www.orphancameras.com

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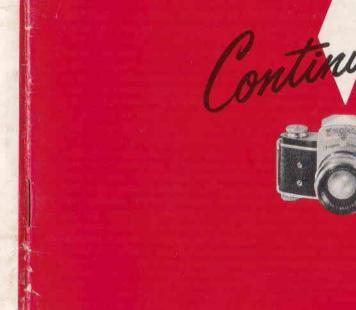
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THE AUTOMATIC LENSES

The design and production of the fully automatic, pre-set diaphragm lens will contribute more to the field of 35-mm. photography than any other single advancement in the past 20 years. Recognizing the Exakta camera as a perfect camera for such a lens-diaphragm development, all German lens manufacturers combined their efforts with those of Exakta engineers to create this history-making innovation. Now, for the first time, the operation of closing the lens to the desired aperture after focusing is combined with the release of the shutter in a single simultaneous motion—the simple pressure of one button! This means the Exakta is faster, more efficient and more versatile.-Five fully automatic lenses are available.



NEW CARL ZEISS BIOTAR F/2.0 LENS WITH AUTOMATIC DIAPHRAGM

We are proud to introduce the new Zeiss Biotar 58-mm. f/2.0 in a New Mount with Automatic Diaphragm. He most outstanding feature of this new lens is that it incorporates the latest development in Automatic Diaphragm design! The Automatic Carl Zeiss Biotar lens is operated by a clutch-control sweeping lever which opens the diaphragm to its widest aperture (f/2.0). A single pressure on the release button closes the lens down automatically to the pre-selected aperture and trips the shutter. In addition to the automatic feature, the Biotar can also be operated manually. Another outstanding feature of this lens is the half stops, which are provided between the regular diaphragm stops (which makes this lens most desirable for color work). The diaphragm stops are f/2.0, 2.8, 4, 5.6, 8, 11, and 16. The focusing mount has a dual scale with calibrations in feet and meters — footage is engraved in red; the meter scale in black. The focusing range is from approximately 1½ feet to 50 feet and infinity. An engraved depth of field scale is also provided showing at a glance the area which will be in sharp focus.

This new Zeiss Biotar f/2.0 lens is truly an event in 35-mm. photography, because it was the Biotar which played a great part in ushering in the era of really fast lenses for 35-mm. cameras. It can truly be classed as one of the major advances of the last 30 years. The Biotar is a coated, six-element lens which possesses a high degree of symmetry. It is corrected for spherical and chromatic aberration with an unusual balance between the axial chromatic and spherical aberration with regard to wave length. It is free of most optical imperfections, coma and astigmatism. The Automatic Carl Zeiss Biotar f/2.0 lens is available with the Exakta VX Camera with Penta Prism and Rangefinder at \$392.00, or alone at \$162.80.

YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU



35-MM AUTOMATIC EXAKTA VX

recognized as the pace-setter in the field of photographic achieveit, the Automatic Exakta VX with its single-lens reflex system continues open new frontiers. Here is a precision instrument that embodies autoatic features Exakta owners and other photographers have longed for, but have felt were still on the drawing boards, if, indeed, they were even possible. Yes, the Automatic VX is years ahead of its time, bringing Exakta Photography to the near perfection that means true versatility and effortless operation. The Automatic VX incorporates the fully automatic pre-set diaphragm lens, a refinement eagerly awaited and of tremendous significance. Among other valuable body refinements, the Exakta VX includes: a shutter lock designed to prevent accidental exposure; improved film advance, shutter cocking and exposure-counting mechanisms; a completely new rewind mechanism for easier film rewinding; and an improved shutter design that permits exposures to be made with waist-level viewfinder sides in the folded position. In addition, the Automatic VX retains all of the long-treasured Exakta features such as: built-in synchronization for both regular and electronic flash; lens interchangeability, including the priceless Penta Prism eye-level finder, the Split-image Rangefinder and the Magnear lens-viewfinder; coupled film transport and shutter cocking; has the most accurate focal plane shutter; has a range of 29 speed settings from 1/1000 of a second to 12 seconds, plus bulb and time; built-in knife; provision to permit intentional double exposures.

NEW STEINHEIL AUTO-QUINON F/1.9 LENS

Exakta is pleased to introduce the new f/1.9, 55-mm. Auto-Quinon with fully automatic diaphragm, a completely new, fast objective made by C. A. Steinheil Optical Works, Germany. The optical system is the first of its type, and the mount is a marvel of design. Developed on the principle of the Gauss lens, this anastigmat lens consists of six-elements, two of which are cemented together. A very high correction is achieved because of an unusual type of refractive optical glass applied for the first time. Outstanding performance, highest possible definition and perfectly balanced contrast is assured for both color and black and white photography.



The iris of the Auto-Quinon is always open at its widest (f/1.9) aperture, and closes down automatically to the pre-set opening when the shutter is snapped. Re-opens automatically to full opening. The automatic control system is contained in a vertical gear-operated transmission lever which operates a trigger device. This device simultaneously releases the shutter. There is also a setting on the lens for manual operation. There are eight diaphragm stops, f/1.9, 2.8, 4, 5.6, 8, 11, 16, and 22. The lens focuses from 1.35 feet to infinity. A depth of field scale is engraved on the mount. The Auto-Quinon is available with the Exakta VX and Penta Prism and Split-image Rangefinder for \$398.70, or alone at \$169.50.

YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU

MORE AUTOMATIC LENSES

AUTOMATIC XENON

f/1.9, 50-mm.

In this triumph of design, Jos. Schneider & Company, Kreuznach, Germany, has created a six-element lens truly worthy of the Automatic Exakta VX. Here is high speed and needlesharp definition in a 50-mm. lens—a combination that will broaden the scope of your photography in either dim light or brilliant sunshine. with black and white or color film. The Automatic Xenon is one of the finest automatic, preset diaphragm lenses. It is available with the Automatic VX with Penta Prism and Split-image Rangefinder for \$398.70.

AUTOMATIC WESTAGON

1/2.0, 50-mm.

The Automatic Westagon, produced by the renowned German lensmaker, Isco-Gottingen, is designed for versatile use—in general, action or dim-light photography. This six-element lens combines speed, sharpness and beauty, it has the normal focal length of 50-mm, and a maximum aperture of f/2.0. This added speed means so much when the light is dim. It is available with the Exakta VX with the Penta Prism and Splitimage Rangefinder for \$336.50.

AUTOMATIC WESTANAR

f/2.8, 50-mm.

For the photographer seeking to utilize the new automatic lens developments, here is an excellent standard lens that combines critical sharpness with quality and speed. Also produced by the famed Isco-Gottingen factory, the Westanar is a four-element lens of 50-mm. focal length with a maximum aperture of 1/2.8 — speed to spare in all general and specialized photography. It is available with the Exaka VX with the Penta Prism and Split-image Rangefinder for \$296.50.

If you are the owner of an Exakta now, you can add to your equipment by purchasing one of the above Automatic lenses at the following prices.

f/1.9, 50mm. Schneider Xenon fully automatic lens\$169.50 f/2.0, 50mm. Isco Westagon fully automatic lens...... 110.00 f2.8, 50mm. Isco Westanar fully automatic lens....... 69.50









FI1.9, 75-MM MEYER PRIMOPLAN

Of all the lenses for the Exakta that bear the name of Meyer, the f/1.9, 75-mm. Primoplan is one of the most valued by Exakta photographers.

An example of optical engineering at its finest, the lens performs with marked dependability under adverse lighting conditions. Whether a deep-hued view at twilight or a lyric scene photographed in the rosy softness of the eastern sky at dawn, the Primoplan is unexcelled. Similarly, you will often see it in use at the circus, in the theatre, at night baseball games and boxing events and other situations of restricted lighting.

Combined with today's extra-fast films, the lens is perfectly suited for dimly lit photographic situations of all kinds.

The Primoplan is a highly corrected lens which is especially coated to reduce glare and reflection. It has a pre-set diaphragm mechanism, focuses from 3.3 feet to infinity, stops down to f/22, and meets the highest corrections for color and black and white photography.

\$135.

SPEED LENSES

FI1.5, 75-MM. ZEISS BIOTAR

Press photographers, those most glamorized yet realistic professionals, always make sure that their equipment is the best possible and is exactly right for the purpose at hand. When, as so often happens split seconds count, as in the course of editorial or news photography, lens speed frequently makes the difference between getting the picture and not getting it. That, of course, is why so many alert photographers who use the Exakta in their work have equipped it with a lens literally capable of the fastest speed possible: the f/1.5, 75-mm. Zeiss Biotar. This powerful coated objective from the famed house of Carl Zeiss, Jena, focuses from 2.6 feet to infinity, and stops down to f/16. It has a pre-set diaphragm mechanism and satin chrome lens mount. You'll expand the versatility of your camera with the f/1.5, 75-mm, Carl Zeiss Biotar lens\$216.50

THE F/2.8, 85-MM

STEINHEIL CULMINAR LENS

Many experienced portrait photographers have long enjoyed the use of the 85-mm., f/2.8 Steinheil Culminar lens on the Exakta camera, for portraiture. With the standard 2-inch lens (50-mm.), the photographer is forced to work much too close to the subject in order to fill the film frame, thus even the most skilled photographer could hardly avoid portrait distortion under such conditions. For instance, the subject's nose, being nearest the camera, would appear abnormally large in comparison with the rest of the head. With the Steinheil Culminar however, you can stand back and fill the frame with the subject's head, while still getting accurate perspective and pleasing proportions.

The creative photographer realizes that, at such an advantageous distance from the subject, as provided with the Culminar, he avoids making the subject uncomfortable and self-conscious, resulting in a more relaxed, natural, expressive portrait, fully utilizing the remarkable possibilities of the Exakta.

Because of its perfect qualifications for telephoto use, the 85-mm. Steinheil Culminar also greatly increases the value and versatility of the Exakta.................\$69.50



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AUTOMATIC EXA

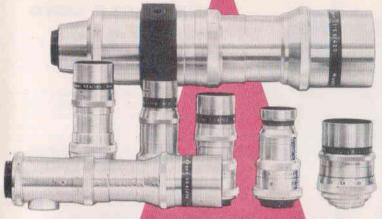
The renowned Exa is automatic! Combining the 50-mm., f/2.8 fully automatic Isco Westanar with the Penta Prism eye-level viewfinder, this truly modern camera offers any camera fan all he seeks in perfection of photographic results and the ultimate in simplicity of operation. Designed as a streamlined version of the famous Exakta, embodying only the essentials required for fine photography, the Exa meets the need for a second camera, a Sunday camera that can be put into pocket or purse — or for a treasured gift. Its small size (measuring only 5" x 3½" x 2") belies its precision and versatility. Its shutter is accurate and the cocking action is coupled with the film advance. There is built-in synchronization for both electronic and regular flash. In addition, a trigger-like lever permits fingertip exposure settings. The Exa lens and viewfinder mounts are of identical design with those of the Exakta so that most of the equipment for both can be used interchangeably.

| Auto | mati | c Exa w | ith 50- | mm., | f/2.8 | fully | automatic | Isco Westanar | and Penta | |
|------|------|----------|---------|-------|--------|-------|-------------|---------------|-----------|----------|
| Pris | m Vi | ewfinder | with | Split | -image | Rang | gefinder | | | \$165.00 |
| Exa | with | 50-mm., | f/2.8 | Isco | Westar | and | waist-level | finder | | 85.00 |
| Exa | with | 50-mm., | f/3.5 | Zeiss | Tessar | and | waist-level | finder | | 109.50 |



YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU

MEYER LENSES



The optical scientists of Meyer laboratories were among the teams of highly-trained, dedicated experts who labored with the precision engineers of lhagee to make Exakta a reality. Meyer's outstanding optical mathematicians and technicians concentrated the full weight of their efforts to develop special lenses for the Exakta, lenses that would record any subject with the accuracy and sharpness that this fine camera merits. Whatever your photographic need, there is a coated Meyer objective to fit it.

With twice the focal distance of the standard lens, the versatile f/2.8, 100-mm, telephoto objective, for example, is widely used as a portrait lens by experienced photographers in instances where the application of telephoto techniques is desirable, even though the subjects are not too far away. A situation where this would apply would be in the case of a portrait photographer who would want to photograph a head and shoulder to fill the entire frame, as seen in the viewfinder. Yet, in order to avoid undue tenseness on the subject's part, and to achieve complete naturalness, he would want to remove himself to a discreet distance while taking the picture.

To a photographer interested in medical subjects who might want to photograph an operation and who must necessarily remain at a distance, this lens has been a boon. For intimate flower and insect photography, it is virtually unexcelled.

The nature photographer and the sports photographer also have two unique distance lenses to choose from, either the 150-mm, or 180-mm, f/5.5 Tele-Megor. Pictures of mountains at a distance, shots of sports arenas and stadiums, pictures taken from grandstands, or from a vantage point at the track, are captured with insured excellence by these lightweight, easy-to-handle lenses.

In other cases where the demands of subject or the perfectionism of the photographer require more than average results, the 250-mm or 400-mm. Tele-Megor will best satisfy the requirement. Thus, they are often used in exploration, for marine use, by aircraft personnel, as well as for long-distance bird photography, with the Exakta camera.

The above mentioned lenses also provide for color shots of finest quality and naturalness.

With the proper telephoto lens, distance is no obstacle for perfect pictures.

THE F/3. 40-MM. STEINHEIL CASSARON WIDE ANGLE LENS



The Steinheil Cassaron Wide Angle Lens is a major achievement of optical mathematicians, and a testimonial to the determination of Steinheil to create a "triplet-type" wide angle lens worthy of Exakta's potentialities.

Steinheil, years ago, decided to produce the finest possible wide angle lens for the Exakta, combining the widest scope with an f/3.5 speed. They instructed their optical mathematicians to devise arriplet lens with a large picture-taking angle. Despite the common belief that a wide angle lens of this type was impossible (because the terms "triplet lens" and "wide angle lens" were traditionally mutually exclusive), Steinheil, through the correct formulae and glass mixtures achieved their goal. They created the Cassaron, the lens which was thought impossible to make.

A distinctly superior wide angle, befitting the stringent requirements of the Exakta, the Cassaron has a picture taking angle of 57°, and like all Steinheil lenses, is fully coated and color corrected, enhancing its unusual light-transmission qualities. \$54.50.

WIDE ANGLE LENSES

Wide angle lenses are essential for taking pictures in narrow quarters as in galleries, museums, and staterooms aboard trains and ships. They are also used for landscape photography where a broad field of view is required, and for architectural photography; in fact, a wide angle lens must be used wherever the photographer is faced with the problem of taking pictures of interiors or large groups, where the distance from the subject to camera is restricted because of the lack of space to move backwards.

THE FIA.5, 40-MM. CARL ZEISS TESSAR WIDE ANGLE LENS



The Zeiss Tessar Wide Angle Lens is one of the most useful of the family of lenses stamped with the world-famous name of Zeiss. Having a 57° angle of view, this lens focuses from 2½ feet to infinity and stops down to f/22. It is highly corrected for color and black and white, and maintains edge-to-edge sharpness at full aperture. This four-element, coated objective is handsomely finished in chrome mount, which imparts a fitting air of exclusiveness and fineness to the Wide Angle Tessar that is so perfectley mated with the Exakta. \$85.

YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU

STEINHEIL QUINAR TELEPHOTO LENSES

Steinheil has introduced an important photographic first: a 200-mm. focal length lens with preset diaphragm, the Quinar f/4.5. This is the first telephoto lens with a preset diaphragm in this focal length. The preset feature is invaluable in single-lens reflex photography of rapid, action shots. Following on the heels of the enthusiastically received 135-mm., f/2.8 Quinar, this lens will prove particularly valuable to photographers of distant subjects such as stadium sports and wild life. The 135-mm., f/2.8 Quinar, also a fast lens, has been an important aid in color, bird, and nature photography. Both lenses are coated and possess a five-element system. The metal mounts are highly satin finished and are equipped with tripod sockets.





THE 24 x 24-INCH EXAKTA 66



The Exakta 66 has achieved a high measure of recognition among professional and amateur photographers. This wide acceptance is indicated by the fact that the "66" is in constant use throughout the world on professional, editorial, advertising, fashion, and similar assignments. Be it fashion salons in Paris, bazaars in Bombay, or on New York's Fifth Avenue, you can be sure the "66" is clicking away with consistently brilliant results.

The Exakta 66 is a single-lens reflex camera in which all focusing and viewing take place in the waist-level viewfinder. You see a sparkling, upright and enlarged image on the ground glass. There is no guesswork, no parallax, no complicated procedures. This folding viewfinder is also equipped with a built-in magnifier for critical focusing, or if its front window is opened, can be used as an eye-level, sports finder. The viewfinder assembly is designed to accept a split-image rangefinder; by pressing a button, the unit can be removed for cleaning and inspection.

The "66" is equipped with the famous f / 2.8 Carl Zeiss Tessar 80-mm, lens with preset diaphragm mechanism, which focuses from 3 feet to infinity, and stops down to 1/22. It incorporates the unique Exakta feature of an extremely wide range of shutter speed settings, from 1/1000 of a second to 12 seconds. The shutter settings are 1/1000, 1/500, 1/250, 1/150, 1/100, 1/50, 1/25, 1/5 and 1/2 of a second and 1, 2, 3, 4, 5, 6, 7, 8, 9, 11 and 12 seconds plus bulb and time. A built-in self-timer is also provided so that the photographer can include himself in the picture. The self-timer works with fast and slow speeds.

YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU

www.orphancameras.com popular 120 rollfilm, the "66" takes 12 pictures, 21/4 x 21/4 inches in size (6 x 6 cm.), in color and black and white. Winding the film automatically cocks the shutter making it possible to take picture after picture with great rapidity. Built into the back of the camera body is a clever indicator that reveals when the first frame is in a picture-taking position. The film transport mechanism locks until the exposure has been made. After the exposure, the film can only be advanced to the next frame. The half turn needed to move the film also cocks the shutter and operates the exposure counter. The shutter release is positioned on the right side of the camera and has a safety lock to prevent unintentional double exposures. However, double exposures can be made when desired.

> The "66" has been designed so that lenses can be interchanged in a matter of seconds. A variety of telephoto lenses are available now ... more telephoto and wide angle lenses ranging from 56 to 400-mm, will be available. Since you always view through the picture-taking lens. no special viewfinders or attachments are needed with any lens on the "66." be it a telephoto, wide angle, standard or high speed.

> Close-up photography with the "66" is simple. By attaching a bellows extension or a set of extension tubes, you can do wonderful close-up photography. Additional viewfinders are not necessary as the object to be photographed is viewed continuously in the incomparable Exakta viewfinder right up to the moment of exposure.

> The Exakta 66 is fully synchronized for regular and electronic flash. A single socket on the left, top side of the camera is used for both types of flash. An adjustable scale permits the time delay to be altered with the 0-20 millisecond

> The back of the camera is removable and can be locked with a swinging lever. An indentation in the back affords a fingerhold for grasping and steadying the camera.

> Compactly designed for easy handling, the "66" is almost square in shape, measuring 51/2 inches high, 41/2 inches deep and 41/2 inches wide (without lens). All important operating mechanisms are located on the right side of the body. Other features include a film-notes device, loops

for neckstraps and tripod sockets on both the bottom and side.

Exakta 66 (21/4 x 21/4) with f / 2 8 80-mm

| Zeiss Tessar lens, T-coated, with | |
|------------------------------------|--------|
| preset diaphragm | 319.50 |
| Leather carrying case | 19.50 |
| Flashgun (B.C. Capacitor) | 15.50 |
| f/3.5, 135-mm. Hugo Meyer Goerlitz | |
| Primotar Telephoto lens | 99.50 |
| f/3.5, 180-mm. Hugo Meyer Goerlitz | |
| Primotar Telephoto lens | 149.50 |
| f/5.5, 400-mm. Hugo Meyer Goerlitz | |
| Tele-Megor Telephoto lens | 199.50 |
| Bellows Extension | 89.50 |
| Set of Ihagee Extension Tubes with | |
| Adapters | 46.00 |





PAGE 13

PAGE 12

CONTINUOUS FOCUSING



A SIGNIFICANT ADVANCE IN THE RANGE AND VERSATILITY OF EXAKTA PHOTOGRAPHY

For years pholography's have acknowledged that the 35-mm. Exakta's range and versatility put it in a class by itself. It is indisputably the most versatile camera in the world. Now, Continuous Focusing extends the Exakta's range and versatility to a fresh frontier. When attached to the camera, the unit provides an incredible range of focus — from finity to 9 inches — without adding or interchanging equipment. With one lens and bellows, you can take both telephoto and hyperclose-up pictures. With the same setup, you can take ordinary scenes, portraits without distortion, life-size pictures. The unit illustrated here consists of an extension bellows (single carriage) and a special short-length coated Steinheil 105-mm. f/4.5 lens with click stops. The extension bellows (single carriage) is priced at \$32.50 and the Steinheil lens with adapter at \$31.50. If purchased together, the combination is priced at \$59.50 complete.

A double carriage bellows extension is also available at \$57.50. The Steinheil f/4.5 105-mm. can be used with it. This lens is priced at \$31.50. If purchased together, however, the combination is priced at only \$84.50 complete.

We are also offering the extension bellows with the magnificent 400-mm., f/5.5 Meyer Tele-Megor lens. With this combination, most photographic necessities from hyper-close-up photography and macrophotography to long-distance photography (telephotography) is covered. With the 400-mm. Tele-Megor, you can optically reach out and bring otherwise indiscernible subjects to your film.

Continuous Focusing Assembly for close-ups at a distance consisting of bellows extension (double carriage) with f/5.5, 400-mm, coated Hugo Meyer Goerlitz Tele-Megor lens \$250.00

THE MAGNEAR LENS-VIEWFINDER



Next to exposing, focusing and viewing are the most important components of picture taking. When it comes to scientific photography, where every bit of precision counts, proper focusing may be a decisive factor in getting a good picture.

Magnifiers for ground glass focusing are usually inexpensive and therefore are not always satisfactory for the photographer. On the theory that nothing could magnify the ground glass image as well as a photographic objective—the same one which is used for picture taking—lhagee perfected a viewfinder on which any of the Exakta lenses can be used. The result, the Magnear Lens-Viewfinder!

Ever since its introduction, which came as a complete surprise to the photographic world, the sensational Magnear Lens-Viewfinder has been opening up vast new horizons of scientific photography for Exakta users the world over. The amazing Magnear utilizes the picture-taking properties of lenses made for the Exakta—which result in some of the finest photographs made, year in, year out—for viewing and focusing. The Exakta's outstanding optical system, so excellent for picture-taking, naturally results in superior focusing.

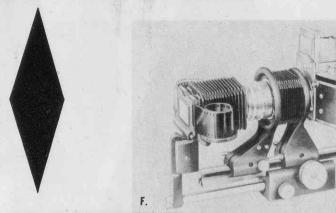
| Magnear with ground glass | \$21.00 |
|--|---------|
| Magnear (ground glass) with 50mm, f/3.5 Zeiss Tessar | 59.50 |
| Focusing Glass with center spot and hairline | 16.00 |
| Zeiss Tellup Telescopic Magnifier (additional 15x magnification) | 18.00 |

YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU

THE VERSAL, A NEW IHAGEE UNIT FOR EXAKTA OWNERS

The Versal assembly is a completely new and versatile series of related accessories for the Exakta. The idea for this unit was conceived by Exakta owners themselves, and was the result of their asking for more efficient bellows than those which were standard at that time. While working to produce a precision bellows unit for Exakta owners, lhagee engineers immediately saw an opportunity to broaden the frontiers of Exakta photography to limitless horizons ... they visualized at once the Versal, which would furnish everything necessary for and between telephoto photography and photomicrography in one compact unit of accessories.

The Versal permits the Exakta photographer to travel into space and at the same time, penetrate the mysteries of the infinitesimal. It is amazing, but nevertheless true, that when using the Versal the Exakta photographer sees himself as an explorer, laboratory scientist, naturalist, or engineer. There are no limits to the practical application of the Versal; the assembly can be used separately or in many varied combinations with the Exakta.



Baseboard-post arrangement used for copying books, documents or other materials

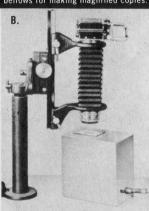
Baseboard-post arrangement and bellows for making magnified copies.

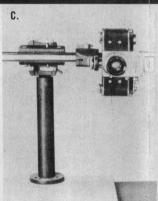
Sliding rail arrangement for vertical format pictures and for making sterer (three-dimensional) shots

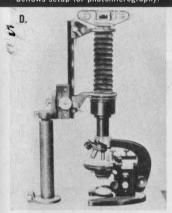
Special duplicating setup for making copies of color and black-and-white transparencie Baseboard-post and bellows setup for photomicrography.

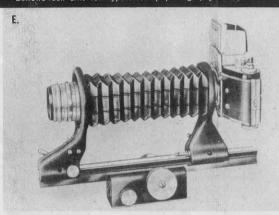
Bellows-rack unit for hyperclose-up photography and portraiture.











VEDCAL ACCEMBLY (AND DARTS)

| VERSAL ASSEMBLI (AND PARIS) | | |
|--|----------|--|
| Baseboard Metal Post Arrangement | 50.00 | |
| Sliding Arm with Calibrated Scale | 30.00 | |
| Bellows Extension | | |
| Rotating Angle Bracket Assembly | 20.00 | |
| Transparency Copying Attachment | 35.00 | |
| *Ring for attaching camera lens to Transparency Copying Attachment | 3.50 | |
| Light-trap Tube for Photomicrography | 7.50 | |
| Versal Assembly Complete Outfit | \$181.00 | |
| *Specify lens when ordering | | |

The Versal Assembly can be purchased as a complete outfit or in individual parts.

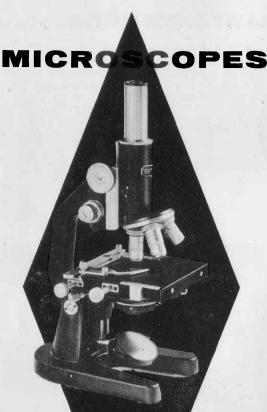
YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU

Each precision-made accessory in the Versal assembly can be used separately or in many varied combinations with the Exakta for laboratory, medical, dental and other scientific photography, for indus-trial photography and other professional purposes. The Versal assembly consists of a wooden baseboardmetal post arrangement, a bellows-rack unit, and a special duplicating unit. The baseboard-post arrangement has many uses, such as for copying books and documents (with or without the bellows, see pictures A and B), stereography (sliding rail unit permits the camera to be moved sideways as much as 430 mm. see picture C) and photomicrography (with the aid of the bellows-rack unit and light trap, see picture D). In photomicrography, the versatility of the bellows-rack unit makes it possible to change the scale of enlargement instantly by adjusting the bellows. The bellows-rack unit can be used alone or on a tripod with the Exakta for taking hyperclose-up pictures (see picture E). The bellows permits a continuous extension of from 35 to 220 mm, and has a measuring scale marked for every 20 mm. A special unit for duplicating black-and-white and color transparencies (see picture F) is used with the bellowsrack unit.

Another interesting feature of the Versal bellows assembly is that lenses of 50-mm. focal length are now available in special mount which permits picture taking at infinity as well as from closer distances with bellows. This is a feature of the Versal Bellows which is non-existent on bellows of other makes. (Information about this newest feature is available upon request).

It is also interesting to note that with the Versal bellows attached, the camera can be hand held for fast speed shots whenever the occasion arises. If more extension is required, extension tubes may be added between the lens and the front part of the

Versal owners will find photomicrography exciting and full of pleasure. The world of the infinitesimal is as wide and interesting as the planet we live on. One look into a microscope will convince you that nature spent much more care to produce beautiful patterns of the small world in living and inanimate subjects than the world we see with the naked eye. For those who would like to go into the subject of photomicrography, we recommend the outstanding Research Microscope, (See page 18)



An important optical manufacture in Germany gave up the production of microscopes, and will de the his continue to the construction of lenses for photography. He had a manufacture with us to offer the remaining inventory of microscopes to be a manufacture of the scientific users. Accordingly, we are in the position to offer the advantageous price, the top-quality Research Microscope, designed for level of the scientific users, schools, physicians, research workers, agrees and scientists.

The highest care, minute considerations and rigid specifications make this microscope a triumph in optical dictary. For dependability, performance and construction, it can only be compared to microscopes which sell for nearly twice the price. Each microscope is doubly guaranteed against optical or mechanical defects by Exakta Can are Co. and the manufacturer.

Imported, precision-made copy and lighting unit, Ideal for use in the • home • laboratory • office • class room • library. The CopyMat conveniently facilitates the copying of drawings, photographs, books and documents, as well as the taking of macrophotographs (photographs of small objects, e.g., coins, jewelry, biological specimens and machine parts). The CopyMat was designed according to the principles of the optical bench by outstanding specialists in the field of miniature photography and is the product of the latest achievements in engineering and photography.

BASE—A solid diecast metal base (1) covered by $8\frac{1}{2}$ x13-inch opaque plyboard provides a rigid foundation, essential for copying. On each side of the base are adjustable metal copy holders (2), with spring aligned setting knobs (3), which provide the most accurate position for the objects to be photographed.

LIGHTING SYSTEM—Four bulbs, two on each side, furnish proper illumination for the subject. The bulbs are recessed below two cylindrically curved, adjustable reflectors (4) with silvered inside surfaces. The lighting system is divided in two individual sections. Each of the sections of the lighting system is set on a "1" shape master arm of duraluminum (5). By means of two setting levers (6), these arms can be rotated and are adjustable to any position from 45° to 90°. By loosening the wing-nut (7) the lighting sections can also be raised or lowered on the duraluminum arms in monorall fashion. The CopyMat's unique arrangement is your assurance of maximum light efficiency for all copying contingencies.

CAMERA SYSTEM—Two 22" high, rigid-parallel steel pillars (8) are set into the horizontal diecast base. The camera is attached to an elevator (9) and can be set at any height. To facilitate calculation of the desired proportion of the copy, a scale calibrated in millimeters (10), is situated between the pillars. At any time, should it be necessary to duplicate copy work in exactly the same size, the elevator is simply adjusted to the previous scale setting. The camera can be adjusted to any horizontal or diagonal position on any one of five individual camera retaining openings which work in conjunction with two guide posts (11) that firmly support the camera and hold it firmly in the desired position. A holder (12) for filters and supplementary lenses swings in and out of position on a pendulum base. This permits the instantaneous change of filters which the operator can select depending upon film used and work to be accomplished. Color enthusiasts will find this unit very useful. CopyMat, optical bench system copystand, Model 1. \$97.50

SPLIT-IMAGE RANGEFINDER

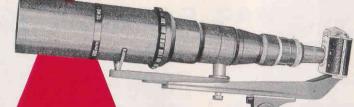


Exakta owners, who enjoy the unequalled pleasures of Exakta's wonderful single-lens reflex system, that eliminates parallax and records on film exactly what is seen in the viewfinder, are now able to know the supreme photographic perfections possible with the Split-image Range-finder.

The Split-image Rangefinder was designed by Zeiss to fit the Penta Prism eye-level finder, one of the devices that make the Exakta so unique among cameras. The Rangefinder provides Exakta users with a swift, reliable and convenient method of focusing. It features a condenser lens and ground glass combination that in a few seconds can replace the ordinary ground glass of the Penta Prism (above, left). An ingenious spring arrangement makes the removal of one and the insertion of the other as easy as clicking a shutter. The split-image itself originates in two half-circle lenses located in the center of the ground glass of the finder.

You focus on either a vertical or a horizontal line in the composition of the subject, as desired; then observe the two halves of the image in the center circle. If the lens is improperly focused, the two halves of the image are out of line (see left part of photo above), and the image seen on the ground glass is fuzzy. If the lens is properly focused, the two halves are in line and the ground glass image is sharp (see right part of photo above). Correct focus depends on the lining up of the two half-images, rather than on the sharpness of the images. alone.

An important piece of equipment, especially in adverse light, the Split-image Rangefinder is intended to serve largely as a rapid, convenient, focusing device, saving time and effort. The smallest aperture at which the finder can be focused is f/5.6. The Split-image Rangefinder is available alone at \$35.00, or complete with Penta Prism at \$85.00.



TEWE LENSES

"Tewe of Berlin". Throughout the world, for generations the name of Tewe has been synonymous with the finest in long-pistance lenses. Hardly an astronomical observatory on the face of the globe has not known first-hand the special qualities of the famed Tewe sky-viewing and Telephoto objectives, that assure exceptional light intensity, unique brilliance and needle-sharp, critical definition.

Tewe adapted his patstanding two-element Telon and four-element Telagon lenses for the Exakta. These lenses are available in focal lengths varying from 300-mm. (12 inches) to 800-mm. (32 inches).

Unexcelled for reliability, the Tewe lenses for the Exakta have created unsurpassed optical standards to meet the varied conditions of weather, atmosphere and general climate in every quarter of the earth. To facilitate ease in handling, the Tewe lenses are of minimum weight. The Tewe lenses for the Exakta are recommended for long-distance photography: nature life picture-taking of birds, animals and the like; mountain photography, telephotography, crime detection, surveying, engineering and other purposes.

| 300-mm., | f/3.5 | Telagon | \$360.00 |
|----------|-------|---------|----------|
| 400-mm., | f/4.5 | Telagon | 360.00 |
| | | Telagon | |
| | | Telon | |
| | | Telon | |
| , | | | |



| TECHNICAL DATA: | angle of view | focusing from | smallest diaphragm stop | overall length incl. sunshade | weight |
|------------------------|------------------|------------------|----------------------------|-------------------------------|---------------|
| 300-mm., f/3.5 Telagon | 8° | 10 feet to inf. | 22 | 17 inches | 5¾ lbs. |
| 400-mm., f/4.5 Telagon | 6° | 15 feet to inf. | 22 | 20 inches | 7 lbs. |
| 500-mm., f/5.0 Telagon | 5° | 23 feet to inf. | 32 | 26 inches | 11 lbs. 3 oz. |
| 600-mm., f/5.0 Telon | 4° | 40 feet to inf. | 32 | 28 inches | 11 lbs. |
| 800-mm., f/6.3 Telon | 3° | 67 feet to inf. | 44 | 38 inches | 14 lbs. 4 oz. |



EXAKTA ACCESSORIES

The difference between the truly professional photograph and the ordinary or unsuccessful picture often lies in the correct use of the proper accessory. The right device frequently makes photography of even the most difficult subject a simple and delightful experience. Below are described and illustrated various accessories designed especially for the Exakta . . . and especially designed to multiply the pleasures of picture-taking. Your Exakta dealer will be glad to demonstrate them for you.



An essential accessory that protects the internal mechanism, shutter curtain and mirror of your camera from dust and small particles, whenever lens is removed

2. 2-IN-1 ADAPTER.

When other extension tubes and adapter rings cannot provide the necessary 5-mm. extension for close-ups. the 2-in-1 Adapter does the job. It incorporates the lens mount on one side and the camera mount on the other, as a single unit with a 5-mm. extension in between\$10

3. CASSETTE.

Created for Exakta VX cameras only, cassettes for loading with bulk film provide owners with multiple advantages. Safety from scratches and savings on bulk film are of major importance. An estimated 75% savings can be made on black-and-white film: on color

4. EYEPIECE FOR PENTA PRISM.

Devised for spectacle wearers, it eliminates disturbing side reflections that occur when the Penta Prism viewfinder is used. Lens ground to owner's prescription may be inserted, eliminating the need for glasses when focusing\$3.50

5. REWIND LEVER.

For Exakta I, II and V only. Enables rapid rewinding after exposure\$2

6. GIANT RELEASE KNOB.

Insures easy, steady, non-shake shutter release. Can be used on all 35-mm. Exakta models......\$1.25

7. METAL NECKSTRAP.

Of flexible metal, is designed to make camera carrying easy and comfortable. It also facilitates picture taking. Handsomely finished, the strap is an attractive accessory that adds comfort, pride and efficiency to your endeavors\$3.50

YOUR DEALER WILL GLADLY SHOW THIS EQUIPMENT TO YOU



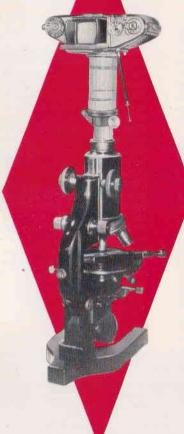
Since introducing the Edixa Stereo camera to Exakta owners, we are happy to report that the famous camera manufacturer in Wiesbaden, Germany, has become one of the dominant producers of stereo cameras. There are now three models of Edixa Stereo cameras, all precision instruments which contain essential features necessary to get wonderful, lifelike color, three-dimensional pictures. Their rapid, easy operation will give you confidence and better pictures. You can learn to operate them in an instant, and, because they are uncomplicated, you can concentrate on your pictures to make every shot a hit. Here are the details of the three Edixa Stereo Cameras:

Model IIIA - Edixa Rangefinder Stereo with Built-in Exposure Meter. This is, without question, the most modern stereo camera available, combining the ability to produce sparkling 3-dimensional masterpieces with the ease and efficiency of operation that a built-in rangefinder and accurate exposure meter can afford. It has two matched f/3.5 Cassar color corrected lenses, mounted in Prontor-SVS shutters with speeds from one full second to 1/300th of a second, including bulb and a self timer. Other features include: built-in flash synchronization and rapid winding lever; double exposure prevention; self-cocking lever; cable and tripod sockets and many others. Superbly finished in glistening satin chrome and rich black morocco leather.....

Model IIA - Edixa Rangefinder Stereo Camera. This magnificent camera combines a coupled rangefinder with fully automatic features. It has two matched Steinheil f/3.5 lenses in coupled Pronto shutters. with speed settings of bulb, 1/25th, 1/50th, 1/100th and 1/200th of a second. It also offers a self-timer, built-in flash, rapid winding and self-cocking levers, double exposure prevention, cable and tripod

Model IA - Edixa Stereo Camera, Here is an efficient stereo camera that will produce "salon" 3-dimensional quality pictures at a popular price. Its two-matched 35-mm., f/3.5 Steinheil Cassar lenses assure you of crisp, sharp color stereo pairs with every exposure. The rapid winding lever transports the film, cocks the shutter, advances the film counter and prevents double exposures. You have a choice of speeds from 1/25th to 1/200th of a second with the coupled Vario shutters. Other features include: a body shutter release, built-in flash; an accessory shoe for a rangefinder; and cable and tripod sockets. The Edixa Stereo Model IA is finished in satin chrome and black morocco leather\$59.95

MICROSCOPE ADAPTERS AND EXTENSION TUBES



Vastly popular with physicians, scientists, laboratory workers, industrial users and hobbyists, the 35-mm. Exakta is fast becoming a mainstay of photomicrography everywhere.

The Exakta's moderately-priced adapters eliminate the need for expensive special equipment in the photographing of what cannot be seen with the naked eye.

Another important economy lies in the use of 35-mm. film, both black-and-white and color. Where convenience and accuracy are desired, the Exakta's long time exposure is also a factor.

Ihagee offers photomicrographists a choice of two adapters for attachment to microscopes, usable with all 35-mm. Exakta models. The adapters link the camera to the microscope with a light-tight shield and position the film plane of the camera at the proper distance from the eye-piece of the instrument.

Model I is a hinged adapter with two extension tubes. The hinged clamp permits the camera to be tilted to one side when not being used, without being removed from the microscope.

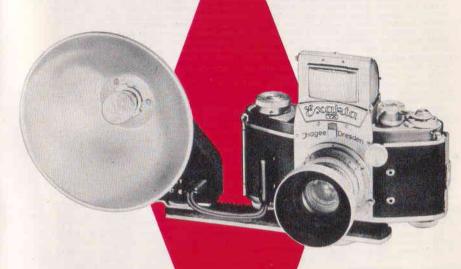
Model II is a two-piece pressure-type adapter, with two extension tubes. Top and bottom parts can be separated immediately, when it is desired to remove the camera quickly and easily from the microscope tube.

| Model | 1 | 29.50 |
|-------|------|-------|
| Model | II . | 36.50 |





B. C. FLASHGUN



Because of its small size convenience compactness, portability, efficiency and economy capacitor) flashgun has wined rapidly increasing favor with knowing photographers. The Exakta 8 6 Flashgun has been designed precisely for use with this camera, as well as with the Exa

Using a special long-life battery, the track a B. C. Flashgun will last two or three years without replacement and supply the power for hundreds of flashes. It provides powerful insurance against wasting flash bulbs and film. Compactly engineered and bandsomely designed, with a battery case hardly larger than a king-sized pack at eigenetes, the Exakta B. C. Flashgun can be slipped into your coat pocket. The mighty little flashgun uses midget-size, bayonet-tip bulbs, the least expensive type of all. Features safe, direct bulb ejector.

In addition to the battery and its handsome casing, the Exakta B. C. flash unit features a polished reflector designed to bathe the subject in balanced, maximum light; a flashgun bracket for attaching to camera; a special, pronged cord; outlet for extension flash.

For situations where the subject is more than 12 feet away, and additional lighting is required, a flash extension unit is available. The Exakta Extension Flash is provided with a reflector and approved connecting cord. No special batteries are needed. The Exakta Extension Flash simply plugs into the battery case of the Flashgun. It provides the balanced, controlled lighting that distinguishes pictures with the true professional touch.

| AUTOMATIC* EXAKTA VX, 35MM. SINGLE-LENS REFLEX CAMERA WITH PENTA PRISM | EVE-I EVEI |
|--|----------------|
| VIEWFINDER AND AUTOMATIC SPLIT-IMAGE RANGEFINDER | Price |
| * with f/2.0, 58-mm. Zeiss Biotar, coated, fully automatic lens | 392.00* |
| ★ with f/1.9, 50-mm. Schneider Xenon, coated, fully automatic lens ★ with f/2.0, 50-mm. Westagon, coated, fully automatic lens ★ with f/2.8, 50-mm. Westanar, coated, fully automatic lens | 398.70* |
| * with f/2.0, 50-mm. Westagon, coated, fully automatic lens. | 336.50* |
| with f/1.5, 75-mm. Veiss-Riotar lens T-coated with pre-set diaphragm | 296.50° |
| with f/1.9, 75-mm. Hugo Meyer Goerlitz Primoplan lens, V-coated, with pre-set diaphragm | 356.50* |
| with f/1.5, 50-mm. Angenieux type S21 lens, coated, with pre-set diaphragm | 416.50* |
| with 1/2.8, 30-lim. Vestalar, coated, tury automatic lens. with f/1.5, 75-mm. Zeiss-Biotar lens, T-coated, with pre-set diaphragm with f/1.5, 50-mm. Angenieux type S21 lens, coated, with pre-set diaphragm with f/2.8, 50-mm. Zeiss Tessar lens, T-coated, with pre-set diaphragm with f/3.5, 50-mm. Zeiss Tessar lens, T-coated, with standard diaphragm Leather eveready carrying case for Exakta VX with 50-mm. and 58-mm. lenses | 326.50* |
| leather eveready carrying case for Evakta VX with 50-mm, and 58-mm, lenses | 286.50* |
| Leather eveready carrying case for Exakta VX with 75-mm. lens | 15.00 |
| Waist-level reflex viewfinder | 20.00 |
| Leather case for waist-level viewfinder or Penta Prism viewfinder VIEWFINDER ACCESSORIES | 3.00 |
| Penta Prism eye-level prismatic viewfinder with split-image rangefinder | 85.00* |
| Penta Prism eye-level prismatic viewfinder | 50.00* |
| Split-image rangefinder glass only (to fit Penta Prism Finder) Eyepiece for Penta Prism viewfinder | 35.00* |
| Waist-level reflex viewfinder | 3.50 20.00 |
| Waist-level reflex viewfinder Leather case for Penta Prism viewfinder or waist-level reflex viewfinder | 3.00 |
| AUTOMATIC LENSES, COATED | |
| f/1.9, 50-mm. Schneider Xenon, fully automatic lens | . 169.50 |
| f/2.0, 50-mm. Westagon, fully automatic lens | . 110.00 |
| f/2.8, 50-mm. Westanar, fully automatic lens | . 69.50 |
| HIGH SPEED LENSES, COATED | |
| 1/1.5, 50-mm. Angenieux Type S21, pre-set diaphragm | . 165.00 |
| f/1.9. 75-mm. Hugo Meyer Goerlitz Primonlan, pro-set diaphragm | . 216.50 |
| f/1.5, 50-mm. Angenieux Type S21, pre-set diaphragm. f/1.5, 75-mm. Zeiss Biotar, pre-set diaphragm. f/1.9, 75-mm. Hugo Meyer Goerlitz Primoplan, pre-set diaphragm f/1.8, 90-mm. Angenieux Type P1. | 149.50 |
| | Leather |
| WIDE-ANGLE LENSES, COATED Price | Case |
| 1/3.5, 28-mm. Angenieux Retrofocus Type RTD. 120.00 1/2.5, 35-mm. Angenieux Retrofocus Type RT. 99.50 1/4.5, 40-mm Zeiss Tessar. 85.00 1/4.5, 40-mm Langer Mover Coordity Meliander 85.00 | < 6.95 |
| 1/2.5, 33-mm. Angenieux Retrotocus type RI | 6.95 |
| | 5.75 5.75 |
| f/3.5, 40-mm. Steinheil Cassaron | 5.75 |
| | Leather |
| TELEPHOTO LENSES, COATED Price | Case |
| f/2.8, 85-mm. Steinheil Culminar 69.50 f/1.8, 90-mm Angenieux Type P1 149.50 f/2.5, 90-mm. Angenieux Type Y1 94.50 | 6.95 |
| 1/1.8, 90-mm Angenieux Type P1 | 7.95 |
| f/2.8, 100-mm. Hugo Meyer Goerlitz Trioplan | 7.95 7.95 |
| | 7.95 |
| f/2.8, 135-mm. Steinheil Quinar, pre-set diaphragm. 149.50 f/3.5, 135-mm. Angenieux Type Y2. 89.50 f/4.0, 135-mm. Zeiss Triotar, pre-set diaphragm. 85.00 f/4.6, 135-mm. Zeiss Triotaell Carlosses 85.00 | 7.95 |
| 1/3.5, 135-mm. Angenieux Type Y2 | 7.95 |
| 7/4.0, 135 mm. Steinheil Culminar | 7.95 |
| | 7.95 19.95 |
| f 4.5, 180-mm. Angenieux Type P21 96.00 f 5.5, 150-mm. Hugo Meyer Goerlitz Tele-Negor | 7.95 |
| f/5.5, 150-mm. Hugo Meyer Goerlitz Tele-Megor | 7.95 |
| 1/5.5, 180-mm. Hugo Meyer Goarlitz Tele-Megor | 7.95 |
| 1/3.5, 20-11111. Tugo Meyer Goeritz Tele-Megor 132.15 | 15.95 |
| f/3.5, 300-mm. TV Ferninse Telagon 360.00 | 19.95 29.95 |
| f/4.5, 400-mm. TV Fernlinse Telagon | 29.95 |
| 1/5.0, 500-mm. TV Fernlinse Telagon | 39.95 |
| 1/5.0, 500-mm. TV Ferninse leion | 49.95 |
| f/5.5, 150-mm. Hugo Meyer Goerlitz Tele-Megor 55.95 f/5.5, 180-mm. Hugo Meyer Goerlitz Tele-Megor 82.95 f/5.5, 250-mm. Hugo Meyer Goerlitz Tele-Megor 132.15 f/5.5, 400-mm. Hugo Meyer Goerlitz Tele-Megor 199.50 f/3.5, 300-mm. TV Fernlinse Telagon 360.00 f/4.5, 400-mm. TV Fernlinse Telagon 360.00 f/5.0, 500-mm. TV Fernlinse Telagon 450.00 f/5.0, 600-mm. TV Fernlinse Telon 565.00 f/6.3, 800-mm. TV Fernlinse Telon 750.00 COPYSTAND OPTICAL BENCH SYSTEM | 49.95 |
| CopyMat, optical bench system copystand, complete with accessories | |
| MODEL I | 97.50 |
| Model 2 | 117 00 |
| VERSAL ASSEMBLY (AND PARTS) Baseboard Metal Postal Arrangement | |
| Baseboard Metal Postal Arrangement | 50.00 |
| | 30.00 |
| Bellows Extension Rotating Angle Bracket Assembly | 35.00 |
| | 20.00 35.00 |
| NUIK TUI ALLACHINE CAMERA TERS TO Transparency Conving Attachment | 3.50 |
| Light-trap Tube for Photomicrography | 7.50 |
| Versal Assembly Complete Outfit | 181.00 |
| BELLOWS EXTENSION APPARATUS | |
| Bellows extension for Exakta (single carriage) | 32.50 |
| Dellows extellsion for exakty (dolinie carriage) | 57.50 |
| Tripod Rack for use with single carriage Leather carrying case for either single or double carriage | 16.50 |
| | 5.95 31.50 |
| | 60.00 |
| Adapter for front part of 135-mm. Steinheil Culminar so it can be used for bellows extensions | 6.00 |
| *Prices Fair Traded | PA |

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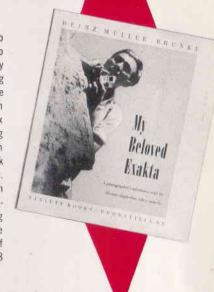
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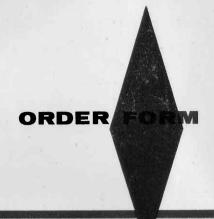
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