SWAGER TOWER CORPORATION

P.O. Box 656
Fremont, IN 46737 (219) 495-5165
Sales Contact: Dan J. Swager, VP

RICHARD SWETTENHAM ASSOC.

38 Mount Pleasant
London Wc1 (01) 837-5873
Sales Contact: R. Swettenham/D. Comper

SWINTEK ENTERPRISES INC.

1180 Aster Ave. -J
Sunnyvale, CA 94086 (408) 249-5594
Sales Contact: Billy Williams, Sales Mgr.

SWITCHCRAFT INC.

5555 N. Elston Ave.
Chicago, IL 60630 (312) 792-2700
Sales Contact: Fred Fitzpatrick, Prod. Mgr.

SYNSAT INTERNATIONAL INC.

4104 Linden Hills Blvd.
Minneapolis, MN 55410 (612) 925-2633
Sales Contact: John Uldrich, Pres.

SYRACUSE SCENERY & STAGE

LIGHTING CO., INC.
1423 North Salina St.
Syracuse, NY 13208 (315) 474-2474
Sales Contact: Christine Logan, V.P.

SYSTEM ASSOCIATES

5801 Uplander Way
Culver City, CA 90230 (213) 641-2042
Sales Contact: Walter A. Shubin, V.P.
Billy H. Seidel

SYSTEMS COMMUNICATIONS CABLE

P.O. Box 21007
Phoenix, AZ 85036 (602) 268-8744
Sales Contact: Earl Langenberg, Sls. Eng.

SYSTRON DONNER

2700 Systron Dr.
Concord, CA 94518 (415) 676-5000

SYTRON INC.

1340 Bodwell
Manchester, NH 03103 (603) 627-3655
Sales Contact: Erl Sexton, Pres.

T

TBC PTY. LTD.

6 Chilvers Road, Thornleigh. N.S.W. 2120
Australia (02) 848-8777
Sales Contact: Bert Heys, Mktg. Mgr.

TDF

21 / 27 rue Barbes
Montrouge 92120, France

TDK ELECTRONICS CORP.

12 Harbor Port Drive
Port Washington, NY 11050 (516) 625-0100
Sales Contact: Ed Pessara, Video Tape Mgr.

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WHERE TO BUY IT

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3090 Oakmead Village Drive
Santa Clara, CA 95051 (408) 727-7272
Sales Contact: Joe Wu, Pres.

Regional Sales Offices:

1355 Jeanette Way
Southampton, PA 18966 (215) 322-8911
Contact: Tom Creighton

MARCOM
P.O. Box 66507
Scotts Valley, CA 95066 (408) 438-4273
Contact: Martin Jackson, Ted Tripp

MARCOM
216 Westlake Ave. North
Seattle, WA 98109 (206) 621-9633
Contact: Bill Wolfenbarger

MARCOM
21243 Ventura Blvd.
Suite 145
Woodland Hills, CA 91364 (213) 703-0381
Contact: Doug Howland

DIDIER/DENVER
NM, KS, NE (Radio and TV)
MT, WY, ID, UT, CO (TV Only)
P.O. Box 1599

Evergreen, CO 80439 (303) 674-6000
Contact: Herb Didier, Steve Didier

HALL ELECTRONICS
MT, WY, ID, UT, CO
(Radio Only)
P.O. Box 5031
Boise, ID 83705 (208) 376-1663

Contact: Larry Hall
PARCOM
4260 Raintree Drive
Southlake, TX 76092 (817) 481-7221

Contact: DArryl Parker
EMMONS ASSOCIATES
1121 Riverwood Drive
Burnsville, MN 55337 (612) 890-8920

Contact: Keith Emmons
DYER ELECTRONICS
31185 Ten Mile Rd.
Farmington Hills, MI 48024 (313) 478-2157

Contact: Mike Dyer, Leo Rymarz
RALPH L. HUCABY
1331 Otter Creek Rd.
Nashville, TN 37215 (615) 373-0231

EME I, INC.
112 Buena Vista
High Point, NC 27260 (919) 869-3335
Contact: George Gold

EME IV
107 Richneck Dr.
Williamsburg, VA 23185 (804) 253-0171
Contact: Ken Ward

ROSCOM, INC.
P.O. Box 1208
Roswell (Atlanta), GA 30077 (404) 992-2700
Contact: Bob Stewart, Ken Wilson

BEATTIE & ASSOCIATES
3317 Barrow Hill Trail
Tallahassee, FL 32308 (904) 893-1382
Contact: Bob Beattie

HOLZBERG ASSOCIATES
P.O. Box 322
Totowa, NJ 07512 (201) 256-0455
Contact: Herb Holzberg

WILTRONIX, INC.
16850 Oakmont Ave.
P.O. Box 364
Washington Grove, MD 20880-0364 (301) 258-7676
Contact: Dwight L. Wilcox, Dave Wilcox

MSC ELECTRONICS LTD.
254 Wildcat Rd.
Downsview, Ontario
Canada M3J 2N5 (416) 661-4180
Contact: David La Frenais, Anthony Sharpe

ELECTREX COMPANY
(Central/South Amer., P.R.)

18680 N.E. 2nd Ave.
Miami, FL 33179 (305) 651-5752
Contact: Ben Ostrovsky

GUARANTEED RADIO SUPPLY
(Mexico)
1314 Iturbide St.
Laredo, TX 78040 (512) 723-3331
Contact: Richard Reyes

TL SYSTEMS

1101 E. Chestnut St., Suite C
Santa Ana, CA 92701 (714) 547-1981
Sales Contact: Ted Laffleur, Pres.

TM SYSTEMS INC.

25 Allen St.
Bridgeport, CT 06604 (203) 366-4571
Sales Contact: I. Shulman, Mgr.

TOA ELECTRONICS INC.

480 Carlton Court
S. San Francisco, CA 94080 (415) 588-2538
Sales Contact: Terry Green, Mktg. Mgr.

TTE INC.

2214 So. Barry Ave.
Los Angeles, CA 90064 (213) 478-8224
Sales Contact: S. Sodaro, Mgr.

TVNS (Television News Support)

World Trade Center
Suite 250R
San Francisco, CA 94111 (415) 982-3073
Sales Contact: J. Cheney, Pres.

TABER MFG. & ENG. CO.

2081 Edison Ave.
San Leandro, CA 94577 (415) 635-3831
Sales Contact: Bob Kearns, Gen. Mgr.

TANGENT SYSTEMS INC.

2005 E. University Dr.
Phoenix, AZ 85034 (602) 267-0653
Sales Contact: Thomas M. Scott, Sls. Mgr.

TAPCO, Div. of Electro-Voice

3810 148th Avenue NE
Redmond, WA 98052 (206) 883-3510
Sales Contact: Ferdinand Boyce, Mkt. Mgr.

TAPE

2065 Peachtree Industrial Ct.
Suite 215
Chamblee, GA 30341 (404) 458-8273

TAPE-ATHON CORP./CAVOX STEREO PROD.

502 S. Isis Ave.
Inglewood, CA 90301 (213) 776-6933
Sales Contact: Blair Hunnicutt, Sls. Mgr.

TAPECASTER TCM INC.

Box 662
Rockville, MD 20851 (301) 881-8888
(800) 638-0977
Sales Contact: Paul L. Shore, Pres.

TAPESWITCH CORPORATION

100 Schmitt Blvd.
Farmingdale, NY 11735 (516) 694-6312
Sales Contact: K. C. Torrens, Sls. Mgr.

TAYBURN ELECTRONICS

6106 Avenida Encinas
Carlsbad, CA 92008 (714) 438-5444
Sales Contact: Greg Rowley, Mktg. Mgr.

TAYLOR INSTRUMENT

(SYBRON CORPORATION)
Arden, NC 28704 (704) 684-8111
Sales Contact: Sales Department

TEAC CORP. OF AMERICA

TASCAM Production Products Division
7733 Telegraph Rd.
Montebello, CA 90640 (213) 726-0303
Sales Contact: Bill Mohrhoff, Natl. Sls. Mgr.
David G. Oren, Marketing Manager

TECH ELECTRONICS INC.

6000 Peachtree Rd., N.E.
Atlanta, GA 30341 (404) 455-7626
Sales Contact: Roby Price, Gen. Mgr.

TECH LABORATORIES INC.

Bergen & Edsall Blvds.
Palisades Park, NJ 07650 (201) 944-2221
Sales Contact: A. Konrad, Pres.

TECHNOLOGY FOR COMMUNICATIONS INTERNATIONAL

1625 Stierlin Road
Mountain View, CA 94043 (415) 961-9180
Sales Contact: Lawrence J. Blum, VP Mktg.

TECHNOLOGY SERVICE CORPORATION

2950 31st St.
Santa Monica, CA 90405 (213) 450-9755
Sales Contact: Ray Durand, Manager

TECHNICOBEL

8 rue de la Croix - Martre
BP 26 91122
Palaiseau, France

TECH THEATRE

4724 Main Street
Lisle, IL 60532 (312) 971-0855
Sales Contact: Gary Timm, V.P.

TEKTRONIX INC.

P.O. Box 500
Beaverton, OR 97077 (503) 644-0161

TELCOM RESEARCH

1163 King Road
Burlington, Ontario
Canada (416) 681-2450
Sales Contact: Tom Banting

TELECOMMUNICATIONS SYSTEMS

910 17th St. N.W., Suite 319
Washington, DC 20006 (202) 223-4449
Sales Contact: R.G. Gould, P.E., Pres.

TELECOMMUNICATIONS TECHNOLOGY

555 Del Ray Avenue
Sunnyvale, CA 94086 (408) 735-8080
Sales Contact: Glenn Patterson, V.P. / Mktg.

TELECONCEPTS IN COMMUNICATIONS INC.

145 E. 49th St.
New York, NY 10017 (212) 355-7113
Sales Contact: James W. Johnson, Pres.

TELE-CINE CORPORATION

400 Crossways Park Drive
Woodbury, NY 11797 (516) 496-8500
Sales Contact: Robert Jones, Mgr. of Sales

TELECTRO SYSTEMS CORP.

96-18 43rd Avenue
Corona, NY 11368
Sales Contact: Harry Sussman, Pres.

TELEDYNE ACOUSTIC RESEARCH (AR)

10 American Drive
Norwood, MA 02062 (617) 769-4200
Sales Contact: Rick Sands, Dir. of Sales

TELEDYNE BIG BEAM

290 East Prairie St.
P.O. Box 518
Crystal Lake, IL 60014 (815) 459-6100
Sales Contact: C.J. Ortmeyer, Exec. VP

TELEDYNE ENERGY SYSTEMS

110 W. Timonium Road
Timonium, MD 21093, U.S.A. (301) 252-8220
Sales Contact: Paul Bessert, Prod. Mktg. Mgr.

TELE-MEASUREMENTS INC.

145 Main Avenue
Clifton, NJ 07014 (201) 473-8822

WHERE TO FIND IT

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WHO MAKES IT

PRODUCT DIRECTORY, Pages 46-113

WHERE TO BUY IT

MANUFACTURERS, Pages 114-162

DEALERS/DISTRIBUTORS, Pages 168-189

Sales Contact: W.E. Endres, Pres.
D. Cook, VP/Sales

TELECTRO SYSTEMS CORP.

96-18 43rd Avenue
Corona, NY 11368 (212) 651-8900
Sales Contact: Harry Sussman, Pres.

TELEMET, DIV. OF GEOTEL INC.

185 Dixon Avenue
Amityville, NY 11701 (516) 842-2300
Sales Contact: Joseph L. Cali, Jr.,
Customer Service Mgr.

Regional Sales Offices:

TELEMET, DIV. OF GEOTEL, INC.

Easthill RFD #3
Brewster, NY 10509 (914) 279-3231
Contact: Robert G. Griffiths, VP/Sales

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125 Mineola Avenue
Roslyn Heights, NY 11577 (516) 484-3822
Sales Contact: Gerald Lanier, President

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20 Insley Street
Demarest, NJ 07627 (201) 567-2220
Sales Contact: Bob Swanson, Gen. Mgr.

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3408 Hillview Avenue
Palo Alto, CA 94304 (415) 856-8255
Sales Contact: Alan Yatagai

TELESOURCE COMMUNICATION SERVICES

730 East Highland
Phoenix, AZ 85014 (602) 265-1232
Sales Contact: Michael D. Rich, Mgr.

TELEVISION ASSOCIATES INC.

2410 Charleston Road
Mountain View, CA 94043 (415) 967-6040
Sales Contact: Ann Callahan, Prod. Sales
Dave Taylor, Equipment Sales

TELEVISION ENGINEERING CORPORATION

580 Goddard Ave.
Chesterfield, MO 63017 (314) 532-4700
Sales Contact: Sharon Sokup, Sls. Admin.

TELEVISION GRAPHICS, CO.

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Glen Rock, NJ 07452 (201) 444-2911
Sales Contact: Charlie or Chuck Diehl, Ownr.

TELEVISION EQUIPMENT ASSOCIATES

Box 260
South Salem, NY 10590 (914) 763-8893
Sales Contact: Bill Pegler, President

TELEVISION INTERNATIONAL OPERATIONS LTD.

9-11 Windmill Street
London W1P 1HF, UK (01) 637-2477
Sales Contact: Joe Vick, Sales Dir.

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9016 Aviation Blvd.
Inglewood, CA 90301 (213) 776-3276

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Sales Contact: R.J. Burks, Producer

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5970 West 60th Ave.
Arvada, CO 80003 (303) 423-1652
Sales Contact: B.W. St. Clair, President

TELEX COMMUNICATIONS INC.

9600 Aldrich Ave. South
Minneapolis, MN 55420 USA (612) 884-4051
884-7517
Sales Contact: Don Mereen, Dir. Mktg.,

TELMAR MEDIA SYSTEMS INC.

90 Park Avenue
New York, NY 10016 (212) 949-4640
Sales Contact: Harry Appel, Sr. VP

TENNAPLEX SYSTEMS LTD.

34 Bentley Ave.
Ottawa, Ontario (613) 226-5870
Canada K2E 6T8 Telex: 053-4962
Sales Contact: Manfred Muenzel, Sls. Mgr.

TENTEL CORP.

1506 Dell Ave.
Campbell, CA 95008 (408) 379-1881
Sales Contact: Sales Engineering

TEPCO CORP.

P.O. Box 680
Rapid City, SD 57709 (605) 343-7200
Sales Contact: Jerry Johnson, Sales Mgr.

TERRACOM—LORAL CORP.

9020 Balboa Ave.
San Diego, CA 92123 (714) 278-4100
Sales Contact: Mike Mulcay, V.P. Mktg.

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5529 Redfield Street
Dallas, TX 75235 (214) 631-2490
Sales Contact: Secretary

TEXAS INSTRUMENTS

P.O. Box 2250 MS 84
Dallas, Texas (214) 995-6611

TEXSCAN CORPORATION

2446 N. Shadeland Ave.
Indianapolis, IN 46219 (317) 357-8781
Sales Contact: Alan Whitlock, Sales Mgr.

TEXSCAN/MSI CORPORATION

3855 South 500 West, Suite "S"
Salt Lake City, UT 84115 (801) 262-8475
Sales Contact: Dennis Gourley, Mktg. Mgr.

THE TEXWIPE COMPANY

650 E. Crescent
P.O. 575
Upper Saddle River, NJ 07458 (201) 327-5577

THEATRE SERVICE & SUPPLY CORP.

1792 Union Ave.
Baltimore, MD 21211 (301) 467-1225
Sales Contact: Richard Antisdel, Pres.

THEATER TECHNIQUES INC.

60 Connolly Pkwy.
Hamden, CT 06514 (203) 281-6111
Sales Contact: F. Lindauer, Pres.

THERMODYNE INTERNATIONAL LTD.

10850 S. Alameda
Long Beach, CA 90810 (213) 603-1976
Sales Contact: Walter Wolf, Pres.

THOMSON-CSF, DIV. TUBES ELECTRONIQUES

38 Rue Vauthier
92102 Boulogne Billancourt Cedex (1) 604.81.75
France
Sales Contact: Mrs. J. Bidault, Pub. Rel.

THOMSON-CSF, ELECTRON TUBE DIVISION

301 Route Seventeen North
Rutherford, NJ 07071 (201) 438-2300
Sales Contact: John Mulroe, Prod. Sls. Mgr.

THOMSON-CSF, LABORATOIRE GENERAL DES TELECOMMUNICATIONS

51 Boulevard de la Republique
78400 Charou, France

THOMSON-CSF DIVISION, RADIODIFFUSION TELEVISION

94, Rue du Fosse Blanc 92231
Gennevilliers, France (1) 790.65.49
Sales Contact: M. Jean Wolf, Rel. Publiques

THOMSON-CSF BROADCAST INC.

37 Brownhouse Road
Stamford, CT 06902 (203) 327-7700
Sales Contact: Richard T. Sanford, Nat. S. Mgr.

THOMSON CSF EQUIPMENT & SYSTEMS LTD.

Hunting House, Central Way
Feltham, Middlesex TW14 OVD 01 751 6241
Sales Contact: Steve Rolls, Sls. Eng.

THOMSON-CSF

23 rue de Courcelles
75008 PARIS (1) 563 12.12
Sales Contact: Mrs. C. Durussel

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Angel Road Works
402 Angel Road
London N18 3AJ, UK 01-807-9011

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90 Oser Ave.
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Sales Contact: Tom Grosso, Sales

TIMES FIBER COMMUNICATIONS INC.

358 Hall Avenue
P.O. Box 384
Wallingford, CT 06492 (203) 265-8500

TOPAZ INC.

3855 Ruffin Road
San Diego, CA 92123 (714) 571-5622
Sales Contact: Mr. Rob Britton, Dir. of Sls.

TORSEEM

Box 10 N 1344
Haslum, Norway (02) 53 39 75

TORPEY CONTROLS & ENGINEERING LTD.

2220 Midland Ave., Unit 98
Scarborough, Ontario
Canada M1P 3E6 (416) 298-7788
Sales Contact: R. Torpey, Pres.

TOSHIBA AMERICA INC.

292 Gibraltar Dr.
Sunnyvale, CA 94086 (408) 734-9172

TOWNSEND ASSOCIATES INC.

Mainline Drive, P.O. Box 1122
Westfield, MA 01086 (413) 562-5055
Sales Contact: Howard McClure, VP/Mktg.

TRAMEC ELECTRONICA S.R.L.

San Lorenzo 2646
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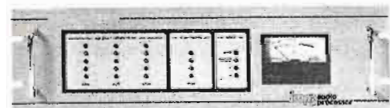
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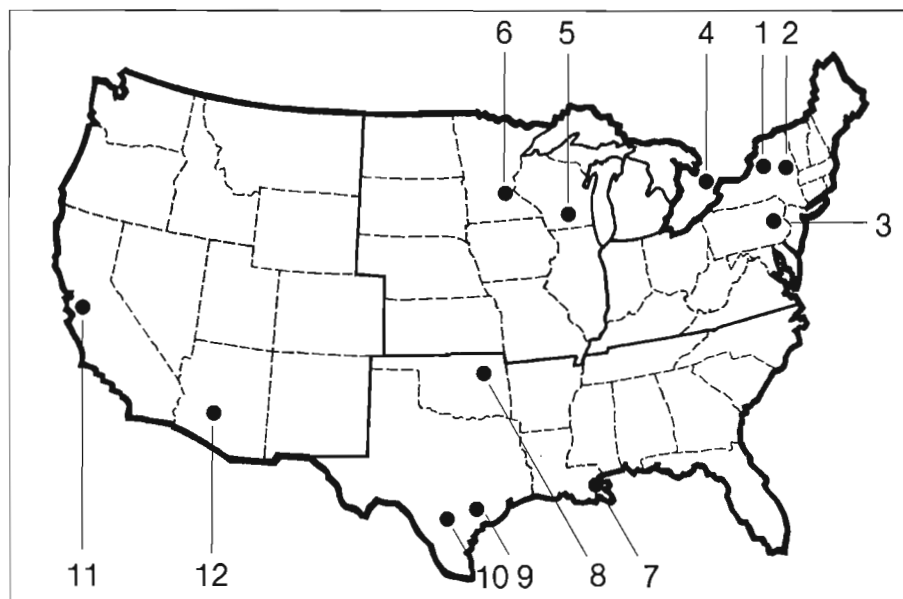
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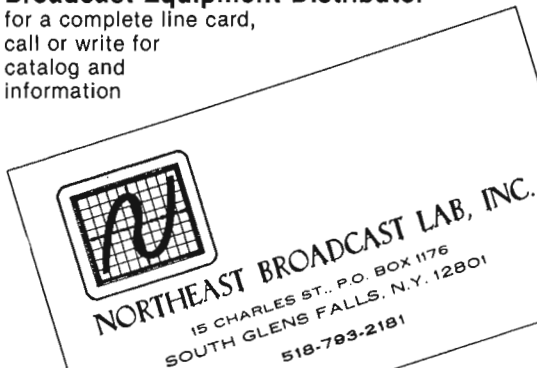
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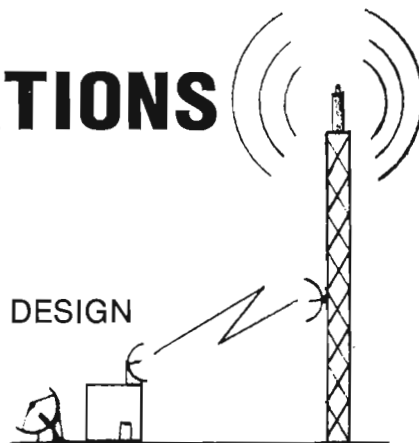
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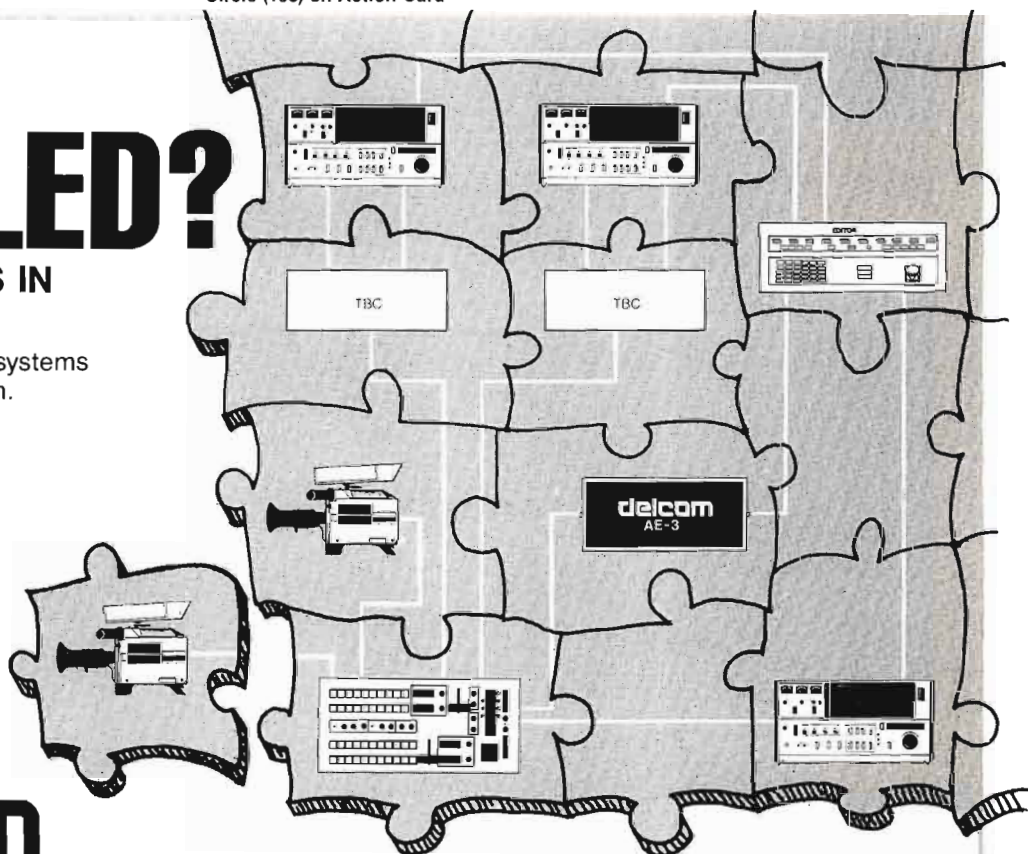
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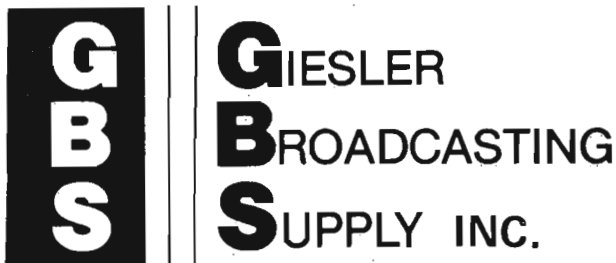
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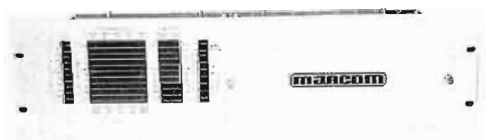
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Continued on page 170



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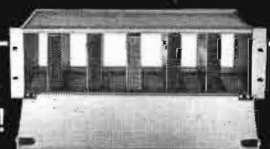
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VP0010	0-10.5	.5	Toggle	.15	.2	3	4 3/8 x 2 3/8 x 1 1/16
VP0127	0-127	1.0	Toggle	.15	.3	14	4 3/8 x 2 3/8 x 1 1/16
VP0255	0-255	1.0	Toggle	.15	.3	16	4 3/8 x 2 3/8 x 1 1/16
VP0317	0-317.5	2.5	Toggle	.15	.3	20	4 3/8 x 2 3/8 x 1 1/16
VP0635	0-635	5.0	Toggle	.50	.4	25	4 1/16 x 3 1/16 x 2 1/16
VP1100	0-1100	10.0	Rotary	1.25	.4	30	4 1/16 x 3 1/16 x 2 1/16
VP1270	0-1270	10.0	Toggle	*3.00	.4	30	4 1/16 x 3 1/16 x 2 1/16
VP2075	0-2075	25.0	Toggle	*3.00	.5	40	7 3/8 x 4 1/16 x 2 3/16
VS0315	0-315	5.0	Strap	.25	.4	28	4 x 2 x 1 1/4
VS0635	0-635	5.0	Strap	.60	.5	33	5 x 2 x 1 1/4
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VRM0637	0-637.5	2.5	Slide Switch	*1.00	.4	28	1 1/8 x 4 1/8 x 6
VRM1275	0-1275	5.0	Slide Switch	*3.00	.4	33	1 1/8 x 4 1/8 x 9
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VRS0317	0-317.5	2.5	Strap	.40	.5	26	1 1/8 x 4 1/8 x 4
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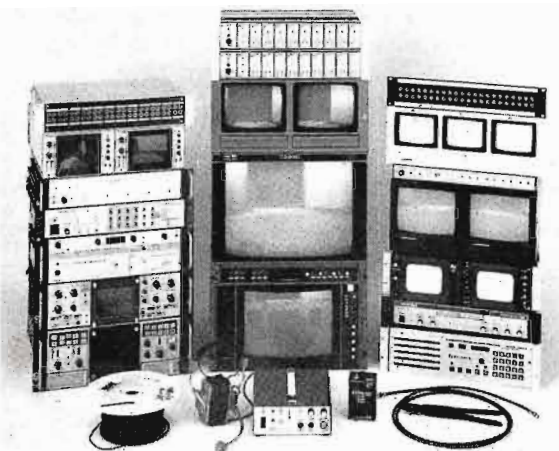
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LINE: A/V consulting services, recording, designing & engineering, audio-video systems.

P.O. Box 3831
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Contact: Kenneth R. Meades,
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Contact: Bryant Ellis, Manager

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Contact: Allen W. Osborne, Pres.
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Continued on page 172



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 (213) 393-0014

Contact: Rachel Smedley,
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4721 Laurel Canyon Blvd.
 #209, N. Hollywood, CA 91607
 (213) 980-5717

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 President

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 (213) 598-7007

Contact: G. E. Riggins, Owner

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 (213) 466-5474

Contact: Gil Reyes, C.E.O.

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Contact: L.M. Bleakley, SIs. Mgr.

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Contact: Ray Salobs

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Contact: Paul J. Burns, Dist.

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Contact: Bob Snader, President

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Contact: Ron Webb,
 Broadcast Sales Mgr.

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 (213) 991-3400

Contact: Howard Parker, Owner

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 Sales Manager

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Videotape Reps

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LINE: Trident Audio Developments, Ltd.
ADC Products (audio & video connectors).

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TLX TWX: 910-497-2091
Contact: Lock Bleackley, Sls. Mgr.

SURCOM ASSOCIATES

LINE: Transmitting capacitors
305 Wisconsin Ave.
Oceanside, California 92054
(714) 722-6162
Contact: A. J. Link, Mgr./Owner
SEE AD ON PAGE 147

SYSTEM ASSOCIATES

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Culver City, CA 90230
(213) 641-2042
Contact: Walter A. Shubin, VP
Billy H. Seidel, President

TELAUDIO CENTRE

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Contact: Claudia Kelly

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Dave Taylor, Equip. Sls.

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LINE: Video/audio professional systems, plus related accessories & components.

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CALIF. (800) 232-2141
Contact: Chuck Huber, Sls. Adm.

VIDEO LOGIC SERVICES INT'L

LINE: TV equipment, radio (commercial and private).

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(213) 870-1231
Contact: C. M. Brainard, V.P.

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(213) 985-1666
Contact: Dick Millais, Dir. of Mktg.

VIDEOTAPE PRODUCTS, INC.

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(213) 394-0282
Contact: Dick Marzec, Pres.

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Contact: John Carey, Sls. Mgr.

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(303) 442-3231
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1602 South Parker Road
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(303) 751-3252
Contact: R. T. Seery, Sales Eng.
Continued on page 174

WHERE TO FIND IT

GENERAL INDEX,
Pages 38-45

WHO MAKES IT

PRODUCT DIRECTORY,
Pages 46-113

CUSTOM & STANDARD BROADCAST EQUIPMENT

- Master Control Switchers
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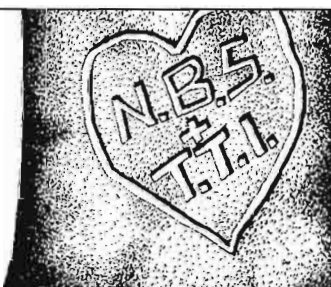
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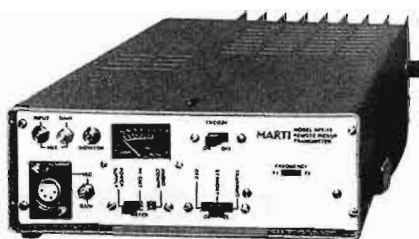


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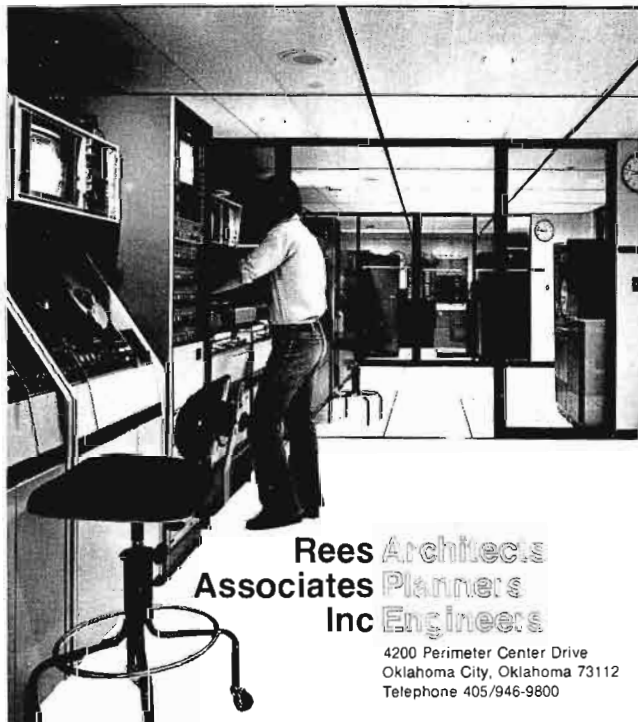
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Contact: Sue Thompson,
VP/Marketing

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(303) 455-1122

Contact: David Marr, Video Mgr.

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(203) 322-9322

Contact: Alan Rich, VP

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(305) 564-4422
Contact: K. Cameron, VP, Eng.

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LINE: McMartin, Teac Tascam, Lexicon, Telex, MacKenzie, Soundoller, Eastern Acoustic Works.

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Suite F
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Contact: W.L. Bencsik, Pres.

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ASSOCIATES**

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300 S. 6th St.
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(305) 464-5465
Contact: Ron Crider, Pres.

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(305) 945-0635 MIA.
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Contact: Ben Ostrovsky, Pres.

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(305) 261-4755
Contact: Owner

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1031 SW 74 Court
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(305) 261-4755
Contact: P.R. Fermaintt, Pres.

FLORIDA VIDEO SYSTEMS

LINE: Sony, Sony Broadcast, Microtime, Sharp, Quanta, Videotek, Crosspoint, Convergence.

Continued on page 176

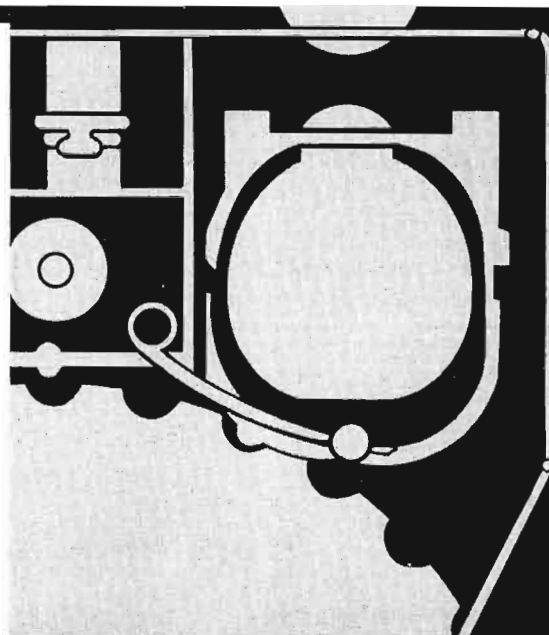
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highly unsound.

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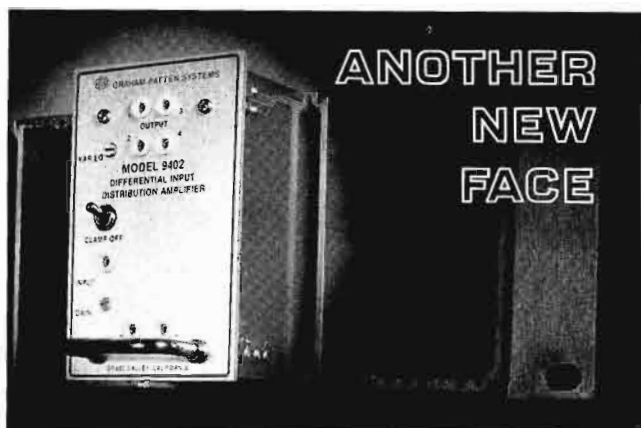
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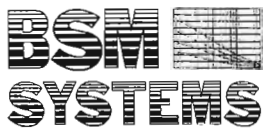
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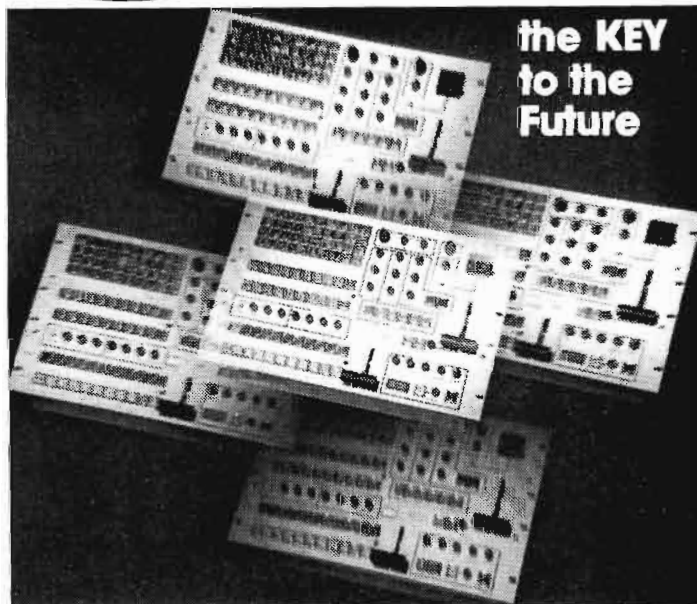
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Continued on page 178

isi 200 SERIES PRODUCTION SWITCHERS



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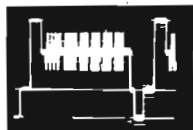
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1200 Greenleaf Avenue
Elk Grove Village, IL 60007
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Contact: J. Swiderski III,
Vice President
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4724 Main St.
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702 E. Washington
Washington, IA 52353
(319) 653-2123

Contact: Wm. C. Sitler, Pres.

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Contact: Jos. Ridge, Sls. Mgr.

Continued on page 180

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(301) 484-2244

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Contact: Bob Dawson, Div. Mgr.

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(301) 869-4477

Contact: Dr. Edw. Shafer, Pres.

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North Wilbraham, MA 01095
(413) 596-3854

Contact: Stephen R. Welch, V.P.

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55 Chapel Street
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President

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(517) 332-3579
Contact: William H. Cruse, Pres.

VICTOR DUNCAN, INC.

32380 Howard
Madison Heights, MI 48071
(313) 589-1900

SEE AD ON PAGE 172

H. M. DYER ELECTRONICS, INC.

LINE: Video and audio distribution, amplification, processing, etc. Video switching, video delays, studio and video routing, RF monitoring, transmitter controls, digital effects.

31185 Ten Mile Rd.
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Contact: Mike Dyer, Pres.
SEE AD ON PAGE 199

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LINE: Rainbo, Teatronics, Altman, GE, Lee filters, PyroTech, Genie towers, Atlas Stands.

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(313) 482-6565

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Sales Manager

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(612) 941-0556

Contact: Wayne Mayer,
Director of Video
SEE AD ON PAGE 165

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R.F. Division

LINE: Scientific Atlanta, Emcee, Bogner, Microwave Associates, Cablewave, Andrew, Anlter Mark, Allied Tower.

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President

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1 Branca Road
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SEE AD ON PAGE 65

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(201) 646-0011

Contact: Jim Tate, Mgr.

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Technical Services Rt. 38
Cherry Hill, NJ 08358
(609) 338-5924

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(201) 473-8822

Contact: W.E. Endres, Pres.
D. Cook, VP Sales

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Exec. Prod./Dir.

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Contact: S. Goldstein, Sls. Mgr.

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213 Pueblo Del Sur
P.O. Box 1697
Taos, NM 87571
(505) 758-8686

Contact: C. Cunningham, Pres.

SEE AD ON PAGE 191

NEW YORK

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LINE: Videomedia Z-8, Hamsepic, EMS, Sony, JVC, Quanta.

555 West 57th St.
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(212) 265-1760

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Sales Manager

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Continued on page 184

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Contact: Ted Klarsfeld, Gen. Mgr.

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(516) 883-4818

Contact: David Bain, President

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Contact: Michael Sheppard, Pres.

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LINE: Mikes, amps, recorders.

5-05 Burns Ave.

Hicksville, New York 11801
(516) 935-8000

Contact: Norm Wieland, V.P.

THE CAMERA MART, INC.

LINE: Ikegami, Panasonic, Sharp, Microtime, Videotek, JVC, Ronford, Listec, Peter Lisand, O'Connor, Sony, Sigma, For-A, RTS, Clear Com.

456 West 55th Street
New York, NY 10019
(212) 757-6977

Contact: Shelly Brown, Gen. Mgr.
SEE AD ON PAGES 28-29

CECO COMMUNICATIONS, INC.

LINE: Transmitting tubes, receiving tubes, camera tubes, CRT tubes, picture tubes, monitor tubes, serial conductors.

2115 Ave. X
Brooklyn, NY 11239
(212) 646-6300
(800) 221-0860

Contact: Tony Ianna, Brdcast. Mgr.
SEE AD ON PAGE 81

CITYWIDE SALES

LINE: Sennheiser, Audio Technica, Ortofon, trade only.

1689 - 46th St.
Brooklyn, NY 11204
(212) 435-5100

Contact: Morty Fogel, Mkt. Mgr.

DALIS INDUSTRIAL ELECTRONICS

LINE: Belden wire & cable, Potter & Brumfield relays, Switchcraft connectors, Premier metal, Bud metal, Amphenol connectors, Dialight, etc.

35-35 24th Street
Long Island City, NY 11106
(212) 361-1100

Contact: Daniel Oberman, G.M.

BERNARD DARMSTEDTER ASSOC., INC.

LINE: Microphone and sound reinforcement

41 R. Oswego St.
Baldwinsville, NY 13027
(315) 638-1261

Contact: Bernard Darmstedter, Pres.

DOLPHIN PRODUCTIONS, INC.

140 East 80th Street
New York, NY 10021
(212) 628-5930

Contact: CeCe Lazarescu

D'SAN CORPORATION

25-30 163 St.
Flushing, NY 11358
(212) 746-8857

Contact: O. Swarth, Pres.

ERCONA CORPORATION

LINE: Fuses, fuseholders, plugs & connectors, headphones, microphones, lenses.

2492 Merrick Road
Bellmore, New York 11710
(516) 781-2770

Contact: M. Kandell, Sales Mgr.

F&B/CECO, INC.

315 West 43rd St.
New York, NY 10036
(212) 974-6000

Contact: Walter Druker, VP

RF GAIN, LTD.

LINE: Elmac, RCA, Machlett, Amperex, National Electron Tubes, CTC, Motorola, Philips, Acrlan, Amperex, Thomson-CSF, RF power transistor.

100 Merrick Rd.

Rockville Centre, NY 11570
(800) 645-2322

NY State: (516) 536-8868

GOTHAM AUDIO CORP.

LINE: Neumann, EMT, Telefunken, Fabec/TTM K&H.

741 Washington St.
New York, NY 10014
(212) 741-7411

Contact: Russ Hamm, VP

HAL - STAN ASSOCIATES

LINE: Police & fire flashlights.

160 New York Ave.
N. Babylon, NY 11703
(516) 587-9384

Contact: S. C. Rothschild, Partner

LAWRENCE K. HANER ASSOC., INC.

LINE: Power supplies, cable assemblies, switches, attenuators, filters, transformers, relays & triac devices.

900 Walt Whitman Rd.
Melville, NY 11747
(516) 423-2444

Contact: Larry Haner, Pres.

KARL HEITZ, INC.

LINE: Photographic equipment (still, cine, video).

979 Third Ave.
New York, NY 10022
(212) 421-5220

Contact: Christa Salmon,
Adv. Manager

J B VIDEO SALES

LINE: TV cameras, film chains, production switchers, time lapse VTR.

Box 77
Amawalk, NY 10501
(914) 245-1955

Contact: Joe Bottali, Pres.

LCA SALES CO.

LINE: Closed-circuit TV systems, master antenna systems, cable TV, commercial sound products, professional audio products.

76 Main St.
Tuckahoe, NY 10707
(914) 961-4700

Contact: Joel H. Schwartz,
Partner

LEVIT ELECTRONICS, INC.

LINE: Electron tubes & semi-conductors.

200 Park Avenue South
New York, NY 10003
(212) 777-5517

Contact: Michel Levit, Exec. VP

LEWIS & DUNNIGAN CO., INC.

LINE: Steel towers, coax cable, microwave shortrange, 2-way radio, headphones, microphones, antennas, cabinets.

104 Jamesville Road
Syracuse, NY 13214
(315) 446-5522

Contact: Dick Dunnigan, Pres.

LISTEC TV EQUIPMENT

LINE: W. Vinten Ltd. camera mounting equipment, Digivision monitor prompter, Electrohome video monitors.

39 Cain Drive
Plainville, NY 11803
(516) 694-8963

Contact: Joanne Camarda,
Manager

MPCS VIDEO, INC.

LINE: Sony, JVC, Panasonic, Ikegami, RCA, Quasar, Magnavox, 3M, TDK, Fuji.

514 W. 57th St.
New York City, NY 10019
(212) 586-3690

Contact: Paul Wilson, V.P.-Sales

MARTIN AUDIO - VIDEO CORP.

LINE: More than 300 professional audio & video lines.

423 W. 55th St.
New York, NY 10019
(212) 541-5900

Contact: Mike Bogen

MICRON AUDIO PRODUCTS

LINE: Micron wireless microphone systems, Diversity receiving systems, VHF antenna systems, Tram lavallier microphone systems.

210 Westlake Drive
Valhalla, NY 10595
(914) 761-6520

Contact: Paul Tepper, Pres.
SEE AD ON PAGE 163

MICROPHONICS

LINE: Sennheiser microphones, headphones & accessories. Importer-exporter of tubes, cable, phono cartridges, stylus. Audio-Technica cartridges stylus, Omtofon cartridges & stylus, electronic tubes.

P.O. Box 37
Brooklyn, NY 11204
(212) 438-6400

Contact: Joseph Schwartz,
Sales Manager

MURA CORPORATION

LINE: Panel and indicating meters, potentiometers, IF transformers and coils, microphones, multi-testers, speakers, submini and mini lamps.

177 Cantigue Rock Rd.
Westbury, NY 11590
(516) 935-3640

Contact: William Mercurio, VP

NAGRA MAGNETIC RECORDERS INC.

19 W. 44th St.
New York, NY 10036
(212) 840-0999

Contact: Dom Nottlo, VP

NORTHEAST BROADCAST LAB, INC.

P.O. Box 1176
15 Charles St.
S. Glens Falls, NY 12801
(518) 793-2181

Contact: Bill Bingham, Pres.
SEE AD ON PAGE 164

PINZ SALES CORP.

LINE: Soundoller, Pickering, AIWA, Weatheralert.

570 Yonkers Ave.
Yonkers, NY 10704
(914) 423-4747

Contact: Ben Pinz, Pres.

PROFESSIONAL ELECTRONICS COMPANY

LINE: Harris, JVC, RCA, Panasonic, Sony, 3M, Dynair, Videodata, Videotek, Crosspoint, Lenco, Tektronix, Telech.

1594 State St.
Woodlawn Plaza
Schenectady, NY 12304
(518) 374-1515

Contact: Jerry H. Kolins, Pres.

JULES RACINE & CO., INC.

LINE: Stopwatches, chronographs, stop clocks.

85 Executive Blvd.
Elmsford, NY 10523
(914) 592-4760

Contact: Roger B. Smith, VP

KOPPE RADEN CORP.

LINE: Audio video broadcast communications equip. & supplies.

34 South Broadway
White Plains, NY 10601
(914) 682-8038

Contact: Lorraine Raden, VP

RAVEN SCREEN CORP.

LINE: Projection screens.

124 East 124th St.
New York, NY 10035
(212) 534-8408

Contact: Martin Soss, Pres.

ALAN SARFATY & ASSOC., INC.

26 Margaret Court
Great Neck, NY 11024
(516) 466-6770

Contact: Alan Sarfaty, Pres.

THE KEN SCHAFER GROUP

LINE: Eventide Clockworks; Redcom; Tamaphone, Swintek, Standard, Cetec-Vega.

10 E. 49th St.
3rd Floor
New York, NY 10017
(212) 371-2335

Contact: Paul Auerbach,
Dir. of Sales

SIGMUND LONDON, INC.

27-16 41 Avenue
Long Island City, NY 11101
(212) 786-1800

Contact: Stephen London, Treas.

SINGER PRODUCTS

LINE: Wide line of broadcast products for all applications.

875 Merrick Avenue
Holbrook, NY 11590
(516) 683-3000, ext. 602

Contact: J. Bicocchi,
GM/Broadcast

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315 West 43rd St.
New York, NY 10036
(212) 974-4600

Contact: Hy Roth, VP Sales

TAPE CITY, INC.

LINE: Sony, Panasonic, JVC, RCA, Quasar, 3M, RDK.

404 Park Ave. South
New York City, NY 10016
(212) 679-1606

Contact: Andy Wander, Sls. Mgr.

TEAM ELECTRONICS, INC.

LINE: RCA, Amperex, GE, Toshiba, Hitachi, Panasonic, EEV, Ampex, Scotch, 3M.

24-16 Queens Plaza South
Long Island City, NY 11101
(212) 937-9200

Contact: Fred M. Samuel, Pres.

TELE-CINE, INC.

(A subsidiary of Schneider Corp. of America)

LINE: Exclusive distributor Schneider television Lenses, ENG, EFP, Studio, field, diascopes Lenses— $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ".

400 Crossways Park Drive
Woodbury, NY 11758
(516) 496-8500

Contact: Bob Jones, Sls. Mgr.
SEE AD ON PAGE 141

TELESCO INTERNATIONAL

LINE: Radio and television studio and transmitting equipment.

125 Mineola Avenue
Roslyn Heights, NY 11577
(516) 484-3822

Contact: Gerald Lainer, Pres.

TELEVISION EQUIPMENT ASSOCIATES

LINE: Matthew, Rocal Acoustics, Elcom, Link.

Box 393
South Salem, NY 10590-0393
(914) 763-8893

Contact: Bill Pegler, Pres.

TEMTRON ELECTRONICS, LTD.

LINE: Transmitting tubes, camera pick up tubes, studio lamps, semiconductors.

15 Main St.
East Rockaway, NY 11518
(516) 599-6400

Contact: Ed Kramer, VP Mktg.

TESCO ASSOCIATES

LINE: Test equipment, scopes, generators, cabinets, batteries, recorders.

2002 Teall Ave.
Syracuse, NY 13206
(315) 463-4566

Contact: Ted Hendel, Owner

UNISTAGE, INC.

LINE: Yamaha, JBL, Eventide, Crown, AKG, Orban, Anvill, Clearcom, dbx, Spectrasonics.

330 Genesee St.
Buffalo, NY 14204
(716) 853-6500

Contact: Robert Lovejoy
Mgr. Pro-Sound

VIDEO COMPONENTS, INC.

LINE: Video accessories.

601 S. Main St.
Spring Valley, NY 10977
(914) 356-3700

Contact: Dick Turchen, Pres.

WESTEC AUDIO VIDEO INC.

LINE: Ampro/Scully, Audiotronics, BTX, ATI, ESE, Fidellpac, RTS, Orban, Spectra Sonics.

1841 Broadway
Suite 1203
New York, NY 10023
(212) 586-1662

Contact: R. Maitland, Pres.
S. Lane, Op./Sales Mgr.

ZELLAN ENTERPRISES LTD.

LINE: Aaton, Angenieux, Century-Precision, Cooke, Harrison, Lowell, Tiffen, Zeiss, Sachtler.

250 West 57th Street
Room 414
New York, NY 10019
(212) 245-1598

Contact: Les Zellan, President

NORTH CAROLINA**ANGLE STEEL ERECTORS**

LINE: Towers, lighting, painting, ground systems

P.O. Box 55
Greenville, NC 27834
(919) 752-7323

Contact: William Angle Jr., Owner

BROADCAST SERVICES CO.

LINE: Audiotronics, Broadcast Electronics, Electro-Voice, Revox, Electro-Impulse, Fidellpac, Audiopak, Sennheiser, Russco, Cablewave, Phelps-Dodge.

Route 3 Box 45E
Four Oaks, NC 27524
(919) 934-9590

Contact: Neal Davis, Owner

JIM CASON ELECTRONICS

5213A Trentwood Dr.
P.O. Box 1254
New Bern, NC 28560
(919) 638-5956

Contact: James L. Cason, III,
Owner

DOUG COOK & ASSOCIATES

LINE: Broadcast-professional.

6300 Carmel Road
Charlotte, NC 28211
(704) 542-6510
(800) 438-6040

Contact: Al Ellinson, Doug Cook
or Jim Clafflin.

EME, INC.

LINE: Amber, Dage/MTI, Lightning Elimination Associates, NEC America, Terracom, TFT.

112 Buena Vista
High Point, NC 27260
(919) 869-3335

Contact: George W. Gold, Pres.

KIRKMAN ELECTRONICS, INC.

LINE: JVC, 3M, Videotek, Fortel, Anton Bauer, ESP, Bogen, Quik-Set, Lowell, Anvill, AKG, Tektronix, Comprehensive, Shure.

901 W. 2nd Street
P.O. Drawer K
Salem Station
Winston-Salem, NC 27108
(919) 722-9131

Contact: Read Clark, Mgr., Video

SOUTHEASTERN SIGHT & SOUND

LINE: Sony, Panasonic, JVC, Hitachi, HVS, Convergence, Strand Century.

P.O. Box 27786
Raleigh, NC 27611
(919) 828-2311

Contact: Lynn Irwin, Gen. Mgr.
Howard Rothstein,
VP/Mktg.

SOUTHERN COASTAL MARKETING SERVICES, INC.

LINE: RF & studio equipment for radio stations.

6300 Carmel Road
Charlotte, NC 28211
(704) 542-6543

Contact: Bob Cauthen, Gen. Mgr.

NORTH DAKOTA**AUDIO VISUAL, INC.**

LINE: JVC, Hitachi, Convergence,

Microtime, Lenco, 3M, Panasonic, Shlnton.

1818 East Broadway
Bismarck, ND 58501
(701) 258-6360

Contact: Joe Stoeber, Sls. Mgr.

OHIO**CARTWRIGHT COMMUNICATIONS CO.**

LINE: Two-way radio communications & accessories.

7812 Red Sky Dr.
Cincinnati, OH 45242
U.S. (800) 543-8614
OH (800) 582-2641

Contact: W. Y. Cartwright, Pres.

GRINNAN FIXTURE COMPANY

LINE: Loudspeakers, mikes & accessories, monitors, preamps, audio recorders, STL and SCA equipment, tape accessories, AM and FM transmitters, turnkey installation services, vans and mobile units.

16041 Georgetown St., N.E.
Minerva, Ohio 44657
(216) 862-2323

Contact: John F. Grinnan, Owner

KAVCO INC.

LINE: Over 600 lines of audio and video products. Complete turnkey systems for master control, studio control, editing suites, mobile vans, etc.

3931 Image Dr.
Dayton, OH 45414
(513) 898-2003

Contact: John Ellis, Sales Coord.

KLOPF AUDIO / VIDEO COMPANY

LINE: JVC, Sony, Panasonic, Hitachi, CEI, Rauland, 3M, NEC.

3381 Successful Way
Dayton, Ohio 45414
(513) 236-5500

Contact: Bill Kane, Sales Coord.

MIDWEST CORPORATION

Communications Systems Div.

LINE: Ikegami, Hitachi, DVS, Sony, JVC, Panasonic, Quanta, 3M, Videotek, NEC, Scientific Atlanta, Microwave Associates, Lenco, Tektronix, Grass Valley, Ampex, Audiotronics, Control Video, Cezar Int., Crosspoint Latch, Echo Lab, ITE, O'Connor, Quick Set, Edutron, CVS, RTS.

1021 W. 8th Street
Cincinnati, OH 45203
(513) 651-1904

Contact: Jay Adrick, Branch Mgr.
SEE AD ON PAGE 9

R.E. INSTRUMENTS

LINE: Fiber optics, fiber-optic transmitters/receivers, digital modulators, demodulators.

31029 Center Ridge Road
Westlake, OH 44145
(216) 871-7617

Contact: Bruce Gravens, Mkt.
Sales Manager

OKLAHOMA**WALTER S. BREWER CO., INC.**

LINE: Electro Controls (lighting control systems), Bardwell & McAliston (lighting fixtures), Thorn Lighting (quartz lamps), Rosco (color materials).

2216 E. 56th Pl.
Tulsa, OK 74105
(918) 749-9894

Contact: Walter S. Brewer, Pres.

Continued on page 186

WHERE TO BUY IT

DOUG BROWN ENTERPRISES, INC.

LINE: Audio equipment, supplies, turn-key design and installation services.

1703 East Skelly Drive
Tulsa, OK 74105
(918) 747-3618

Contact: D. C. Brown, Pres.

DELCOM CORP.

LINE: Hitachi, Sony, Panasonic, ISI, Convergence, Microtime, Harris, For-A, Quanta, Laird.

6019 S. 66 E. Ave.
Tulsa, OK 74145
(918) 494-9500

Contact: Sam Pate, President

SATELLITE SYNDICATED SYSTEMS

LINE: WTBS, Atlanta.

8252 South Harvard - 74136
P.O. Box 45684
Tulsa, OK 74145
(918) 481-0881

Contact: Sel Kremer

OREGON

VIDEO BROKERS, INC.

10110 SW Numbus Ave. B-1
Portland, OR 97223
(503) 620-9021

Contact: Van M. Faulk, Sls. Eng.

VIDEOSONICS, INC.

LINE: Television systems equipment & design.

821 S.E. 14th Ave.
Portland, OR 97214
(503) 232-4632

Contact: George Morfin, Sls. Mgr.

PENNSYLVANIA

A B & T SALES CORP.

LINE: Speakers, amplifiers, receivers, and blank tape.

1000 Valley Forge
Circle-109B
King of Prussia, PA 19406
(215) 265-2028

Contact: Milt Dienes, Pres.

ALCARE COMM., INC.

LINE: Scott Time Lapse Weather Scan Box in addition to television programming.

1503-05 Walnut St.
Philadelphia, PA 19102
(215) 568-6010

Contact: Frank Beazley, Chrmn.

ALPHA VIDEO ELECTRONICS

LINE: Cameras, monitors, test equipment, VTRs, character generators, TBC, mikes, switchers.

28 East Mall Plaza
Carnegie, PA 15106
(412) 279-6169

Contact: H. B. Lassige, Pres.

AUDIO INNOVATORS, INC.

LINE: The professional audio division of Audio Innovators Inc. carries more than 75 lines of pro audio equipment and accessories.

216 Blvd. of Allies
Pittsburgh, PA 15222
(412) 621-1950

Contact: M. J. Wilson, Op. Mgr.

BROADCOM T.M.

LINE: Cartridge machines; amplifiers;

equalizers; audio delay equipment; transmitters; mixers; studio furniture; noise reduction systems; turntables; headphones; mikes; monitoring devices.

Tilghman at Jefferson
Allentown, PA 18102
(215) 437-0607

Contact: Bill Davies

BRUSH MAGNETIC HEADS

3rd & Reagan Streets
P.O. Box 638
Sunbury, PA 17801
(717) 286-5611

Contact: Bob Trachtenberg, VP

CERCONE VINCENT ASSOCIATES

LINE: Strand Century, Mole-Richardson, Bardwell & McAlister, Lowell, Teatronics, GE., Osram, Clear-Com, Matthews, Uni-Set, Rosco, Lee, Union Connector, Anvil Cases.

2741 Noblestown Road
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(412) 922-0901

Contact: Mark McGinnis, Sales

GEORGE M. CONNEEN CO., INC.

LINE: Wire & cable, microphones, monitor speakers, PA & pro sound speaker systems, audio amps, audio consoles, EQ.

P.O. Box 251
Springfield, PA 19064
(215) 544-5884

Contact: George Conneen, Sales

GRUVER RECORDING & SERVICE CO.

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214 N. Chestnut St.
Palmyra, PA 17078
(717) 838-6973

Contact: Gary L. Gruver, Owner

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Lansdale, PA 19446
(215) 362-8796

LERRO ELECTRICAL CORP.

LINE: VTRs, cameras, monitors, editing systems, character generators, battery/charges systems, mobile TV vans, professional audio and video equipment.

3125 N. Broad Street
Philadelphia, PA 19132
(215) 223-8200

Contact: Louis Lerro

LOFSTROM ELECTRONICS, INC.

LINE: Advance, Fujii, Hitachi Denshi, Jatech, Jerrold, JVC, Panasonic, Soundolier, Video Data, Winsted, World Video.

Empire Building
Glassport, PA 15045
(412) 461-2116 or
(412) 672-2554

Contact: Tom Mossbarger, Sales

David Owens, Sls. Engr.

ROBERT MEYERS ASSOCIATES

613 W. Cheltenham Ave.
Melrose Park, PA 19126
(215) 224-1663

RICHARD S. PASS ASSOCIATES, INC.

LINE: Swintek, Protech Audio, White Instruments, Mohawk Wire & Cable, Soundoller, AB Systems Design, ATS Cases, Minicom, Trutone Electronics, Ikegami Electronics (black & white only).

27 Oxford Drive
Langhorne, PA 19047
(215) 757-6100 or
(703) 370-9888

Contact: Richard Pass, President

PIERCE - PHELPS, INC.

LINE: CCTV, audio / visual equipment and supplies.

2000 N. 59th St.
Philadelphia, PA 19131
(215) 879-7171

Contact: Frank Brady, Sales Mgr.

PROCESSING PLUS

LINE: Distributor of broadcast equipment, audio processing specialist, and audio engineering consultants. IMP-3, Aphex, Fidelipac, Scotch 3M.

59 Brookside Road
P.O. Box 3303
Wescosville, PA 18106
(215) 398-3377
(800) 523-9396

Contact: Allan Winkler, VP/Sales
SEE ADS ON PAGES 162, 164

RABAL ASSOC., INC.

LINE: Video delay lines (1H & 2H), tape cleaners.

Box 114
Huntingdon Valley, PA 19006
(215) 947-4825

Contact: Allen S. Katz, Pres.

RO - CEL ELECTRONICS, INC.

LINE: Altec, JBL, Crown, E-V, AKG, Bi-Amp.

731 Butler St.
Pittsburgh, PA 15223
(412) 781-2326

Contact: Don Rosenberger, V.P.

TONER CABLE EQUIPMENT

LINE: Specialize in earth stations, towers, antennas, headends and apartment house amplifiers.

969 Horsham Road
Horsham, PA 19044
(800) 523-5947
In Pa call (800) 492-2512

VAL-TRONICS

Penn Park Bldg.
Pittston, PA 18641
(717) 655-5937

Contact: Milan J. Krupa,
Sales Manager

RHODE ISLAND

WRH BROADCAST SUPPLY

5 Industrial Way
Riverside, RI 02915
(401) 434-6272

Contact: Warren Hartwell, Pres.

TENNESSEE

AUDICON MARKETING GROUP

LINE: AKG, Ampro, Audifad, Barth, Beyer, BGW, dbx, Dolby, Eela, JBL, Lexicon, MCI, Ralndirk, Scully, Sennheiser, Woelke.

1200 Beechwood Avenue
Nashville, TN 37212
(615) 256-6900

Contact: Claude Hill, President

AUDIO ARCHITECTS, INC.

LINE: Sound Workshop, Tascam, Otari, JBL, Audio & Design Recording, Tangent, Ursa Major, AKG.

112 Space Park Drive
Nashville, TN 37211
(615) 331-3247

Contact: Allen Rumbaugh,
Sales Manager

BARRY TRADING COMPANY

LINE: FM antennas, transmitters

P.O. Box 609
Lebanon, TN 37087
(615) 444-0305

Contact: William O. Barry, Owner

BROADCAST DISTRIBUTORS

LINE: 80 leading lines of audio & radio equipment.

3800 Keith St., N.W.
Cleveland, TN 37311
(615) 472-8200

Contact: Thos. Duncan, Mgr.

BROADCAST EQUIPMENT & SUPPLY CO., INC.

LINE: Broadcast Electronics, E-V, Shure, Russco, Ampro, LPB, Switchcraft, Teac, Revco, Stanton, Micro-Trak, Fidelipac.

Rt. 1-Weaver Pike
Bluff City, Tennessee 37618
(800) 251-0487 or
(615) 878-2531

Contact: Clifton Droke, Sls. Mgr.

PHASE AUDIO

LINE: Audio equipment, Audiotronics, JBL.

151 N. Angelus
Memphis, TN 38104
(901) 726-1900

Contact: Bill Kenner, Sls. Mgr.

JOHN W. GARDNER, INC. D/B/A/ T.H.E. Co.

LINE: White Instruments, dbx, Dorrough, Sony Microphones, Eventide, Eastern Acoustics, AB Systems, Standard Wire & Cable.

28 Music Square East
Nashville, TN 37203
(615) 320-0807

Contact: Sales Manager

REDWOOD MARKETING GROUP

LINE: Redwood Research param equalizer, R. Barth KG audios, V311, Musicoder, Woelke test and measuring equipment. Heads.

820 Redwood Drive
Nashville, TN 37220
(615) 331-4743

Contact: Terry L. Hill, Mktg. Dir.

VALLEY PEOPLE, INC.—RETAIL

LINE: Otari, Sound Workshop, Audiotronics, Lexicon, BTX, Fostex, Dolby, UREI, Crown, JBL.

2820 Erica Place
P.O. Box 40306
Nashville, TN 37204
(615) 383-4737

Contact: Bob Todrank, Exec. VP

TEXAS

ABADON / SUN., INC. dba ASI

LINE: Crown, JBL, AKG, Ampex, Auratone, dbx, Eventide, HME, Lexicon, MRL, Neotek, Orban, Quantum, Sennheiser, Soundcraft, Tascam, Teac, Technics, UREI, White.

P.O. Box 6520

San Antonio, Texas 78209
(512) 824-8781
Contact: Galen Carol, Pres.

BOB AMOS & ASSOCIATES, INC.

LINE: Sennheiser; Frazier monitors.
P.O. Box 3247
Irving, Texas 75061
(214) 827-8232, 252-1161
Contact: Bob Amos, Pres.

BRADENCO CORP.

LINE: Marconi Instruments, Kings Electronics, Allen Avionics, JFW, Western Microwave.
11500 Stemmons Fwy. #107
Dallas, Texas 75229
(214) 243-7261
Contact: Robert Braden, Pres.

BROADCAST SYSTEMS, INC.

LINE: Conrac, Tektronix, Philips, Vinten, 3M, Dielectric, Cetec Antennas, Videotek, Microtime, RTS, Farrtronics, HME, Dynatech, Moseley, Belar, Thomson-CSF, Gray Engineering, Myat, Electrohome. Approximately 80 other product lines of television support equipment.
8222 Jamestown Drive
A103
Austin, TX 78758
(512) 836-6011
(800) 531-5232
In Texas (800) 252-9792
Contact: Cary Fitch, Sls. Mgr.
SEE ADS ON PAGES 88, 170

CFA/MEDIA SPECIALTIES, INC.

LINE: Strand Century, dimming/fixtures; Lowel, portable lighting; Union Connector, connectors; Matthews, grip equipment; Paramount Sound, sound systems; Rosco and Lee, filters, Cam-Lok, connectors; Oshram, lamps; Sylvaia, lamps.
P.O. Box 34567
San Antonio, TX 78233
or
8234 Vicar
San Antonio TX 78218
(512) 657-5997
Contact: Marlene D. Hart, Sales
T.L. Folsom, Pres.

CAMPION SALES CO., INC.

LINE: Shure, Tape-Athon, Robline, Gold Line, Audio Magnetics.
P.O. Box 1830
Richardson, Texas 75080
(214) 238-8145
Contact: R. M. Campion, Pres.

COMPUCON

LINE: Consultant
P.O. Box 401229
Dallas, Texas 75240
(214) 233-4380
Contact: D. Coupe, Mgr.

CROUSE - KIMZEY COMPANY

LINE: Broadcast studio equipment.
3507 West Vickery
Fort Worth, Texas 76107
(817) 737-9911
Contact: M. Bradford, Sales Mgr.

VICTOR DUNCAN, INC.

LINE: Sony, JVC, Panasonic, Panavision, Barco, Fernseh, Tektronix.
2659 Fondren
Dallas, TX 75206
(214) 369-1165
Contact: Bill Ludwig, Sls. Mgr.
SEE AD ON PAGE 172

EIDSON ELECTRONIC CO.

LINE: AM, FM & TV crystals for frequency control.
P.O. Box 3751
Temple, Texas 76501
(817) 773-3901
Contact: M. Eidson, Mgr.

GIESLER BROADCASTING SUPPLY

LINE: Ampex, Scully, Autogram, Broadcast Electronics, Cablewave, dbx, Fidelipac, Logitek, Moseley, Orban, Potomac Instruments, QEI, UREI, CSP.
9440-L Harwin Dr
Houston, TX 77036
(713) 974-6205
Contact: Bernie Giesler, Pres.
SEE AD ON PAGE 166

GUARANTEE RADIO SUPPLY

LINE: Ampro/Scully, ITC, Ampex, Singer, JVC, Sony, Eimac, Amperex, Autogram, Ramko, TFT, Logitek, Scotch 3M.
1314 Iturbide
Laredo, TX 78040
(512) 723-6913
Contact: R. A. Reyes, Exec. V.P.

INDUSTRIAL AUDIO / VIDEO, INC.

LINE: Sony, JVC, Ikegami, Scotch, Conrac, Tektronix, ISI, Shlntron, Harris Video Systems, CMX Orrox, JBL, RTS, AKG, Shure, EV.
2617 Bissonnet
Houston, Texas 77005
(713) 524-1956
Contact: David Patton, Pres.

JBS ENTERPRISES, INC.

LINE: Communication, radio & pager batteries, VTR; biomedical batteries; AMT.
7817 Charter Oak Ct.
Ft. Worth, Texas 76179
(817) 236-7606
Contact: James B. Schuster, Owner

LINROSE ELECTRONICS CORPORATION

202 West Nakoma
San Antonio, Texas 78216
(512) 342-8849
Gordon W. Tobias, President

MEDIA SPECIALTIES, INC.

LINE: Ianiro, Strand Century, Paramount Sound Systems, Osram, Sylvaia, Lee Filters, Rosco Sharp.
P.O. Box 34567
San Antonio, TX 78233
(512) 657-5997
Contact: Thos. L. Folsom, Pres.

MICRO CONTROL ASSOC., INC.

P.O. Box 694
Cleburne, TX 76031
(817) 295-7771
Contact: Robt. E. Richards, Pres.

MIDCOM, INC.

LINE: AKG, Audio Interconnect, Audio Services, BGW, Belden, Beyer, Blamp, Cerwin Vega, Cetec Vega, Clearcom Countryman, Crown, Crown PZM, dbx, Editall, Electro-Voice, Emcor, Eventide, HME, ITC, Interface Elec., Ivie, JBL, Kenwood, Lexicon, MXR, Micmix, Mohawk, Orange County, Orban, Quantum, RTS, Sennheiser, Setcom, Shure, Sony, Soundcraft, Sound Workshop, Star Cases, Switchcraft, Studer Revox, Tannox, Technics, Tram, UREI, White Inst.

2231 E. Division
Arlington, Texas 76011
(817) 461-2211
Contact: Mike Simpson, Pres.

MZB & ASSOCIATES

LINE: Video products and installation systems, cameras, etc.
4203 Beltway
Dallas, TX 75234
(214) 233-5535
Contact: Richard W. Bock, VP

PROFESSIONAL AUDIO SERVICES

LINE: Fidelipac, Stanton, Nortronics, 3M, Ampex, Electro-Voice, Audiolopak, Audiolab, Editall.
P.O. Box 1953
Ft. Worth, Texas 76101
(817) 536-6254
Contact: Jeanie, Telephone Sales

SAVCO

LINE: Audio, video, RF—most lines.
P.O. Box 427
Richardson, Texas 75080
(214) 234-1841
Contact: N. Hughes, Gen. Mgr.

SPECTRUM PLANNING, INC.

1850 N. Greenville
Richardson, TX 75081
(214) 699-3536
Contact: G.L. Ames, Exec. VP

THE GENE SUDDUTH CO., INC.

LINE: Central Dynamics, Leitch Video, Knox Video, Audiotronics, Howe Audio, Datalek, Skotel.
P.O. Box 1116
Paris, TX 75460
(214) 785-5727
Contact: Gene Sudduth, Owner

TENICKI & ASSOCIATES

LINE: Otari, Orban, Ransa, Audio-Technica, URSA-Major, Cetec Gauss, AB Systems, Soundcraft, GLI, RSS, CAE.
5719 Kirby - Suite 17
Houston, Texas 77005
(713) 528-2005
Contact: Randy Tenicki, Pres.

WESTBROOK AUDIO, INC.

LINE: Otari, Sound Workshop, Amek, dbx, Crown, Delta-Lab, Neumann, AD&R.
11836 Judd Court, Suite 336
Dallas, Texas 75243
(214) 699-1203
Contact: Paul R. Westbrook, Pres.

WHALIN'S PRO AUDIO SALES

LINE: ADC Products, UREI, Electro-Voice, Shure.
2910 Buena Vista
Arlington, Texas 76010
(817) 640-0261
Contact: Louis D. Whalin, Owner

UTAH

J. E. HALL CO.

LINE: Pro & consumer sound, Eddcor, Emilar, JBL, Intermagnetics, Niko, Shakespeare.
220 E. 3900 South #10
Salt Lake City, Utah 84107
(801) 268-3263
Contact: J. E. Hall, Owner

SKAGGS VIDEO SALES

LINE: Ikegami, Conrac, Tektronix, Panasonic, 3M, Sony Broadcast, etc.
4865 Wiley Post Way
Salt Lake City, Utah 84116
(801) 539-1420
Contact: Sam N. Kichas, Gen. Mgr.

TV SPECIALISTS, INC.

LINE: Panasonic (professional, UHS, CCTV), Sharp, Sony, Edutron, Kloss, MGA.
180 East 21st South
Salt Lake City, Utah 84115
(801) 486-5757
Contact: Ted Bollinger, Sls Mgr.

VIRGINIA

ALPHA AUDIO

LINE: Sonex-Sound absorbing anechoic wedge foam. Broadcast equipment consultation, design and fabrication services from concept to completion.
2049 W. Broad St.
Richmond, VA 23220
(804) 358-3852
Contact: Dave Jones, Prod. Mgr.
Eric Johnson, G.M.

BROADCAST ENGINEERS & EQUIPMENT REPS

LINE: Professional broadcast equipment for AM and FM radio.
P.O. Box 4777
Richmond, VA 23229
(804) 747-1212
Contact: Melvyn Lieberman, Mgr.

BOB DIX, INC.

LINE: Cetec, Singer, Moseley, Otari, Belar, ITC, Technics, dbx, Crown, JBL, Orban, TFT, Revox, Cablewave, Andrew, CRL, Urei, Sennheiser, Shure, Fidelipac, Eventide, Scully, Potomac, Bird, Delta.
P.O. Box 31
Marion, Virginia 24354
(703) 783-2001
Contact: Bob Dix, President

DAVID GREEN BROADCAST CONSULTANTS CORP.

LINE: 135 lines of broadcast equipment. Finance and lease plans available.
P.O. Box 590
Leesburg, Virginia 22075
(703) 777-6500, 8660
Contact: David Green, President
Art Reed, Tech.
Engineering Specialist
SEE INSERT, PAGES 133-134

MULTIPHASE CONSULTING

LINE: AM / FM studio and transmission equipment and consulting.
4209 Lamarre Drive
Fairfax, VA 22030
(703) 273-1960
Contact: H. I. Stewart, Partner

WASHINGTON

ALLIED BROADCAST EQUIPMENT

LINE: Audio and RF broadcast equipment.
31003 - A 18th Ave. S.
Federal Way, WA 98003
(800) 426-4254
(800) 562-0062
Contact: Cal Vandegrift
Continued on page 188

WHERE TO BUY IT

ARVA - HUDSON, INC.

LINE: Microwave, two-way radio, RF test equipment, Ni-Cad batteries.

P.O. Box 1512
Bellvue, WA 98009
(206) 455-0773

Contact: Bob Hudson, Pres.

BENNETT ENGINEERING ASSOC., INC.

LINE: Broadcast station equipment, audio, video, transmitters and accessories for AM / FM and TV.

P.O. Box 76
Mercer Island, WA 98040
(206) 232-3550

Contact: S. D. Bennett, Pres.

BROADCAST SUPPLY WEST

LINE: Wide range of broadcast studio equipment, everything from microphones to sound reinforcement.

7012 27th St. W.
Tacoma, Washington 98466
(206) 565-2301

National Watts (800) 426-8434
Contact: Tim Schwiager, Sls. Sup.

CUSTOM VIDEO SYSTEMS, INC.

LINE: Sony Broadcast, Harris Video Systems, Sharp, Sony, Panasonic, JVC, Ikegami, Convergence, O'Connor, Grass Valley, Tektronix.

17521 15th Ave. N.E.
Seattle, Washington 98155
(206) 365-5400

Contact: Al Harwood, President

FLEEHART & SULLIVAN, INC.

LINE: Ampex, Comprehensive Video, Knox, Shure Bros., JVC Pro Video, GE CCTV, Reme Wire, Thalner, Smith Victor, Ross, B&K Dynascan, Telex, ITT.

P.O. Box 77008
10109 Aurora Avenue N.
Seattle, Washington 98133
(206) 522-1533

Contact: Don Dussault, Sls. Mgr.

NORTHSHORE MARKETING,

LINE: Audio Technica, Crown International, EXR, JBL, Lexicon, Orban, Otari, UREI, Sound Workshop, MicMix, Ivie.

1800 NE 75th St.
Seattle, WA 98115
(206) 524-8672

Contact: Lewis Barrett, Sls. Mgr.

NORTH WEST INDUSTRIES

LINE: Video equipment (GE, Conrac, RCA, Zenith).

5518 Empire Way So.
Seattle, WA 98118
(206) 722-7400

Contact: J. Stanton Keck, Pres.

PUGET SOUND AUDIO

LINE: Otari, Quantum, Neumann, HME, dbx, Crown, Lexicon, E-V, Technics, Urei, Tascam, Sennheiser, Mic-Mix, JBL.

5105 N. 46th
Tacoma, WA 98407
(206) 759-4701

Contact: Rob Denbrook, Sls. Mgr.

WEST VIRGINIA

C. R. V. SYSTEMS, INC.

LINE: Comprehensive Video, JVC, Panasonic, ISI, Lenco, PLS Sharp, Jatech, ITE, Knox, World Video.

860 Adams Ave.
Huntington, WV 25704
(304) 525-2633

Contact: Stuart Underwood, Pres.

WISCONSIN

AVONIX VIDEO SYSTEMS

21675 Doral Rd.
Waukesah, Wisconsin 53186
(414) 784-1800

Contact: Warren Ribbecky,
Sales Representative

ELECTRONIC INDUSTRIES, INC.

LINE: Broadcast audio AM/FM, RF.
19 E. Irving Avenue
Oshkosh, WI 54901
(800) 558-0222

Contact: Bud Tedlie, Bdcst. Sales

ELECTRONIC PRODUCTS, INC.

LINE: RF test equipment, towers, land mobile equipment and accessories.

140 N. Avenue
Hartland, WI 53029
(414) 367-2929 or
(800) 558-2331 (WATS)

Contact: David Barquist, V.P.

FULL COMPASS SYSTEMS

LINE: Otari, Ampex Tape, Technics, EV, Tapco, Shure, Tascam, ClearCom, Ramsa, Crown, dbx, AKG, Sennheiser, Sony, Vega, HME.

6729 Seybold Rd.
Madison, WI 53719
(608) 271-1100

Contact: Jonathan Lipp, Pres.
SEE AD ON PAGE 166

TODD COMMUNICATIONS

LINE: Ikegami, Sony, Harris video systems, 3-M, Panasonic, Lenco, Fernseh, Tektronix, Videomedia.

1122 Queens Way West
Nekoosa, WI 54457
(517) 325-2573

Contact: Howard Dougherty,
Regional Manager
SEE AD ON PAGE 165

VIDEO IMAGES

LINE: Hitachi, Sony, Panasonic, JVC, Microtime, Fernseh, ISI, Crosspoint Latch, Sharp, Acrodyn, Scientific Atlanta.

12200 W. Adler La.
W. Allis (Milwaukee),
WI 53214
(414) 475-0111

Contact: John Fuchs, V.P.

CANADA

AKG ACOUSTICS

LINE: Microphones & accessories, reverberation units, power supply unit, time delay units.

200 Consumers Rd. - 105
Willowdale, Ontario M2J 4R4
(416) 494-1453

Contact: Carlo Roletti, Sales Mgr.

BCB ELECTRONIC SALES LTD.

LINE: Videomedia, Technicolor, Cezar International, Tentel, Hitachi, Digital Video Systems, Automated Systems Int.

98 Healey Rd., Box 315
Bolton, Ontario, L0P 1A0.
(416) 857-0790, 0791

Contact: R.H. Cook, President

B E S ELECTRONICS LIMITED

LINE: Audio recorders, antenna accessories & services, transmission cable

3212 Wharton Way
Mississauga, Ontario
L4X 2C1 Canada
(416) 624-5624
24 Hr. Emerg. No. 276-0276
Contact: W. Onn, Pres. & Gen. Mgr.

B.S.R. (CANADA) LTD.

LINE: dbx & Otari.
26 Clairville Drive
Rexdale, Ontario M9V 4B3
(416) 675-2425
Contact: R.W. (Rod) Marsh,
Prod. Manager

CALDWELL EQUIPMENT

LINE: Wide array of audio and video equipment.

1080 Bellamy Road North
Scarborough, Ontario
M1H 1H2 Canada
(416) 438-6230

Contact: Jim Smith, President

CAMARTRON COMMUNICATIONS, INC.

LINE: Commercial Electronics, NEC America, Allen Avionics.

236 Yorkland Blvd.
Willowdale, Ontario
M2J 1R5 Canada
(416) 494-6978

Contact: Ken Snowden, Pres.

CARR MCLEAN LIMITED

LINE: Library, audio visual, archival supplies, furniture, shelving.

461 Horner Ave.
Toronto, Ontario, M8W 4X2
(416) 252-3371

Contact: W.G. Carr, Sales Mgr.

CAVECO EQUIPMENT LTD.

1121 Bellamy Rd. North
Unit 10
Scarborough, Ont. M1H 3B9
(416) 438-6230

Contact: Jim Smith, Pres.

CECOM COMMUNICATION PRODUCTS

1015 Matheson Blvd.
Unit -3
Mississauga, Ont. L4W 2V3
(416) 624-9392

Contact: T. Rankine

CECOM ELECTRONICS LTD.

1015 Matheson Blvd.
Unit 3
Mississauga, Ont. L4W 2V3
(416) 624-3420-21

Contact: Cecil Son Hing, Pres.

COMAD COMMUNICATIONS LIMITED

LINE: McMartin, Townsend, ESE, ITE, Knox Video, Studer Revox, Shure, Shively.

91 Kelfield St., Unit 5
Rexdale, Ontario
M9W 5A3 Canada
(416) 245-1734

Contact: Emil Adamyk, Pres.

CROWDER COMMUNICATIONS LTD.

LINE: Satellite turo equipment, rebroadcast equipment, system engineering.

4312 Norfolk St.
Burnaby, British Columbia
V5G 4J9 Canada
(604) 437-4433

Contact: J.G. Edwards, V.P.
Finance & Marketing

EEV CANADA LTD.

LINE: Specialized electron tubes, solid-state devices.

67 Westmore Drive
Rexdale Ontario
Canada M9V 3Y6
(416) 745-9494

Contact: D. Clissold, Gen. Mgr.

ELECTRO & OPTICAL SYSTEMS LIMITED

31 Progress Court
Scarborough, Ontario
Canada M1G 3V5
(416) 439-9333

Contact: Maurice Evans

GERR ELECTRO - ACOUSTICS

LINE: Midas, Sound Workshop, HME, Lexicon, TRS, Otari.

363 Adelaide Street East
Toronto, Ontario,
Canada M5A 1N3
(416) 868-0528

Contact: Robt. Snelgrove, Pres.

GLENTRONIX (U.S.) INC.

LINE: Video & pulse delay lines, NTSC & RGB monitors, video production, routing & master control switchers, time code equipment, video & audio patchfields, camera test charts, slides, film & transparencies, tape synchronizer, video & audio head refurbishing, oscilloscopes & waveform monitors, automatic tape degaussers, logic analyzer board, tape conditions, evaluators & tape timers, side band analyzers, clock drivers & clocks, machine control equipment temperature equipment, cable strippers.

160 Duncan Mill Road
Don Mills, Ontario M3B 1Z5
(416) 444-8497

Contact: Debra Carter

GRAYGALE ENTERPRISES LTD.

LINE: Hughey & Phillips Inc., tower obstruction lighting & related products.

P.O. Box 1581
Kitchener, Ontario
N2G 4P2
(519) 884-5351

Contact: Win Nightingale, Pres.

GOULD MARKETING CO. LTD.

LINE: Loudspeakers, audio equalizers, amplifiers, tape players, recorders, duplicators, mixers.

6445 Cote de Liesse Road
Montreal, Quebec
H4T 1E5 Canada
(514) 342-4441

Contact: Kevin G. Knoll,
Prod. Mgr.

EARTH STATION TECH. INC. (E.S.T.)

LINE: Elpro transmitters, Elpro translators, E.S.T. receiver stations, Andrew antennas.

#114 - 5910 No. 6 Road
Richmond, B.C.
Canada V6V 1Z1
(604) 270-9544

Telex: 04-357745
Contact: Sonny Kosuljandic, GM

IMMAD BROADCAST SERVICES

LINE: TV & FM RF components, combiners, diplexers, filters, antennas, video distribution equip., turnkey, installation & testing services for studio, transmitters and antennas.

233 Carlaw Ave.

Toronto, Ontario Canada
M4M 3E9
(416) 465-2463
Contact: N. Brian Everett, G.M.

J-MAR ELECTRONICS LTD.
LINE: Audio equipment.
6 Banigan Dr.
Toronto, Ontario M4H 1E9
(416) 421-9080
Contact: Chris Brooks, Sales Mgr.

R.C. KAHNERT SALES LTD.
15 Bunty Lane
Willowdale, Ontario
Canada M2K 1W4
(416) 221-7755
Contact: R.C. Kahnert, Pres.

LEADER BROADCAST SYSTEMS INC.
LINE: Audio products, mixers, recorders, studio systems.
195 W. 7th Avenue
Vancouver B.C.
Canada V5Y 1L8
(604) 685-6043
Contact: Michael K. Leader, Pres.

LUMITROL LTD.
LINE: Colortran, Stanley ASH Theatrical, Rual Industries, Larcen, Sylvania, Phillips, Hubbell.
5 Walker Ave.
Toronto, Ontario
M4V 1G3 Canada
(416) 921-6060
(416) 921-6688
Contact: Bruce Whitehead, Pres.

MSC ELECTRONICS
LINE: BEI, Broadcast Electronics, Capitol/Audiopak, Comark, EMCEE, Evershed Power Optics, Howell/Shively Labs, LEA, LPB, NEC, Orban, QEI, Rankinter, Roh Corp., Telemet, TFT, UMC Electronics.
254 Wildcat Road
Downsview, Ont.
Canada M3J 2N5
(416) 661-4180
Contact: David La Frenais, Pres.

NATIONAL ELECTROLAB LTD.
LINE: RF test equipment, signal generators, spectrum analyzers, solid-state analyzers, time & frequency receivers, oscilloscopes, general test equipment.
1536 Columbia St.
North Vancouver, BC
V7J 1A4 Canada
(604) 985-0511
Contact: E. J. Frazier, Pres.

NATIONAL ELECTRONIC AGENCIES LIMITED
LINE: Hitachi professional broadcast ENG/EFP video camera equipment; Microtime, TBCs, image enhancers; Video Data production titlers, broadcast video products; Lenco; Cine 60; Crosspoint Latch switchers; E-V products, Hitachi oscilloscopes.
2137 Commercial Drive
Vancouver, British Columbia
V5N 4B3 Canada
(604) 253-3192
Contact: Chuck Spencer, Tech. Sup.

NORBEC VIDEO LTD.
LINE: Cameras, U-matic recorders, VHS recorders, time base correctors, monitors, tape.
4315 Girouard Ave.
Montreal, Quebec

Canada H4A-3E5
(514) 481-3483
Contact: Roger J. Archambault, President

NORTEC WEST LIMITED
LINE: Ampex Audio, Spotmaster, Audiotronics, Inovonics, Revox, Conrac, CEI, Convergence, Leitch, Moseley, Fernseh, Quantel.
325 West 5th Avenue
Vancouver, B.C.
V5Y 1J6 Canada
(604) 872-8525
Contact: R. Whitehouse, Pres.

OPTICOM DISTRIBUTORS LTD.
LINE: Cosmical, Computar, Tokina, Smith-Victor, Universal, Fluid Head, Fujinon, Opticom Motorized Zoom Lenses, Kowa, Peter Lisand, Davis & Sanford.
301-1589 W. 8th Ave.
Vancouver,
British Columbia V6J 1T5
(604) 734-4511
Contact: David Boyd, Pres/Owner

RACAL (CANADA) LIMITED
LINE: Radio communications products (non domestic).
1806 Woodward Drive
Ottawa, Ontario
K2C 0P7 Canada
(613) 225-4640
Contact: A.H. Blow, Gen. Mgr.

RADIO SERVICE, INC.
2500 Bates Rd.
Montreal, Quebec
H3S 1A6 Canada
(514) 342-4503
TLX 055-60070
Contact: M. Vallee, Brdcast. Mgr.

RUSINT ELECTRONICS & SALES CANADA LTD.
LINE: Measuring, monitoring and transmission equipment for TV, FM broadcasting; Interference simulators and RFI suppression filters; test equipment for telecommunication including fibre optics; radio communication and monitoring equipment and systems.
25 D Northside Road
Nepean, Ontario
Canada
(613) 829-3944
Contact: R. Pauk, Sales TV & FM Broadcast Equipment

A. C. SIMMONDS & SONS LTD.
LINE: Antenna Specialists Co., Acoustic Research, Cetec Vega, Sound Guard, Shure, SME, RKO Tape Corp., Midland International, Schroff.
975 Dillingham Rd.
Pickering Ontario
L1W 3B2 Canada
(416) 839-8041
Contact: W. B. Campion, Mkt. Mgr., Prof. Audio

SMYTH SOUND EQUIPMENT
LINE: Grado, Ikegami, KEF, UREI.
595 rue Parc Industriel
Longueuil, Quebec
J4H 3V7 Canada
(514) 679-5490
Contact: Michel Girard, Sls. Mgr.

SONO VIDEO INC.
LINE: Sony Broadcast, Sony Industrial, Microtime, Ikegami, Shintron, Technics, Ampex Audio.
1010 Berlier St.
Chomedey, Laval,

Quebec, Canada
H7L 3R9
(514) 677-5861 or 384-4546
Contact: Serge Shanks, VP
Daniel Langelier

TENNAPLEX SYSTEMS LTD.
LINE: Broadcasting antennas and combiners systems.
34 Bentley Ave.
Ottawa, Ontario
Canada K2E 6T8
(613) 226-5870
Telex -053-4962
Contact: Marvin Crouch, Pres.

TRI-TEL ASSOCIATES LTD.
LINE: Maxell, Stanton, Denon, Onkyo, Thorens.
105 Sparks Ave.
Willowdale, Ont.
M2H 2S5
(416) 499-5044
Contact: Hank Gruenstein, VP

TURNELLE VIDEO INC.
LINE: Broadcast and industrial video products; audio products; surveillance products.
1050 Baxter Rd.
Ottawa, Canada K2C 3P1
(613) 829-8790
Contact: J.P. Clermont, Sls. Mgr.

UNITED VIDEO LTD.
LINE: Color cameras, video recorders, b/w cameras, switchers & sync gen., editing systems, production & test equipment, lighting systems, time base correctors, videotape, audio equipment, CCTU, processing equipment.
1230 Old Innes Rd., Unit 409
Ottawa, Ont K1B 3V3
(613) 741-5554
Contact: Dino DiMarino, Pres.

WESTRONIC ENGINEERING SALES LTD.
LINE: McCurdy Radio Industries Ltd., AVL Digital Ltd., Studer-Revov, Aristocart, Decibel Products, Arco Solar, IGM, McCurdy Telecommunica-

tions Ltd., L.M. Ericsson Ltd., Station Business Systems.
7 West 7th Ave.
Vancouver, B.C. Canada
(604) 872-0636
Contact: Rod Maddison, Prod. Mgr.

INTERNATIONAL

BFE kg
LINE: Audio and video studio products, OB vans, turnkey.
6500 Mainz-Gonsenheim
Fed. Republic of Germany
Contact: K.K. Feldweg, President

CROW OF READING LTD.
P.O. Box 36
Reading RG1 2NB
England 44
0734-595-025
TELEX: 847056
Contact: Mike Angelou, Marketing Manager

JOERGEN ANDERSEN INGENIOER&IRMA
LINE: Video equipment for broadcast and independent stations, total product range from cameras to VTRs.
Produktionsvej 1,
2600 Glostrup
Denmark
(02) 9188 88
Contact: A. Lillevang, Sales Mgr.

MALDWYN BOWDEN INTERNATIONAL LTD.
69 Ship Street
Brighton, England
BN1 1AE
(0273) 24928
Contact: Michael Fabricant, Dir.

OPTICAL AND TEXTILE LTD.
22-26 Victoria Road
New Barnet
Hertfordshire England
(01) 441-0098
(01) 441-2199
Contact: Bernard Bush, Sls. Mgr.

MISS ANYTHING? If you missed the category you were looking for, turn to the General Index on page 38. This index will tell you WHERE TO FIND IT: the page that the category is listed on, and all advertisements in this issue which feature products in this category.

FIND SOMETHING? If you found the right product and are interested in making a sales contact, use this section as a guide to dealers, distributors, and reps, or turn to the alphabetical listing of Manufacturers and Service Companies.

Tell them you read it in THE DIRECTORY.



NAB '82 unveils a record number of new products

PART 2

The 1982 version of the NAB convention has been committed to memory, but not yet laid to rest. If your memory isn't so good (or if you didn't make it to the convention), this second in a series of NAB review articles will fill in the blanks.

With a record number of exhibitors showing this year, it was necessary to split our coverage into two issues. This way you'll have a more complete record of what was introduced at the convention.

Meanwhile, this convention won't be laid to rest until the next one comes 'round. There were too many major issues that were left hanging. Take teletext, for example. It's another victim of the FCC's marketplace concept. Instead of affecting a standard, they sidestepped the issue.

AM stereo is another example. We may never know who had the best system. In this case we may just see who can bring the greatest influence to the marketplace.

Other standards were at issue, but their immediate impact will be of much less importance. Still, equipment manufacturers were offering both improved products at improved prices. Business was as brisk as it was serious.

As we return once more to the exhibit hall, remember that this issue is the annual Directory of Equipment, Services & Suppliers. The Action Cards can be used throughout the next 12 months. If you need further information on any of the ads or products described in this issue, circle the appropriate numbers on the Action Card, put a stamp on it, and drop it in the mail.

AKG ACOUSTICS—Microphones, reverberation units, headphones, and

phono cartridges were on display at the AKG booth. Among this company's professional products are "Golden Diaphragm" stereo condenser microphones, polydirectional studio condenser microphones, modular condenser microphone system, prepolarized condenser microphone series, the "Performing Arts Series" microphones, exclusive two-way dynamic microphones, dynamic microphones, paging and communications microphones, and torsional transmission line reverberation systems.

AKG's completely modular C-450 condenser microphone system comprises a basic preamplifier with interchangeable capsules, and accessories, each with different characteristics.

Circle (273) on Action Card

ACCURATE SOUND—Staying on top of the state-of-the-art in high-speed duplication is Accurate Sound's way of doing business. This year they introduced the System 200 high-speed duplicator.

The System 200 offers a crystal-referenced design, a servo-controlled capstan, and the unit is very compact. This system design eliminates the capstan-idler and the need for mechanical brakes. Tape duplication speeds available are 60, 120 and 240 inches per second.

The master can be either ¼-inch or ½-inch tape, and in either two or four channels. According to the company, tape duplication speed accuracy is down to 0.08 percent maximum, and flutter is listed at below 0.15 percent RMS.

Slave units can handle 150-mil cassettes or ¼-inch reel-to-reel tapes.

Circle (274) on Action Card

ALLIED BROADCAST EQUIPMENT—This company offers a comprehensive line of radio broadcast equipment.

Circle (275) on Action Card

AMBER ELECTRO DESIGN—The hottest product at the Amber Electro booth was the model 3501 distortion and noise measuring system. Successor to the popular 3500, this new instrument provides the highest performance distortion measurement commercially available with typical system (oscillator and analyzer) level of 0.0005% (-106 dB). It is also an extremely sensitive true RMS noise meter able to measure to -120 dBm with and without weighting. Comprehensive filtering allows compliance with FCC, NAB, IHF, and other standards.

Circle (276) on Action Card

AMCO ENGINEERING—New from Amco were economy EMI cabinets designed to meet FCC/EMI regulations. Also shown was a new line of computer desk cabinets and consoles.

Circle (277) on Action Card

AMPEREX—Amperex showed their full line of Plumbicon® television camera tubes, ranging in size from the hybrid ½-inch Diode Gun™ 80XQ to the 30mm high-resolution Diode Gun Frog Head 45XQ. This includes the ⅜-inch ENG XQ1427, the ⅝-inch EFP Diode Gun XQ3427, the XQ1070, XQ1080, and XQ2070 Diode Gun 1-inch families, and the 30mm XQ1410/1415 family.

Circle (278) on Action Card

ANGENIEUX—Angenieux unveiled their new 15x9 all-weather 9-135mm, f/1.5 zoom lens with diascope for

automatic ENG/EFP cameras. This lens features a new diascope design for precise registration even under field conditions.

With a photometric factor of 1.1 and an aperture of $f/1.5$, this lens is unique in the ENG/EFP field. In addition to its low light level capability, a built-in 2X range extender turret allows instant changing of the focal length range from 9-135mm to 18-270mm. Further versatility is achieved by the use of front optical attachments giving the lens an extreme focal length range of 7.2mm to 450mm. Minimum object distance of this new lens is 31 inches. At 270mm FL, the smallest object that will fill the screen is only 18x24.

Circle (279) on Action Card

ANTIOPE VIDEOTEX—The Antiope exhibit this year leaned toward exhibiting the established Antiope teletest operations in Los Angeles, San Francisco, and elsewhere. Their booth had a series of U.S. made color TV receivers, arranged in a pseudo living-room with comfortable couches. Visitors to the booth could pick up the remote control units, and call up teletext pages from CBS' Extravision, NBC's Tempo, KCET's NOW Electronic Magazine, and KPIX's Direct Vision. The teletext signals were brought in by phone line, and updated on a three-hour sequence.

Tony Barnett, president, and Marvin Segel, marketing manager, of Antiope & Telematics Corporation, agreed that teletext was still in the investigative phase among broadcasters. The standards dilemma in the teletext field still inhibits any major purchases, except among those avant-garde stations that want to experiment with this new medium.

However, Segel did find a very high interest by current users of Antiope equipment, in the new Unitel DRCS (soft-alphabet) equipment now operating in NTSC. This was the first display of a new keyboard editing console that does the finer graphics Antiope is capable of. The show equipment will go to KCET in Los Angeles for a few weeks, then on to the NCTA show in Las Vegas.

Circle (280) on Action Card

APERT-HERZOG—This company, located in San Jose, California, displayed digital video processing equipment and the new TDAC-1. The TDAC-1 (travelling digital-to-analog converter) is an 8-bit digital-to-analog converter in a probe for observation of address ramp functions, video waveforms, etc.

Circle (281) on Action Card

AGFA-GAVAERT—This New Jersey company displayed their 1/4-inch U-Matic cassettes dubbed the KCA-60, KCA-30, and KCS-20 Mini. The company also showed their 1/2-inch videocassettes, the Beta L500, and the VHS T120. Other tapes included their Studio Mastering Tape designed for SMPTE lock-up.

Circle (282) on Action Card

ARRIFLEX—A complete line of ARRI daylight HMI lights and accessories were exhibited at this booth. Included in this line are the 200W AC/DC portable HMI light; AC lights in 575- to 6000-watt sizes for 120V/220V AC operation; a complementary system for distribution boxes, various outputs, and voltages; and shipping and storage cases.

Circle (283) on Action Card

ARVIN/DIAMOND—Arvin/Diamond introduced the Sat-Weather System, which provides direct conversion of weather data to color video, including satellite-generated infrared signals.

Circle (284) on Action Card

AUBURN INSTRUMENTS—Auburn Instruments featured their new MC/1 two-wire machine control system which eliminates cumbersome and time-consuming wiring of multi-conductor cables and connectors, and makes delegation of control possible with simple single-pole switching. The MC/1's basic features include 8 commands, 8 return tallies and DC power on a two-wire bus; two 4-button remote units which combine to control 8 functions; master/slave and gang start capabilities; and reliable opto-isolated machine interface (relays optional).

Circle (285) on Action Card

BGW SYSTEMS—The BGW 250 and 750 Series power amps employ fully modular construction, fool-proof speaker protection, and one-piece construction. According to the company, the 250 Series uses three times as many output devices as the competition, enabling it to last three times longer. The 750 uses a heavy-duty rear-mounted two-speed industrial fan to move large volumes of air in from the back, over the internal circuitry and up through exhaust ports.

Circle (286) on Action Card

THE BTX CORPORATION—The new BTX Shadow is a fully intelligent interface for audio, video, and film transports. It provides the production and post-production industries with

Continued on page 192

compact audio console!



The INTERNATIONAL is an 8 channel audio mixer that fits in everywhere, especially where space is limited...announce booths, news studios, eng. editing suites and remote locations.... it takes only 5½ inches of vertical rack space.

Unit features slide fader w/cue on all eight channels.

Channel module features switchable mike/line operation.

Available in mono, dual mono and stereo models; 16 in-mono out, 8 in-dual mono out and 16 in-stereo out.

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Circle (133) on Action Card

new capabilities for complete, economical, multi-machine control.

Circle (287) on Action Card

WILLIAM BAL CORPORATION—A new design in heavy-duty shipping cases for video cameras and player/recorders was the highlight at this booth. Several cases are available. Also, the company has complete in-house design service for custom-case interiors.

Circle (288) on Action Card

BASYS—Peter Kolstad and company

were showing a full line, including News Fury, Cart Fury and Clip Fury. The Basys booth was a mob scene. In fact, all the newsroom computer vendors were enjoying heavy traffic.

Basys just sold a big system to KRON-TV in San Francisco, and apparently word of that sale has changed the company's image as a network-only vendor. In fact, Basys is developing some revised formats for KRON to meet the specific needs of a large-market TV station.

Circle (289) on Action Card

BEAVERONICS—Beaveronics markets three standard video production switching systems: the J&D 712, the BI-154, and the BI-156. With the appropriate options, the user can customize these switchers to meet specific requirements. In the case of the BI-154 and BI-156 systems, most of the options can either be ordered initially or added at a later date since, for many of them, removable control panel cover plates and wired rack frames easily accommodate this modular expansion when desired.

Circle (290) on Action Card

BELDEN—Belden is the sole distributor of Lee Filters color media. Lee Filters are made from a tough polyester base, and they offer excellent consistency. They will not only stand up to the hottest quartz lights, but will always retain the highest degree of optical clarity. Lee Filters are available for immediate delivery through Belden's dealers across the U.S. and Canada.

Circle (291) on Action Card

BELL HELICOPTER—Being shown in the Bell Helicopter was a TV system specially designed for operation in the noisy environment of an airborne helicopter.

Circle (292) on Action Card

BIRD ELECTRONIC—Bird introduced the Digital Hi-Power wide-range RF Calorimeter (1000 W to 80 kW). Conveniently portable, it measures RF power quickly with precision, after simple set-up. Other advantages include automatic processing of all sensor inputs, displaying of power directly without charts or calculations, and accuracy of $\pm 3\%$ of reading.

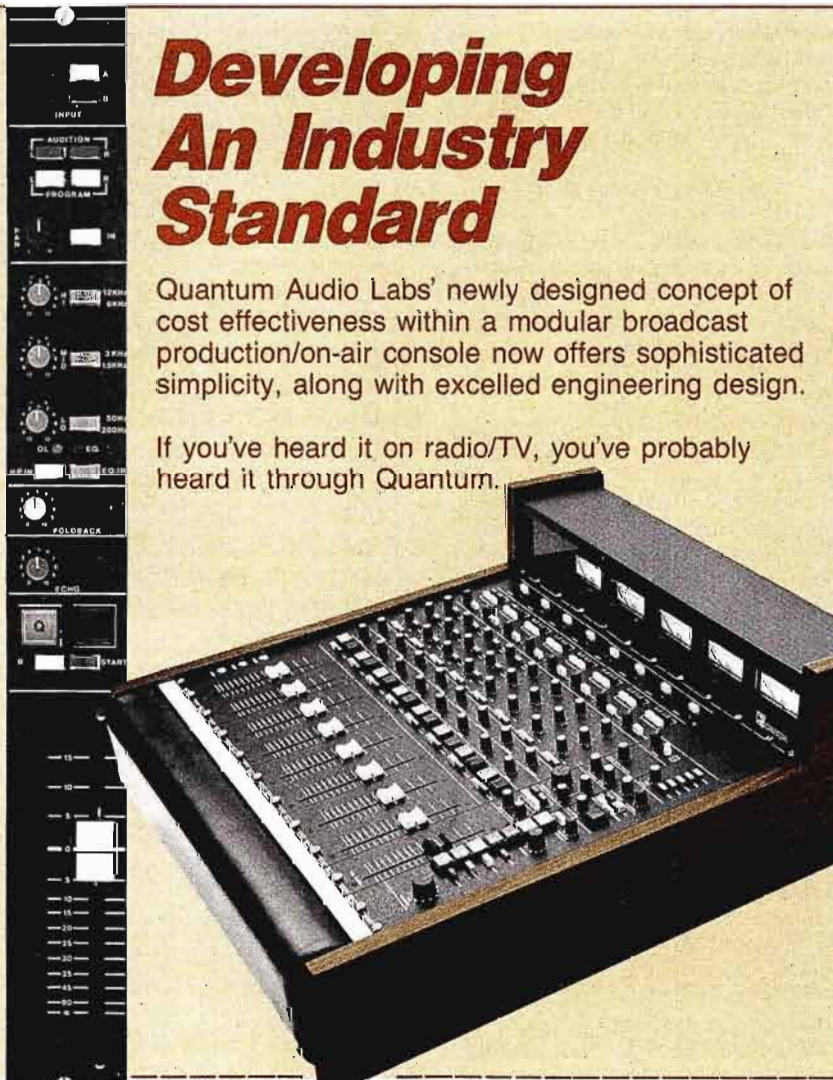
Circle (293) on Action Card

BRITISH VIDEOTEX & TELETEXT—The British have been among the leaders in the development of teletext and videotex systems, and this booth provided American broadcasters an opportunity see these systems first-hand. This display featured Logica's new Context teletext system, as well as Jasmin Electronics' new JTS4 teletext generation system.

Circle (294) on Action Card

BROADCAST AUDIO—There was no lack of excitement at this booth because Broadcast Audio introduced the System 14 digitally-controlled audio console. Digital slide faders and digitally controlled CMOS high-resolution logarithmic audio attenuators reduce signal paths, and do not exhibit the disadvantages associated with VCAs.

Also on display was the Broadcast Audio line of accessory amplifiers: the



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Quantum Audio Labs' newly designed concept of cost effectiveness within a modular broadcast production/on-air console now offers sophisticated simplicity, along with excelled engineering design.

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Circle (134) on Action Card

BA-235/435 monitor amplifier; the BA-6x4 distribution amplifier; and the BA-205/405 phono preamplifier.

Circle (295) on Action Card

BROADCAST SYSTEMS—Shown for the first time at NAB was the Broadcast Systems pre-wired audio patch panel. This new product greatly simplifies the proper installation of audio circuits to a patch panel removing hours of tedious on-site labor previously required in wiring up patch panels and "T" blocks, as well as providing a professional looking, easy-to-maintain audio jack field installation.

Circle (296) on Action Card

BROADCAST TECHNOLOGY—Highlighted was the new DC Controlled Equalizer. The EG3501 and EG3502, when used together, form a 10-band graphic equalizer. Either card can be used as a 5-band graphic with center frequency points 2 octaves apart. Both offer differential bridging inputs and are capable of driving 600-ohm loads differentially to +26 dBm.

Also new was the model VU3722, a VU and peak level indicator that consists of 20 LED segments in a 1.5-inch by 3.375-inch panel. The electronics that drive the VU3722 bridge a 600-ohm line differentially and can be

adjusted for 0 VU from -20 to +8 dBm.

Both the DC Controlled Equalizer and the VU and Peak Level Indicator—as well as other units in the line—are designed to be used with their new self-powered, rack mount enclosure.

Circle (297) on Action Card

BROADCAST VIDEO SYSTEMS—The EV4060 color signal monitor shown at this booth offers many attractive features, including full broadcast specifications; A-B inputs with buffered video output; and sharp, high-brightness trace. The EV4060 is switchable between waveform and vector display; mounts beside all popular half-rack pix monitors; and is ideal for mobile and studio applications. The EV4060 is available now, and is priced at \$4500 (FOB Buffalo, New York).

Circle (298) on Action Card

CMC TECHNOLOGY—This California-based company offers quad video head refurbishing services. CMC refurbishes Ampex Mark XX, Mark XV, Mark X, Mark III, and RCA High-Band. And, the company offers refurbishment of these units in either Alfesin or Ferrite materials.

Circle (299) on Action Card

CABLEWAVE SYSTEMS—Among their transmission lines, Cablewave was showing the FLC 7/8-inch foam coaxial cable that's been designed for lower attenuation than previous foam coax cables. These cables have low loss characteristics that are almost as low as those for air dielectric. Of course the FLC cables don't require pressurization.

Circle (300) on Action Card

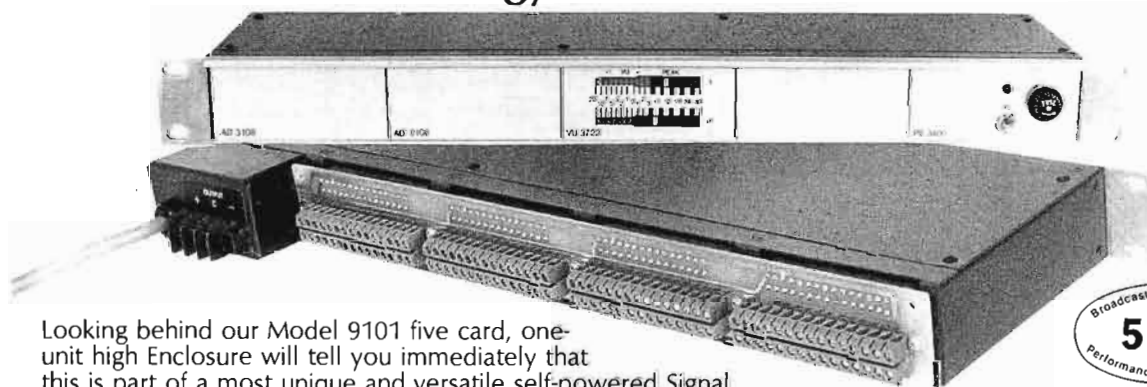
CENTRO—Vans aren't just vans any more. Centro is proof of that. When Centro builds a van they spend as much time on rebuilding the vehicle as they do setting it up for the electronics. Van ride and handling characteristics are modified to accommodate the new configuration the van will have when it is completely outfitted with EFP and ENG equipment. Centro also installs their own custom air conditioning system because the original van design does not call for cooling the equipment racks that will be installed.

Circle (301) on Action Card

JOHN CHILES—New at this booth was an on-board-type battery pack which complements almost all existing industrial and professional cameras not utilizing on-board packs. Variable voltage and amp ranges provide for the

Continued on page 194

At Broadcast Technology There's A Lot More Behind Us!



Looking behind our Model 9101 five card, one-unit high Enclosure will tell you immediately that this is part of a most unique and versatile self-powered Signal Processing System with barrier type terminals. By simply plugging in any of the BTI Series 3000 Cards, the system becomes a D.A., Switcher, an Intercom, an Equalizer, one or more Line, Power, or Pre-Amplifiers. The VU/Peak Level Indicators provide continuous in-line displays of VU and Peak information over a wide range of "0 VU" for all system configurations.

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Look at us, and then look behind us. You'll find a lot more at Broadcast Technology.



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Circle (135) on Action Card

proper adaptation to all camera makes and models. John Chiles also introduced a new modular-type battery system which can be custom engineered to meet individual requirements concerning amphere hours and voltage specifications.

Circle (302) on Action Card

CHRISTIE ELECTRIC—The 20-minute miracle was the talk of the Christie booth. They were referring to their "burping" charger-and-battery system that gives a full recharge in under 20

minutes with longer battery life for NiCad batteries. The burping is accomplished with reflex negative pulses interjected between the positive pulses. By doing this, Christie finds they can use larger charging currents all the way to a full charge, thus cutting down the charge time. They also displayed a new AC/DC KS1 camera-mounted power supply.

Circle (303) on Action Card

CLEAR-COM—System II intercoms feature increased station capability,

higher output levels, and a very stable side tone. The system will operate from 12 volts on remote assignments. They also showed a new custom line of double muff headsets, the CC-75B and the CC-240B.

Circle (304) on Action Card

COLORADO VIDEO—This manufacturer of video instruments for data acquisition, processing, transmission and display introduced Compressed Video, the transmission of still pictures over ordinary telephone circuits. The term "compressed video" refers to frequency or bandwidth compression, and the process involves stretching out the picture in time, so that approximately one minute is required to transmit a single image.

Circle (305) on Action Card

COLORGRAPHICS WEATHER SYSTEMS—The LiveLine System III from Colorgraphics is an ultra high-resolution weather graphics computer system featuring one of the highest picture resolutions in the industry: 760 x 480. This system combines in one package weather animations, the first national and regional radar pictures in full color, and automatic weather updates from WSI. Color digital weather satellite pictures are also automatically ingested and displayed.

The System III stores 100 graphics at any time on an 11-megabyte hard disc system. Over 4,000 color choices in high resolution are user-selectable. Automatic sequencing permits recall live on the air of any selection of graphics, radar, and weather satellite pictures.

The LiveLine System III is available for delivery 30 days after order. The complete system price is \$39,900, including delivery and training.

Circle (306) on Action Card

COLORTRAN—A new high-efficiency spotlight family was introduced by Colortran. Called the 1 kW and 2 kW Fresnels, the units represent a new advance in performance in compact, professional lighting equipment. The Fresnels are designed in manual- and pole-operated versions, and employ a new steel and aluminum construction to provide maximum cooling and structural strength.

Circle (307) on Action Card

COMPREHENSIVE VIDEO—Comprehensive's new ULTRA-BOOM allows the user to vary camera height, pan, and tilt simultaneously in one smooth, continuous motion. This is made possible by ULTRA-BOOM's counter-balanced parallelogram design



**Record, play and dub
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Circle (136) on Action Card

which is invaluable for getting "above the crowd", to achieve dramatic camera movement effects in commercial productions, to create "dolly shots" while remaining stationary, and many other applications. The ULTRA-BOOM mounts on tripod or camera truck.

Circle (308) on Action Card

COMPUTER GRAPHICS—IMAGES®, an Image Manipulation and Graphics Enhancement System, was one of the hits among the graphics crowd. IMAGES is a computer-based graphics system which allows an artist to draw directly in an electronic medium, maintaining the precision, comfort, and quality of conventional methods, while providing the speed, versatility, and processing power of a computer-controlled video medium.

Circle (309) on Action Card

COMTECH DATA—The emphasis at the Comtech booth was their satellite equipment lineup. Among a variety of products, the company showed their new model 650 satellite video receiver with a 24-channel LED readout, an agile cable modulator dubbed the CDM

1155 (it handles 59 channels), and their 5-meter satellite earth terminals for both audio and video receive installations. The dishes are easily convertible to circular polarization and/or 12/14 GHz.

Circle (310) on Action Card

CONRAC—Conrac showed a full line of professional broadcast color and monochrome video monitors for studio and teleproduction applications. Among the featured monitors was the 6100 Series master color monitors. These top-of-the-line monitors feature automatic stability of color temperature reference, precise colorimetry, and switchable comb filter. The series was designed to satisfy the most critical demands for signal evaluation in broadcasting and teleproduction.

Circle (311) on Action Card

CONTRO VIDEO—The hottest product at this booth was the new Lightfinger™, a microprocessor-based, multiple-machine, SMPTE time code editing system that is completely controlled through an interactive CRT. The system starts out as a two-machine editor, but is expandable into a data-

based multi-machine system that controls time base correctors, color correctors, audio mixers, and every other remoteable parameter required in high-level editing.

What's unique about Lightfinger is the CRT itself, which serves as the control panel. By utilizing the CRT control, Lightfinger gives the editor all of the capabilities of a computerized editing system, without the large, complicated, and cumbersome keyboard. Unnecessary functions are eliminated from the CRT, being displayed only as they are necessary for a particular editing procedure.

Circle (312) on Action Card

CUSTOM BUSINESS SYSTEMS—The CBSI broadcast business computer system is designed especially to handle the requirements of radio stations. It uses heavy-duty, business-quality, American-made Wang computers in either floppy-diskette or hard-disc configurations. Both versions can assemble and print a 24-hour program log for a busy station in less than 10 minutes, maintaining separation, proper dayparting, desired rotation, and

Continued on page 196

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High Purity, RF Signals, FM & AM Stereo and Audio Analysis.

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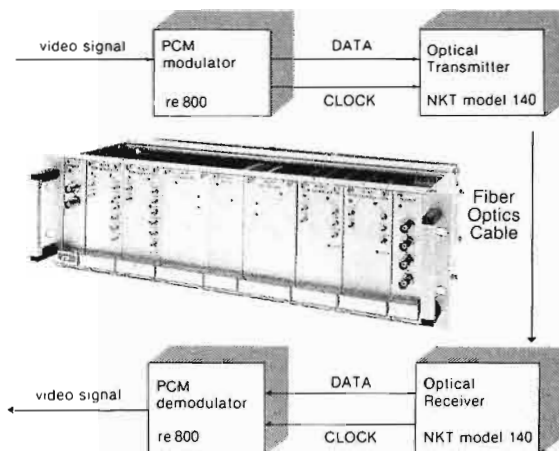
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Simple design means greater efficiency. Our versatile Model SFE-1 Automatic Splice Finder and Bulk Eraser combines *two* machines in *one*.

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NAB '82 Products

numerous priority levels. CBSI allows locally designed and easily changeable TAP plans and dayparts, spot clusters and fill orders, package billing, or rate per spot.

Circle (313) on Action Card

dbx INCORPORATED—The two newest additions to the dbx line were unveiled at the NAB convention: the model 610 Autographic Computerized Room Equalizer and the model 907 Stereo/Gated Compressor Slave.

The model 610 is a microprocessor-controlled room equalization system designed for professional applications like broadcast or recording studio monitor equalization and fixed or portable sound reinforcement system equalization. The model 610, using its own calibrated microphone, pink noise generator, real time analyzer, and digitally-controlled filters, can automatically equalize an area for flat or specified response in less than 15 seconds.

The model 907 Stereo Gated Compressor Slave is designed to work with the model 903 compressor/limiter. While the 903/907 combination offers all of the features of the 903, it adds a sophisticated high-speed release gate and true dual RMS-detected stereo compression.

Circle (314) on Action Card

DATAMETRICS—On display in this booth were SMPTE time code generators, readers, character generators, vertical interval tune code readers, and generators.

Circle (315) on Action Card

DATATEK—One of the features of the Datatek booth was the Identification of Source (IDS) system which is made up of a family of plug-in modules designed to insert identification codes into a line in the vertical interval of a television signal; to read the codes, generate alphanumeric characters, and key the source ID characters into the active portion of the signal for display on picture monitors. A deleter module can be used to delete the vertical code where desired. The family of IDS modules include the D-657 encoder, D-658 reader, D660 deleter, and D-659 alphanumeric display unit.

Circle (316) on Action Card

DELCOM—The hot product at the Delcom booth was the AE-3 auto effects interface. The AE-3 auto effects interface combines the editing capabilities of the Convergence ECS-103 with the special effects of the ISI 902 production switcher, resulting in greatly expanded post-production techniques. All equip-

ment retains its original abilities, as well as automatic transitions, while requiring no modification.

Circle (317) on Action Card

DIGITAL COMMUNICATIONS—M/A-COM DCC Inc. of Germantown, Maryland, presented the MAESTRO™ digital audio satellite receiver. This is a complete 3-meter satellite terminal designed for the reception of high-quality digital audio channels for radio networking. MAESTRO™ users can select from multiple 15 kHz circuits; all channels are useable for stereo. The 3-meter system is totally integrated and can be installed without any extensive ground preparation or technical know-how. Each system is made of a 3-meter antenna, receive feed, and pedestal; 120°K low noise amplifier; microstrip down converter; digital program terminal (DPT); and interconnecting cables and connectors.

Circle (318) on Action Card

DOLBY LABORATORIES—Dolby unveiled a new line of audio noise reduction modules for the Sony BVH 1000 and 1100, and Ampex VPR-2 1-inch VTRs. These modules incorporate improved record-play electronics with two channels of Dolby A-type noise reduction, into a single package requiring no modifications to the VTR.

Circle (319) on Action Card

DUBNER COMPUTER SYSTEMS—Animation systems were very popular at this year's show, and Dubner exhibited one of the impressive systems. The CBG-2 is a sophisticated computer graphics system that produces broadcast-quality color images and animation sequences. The CBG combines into a single system the power of a character generator, a painting system, a frame storage device, and a digital video effects generator.

A new feature of the CBG system is the ability to rotate an image with perspective around any point in space. The resulting image, when viewed as part of an animation sequence, gives the enhanced sense of depth and three-dimensionality generally associated with a digital effects generator.

The CBG-2 system is available immediately. The price of the system ranges from \$76,000 to \$100,000.

Circle (320) on Action Card

VICTOR DUNCAN—Victor Duncan is a full-service company, supplying a wide range of broadcast equipment. Their expert staff can work with you to design the system you need. And they also

Continued on page 198

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Circle (143) on Action Card

feature a rental department. For more information, contact one of their three offices, located in Dallas, Chicago, and Detroit.

Circle (321) on Action Card

EEG ENTERPRISES—Closed captioning was demonstrated in this booth. EEG has a deep line of captioning equipment that includes the encoder disc reader model MCZ-210, the tele-copy-floppy model MCZ-TC, and the dual computer model MCZ-DP. The company

also has a new line of video decoders and test encoders to go along with their Line 21 Simple Encoder.

Circle (322) on Action Card

EG&G—EG&G, Electro-Optics, based in Salem, Mass., displayed aircraft avoidance lighting systems for towers and other tall structures. These systems (high-intensity, capacitor-discharge, xenon-strobe type) are approved to FAA Advisory Circular AC150/5345-43.

Circle (323) on Action Card

EASTMAN KODAK—"FutureVision" was the theme of the two-story exhibit presented by Eastman Kodak. The ground floor featured Kodak's latest in film and video technologies, including the Eastman color high-speed negative film 5293/7293.

Due to the film's broad latitude, it can be exposed at very low light levels, creating many opportunities for originating programs at locations which were impractical or impossible to use before. It also presents opportunities for reduced lighting, power, and associated costs.

In the 16mm format, the high-speed film provides new magazine and documentary crews with opportunities for traveling lighter and moving faster, in addition to recording images at extremely low light levels.

Circle (324) on Action Card

ECHO SCIENCE—Echo Sciences' latest television tool, The Frame Bank, was introduced. Retaining all the same features of its predecessor, the EFS-1A, it has been made even more productive, reliable, and economical. Also introduced was the Image Maker, a high-band, color disc recording system that uses state-of-the-art electronics and an exclusive Discassette recording medium to perform a number of professional television production tasks from still frame storage to special effects. The Image Maker's functions include variable speed operation from freeze frame to real time, random access of as many as 512 frames on line, and the ability to preset 64 locations.

Circle (325) on Action Card

ELECTRO IMPULSE—This company displayed high-power RF loads, attenuators, baluns, and wattmeters.

Circle (326) on Action Card

EVENTIDE CLOCKWORKS—One of the more popular attractions at NAB '81 was Eventide's Timesqueeze™. And at this year's show, Eventide produced another winner with Timesqueeze Jr.™. The new Timesqueeze Jr. is an economical solution to time compression for television broadcasters, commercial producers, and filmmakers. The running time of audio, video, and film program material can be altered without editing or deleting material. Modular in design, this system consists of the PTC960 Precision Tape Controller and the H949 Harmonizer. And making time changes is simple: enter the percentage of time change desired on front-panel thumb-wheel switches on the PTV960, and Timesqueeze Jr. does the rest. When the H949 is not being used for time compression, the har-

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Circle (141) on Action Card

monizer, by itself, is a superb audio production tool—for pitch change, delay and reverb, flanging, repeat, and time reversal. Timesqueeze Jr. provides full 15 kHz bandwidth and 96 dB dynamic range. The system provides all the control signals that are needed for operation with most 1-inch VTRs, film chains, and audio tape recorders. Units to be controlled must be specified when ordering.

Circle (327) on Action Card

FARRTRONICS—The M81 intercom system was shown by Farrtronics. This system, designed for television or radio use, features self-contained amplifiers in each station; line-level, direct audio switching with a cross-connect point; and totally passive matrix. The system connects to matrix via standard 25 pair cable and connectors. Each station is powered separately, with this decentralized approach allowing for maximum reliability. Interfaces are available.

FILM/VIDEO EQUIPMENT—This company's featured products were the Wide Eye I and Wide Eye II wide-angle adapters for video lenses. The Wide Eye I has a conversion factor of 6.4, and the Wide Eye II has a conversion factor of 5.1. These adapters can, for example, change the focal length of a 10-140 zoom lens to either a 6.4mm or a 5.1mm wide-angle lens. They are excellent for use in news or production.

Circle (328) on Action Card

FINNTEK—This company, located in Riverton, Utah, displayed audio consoles, audio test generators, and video test generators.

Circle (329) on Action Card

FLASH TECHNOLOGY—This company specializes in obstruction lighting. Featured at NAB was an obstruction

warning beacon system controller for use as part of an FAA L-856 obstruction lighting system. The ElectroFlash™ Controller SC-205 controls flashing operation of beacons, monitors flashing operation of beacons, activates a remote failure alarm, offers optional output and test functions by addition of plug-in modules, and mounts in conventional rack cabinet.

Circle (330) on Action Card

GARNER INDUSTRIES—Garner premiered its 1100 tape erasers, featuring a one-pass, endless belt operation that allows complete erasures at the rate of 13 reels per minute. Made of heavy-duty aluminum, the Garner 1100 has an internal fan for heat dissipation and an automatic thermal cutoff switch to prevent overheating. The eraser carries Garner's one-year guarantee.

Circle (331) on Action Card

GENERAL ELECTRIC—Two new families of GE Quartzline® tungsten halogen lamps for Fresnel spotlights used in studio, theater, and display lighting were announced, both having longer life and/or higher light output, plus more constant color and light output throughout life than the incandescent lamps they can replace.

Circle (332) on Action Card

THE GERSTENSLAGER COMPANY—As the networks begin to replace portions of their remote fleets now 15 to 18 years old, Wayne Bayer in the Gerstenslager booth was looking forward to one of their better years for broadcast vehicles. Already under construction is one W-33798 curb-side expandable, semi-trailer style unit for NBC with four similar units for CBS in the engineering phase. Also in the works for CBS is one of the V-5138S modular body units in which cable operators have been showing a lot of interest.

Circle (333) on Action Card

GLENTRONIX—Introduced by Glentronix was the model PC12 precision impulse clock, designed to operate with Torpey Controls & Engineering model CLK-2 and CLK-5 clock drivers. Features of the model PC12 include low power consumption, super-quiet movement, and jump second hand. It is resettable without being removed from the wall, and is designed to operate on standard 12 V alternate polarity pulse systems.

Circle (334) on Action Card

GORMAN REDLICH—Updated versions of the company's EBS encoders and decoders were shown. All equipment is in stock and available for immediate delivery. Prices are as follows: model C.E.B. encoder/decoder, \$345; model C.E. encoder, \$250; model C.D. decoder, \$195; modified AM/FM tunable receiver, \$100. Encoders are FCC type-accepted.

Circle (335) on Action Card

GOTHAM AUDIO—Included in this display were Neumann microphones, EMT Broadcast equipment and reverberation units, Digiphon audio storage systems, Telefunken tape machines, Telcom noise reduction systems, TTM frames, and NTP meters.

Circle (336) on Action Card

GREAT AMERICAN MARKET—New at NAB was STARSTROBE 2, a new version of the popular STARSTROBE. STARSTROBE 2 features a rugged, attractive, contoured housing, and a durable, clear molded one-piece lens cap. The cap is secured to the body by two set screws so that it can be easily removed and colored with lamp dip or gel. The new unit also incorporates an electronic circuit that operates on most AC dimmers as well as the main line. The unit's variable speed rate is designed to strobe at approximately 60

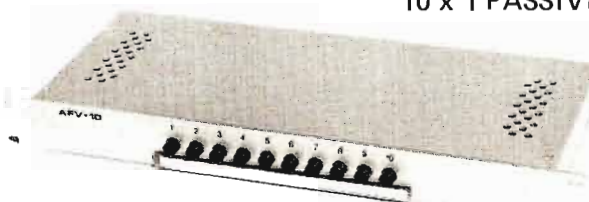
Continued on page 200

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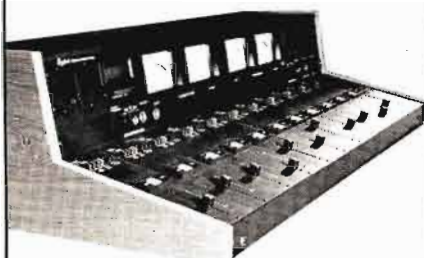
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NAB '82 Products

flashes per minute when 120 volts are applied. Lowering the voltage will slow the flash rate.

Circle (337) on Action Card

DAVID GREEN BROADCAST CONSULTANTS—Being shown in the David Green booth was the Composite Processor from Modulation Sciences. This unit delivers up to 6 dB more RMS modulation with less audible distortion per unit loudness than compressor/limiters. Even a station with the latest integrated compressor/limiter/stereo generator can add significantly to its loudness.

Circle (338) on Action Card

GREGG LABORATORIES—Gregg Laboratories has developed an all-new AM audio processing system which will solve bandwidth reduction problems, as well as loudness and audio quality problems faced by broadcasters. The 2540 AM audio broadcast processor is offered to the broadcaster as a complete AM broadcast audio processing system available in one complete package. The 2540 includes a broad-band gain control, band-limiting filters, specialized equalization, a symmetry synthesizer, a five-band compressor, a five-band clipper, low-pass filters, a transmitter phase/amplitude corrector, and two line amplifiers. The system may be divided in two using the optional main-frame to house the broad-band gain control in the event an STL is utilized. The 2540 is in stock and ready for immediate delivery.

Circle (339) on Action Card

HM ELECTRONICS—Well known in the field of wireless microphones, HME's Dynamic Expansion Systems were featured, including the 22E, 25E, 22EF, and the 25EF. The sound quality of these systems comes from a new approach to the compansion technique for noise reduction. Unique signal processing in the transmitters softly compresses the input signal, providing optimum modulation. A companion expansion circuit is included in the receivers, which precisely tracks the transmitter compression, resulting in an undistorted, virtually noise-free dynamic range of 100 dB.

Circle (340) on Action Card

HARRISON SYSTEMS—Well-known for their music recording consoles, Harrison Systems introduced the TV-3 series mixing console as a new solution to TV stereo sound. The TV-3 offers VCA grouping and automation in several variations as options.

Conductive VCA faders, full functions, automation control, three-band

equalization, filtering, and patch point and phase reversal switching are all available on the TV-3.

Harrison also unveiled the DS-1, a versatile, multi-channel audio-level metering system. Based on a powerful Z8000™ high-resolution color videographics processor, this new metering system offers a practical, cost-effective addition to a pointer or discrete bar graph audio-level metering system.

Circle (341) on Action Card

HOWE AUDIO/BCP—The Howe Series 2000 Phase 0 Chaser is an electronically controlled, precision, time-delay network which corrects for the relative phase-errors between the left and right channels of a stereo audio signal. This provides for optimum combining of left-plus-right signals for monaural compatibility. No other audio parameter is affected.

The Series 2000 features a dual-response, error-correction feedback loop having a long-term correction of phase of plus or minus 360 degrees and instantaneous correction to plus or minus 20 degrees. (This accurately characterizes stereo tape cartridge playback conditions). Measurements are at 10 kHz. Other features include a voltage-controlled time-delay network modeled to within 1% of "real world" time delay errors; and a wideband phase-error detector accurate to within 0.5% at all frequencies from 20 Hz to 20 KHz.

The Howe Series 2000 is available as a module for multiple use (either for individual tape playback systems or connected in series to achieve greater phase-correction range).

Circle (342) on Action Card

HUGHES HELICOPTERS—The Hughes' 300C/ENG helicopter drew the attention of crowds of exhibit viewers. Described as the most cost-effective ENG system available, Hughes offers it under the industry's best warranty.

Circle (343) on Action Card

IGM COMMUNICATIONS—IGM's brochure at their exhibit booth asked, "Are you ready for the new satellite music service?" Their answer: "We are." As sales representative Nick Solberg explained, "The equipment doesn't know what it's listening to," so it can interface with satellite, live assist, or other automation equipment.

There were no new showings by IGM, so the company concentrated on its reliable Instacart and the Go-Cart 24, 42, and 78 cartridge players, claiming the fastest access time in the automation industry.

Another feature at the IGM exhibit was the "Basic A" programming controller. Since the "Basic A" is programmed in simple English, it allows the station program director more flexibility than he has achieved with other automation controllers, the company says.

Circle (344) on Action Card

IMAGE VIDEO—This Canadian company offered several products, including routing switchers, master control switchers, machine assignment systems, and automation systems. Image Video custom designs switchers and control systems for television and radio.

Circle (345) on Action Card

INTERNATIONAL TAPETRONICS—This company returned with their standard line of audio tape recorders, but the Series 99 underwent some modifications since the last NAB convention, and the 99B includes these improvements: a bottoming solenoid that's easier to adjust; a less complicated, easier to adjust splice locator; lower THD and better response electronics; a higher slew rate; an improved erase coil; azimuth control routing; and a more accurate splice detector filter.

ITC claims theirs is the only totally compatible system for automatic azimuth/phase control. The 99B includes a built-in test generator that allows stand alone evaluation.

Circle (346) on Action Card

JBL (JAMES B. LANSING SOUND)—A variety of JBL monitor speakers for stations and recording studios were on display, and one of the featured products was their JBL 4411 control monitor. It's a three-way system with the drivers arranged in a closure cluster to permit close-in monitoring. The monitor includes a high-frequency dome radiator, mid-frequency driver, and a low-frequency driver. The 4411 could set the standard for today's compact studio monitors.

Circle (347) on Action Card

JAMIESON & ASSOCIATES—This Minneapolis-based firm offers consulting information, including development of business plans, A/V and media usage planning, and satellite communication; facility design services including the planning, design and equipment specification of broadcast and non-broadcast facilities, radio stations, training spaces, theaters, etc.; and consultative and production services in all major media formats.

JATEX—The Jatex VSEC-62TMX A/B roll editing controller has recently been

expanded to a full computer-assisted system that will operate on Jatex Scene-Dex time code or on SMPTE code. Regardless of the time code chosen by the purchasing agency, the VSEC-62TMX delivers such standard features as interface to any 1/2-inch, 3/4-inch, 1-inch, or 2-inch editing player/recorder with no VTR modification or kits; three separate and independent transport controls; self-contained VTR status display (no CRT needed); return to edit; random access search; auto tag; LAP time display; and more.

Circle (348) on Action Card

JEFFERSON DATA SYSTEMS—Jefferson Data was showing its enhanced System 90 traffic, sales, and accounting system. Emphasis is on fast delivery of data for quick response to availability requests and inquiries regarding accounts payable. Jefferson Data also showed a station-rep interface and an automatic switching interface for other manufacturers.

The folks from Charlotte, N.C., did not bring their ENP electronic newsroom system, although Bill Ballard was on hand to talk to the many interested parties. ENP is now being used to produce all news shows for WBTV, Charlotte.

Circle (349) on Action Card

KAMAN SCIENCES—Kaman has complete computer systems for television and radio in the areas of sales, traffic, billing, accounting, film inventory and amortization, cartridge and news inventory programs.

Circle (350) on Action Card

KINGS ELECTRONICS—Kings Electronics manufactures connectors, panels, and accessories for the broadcast industry.

Circle (351) on Action Card

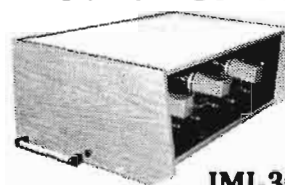
KLIEGL BROTHERS—The Entertainer introduced by Kliegl is a portable memory lighting control console which provides proportional patching of dimmers to 12, 24, 36, or 48 group masters, and up to 48 memories within a simple two-scene preset system. Playback functions provide flash button operation of memorized "looks," and chase and latch functions with level controls. Other features include simultaneous manual and group controller operation, and optional library storage and hard copy printer.

Circle (352) on Action Card

LTM CORP. OF AMERICA—Highlighted at this booth was the Micro Set Lighting System (MSL) 250 which

Continued on page 202

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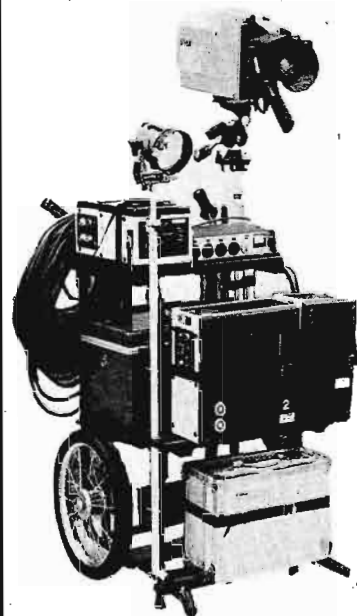


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utilizes fiber optics. The MSL 250 System is in three parts: the power supply (ballast), the light box, and the Cable Micro Lights (CML).

Circle (353) on Action Card

LW INTERNATIONAL—Exhibited by LW International was the Athena 6000 telecine projector for on-line and film-to-tape transfer.

Circle (354) on Action Card

LAIRD TELEMEDIA—Film chain and previously introduced character-generator products were on display in Laird Telemedia's booth, but the attention was centered on this year's new introduction, the 7200 COMMUNICATOR character generator. This is their first high-resolution generator with features such as 4 resident fonts out of 128 available, 35ns resolution, 32 resident colors out of 32,000 possible, dual 8-inch disc drives and a 100-row resident memory.

Circle (355) on Action Card

LARCAN COMMUNICATIONS—Larcan, formerly known as Canadian General Electric, came to NAB '82 with a new 30 kW low-band TV transmitter

and a new 25 kW FM transmitter.

Circle (356) on Action Card

LeBLANC & ROYLE COMMUNICATIONS—This is one of the largest companies in Canada engaged in the design, manufacture, and erection of communications towers. LeBlanc & Royle also installs microwave antennas, broadcast antennas, and transmission lines.

Circle (357) on Action Card

LEITCH VIDEO—Leitch Video manufactures NTSC video synchronizing equipment, NTSC video calibration test generators, video/pulse processing, equalizing, and distribution amplifiers, master clock systems, and PAL/SECAM equipment. Among their products is the SPG-130N, an NTSC source synchronizing pulse generator. The SPG-130N is used primarily as a slave generator at picture source locations.

Circle (358) on Action Card

LEXICON—The Lexicon model 1200 audio time compressor provides a significant new capability: it allows you to play back recorded audio tape or videotape and film faster or slower without altering the original pitch.

With this remarkable audio processor, you can speed recorded materials up or slow them down, and get broadcast-quality sound, free of distortion. The 1200 makes it "pushbutton easy" to shrink or expand recorded material to meet allotted time requirements. Time-consuming editing and expensive re-takes are eliminated.

Circle (359) on Action Card

LOWEL-LIGHT—Lowel-Light featured the new Lowel DP, a 1,000-watt focusing spotlight. This new fixture, an updated version of the popular Lowel D light, features a 7:1 (150 to 1,050 foot candle) focussing range, built-in receptacle for new Lowel DP umbrella and gel frame, improved 4-way barndoor system, and a comfortable new pan/tilt handle.

Circle (360) on Action Card

McINNIS-SKINNER & ASSOCIATES—The jubilant folks at McInnis-Skinner arrived at the NAB fresh from announcing the first sale of their NEWSCAN newsroom computer system to WBNS-TV in Columbus, Ohio.

The firm showed both NEWSCAN and their popular WEATHERSCAN system. The graphics for WEATHERSCAN have been improved, and the product is getting almost as much attention as a graphics system as it is in its primary role as a means to illustrate TV weather.

Circle (361) on Action Card

MATTHEWS STUDIO EQUIPMENT—New from Matthews was the Video Matth-Pak, an assortment of Matthews equipment designed for effective video lighting control. The Matth-Pak offers video lighting control to the professional with the maximum of ease. Three cases, portable and lightweight in design, permit the mobility required in today's location video lighting.

Also new this year were additions to the Matthews Tuplic Crane, a portable, lightweight crane system designed for video applications.

MAXELL CORP. OF AMERICA—Maxell introduced a high-quality one-inch broadcast tape that is expected to be widely used at production houses as well as by television station engineers. The new tape is characterized by high signal-to-noise ratio; low chroma noise; low dropout rate; high color stability; and excellent audio quality. The new Maxell tape will be available in a shelf box and plastic shipper. It will be ready in commercial quantities by mid summer and will come in three lengths: 30, 60, and 90 minutes.

Circle (362) on Action Card

MEAD DATA CENTRAL—NEXIS is a computer-assisted information retrieval service that provides instant access to the full texts of stories from leading newspapers, magazines, wire services, newsletters, and other information services. This firm was showing its enhanced on-line data retrieval system. Mead brought its new "VBIQ" terminal with soft-touch keyboard.

Circle (363) on Action Card

MICRO COMMUNICATIONS—Circular waveguide transmission line developed for UHF-TV was featured at the Micro Communications booth. Some noteworthy features of the new transmission line are greater efficiency than either coax or rectangular waveguide, and the cylindrical shape reduces drag coefficient which lowers the wind load.

Circle (364) on Action Card

MICRO CONTROL—The booth included a line of studio to transmitter links and subcarrier equipment. The STL system is a wideband composite/narrowband single and dual-channel capacity operating on 10 watts. The frequency models available include 900 MHz, 215-235 MHz, 300-325 MHz, 450-470 MHz, and 1.2 GHz. The subcarrier system includes the PLG-10 generator, and the PLR-10 receiver, using PLL circuitry.

Circle (365) on Action Card

MICRODYNE—New from Microdyne

BROADCAST COMMUNICATIONS/JUNE 1982

ANTENNA PHASING COMPONENTS SYSTEMS



GCR-501

GCST-1,2,3 & 5



GMJ-100

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Circle (157) on Action Card

was the model 1100-TVX X-24 B-2 electronically tuned satellite TV receiver complete with internal polarization switching and two audio demodulators. This frequency-synthesized, 24-channel receiver can be tuned manually using front panel controls, or remotely via a BCD interface. A front-panel digital display indicates the locally or remotely selected channel. Unique threshold circuitry (patent pending) is a standard feature that assures optimum FM demodulator C/N performance. Other features include automatic antenna polarization selection; digital channel display, and optional audio subcarrier demodulators. The receiver is also available with switchable IF bandwidths and automatic video polarity reversal.

Circle (366) on Action Card

MODULATION SCIENCES—Eric Small burst on the NAB scene in Dallas with a new company that was promoting and selling a legal composite processor. According to Small, it's a new type of processor which delivers up to 6 dB more loudness while still complying with FCC regulations, and it produces less audible distortion per unit loudness than standard limiter/compressors.

Circle (367) on Action Card

NADY SYSTEMS—The newest addition to their product line is the Nady Wireless Communicator System, comprised of three units: the RT-201, a miniature push-to-talk two-way transceiver that attaches to the body and allows hands-free communication between two or more parties; the T-201, a miniature transmitter with the same housing and circuitry as the RT-201; and the R-1000, a miniature pocket FM receiver that is compatible with the RT-201 and T-201 systems.

Circle (368) on Action Card

NORTRONICS—Unveiled this year was the PF-208 Professional Head Degausser. It is designed with a super high-flux coil-core to demagnetize heavy duty 2-inch tape heads and guides. With a peak magnetic field strength of 1000 gauss, the PF-208 is one of the most powerful handheld degaussers currently on the market.

Circle (369) on Action Card

FRED NUDD COMPANY—This company designs, manufactures, and installs broadcast and communications towers and monopoles. Fred Nudd also provides tower repair, modification, and engineering services.

OAK COMMUNICATIONS—This California-based company offers

subscription television equipment, technology, and expertise to UHF station owners across the U.S. The licensing agreement calls for Oak to install, service, and maintain the STV equipment; prepare technical and business manuals; train STV operators and servicemen; and provide additional technical know-how as required.

Circle (370) on Action Card

O'CONNOR ENGINEERING—Displayed with O'Connor's camera support equipment, the Hydro-Ped model 102-B gives the cameraman several advantages over traditional tripods. The Hydro-Ped levels and locks hydraulically on any terrain up to 40°. The center column is hydraulically adjustable from 30 to 60 inches, and is hydraulically balanced so that it can handle its own weight and the weight of the camera and head up to 100 pounds on the column. The Hydro-Ped weighs only 29 pounds and folds to 30 inches long with a single centered handle.

Circle (371) on Action Card

PEP INC.—PEP demonstrated their new line of premium ENG power packs featuring the heavy-duty and lightweight on-board batteries, and the new 3-pound HAC3 on-board adapter.

Circle (372) on Action Card

QEI—The QEI model 691 FM monitor offers several features in a single 10½-inch-high, standard rack-mount unit. When combined with a single-trace oscilloscope, the model 691 becomes a spectrum analyzer. Front panel switches allow selection of either 240 kHz or 600 kHz bandwidth in the spectrum analyzer mode. A vector display function is also available for stereo phase adjustments and continuous monitoring of the off-air signal. Bessel null calibration of the monitor is easily accomplished with the built-in calibration oscillator and low-frequency oscilloscope.

Circle (373) on Action Card

QSI SYSTEMS—At the heart of the QSI Demod 400, exhibited at NAB, is a QSI-designed sync generator with switch-selectable original or replacement sync, burst, and blanking. The user has full control of burst gain and phase, sync level, and set level in process mode. Vertical blanking ends at line 10 for preservation of any test signals or data transmitted with original programming. The price of the Demod 400 is \$1895.

Circle (374) on Action Card

R-COLUMBIA PRODUCTS—New from R-Columbia Products was a wireless

base station that interfaces existing hard-wired intercom systems to FM wireless intercom headphones. The new System 50 base station provides full duplex intercommunication between a producer, director, etc. (wearing a R-Columbia FM wireless intercom headphone) and camera, lighting, and/or sound equipment operators who communicate via existing hard-wired intercom systems like Clear-Com, RTS, etc. Within its range (150 yards), the System 50 provides crystal-clear two-way voice communication between studio, stage, and/or set management personnel, and technical operators without using wires.

Circle (375) on Action Card

RANK PRECISION—Scotty Campbell of Rank Precision was very pleased with booth traffic this year and with the response to two new options for their popular Mk III flying spot film scanner: an X-Y Zoom and a Varispeed control.

The X-Y Zoom extends production versatility by allowing the user to alter the position and size of the picture being shown. Zoom range is 4:1 in and out. Anamorphic and non-anamorphic controls are provided with preset format ratios for 1.85:1, 1.66:1 and variable. A joystick adjusts position, and automatic blanking to the image position is provided. The TOPSY automation system can program X-Y Zoom functions automatically.

Varispeed gives scanner users the ability to precisely alter film running times. It provides speed control in 64 discrete steps from 16 fps to 30 fps with fixed speeds of 18 fps and 24 fps in the 525/60 version. Interface to audio pitch correctors is provided.

Circle (376) on Action Card

SAKI MAGNETICS—Saki supplies ferrite heads for Ampex, Scully, Studer, and most professional recorders.

Circle (377) on Action Card

SCIENTIFIC-ATLANTA—This booth was about what you'd expect, but S-A was pushing digital audio this year, and they did it with a 3-meter earth station. This earth station is designed for reception of media information broadcast via satellite using digital data techniques. It's been designed to receive high-speed TDM digital data at about 9 mb/s, demodulate, and then multiplex the data into the desired audio and data channels. That's new.

Circle (378) on Action Card

SCRIBE RECORDERS—Last fall Frank Beaman surveyed RTNDA Conference delegates asking what radio newsmen

Continued on page 204

needed in a rugged, reasonably-priced cassette recorder. Beaman brought his prototype to the NAB and asked newsmen to tear it apart. He went home with a notebook full of suggestions and a healthy collection of orders. The Scribe is a tough, no-frills cassette recorder, which drops into a sturdy lined canvas case which has big side pockets for accessories. The Scribe will weigh less than 3½ pounds and features single-button recording and talk-over-tape. The connections are sturdy XLRs for input and output. Production was scheduled to begin just as soon as the post-NAB modifications were worked out.

Circle (379) on Action Card

SHINTRON—New from Shintron was the model 515 FonTex Graph-Titlet, a software-base, microprocessor-controlled graphic titler. The model 515 features microprocessor-based multiple fonts with 20 nanosecond resolution, color graphics, color background, color characters, automatic page and line centering, expandable floppy disc memory, character over input video, and self-contained enclosure with an edit monitor and disc memory. According to the company, deliveries will begin this month.

Circle (380) on Action Card

SKOTEL—Time code readers and generators were on display, including portable models. Interesting in their new line was the VITC (vertical interval time code) approach. According to Skotel, the content is compatible to longitudinal time control and control format. It includes even/odd field identification, and it mounts internal to and is powered by your time code reader or generator.

Circle (381) on Action Card

SOUND TECHNOLOGY—The newest product to be added to the Sound Technology line is the model 1501A Balancing System. This is a dual-channel device that interfaces any single-ended signal generator and measuring system to a balanced and/or floating device under test. It is specifically designed for use with the 1500A tape recorder/audio test system.

Circle (382) on Action Card

SPHERE ELECTRONICS—The 1604 Satellite Mixer is available from Sphere, featuring 16 inputs, 4 outputs, and 7 inches of rack space, in addition to mike or line input selection, and channel on/off LED. Options include stereo modules to allow panning between any two selected buses, and VU meter panel

for the 4-bus outputs.

Circle (383) on Action Card

STATION BUSINESS SYSTEMS—Station Business System featured the BAT 1700 business, accounting, and traffic system for radio and television stations. The BAT 1700 System is an in-house, minicomputer-based system which integrates order entry and availabilities, scheduling, invoicing, and accounts receivable functions along with producing on demand a broad range of management reports and analyses designed to increase station productivity and profitability.

Circle (384) on Action Card

STOREEL—Storell displayed a wide assortment of storage racks and cabinets.

Circle (385) on Action Card

STRAND CENTURY—Strand Century introduced an addition to the Mantrix/CD80 Pack portable dimming family: the CD80 6KW Pack has 6-6000-watt dimmers for high-wattage loads and is available with optional Cam-lok connectors for portable applications or may be wall-mounted for permanent installations.

Circle (386) on Action Card

SYLVANIA/GTE—New from Sylvania was the Big Beam™ 1200 PAR 64 5600°K Studio Lamp. Designed for use as a daylight fill-light for film, television and theatre, the medium arc length light source has an initial color temperature of 5600°K. Fewer lamps are needed to provide desired illumination levels, and the cooler-operating properties of the Brite Beam result in significantly less heat output in the light beam and the fixture.

Circle (387) on Action Card

TDK ELECTRONICS—TDK showed a full line of audio and video cassette products for industrial and broadcast applications, including professional-use VHS videocassettes, and test and calibration audio cassettes.

Circle (388) on Action Card

TELEVISION EQUIPMENT—Elcon Tape Cleaner/Profiler is a new machine dedicated to the evaluation of 1-inch videotape. This machine retains the popular cleaning and evaluating features of Elcon's 2-inch/1-inch model, and incorporates a modified display and printout which were developed for the ¾-inch cassette unit.

Circle (389) on Action Card

TELEVISION TECHNOLOGY—Traffic was good at the booth where translators

and amplifiers were in the spotlight. Highlighted was the TTC model T-99 solar-powered translator series. The translator comes in a 1-watt FM version, and a 1 or 5-watt VHF TV version. Included is a solar panel, storage battery, and an optional system regulator. CTC translators are available in FM, UHF, and VHF models. Their highest powered rig is the XL 1000 UHF translator.

Circle (390) on Action Card

TENTEL—Tentelometer® Tape Tension gages measure dynamic tape tension to diagnose problems in videotape recorders. Models are available for 2-inch quad; 1-inch Type C and B; and ¾-inch U-matic, Beta, and VHS. Prices range from \$279 to \$740. Delivery is normally 2 to 3 weeks ARO.

Circle (391) on Action Card

THERMODYNE—This company manufactures equipment shipping and field cases, and their latest emphasis is on what they call the Rack Pack. You can install your field equipment in it, and at the site of a remote or EFP assignment, you pop off the covers and the protected equipment is already in the rack and ready to go.

Circle (392) on Action Card

TIFFEN—The Universal Matte Box from Tiffen consists of five parts: the rotating body assembly, two filter frames for holding 3x3 inch filters, the front mount with the rubber lens shade, and a Series 9 insert ring.

Circle (393) on Action Card

TRUE TIME INSTRUMENTS—From the True Time Instruments division of Kinermetrics came a display of WWV time receivers, satellite synchronized clocks, remote time displays, WWVB time phrase comparator, WWV antennas, HF time and frequency receivers, and even WWV antenna kits.

Circle (394) on Action Card

URSA MAJOR—New enhancements on the 8X32 digital reverberator were unveiled by Urso-Major. These enhancements include an optional remote, and capability for computer-automated mixdown interface. Also, early reflections, initial reverberation, decay time, and low and high frequency decay are pushbutton adjustable within each of four basic programs. The system will synthesize reverberation over a wide range of natural and unnatural spaces, including decay times up to 20 seconds.

Circle (395) on Action Card

VIDEOMAGNETICS—Videomagnetics,

which specializes in head refurbishing services, introduced a warranty extension on VMI strong-back ferrite heads to 36 months retroactive to June 30, 1981. VMI also announced that they will be refurbishing and repairing 1-inch and ¾-inch heads by mid-year.

Circle (396) on Action Card

WILKINSON ELECTRONICS—A long-time builder of AM and FM transmitters, including low-power solid-state rigs, Wilkinson showed a lineup of transmitters with the new, modern look. Known for their reliability, the transmitters on display included 10- to 250-watt rigs in the low-power FM solid-state class, and four rigs in the 500- to 2500-watt FM group (using solid-state exciters and power supplies). In the FM high-power FM line, Wilkinson rigs range from 5,000 to 30,000 watts. The AM solid-state rigs hit 125 and 250 watts, while the higher power models handle 1, 3, 5, and 10 kW.

Circle (397) on Action Card

WOLD COMMUNICATIONS—Wold was promoting its Woldcom transportable uplinks. Wold has acquired 4 transponders on Westar IV to expand its newsfeed and syndication services. The satellite company was also promoting the Wold Satellite TV Network, which distributes programming for syndicators.

Circle (398) on Action Card

WOLF COACH—This company custom builds mobile units for the broadcast, production, and cables industries. Wolf Coach can handle anything from basic vans for single-camera local access programming, to 42-foot trailers for complete multi-camera production.

Circle (399) on Action Card

ZENITH RADIO—On display in the Zenith booth were multi-channel STV and tiered teletext decoders.

Circle (400) on Action Card

The following companies also exhibited at NAB '82. For more information on these companies, circle the appropriate number on the Action Card in this issue.

ADC PRODUCTS—Enclosed video jackfield. (Circle 228)

ADVANCED DESIGNS—Weather presentation system. (Circle 160)

ADVANCED MUSIC SYSTEMS—Digital reverberation system. (Circle 161)

PETER ALBRECHT—TV studio machinery control. (Circle 162)

ANVIL CASES—Full line of heavy-duty rack-mount cases. (Circle 229)

APHEX SYSTEMS—Aural exciter that restores presence, clarity, naturalness,

and definition to sound. (Circle 164)

ARBEN DESIGN—Set design. (Circle 163)

TOBY ARNOLD & ASSOCIATES—Music formats.

AUDICO—Videocassette tape loader/reloader designed for loading tape directly in U-matic, VHS, and Betamax cassettes. (Circle 246)

AUDIO KINETICS—Synchronizer for controlling up to three video/audio tape transports. (Circle 165)

AUDIO TECHNICA—Phantom power shotgun microphone. (Circle 230)

BIW SYSTEMS—Complete line of optical fiber cables. (Circle 166)

BILL BLACK & ASSOCIATES—Turnkey newsgathering vehicle, the Mobile-Cam One. (Circle 167)

BROADCAST CARTRIDGE—Audio cartridge reconditioning. (Circle 231)

BRYSTON MANUFACTURING—Power amplifiers. (Circle 227)

CBS RADIO—New network for 18-34 market. (Circle 169)

CAMBRIDGE PRODUCTS—Fast-fit connector. (Circle 232)

CANFORD AUDIO—Conductive thermo-plastic shielded microphone cables. (Circle 170)

CELESTIAL MECHANIX—Radio promotion services. (Circle 233)

CENTURY 21—Automation equipment and music formats. (Circle 171)

CLYDE ELECTRONICS—Full line of broadcast equipment, including Alpha modular mixer. (Circle 172)

COLUMBINE SYSTEMS—Computer packages to handle all business functions, plus music inventory and rotation, sales analysis, media inventory, and more. (Circle 247)

COMPUCON—Engineering services. (Circle 173)

COMPUTER OPERATIONS—Real-time animation system. (Circle 174)

CONCEPT PRODUCTIONS—Program formats designed for use on automated stations. (Circle 175)

CONTINENTAL RECORDINGS—Jingle packages for radio. (Circle 176)

COOL LIGHT—Mini-Cool 250-watt light. (Circle 177)

PETER DAHL COMPANY—High-efficiency modulation transformers and reactors for 1 kW and 5 kW AM transmitters. (Circle 234)

DATA COMMUNICATIONS CORP.—Business computer system. (Circle 235)

DATUM—Model 9400-630 VBI data encoder and associated reader. (Circle 178)

DE WOLFE MUSIC LIBRARY—Library of sound effects for production uses. (Circle 236)

DRAKE-CHENAULT—Radio formats. (Circle 179)

DYNAMIC TECHNOLOGY—Datalite lighting control equipment, remote

control and data transmission equipment, and distribution equipment. (Circle 180)

E-N-G CORPORATION—ENG Suburban truck and ENG/EFP van. (Circle 237)

ECHOLAB—SE-3 production switcher. (Circle 238)

EIGEN VIDEO—Videograph, an artist-oriented illustration and animation system for video and slide production. (Circle 248)

ELECTRO CONTROLS—A new patching system using custom keyboard and CRT terminal to assign and display control-dimmer cross connections. (Circle 249)

EMCOR PRODUCTS—The 10 Series of cabinets. (Circle 181)

ENVIRONMENTAL CONTAINER SYSTEMS—The ECS transportable electronics enclosure. (Circle 182)

EXCALIBAR INDUSTRIES—VTR case. (Circle 183)

FIBERBILT—Carrying and shipping system for photographic equipment. (Circle 250)

FIRSTCOM—Production and commercial library. (Circle 184)

FITZCO SOUND—Professional mixing console for large-scale reinforcement and remote applications. (Circle 251)

FORT WORTH TOWER—Guyed and self-supporting towers, and factory-fabricated communications buildings. (Circle 252)

FOSTEX—Recorder/reproducer featuring 8 tracks on ¾-inch tape. (Circle 253)

GENERIC COMPUTERS—Poly Morphic System 8810. (Circle 185)

GOLDEN IMAGE—Syndicated TV commercials for radio stations. (Circle 254)

GRUMMAN AEROSPACE—Combination synchronizing generator/processing amplifier for a subcarrier/horizontal sync-timed broadcast facility. (Circle 186)

HARDIGG INDUSTRIES—Package cushioning products. (Circle 187)

IMMAD BROADCAST SERVICES—Turnkey broadcast systems. (Circle 255)

INNOVATIVE TV EQUIPMENT—Fluid heads featuring adjustable counter-balance. (Circle 188)

INTERACTIVE MARKET SYSTEMS—Computer time-sharing services. (Circle 189)

INTERACTIVE SYSTEMS—Super Edit, a complete editing system operating program. (Circle 190)

INTERAND/TELESTRATOR—Telestrator 440, a new product designed for real-time television programming plus quick pre- or post-production anima-

Continued on page 206

tion and graphics effects. (Circle 191)

INTERFACE DATA SYSTEMS—Model 2000 station automation system and new machine control unit. (Circle 192)

INTERFACE ELECTRONICS—Battery-operated portable professional 8-in/2-out stereo mixer. (Circle 193)

JENEL CONSULTANTS—Video Frame Storer which permits inexpensive storing of color video signals on removable discs. (Circle 239)

JENSEN TOOLS—JTK-85 installer's tool kit. (Circle 194)

KLARK-TEKNIK—Stereo profanity delay unit. (Circle 195)

KOBOLD LICHT—DLF 200 S Unit featuring lockable pivoting bracket which permits inclination within 270°. (Circle 196)

LEADER INSTRUMENTS—NTSC vectorscope. (Circle 258)

LEMO—Connectors for broadcast and recording applications. (Circle 256)

LIBRA PROGRAMMING—Computer broadcast system for traffic, sales, general ledger, and payroll. (Circle 197)

LIGHTNING ELIMINATION ASSOCIATES—Protective device that guards your sensitive equipment against all types of powerline irregularities. (Circle 259)

LIPSNER-SMITH—CF-100 ultrasonic film-cleaning machine. (Circle 240)

LIVE SOUND—Syndicated radio formats. (Circle 198)

LOGICA—Teletext system based on the BBC Ceefax system and Flair videographics system. (Circle 260)

MAGNASYNC/MOVIOLA—Film-to-tape unit. (Circle 261)

MAGNUM TOWERS—Fabrication of radio and TV towers, and related hardware. (Circle 241)

THE MANAGEMENT—Computer software programs for radio station traffic and billing. (Circle 242)

MINOLTA—Luminance and chroma meters. (Circle 199)

KEITH MONKS AUDIO—Record cleaning machines. (Circle 262)

MOTOROLA—Microprocessor-controlled, portable base/repeater featuring 35 watts in repeat mode. (Circle 263)

MUSIC DIRECTOR PROGRAMMING SERVICE—Complete line of Joel Whitburn's Record Research Books. (Circle 200)

NOVA—Tape cleaner that fits all formats and all videotape recorders. (Circle 264)

NTI AMERICA—Animation system which converts analog signals into digital and stores the code on a disc. (Circle 257)

NAUTEL MAINE—Modular 5 kW AMPFET 5 AM broadcast transmitter. (Circle 201)

NETWORK PRODUCTIONS—Whisper Disc, a new form of record with brighter, clearer, and quieter sound. (Circle 202)

NEUTRIK—Professional connectors for broadcasters.

NYTONE ELECTRONICS—Flying Spot Scanner System. (Circle 203)

OLESEN—The Wizard computerized lighting control console. (Circle 204)

PACE—Micro portable desoldering/soldering system. (Circle 205)

PARSONS—Cases with recessed wheels and handles. (Circle 243)

PETERS PRODUCTIONS—Music formats. (Circle 206)

THE PHOEBUS CORPORATION—Ultra Quartz lamp. (Circle 207)

PORTA-PATTERN—Test charts and chart systems for studio, EFP, and ENG applications. (Circle 265)

POWER OPTICS—Synchronized background equipment for chroma key. (Circle 266)

PROCART—Audio cartridge that exceeds type AA cartridge standards. (Circle 267)

PUBLISON AUDIO—Stereo audio computer. (Circle 208)

Q/TV/TELESYNC—Cueing equipment, console transport, and conveyor

transport for studio and on-location prompting. (Circle 268)

QUAD-EIGHT—Consoles designed for TV post-production audio enhancement. (Circle 269)

RADIOCOM—Computer system for handling all business functions. (Circle 209)

ROSCO LABS—Fog/Smoke Machine for theater and television applications. (Circle 270)

HOWARD W. SAMS—New catalog, *Silent Salesman*, that allows you to present your total product line. (Circle 271)

SOUNDCRAFT—Stereo mixer. (Circle 272)

SPECTRUM—Analization and design of high-quality communications systems. (Circle 210)

STANTRON—Rack cabinets, console cabinets, turret cabinets, bench cabinets, and accessories. (Circle 244)

STEPHENS ELECTRONICS—Professional recorder/reproducers. (Circle 222)

SYMETRIX—Hybrid telephone interface. (Circle 211)

SYSTEM ASSOCIATES—Brokers for used broadcast equipment. (Circle 212)

TAMRON—Lens for 3/8-inch color separation prism-type cameras. (Circle 213)

WILLIAM B. TANNER CO.—Music IDs and background music. (Circle 214)
TECHTRAN INTERNATIONAL—This company featured a portable video unit for sales and training presentations. (Circle 215)

TELESCRIPT—Terminal-prompter combination which can be applied to newsroom word processing. (Circle 216)

TELFAX—Miniature telephone remote unit. (Circle 217)

TENNAPLEX SYSTEMS—UHF combiner package for satellite receive/terrestrial rebroadcasting. (Circle 218)

THEATRE SERVICE—Cyclorama curtains. (Circle 219)

THEATRE VISION—Turnkey studio installations. (Circle 220)

TRIDENT USA AUDIO—Expandable audio consoles. (Circle 221)

TWEED AUDIO—Custom consoles for radio and television. (Circle 168)

UNI-SET—Studio and news set designs. (Circle 223)

UNITED RESEARCH—Solid-state erase/play/record amplifier. (Circle 224)

UTILITY TOWER—Tower sections. (Circle 225)

VLAHOS-GOTTSCHALK—Video matting. (Circle 226)

WEATHER STATION—Complete television weather program with high-quality color animation. (Circle 245)

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SBE MONTHLY LOG

ARIZONA:

PHOENIX (Chapter 9)—Dalis Electronics sponsored their Ninth Annual Pizza & Beer Party for the chapter members. New officers are Bill Beckner, chairman; Bill Strube, vice-chairman; and Pat Porter, sec/treas.

CALIFORNIA:

EUREKA (Chapter 71)—James Thibodeaux of Videomedia/SED demonstrated and discussed the Hitachi VKC-1000 CCD color camera.

FRESNO (Chapter 66)—Mac Mehafey of RCA demonstrated and discussed the TK-86 and TK-710 ENG cameras.

LOS ANGELES (Chapter 47)—John Sullivan of Econco Tube Rebuilders led a discussion on the techniques of lowering the cost of staying on the air (using rebuilt tubes, of course). Also, members discussed the highlights of the NAB convention in Dallas.

NORTH VALLEY (Chapter 83)—Jim Wilson of Alamo Communications in Anderson gave an overview of the communications equipment and theory in use today by many services, and explained proper installation and service on the equipment.

ORANGE COUNTY (Chapter 77)—Ed Gordon, national SBE board member, provided a detailed update on SBE's national doings and presented the new promotional videotape that will be available to all chapters from the national office.

SACRAMENTO (Chapter 43)—Dave Ericksen, of the FCC field office in San Francisco, talked about some of the effects that deregulation will have upon broadcasters—not the least of which is the need for local frequency coordination. New officers are Dave Porte (KX-TV), chairman; Ken Blue (Sacramento State University), vice-chairman; and Kent Randles (KXOA), sec/treas.

SAN FRANCISCO (Chapter 40)—A review of the 1982 NAB convention technical sessions and equipment exhibits was conducted.

COLORADO:

DENVER (Chapter 48)—Bill Harris discussed the SBE Certification Program plus the entry-level "Broadcast Technologist" and explained that details on this level have been mailed to all SBE chapters. New officers for Chapter 48 are Chuck Waltman (KIMN-KYGO), chairman; Paul Montoya (KBPI), vice chairman; and Gary Nakashima (KFTM-KBRU), secretary-treasurer.

CONNECTICUT:

CONNECTICUT VALLEY (Chapter 14)—Bill Bansavage and his staff conducted a tour of their plant in Manchester. Multi-Circuits produces circuit boards of all types and is the fourth largest producer of boards in the country.

FLORIDA:

JACKSONVILLE (Chapter 7)—There was a presentation by US JVC (southeastern division), made possible by Southeast Electronics and Gray Communications. Several ENG-type cameras were demonstrated, as well as a new model of a VHS recorder with stereo audio.

ILLINOIS:

CHICAGO (Chapter 26)—Bill Carpenter of Ampex presented a program on "How Cost Effective Technical Changes Allowed the Introduction of a Lower Cost 1-Inch Type C Recorder, the Ampex VPR-80." This recorder is designed to be a more economically priced machine than the VPR-2 series, but more useful than the ¾-inch machines.

QUAD CITIES (Chapter 65)—Bob Henson of Lenco gave a presentation on subcarrier to H-phasing of RS-170A and the Lenco PVS-430 Videoscope.

INDIANA:

INDIANAPOLIS (Chapter 25)—Bob Griffiths of Telemet discussed "Fiber Optics Applications for Broadcasters" with a demonstration over 300 feet of line. New officers are Steve Brant (Midwest Corp.), chairman; Doug Garlinger (WHMB-TV), vice-chairman; Norm Birnbaum (WTHR-TV), sec/treas; and Otis Robinson, Jr. (WRTV), re-elected treasurer.

KANSAS:

KANSAS (Chapter 3)—Gene Beaver of the Sedgwick County office of Civil Preparedness conducted a tour of the police and sheriff radio dispatch area and described the operation of the 911 emergency phone number.

MARYLAND:

BALTIMORE (Chapter 46)—Leonard Kahn, president, Kahn Communication, gave a presentation on AM stereo and summarized the various marketplace systems offered. He also discussed the technical developments of AM stereo receivers both on and off the drawing board.

MICHIGAN:

SOUTHEASTERN MICHIGAN (Chapter 82)—Ed Portman of Detroit Edison described how they are set up and the types of transmission systems used. He also discussed procedures during power outages and how to interface with Detroit Edison lines. This was a joint meeting with AES.

MINNESOTA:

MINNEAPOLIS/ST. PAUL (Chapter 17)—A joint meeting with the local chapter of the Audio Engineering Society featured a Nortronics presentation of the manufacture of tape recording heads, along with discussion of the pros and cons of various head types. Bruce Larsen of Nortronics conducted a tour of their manufacturing facility.

MISSOURI:

KANSAS CITY (Chapter 59)—Phil DeSantis of Lexicon gave a presentation on "Audio Time Compression & Expansion." He demonstrated the operation of the Lexicon model 1200 audio time compressor working in conjunction with a 1-inch Type C video recorder.

ST. LOUIS (Chapter 55)—Chris Kreger & Joe DeAngelo of Harris Broadcast Products discussed their new line of AM transmitters. The transmitters include a fully automatic control and diagnostic system that is operated by two microprocessors.

NEW YORK:

CENTRAL NY (Chapter 22)—David Schnirman, audio technician working for Syracuse State (Theatre Group), discussed and demonstrated the use of Pressure Zone Microphones (PZM) manufactured by Crown International.

NEW YORK CITY (Chapter 15)—Review of the NAB convention was conducted. New officers are Herb Squire (WHN Radio), chairman; Richard Silvera, vice chairman; and David Bain, treasurer.

NORTHEAST NY (Chapter 58)—Tom Oliviero and Bert Hilaire of Chyron discussed the operation of the latest Chyron character generation equipment.

OHIO:

CENTRAL OHIO (Chapter 52)—William L. Ammons of Broadcast Electronics, gave a slide presentation and talk on FM exciters; he also discussed practical RFI elimination techniques for the broadcast engineer. New officers

Continued on page 208

are John Battison, chairman; John Cooper, vice-chairman; and Rick Farquhar, sec./treas.

NORTHEAST OHIO (Chapter 70)—The program was presented by the Midwest Teleproductions. They are a complete television production house, with a mobile truck which was on display. Midwest handles all television feeds from the coliseum for all cable broadcasts of any sporting event from the coliseum to ESPN and the USA Cable nets.

SOUTHWESTERN OHIO (Chapter 33)—Bill Brock of Pacific Recorders & Engineering Corp. gave an interesting talk on recorders and audio systems.

OKLAHOMA:

TULSA (Chapter 56)—Jennifer Lloyd, assistant safety director for the American Red Cross of Tulsa, presented a program on CPR.

PENNSYLVANIA:

PHILADELPHIA (Chapter 18)—Phil Gant, Larry Will, and Glenn Romsos discussed the ideas and equipment presented at the NAB.

PITTSBURGH (Chapter 20)—Ted Washburn of Fujinon Inc. presented a

program entitled "Zoom Lenses, The Quiet Front End of Camera Technology": a detailed presentation of the structure and uses of zoom lenses for ENG, studio, and other applications.

TENNESSEE:

MEMPHIS (Chapter 61)—A tour of the satellite dish at WLVS was conducted.

TEXAS:

CENTRAL TEXAS (Chapter 79)—Sandra Morris of the Dallas office of the FCC discussed the role of the FCC. The major topic was the FCC is no longer the "bad guy"; instead, they want to work with the broadcaster in any way they can to resolve problems, questions, etc.

NORTH TEXAS (Chapter 67)—Leo MacWilliams, stage manager, Dallas Communications Complex, conducted a tour of this rental, television, and film sound stage complex. New officers are Gerry Dalton, chairman; Clyde Miller, vice-chairman; and Josh Socolof was re-elected sec./treas.

SOUTH TEXAS (Chapter 69)—Joe DeAngelo and Jack Ducart of Harris Broadcast Products Division presented a program on AM stereo.

VIRGINIA:

RICHMOND (Chapter 60)—A field tour of WWBT-TV was conducted.

TIDEWATER AREA (Chapter 54)—Art Constantine of Fidelipac presented a program on cartridge tape alignment techniques and characteristics of the new "Master Cart II" tape cartridge.

WASHINGTON:

SPOKANE (Chapter 21)—T. O. Jorgenson, chapter member, gave a report on tube rebuilding techniques and recommended procedures in the use of rebuilt tubes.

TRI-CITIES (Chapter 51)—Don Eckis of Cascade Broadcasting discussed their new 1/4-inch videotape machine. The videocassette is not much larger than an audio cassette box.

WISCONSIN:

FOX VALLEY (Chapter 80)—Peter Thorpe of Robert Jones Consulting Engineers gave a talk on Alaskan radio stations and demonstrated the use of minicomputers in designing directional antenna arrays. Bob Gorjance of the Harris Corp. updated the group on AM stereo progress.

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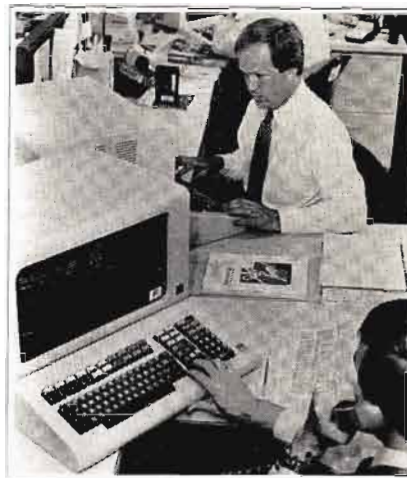
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computer purchase

- ★ **Selling management on the benefits of a computer**
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- ★ **Descriptions of systems now available**
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