

# Brujac

## ELECTRONIC CORPORATION

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### ANNOUNCING

### New TEKTRONIX Instruments

This group of literature includes the following:

1. Revised general TEKTRONIX Catalog describing: -
  - Type 511A Oscilloscope - Wide Band, AC coupled.
  - Type 511AD Oscilloscope - Wide Band with delay line.
  - Type 512 Oscilloscope - Wide Band, DC coupled.
  - Type 104 Square Wave Generator.
2. Catalog sheet: - Type 105 Square Wave Generator.
3. Catalog sheet: - Type 121 Wide Band Pre-Amplifier.
4. Catalog sheet: - Type 112 Direct Coupled, Wide Band Amplifier.
5. This Folder, Contents: -
  - I. Rack Mounted TEKTRONIX Oscilloscopes.
  - II. Modification of TEKTRONIX Oscilloscopes, Types 511A and 511AD.
  - III. TEKTRONIX Square Wave Generators, Some every-day uses.
  - IV. Some new items in the making.
    - (1) Type 513 Wide Band Oscilloscope.
    - (2) Type R-500 "Scope-Mobile".
  - V. Fairchild Oscillo-Record Cameras.

Please  
file Under  
**OSCILLOSCOPES**  
CATHODE RAY  
TEKTRONIX, INC.

I.

### RACK MOUNTED TEKTRONIX OSCILLOSCOPES

TEKTRONIX Oscilloscopes Types 511A, 511AD and 512 can be supplied with rack mounting front panels.

The finish of the panel will be standard TEKTRONIX anodized gray.

The cost of rack mounting oscilloscopes is \$20.00 over the price of the standard cabinet model.



II.

MODIFICATION OF TEKTRONIX OSCILLOSCOPESTYPES 511A AND 511AD

In line with their policy of continuing the improvement of TEKTRONIX oscilloscopes, beginning with shipments starting 1 July 1949, Types 511A and 511AD have included a "DEFLECTION POLARITY SELECTOR SWITCH" modification.

This modification provides the facility of using the entire undistorted four centimeter vertical deflection of the instrument for the examination of pulses of either positive or negative polarity.

A three position lever switch is mounted at the rear of the instrument which allows normal operation of the oscilloscope with the switch set at the center (normal) position. This will permit a pulse image, of either polarity, of a height of about two centimeters.

With this switch thrown "UP", an upward pulse image height of about four centimeters is possible. With the switch thrown "DOWN", a downward pulse image of about four centimeters height is available.

For owners of these oscilloscopes, not so equipped, who have use for this feature we can supply you with a modification kit which is quite easily installed. Contact our field engineer serving you or write this office. We will arrange to supply you with this kit at no charge. Please include model and serial number with your request.

III.

TEKTRONIX SQUARE WAVE GENERATORS TYPES 104 AND 105SOME EVERY-DAY USES

Do you appreciate the value and versatility of these popular priced instruments in both your laboratory and in production testing and quality control?

In the laboratory, they are invaluable to check your instruments, such as standard amplifiers, oscilloscopes, etc. to be sure that tube wear, shifts in circuit compensators, changes in component values and general wear and tear have not taken place which can upset frequency and



transient response. The precise checks you can make, so quickly and easily, with the Type 104, or Type 105, will insure the perfect calibration and operation of your instruments at all times.

Again, in the laboratory they offer a quick, precise check of your electronic developments. Some things they do, and quickly, are:

- a. Check the overall response of amplifiers, audio, supersonic, video.
- b. Check phase shift in amplifiers and other networks.
- c. Indicate high and low frequency cut-off points.
- d. Indicate the presence and location of resonance and anti-resonance points.
- e. Adjustment of R/C compensated networks.
- f. Adjustment of wide band compensated networks.
- g. Optimum adjustment of terminating impedances, rematching networks, etc.

And again, these and other tests can be set up on your production line to greatly speed up test procedures and to improve the quality of your test results.

The more you study the applications of these fine square wave generators, the more you will realize how much they will help you in maintaining the accuracy of your equipment and in the reduction of costs on the test line.

#### IV.

#### SOME NEW ITEMS IN THE MAKING

The present line of TEKTRONIX Oscilloscopes has filled a pressing need for reliable instruments in the low and medium frequency field.

With the rapid progress that is being made in pulse and other high frequency techniques, TEKTRONIX has been aware that even with the remarkable performance characteristics of Types 511A, 511AD and 512 Oscilloscopes, there were important, unfilled requirements for oscilloscopes capable of probing into much higher frequency phenomena.



(1). TYPE 513 WIDE BAND OSCILLOSCOPE

Of extreme interest is the new Type 513 Oscilloscope, the brief specifications of which are:-

Vertical amplifier: 5 cps to 20 mc.

Sensitivity: 30 mv per cm.

Sweep: Continuously variable, and time calibrated, 0.1 microsecond to .01 second per cm., triggered for single or recurrent sweeps.

Voltage Calibrator: 1 kc square wave.

CR Tube: Type 5XP. (P-1, P-2, P-7 or P-11 screens optional.)

Power Supply: Self contained, including 12.5 kv accelerating source.

Dimensions: 15-1/2" x 12-1/2" x 21-1/2". Weight: 60 lbs.

Price: \$1695.00 FOB Portland, Oregon.

Orders are now being booked for about 60-75 day delivery.

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SEE THIS INSTRUMENT AT THE MARCH IRE MEETING IN NEW YORK  
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(2). TYPE R-500 "SCOPE-MOBILE"

Designed to accomodate all types of TEKTRONIX Oscilloscopes. This rubber-tired carriage makes your TEKTRONIX Oscilloscope easily available at any point in the laboratory or factory.

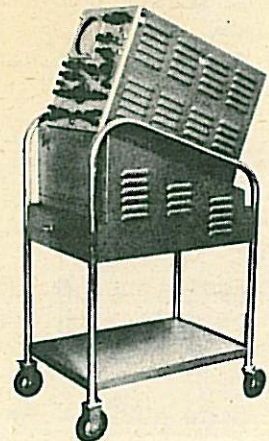
The 10" x 16" blank panel encloses about 1-1/2 cu. ft. of space into which may be built auxiliary equipment for specialized applications. Ample cooling louvres are provided.

The commodious accessory drawer is hung on substantial rollers for easy, positive operation.

The entire unit is built of aluminum alloy materials, finished in bright aluminum and baked gray crackle to match other TEKTRONIX instruments.

Weight: 40 lbs. Dimensions: 18-1/2"x39"x30".

Price: \$97.50 FOB Portland, Oregon.



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Other new TEKTRONIX instruments are in the making. We will keep you advised.





*Fairchild*

## OSCILLO-RECORD CAMERA

V.

TEKTRONIX OSCILLOSCOPES PLUS

FAIRCHILD OSCILLO-RECORD CAMERAS

We are pleased to advise you that we are now prepared to supply you with Fairchild Oscillo-Record Cameras and accessories for use with Tektronix or other makes of cathode-ray oscilloscopes.

The price list is as given below:

1. FAIRCHILD TYPE F-246-A OSCILLO-RECORD CAMERA - fitted with f/2.8 lens in #2 Rapax Shutter, consisting of:

Ass'y. R851-A1-1 Camera	Ass'y. B851-E2 Cable - Camera to control
" D851-B1-1 Control, Electronic	" B851-F1 Kit, mounting, oscillograph
" D851-C1 Periscope	" G851-H1 Data card, illuminated
" D851-D1 Mounting Plate - Camera	" 300-246-1 Manual, instruction
" B851-E1 Cable - Power	

Code HUBBM - Price, each . . . . . \$1,090.00

2. FAIRCHILD TYPE F-246-A OSCILLO-RECORD CAMERA - fitted with f/1.5 lens in #3 Rapax Shutter, consisting of:

Ass'y. R851-A1-2 Camera	Balance same as Paragraph 1. above.
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Code HUBCN - Price, each . . . . . 1,285.00

3. ADAPTER, EXTERNAL, FOR 1000-FT. MAGAZINE (not including magazine) Assembly 851-K1.

Code HUBGR - Price, each . . . . . 185.50

4. UNIVERSAL MOUNT (eliminates need for attaching camera to oscillograph) Assembly 851-P1

Code HUBHS - Price, each . . . . . 131.75

5. Additional MOUNTING KIT (for permanent attachment to any make of oscillograph, so camera may be readily mounted or dismounted) Assembly B851-F1

Code HUBDO - Price, each . . . . . 19.00



- 6. ADAPTER RING, 3-in., (Facilitates use of camera with 3-in. tube  
oscillographs)  
Assembly B851-434  
  
Code HUBEP - Price, each . . . . . 18.00
- 7. SOLENOID (for remote shutter operation)  
Assembly 851-U1  
  
Code HUBFQ - Price, each . . . . . 16.00
- 8. BINOCULAR SPLIT BEAM VIEWER (permits viewing by one or more persons  
at some distance from the oscilloscope)  
Assembly 851-R1  
  
Code HUBJU - Price, each . . . . . 131.50
- 9. CARRYING CASE (to protect camera while not in use)  
Assembly 851-T1  
  
Code HUBIT - Price, each . . . . . 87.00
- 10. FAIRCHILD-SMITH TYPE F-214 MOTOR DRIVEN PROCESSING UNIT  
(for 35mm film in lengths up to 100-ft.)  
  
Code LXANZ - Price, each . . . . . 229.37
- 11. FAIRCHILD-SMITH TYPE F-215 PORTABLE DRYING RACK  
all metal, motor driven, with heating unit, squeegee and rewinding  
spool (capacity up to 200-ft. of 35mm film)  
  
Code LXAOA - Price, each . . . . . 229.00
- 12. TEKTRONIX Type 1211 Adapter Kit (all items necessary for use of F-246-A  
camera with Tektronix Type 511A, 511AD or 512 Oscilloscopes) . . . . 15.25

MOUNTS AND MOUNTING KITS: The Universal Mount, Item 4, Assembly 851-F1, is for use with any make of oscilloscope. The camera equipment may be permanently secured to this mount. As no fastening devices are needed to secure the mount to any oscilloscope, the camera and mount can be quickly and easily moved from 'scope to 'scope. This mount is required when the 1000 foot magazine is used.

The additional mounting kit, Item 5, Assembly B851-F1 is designed for permanent mounting on any make of oscilloscope, except Tektronix.

The Tektronix Type 1211 Adapter Kit is required, in addition to Mounting Kit Assembly 851-F1, for permanent attachment to any Tektronix oscilloscope.

The above prices are F.O.B. any point in the continental United States. Federal Excise Tax is included where applicable. Terms: 1% 10/25 net 30 days.

Catalogs and complete technical data will be supplied at your request.



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