

Continued ...





## 35-MM AUTOMATIC EXAKTA VX

Long recognized as the pace-setter in the field of photographic achievement, the Automatic Exakta VX with its single-lens reflex system continues to open new frontiers. Here is a precision instrument that embodies automatic 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.

### 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. The 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.

# 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 wi

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.

### 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**

f/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.

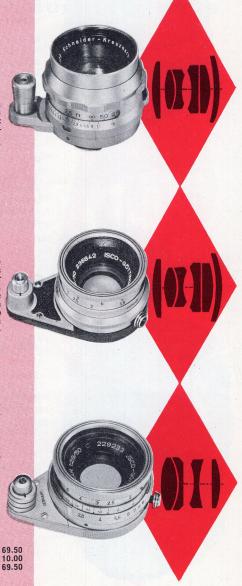
### AUTOMATIC WESTANAR

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 Westhans is a four-element lens of 50-mm. focal length with a maximum aperture of f/2.8 — speed to spare in all general and specialized photography. It is available with the Exakta 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





# F/1.9, 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

### F/1.5, 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.

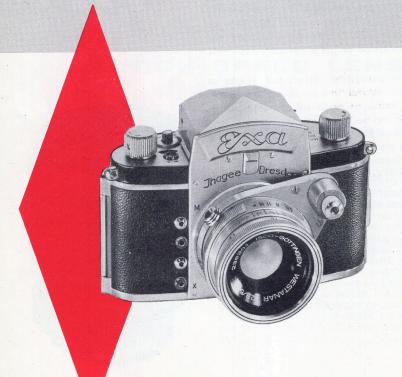
The creative photographer realizes that, at such an advantageous distance from the subject, as provided with the Culminar, he avoids making the subject uncomfortable and self-conscious, resulting in a more relaxed, natural, expressive portrait, fully utilizing the remarkable possibilities of the Exakta.



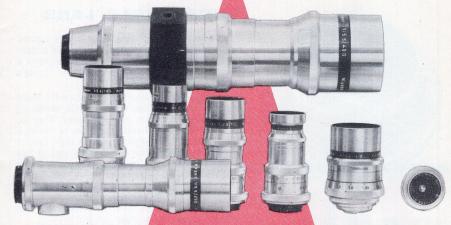
# **AUTOMATIC EXA**

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  $5" \times 3\frac{1}{2}" \times 2"$ ) 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.

Automatic Exa with 50-mm., f/2.8 fully automatic Isco Westanar and Penta	
Prism Viewfinder with Split-image Rangefinder	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



# 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.

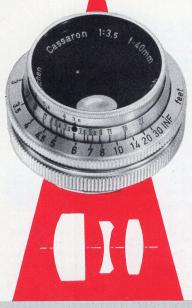
In other cases where the demands of subject or the perfectionism of the photographer require more than average results, the 250-mm. or 400-mm. Tele-Megor will best satisfy the requirement. Thus, they are often used in exploration, for marine use, by aircraft personnel, as well as for long-distance bird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

f/2.8,	100-mm,	Hugo	Meyer	Goerlitz	Trioplan \$	75.00
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

# THE F/3.5, 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 atriplet 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 F/4.5, 40-MM. CARL ZEISS TESSAR WIDE ANGLE LENS



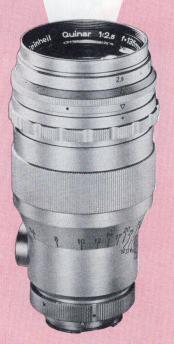
The Zeiss Tessar Wide Angle Lens is one of the most useful of the family of lenses stamped with the world-famous name of Zeiss. Having a 57° angle of view, this lens focuses from 2½ feet to infinity and stops down to f/22. It is highly corrected for color and black and white, and maintains edge-to-edge 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 perfectely mated with the Exakta. \$85.

# 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.

f	/2.8, 13	ō-mm.	Steinheil	Quinar\$	149.50
f	/4.5. 200	)-mm.	Steinheil	Quinar	149.50





# THE 21/4 x 21/4-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 f/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, 1/100

Utilizing the 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 range.

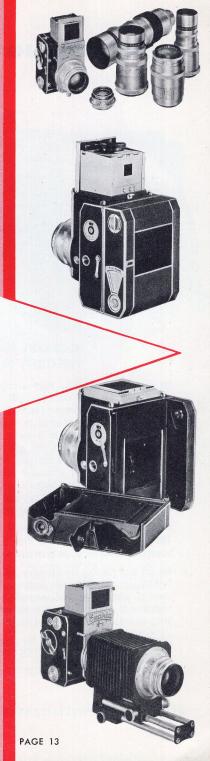
The back of the camera is removable and can be locked with a swinging lever. An indentation in the back affords a fingerhold for grasping and steadying the camera.

Compactly designed for easy handling, the "66" is almost square in shape, measuring 5½ inches high, 4½ inches deep and 4½ 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

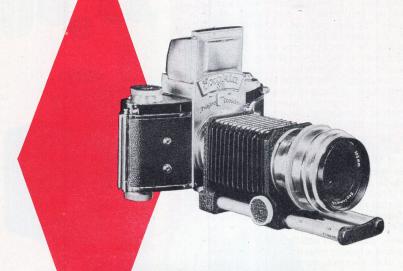
Other features include a film-notes device, loops for neckstraps and tripod sockets on both the bottom and side.

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



# CONTINUOUS FOCUSING



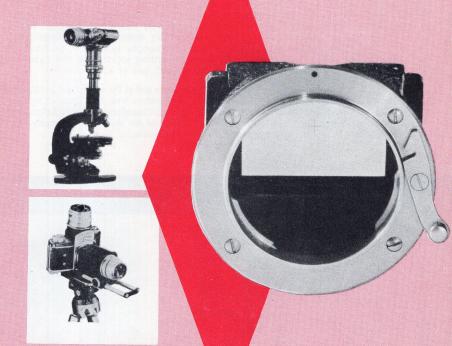
# A SIGNIFICANT ADVANCE IN THE RANGE AND VERSATILITY OF EXAKTA PHOTOGRAPHY

For years photographers 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 offinity 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, lifesize 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 Iens. With this combination, most photographic necessities from hyperclose-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.

# 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

# THE VERSAL, A NEW IHAGEE UNIT

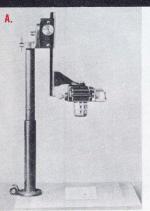
The Versal assembly is a completely new and versatile series of related accessories for the Exakta. The idea for this unit was conceived by Exakta owners themselves, and was the result of their asking for more efficient bellows than those which were standard at that time. While working to produce a precision bellows unit for Exakta owners, Ihagee 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.

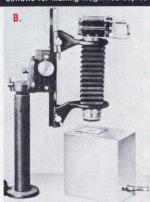
The Versal permits the Exakta photographer to travel into space and at the same time, penetrate the mysteries of the infinitesimal. It is amazing, but nevertheless true, that when using the Versal the Exakta photographer sees himself as an explorer, laboratory scientist, naturalist, or engineer. There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

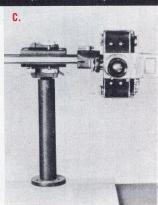
Baseboard-post arrangement used for copying books, documents or other materials.

Baseboard-post arrangement and bellows for making magnified copies.

Sliding rail arrangement for verticalformat pictures and for making stereo (three-dimensional) shots







### VERSAL ASSEMBLY (AND PARTS)

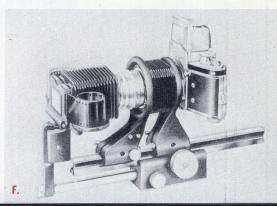
Baseboard Metal Post Arrangement	50.0
Sliding Arm with Calibrated Scale	30.0
Bellows Extension	35.0
Rotating Angle Bracket Assembly	20.0
Transparency Copying Attachment	35.0
*Ring for attaching camera lens to Transparency Copying Attachment	3.5
Light-trap Tube for Photomicrography	7.5

\*Specify lens when ordering

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

# **FOR EXAKTA OWNERS**

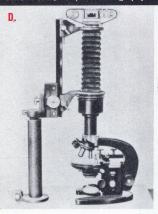


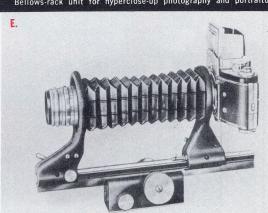


Special duplicating setup for making copies of color and black-and-white transparencies.

Baseboard-post and bellows setup for photomicrography.

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





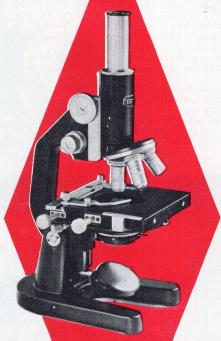
Each precision-made accessory in the Versal assembly can be used separately or in many varied combi-nations with the Exakta for laboratory, medical, dental and other scientific photography, for industrial photography and other professional purposes. The Versal assembly consists of a wooden baseboardmetal 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 bellows.

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)

# MICROSCOPES



An important optical manufacturer in Germany gave up the production of microscopes, and will devote his entire facilities to the construction of lenses for photography. He made arrangements with us to offer the remaining inventory of microscopes to Exakta owners and to scientific users. Accordingly, we are in the position to offer at an advantageous price, the top-quality Research Microscope, designed for laboratories, hospitals, colleges, schools, physicians, research workers, engineers, and scientists.

The highest care, minute considerations and rigid specifications make this microscope a triumph in optical efficiency. 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 Camera Co. and the manufacturer.

# THE COPYMAT



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 8½x13-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 "T" 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 monorail 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 Rangefinder.

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 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 outstanding 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.

		Telagon	
400-mm.,	1/4.5	Telagon	300.00
500-mm.,	f/5.0	Telagon	450.00
600-mm.,	f/5.0	Telon	565.00
800-mm.,	f/6.3	Telon	750.00



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**



2



3.



4.



5.



6.



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.

### 1: DUST CAP.

### 2. 2-IN-1 ADAPTER.

#### 3 CASSETTE.

#### 4. EYEPIECE FOR PENTA PRISM.

#### 5. REWIND LEVER.

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

#### 6. GIANT RELEASE KNOB.

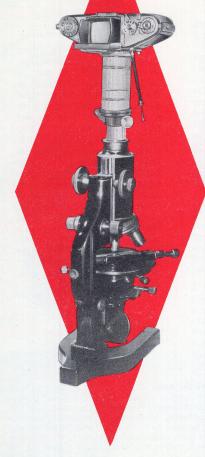
### 7. METAL NECKSTRAP.

# EDIXA STEREO CAMERAS



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:

# 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.

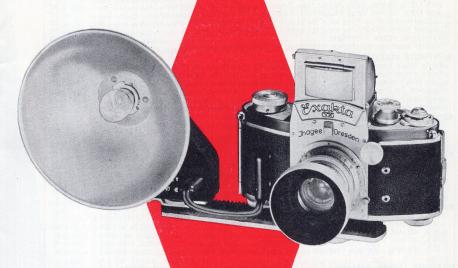
Ihagee offers photomicrographists a choice of two adapters for attachment to microscopes, usable with all 35-mm. Exakta models. The adapters link the camera to the microscope with a light-tight shield and position the film plane of the camera at the proper distance from the eye-piece of the instrument.

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.







Because of its small size, convenience, compactness, portability, efficiency and economy in use, the extremely dependable B. C. (battery capacitor) flashgun has gained rapidly increasing favor with knowing photographers. The Exakta B.C. Flashgun has been designed precisely for use with this camera, as well as with the Exa.

Using a special long-life battery, the Exakta 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 handsomely designed, with a battery case hardly larger than a king-sized pack of cigarettes, 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.

# **EXAKTA PRICE LIST**

AUTOMATIC* EXAKTA VX, 35MM. SINGLE-LENS REFLEX CAMERA WITH PENTA PRISM VIEWFINDER AND AUTOMATIC SPLIT-IMAGE RANGEFINDER	EYE-LEVEL Price
* with f/2.0, 58-mm. Zeiss Biotar, coated, fully automatic lens.  * 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  * with f/1.5, 75-mm. Zeiss-Biotar lens, T-coated, with pre-set diaphragm  with f/1.9, 75-mm. Hugo Meyer Goerlitz Primoplan lens, V-coated, with pre-set diaphragm  with f/1.8, 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  Leather eveready carrying case for Exakta VX with 75-mm. lens.  Waist-level reflex viewfinder  Leather case for waist-level viewfinder or Penta Prism viewfinder	398.70* 336.50* 296.50* 450.00* 356.50* 416.50* 286.50* 12.00 15.00 20.00
Penta Prism eye-level prismatic viewfinder with split-image rangefinder	50.00* 35.00* 3.50 20.00 3.00
f/1.9, 50-mm. Schneider Xenon, fully automatic lens f/2.0, 50-mm. Westagon, fully automatic lens f/2.8, 50-mm. Westanar, fully automatic lens	110.00
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
WIDE-ANGLE LENSES, COATED         Price           f/3.5, 28-mm. Angenieux Retrofocus Type R11         120.00           f/2.5, 35-mm. Angenieux Retrofocus Type R1         99.50           f/4.5, 40-mm Zeiss Tessar.         85.00           f/4.5, 40-mm Hugo Meyer Goerlitz Helioplan.         54.50           f/3.5, 40-mm Steinheil Cassaron.         54.50	Leather Case 6.95 6.95 5.75 5.75
TELEPHOTO LENSES, COATED         Price           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           f/2.8, 100-mm. Hugo Meyer Goerlitz Trioplan         75.00           f/2.8, 135-mm. Angenieux Type P2         179.50           f/2.8, 135-mm. Angenieux Type P2         179.50           f/3.5, 135-mm. Angenieux Type Y2         89.50           f/4.0, 135 mm. Zeiss Triotar, pre-set diaphragm         85.00           f/4.5, 135-mm. Steinheil Culminar         69.50           f/4.5, 135-mm. Steinheil Quinar, pre-set diaphragm         149.50           f/4.5, 138-mm. Angenieux Type P21         96.00           f/4.5, 1380-mm. Angenieux Type P21         96.00           f/5.5, 150-mm. Hugo Meyer Goerlitz Tele-Megor         149.50           f/5.5, 250-mm. Hugo Meyer Goerlitz Tele-Megor         82.95           f/5.5, 250-mm. Hugo Meyer Goerlitz Tele-Megor         82.95           f/5.5, 400-mm. Hugo Meyer Goerlitz Tele-Megor         132.15           f/3.5, 300-mm. TV Fernlinse Telagon         360.00           f/5.0, 600-mm. TV Fernlinse Telagon         360.00           f/5.0, 600-mm. TV Fernlinse Telagon         450.00           f/6.3, 800-mm. TV Fernlinse Telagon         750.00  <	5.75 Leather Case 6.95 7.95 7.95 7.95 7.95 7.95 7.95 7.95 7
CopyMat, optical bench system copystand, complete with accessories Model 1 Model 2 MOD	117.00
VERSAL ASSEMBLY (AND PARTS) Baseboard Metal Postal Arrangement. Sliding Arm with Calibrated Scale Bellows Extension Rotating Angle Bracket Assembly Transparency Copying Attachment **Ring for attaching camera lens to Transparency Copying Attachment Light-trap Tube for Photomicrography	50.00 30.00 35.00 20.00 35.00 3.50 7.50
Versal Assembly Complete Outfit  BELLOWS EXTENSION APPARATUS Bellows extension for Exakta (single carriage) Bellows extension for Exakta (double carriage)	32.50 57.50 16.50 5.95 31.50 60.00 6.00

# EXAKTA PRICE LIST

CONTINUOUS FOCUSING ASSEMBLY  Pollogic extension for Evolute (circle corriege) with f (4 E. 105 mm. rected Steinheil lene	E0 E0
Bellows extension for Exakta (single carriage) with f/4.5, 105-mm. coated Steinheil lens Bellows extension for Exakta (double carriage) with f/4.5, 105-mm. coated Steinheil lens Bellows extension for Exakta (double carriage) with f/4.5, 135-mm. coated Schneider	59.50 84.50
Xenar lens	250.00
MISCELLANEOUS ACCESSORIES	
Scientific waist-level reflex viewfinder for Exakta V and VX with special focusing glass:	29.50
With ground glass with center cross	29.50
With ground glass with clear center spot and hairline center cross	33.50
Leather case for viewfinders	3.00
Ground glass with center cross	12.00
Glear glass with center cross	12.00
Ground glass with clear center spot and hairline center cross	16.00
Ihagee Two-in-one adapter for extremely short extension	10.00
hagee Type I hinged microscope adapter, complete set, with 2 extension tubes	29.50 36.00
Camera Clamp—fastens to round or flat object for vertical or horizontal positioning	3.95
"Elektra" Remote Control attachment, releases shutter at moment desired	9.50 15.50
Flashgun for Exakta, B.C. Capacitor	3.00
Cable release	.75 1.50
Reflex focusing hood	2.00
Thagee Giant Release Knob (for all models)	1.25 1.50
Dust Cap, for Exakta Camera Body Flexible metal neckstrap, chrome plated	3.50
Exakta lens holding mount for enlargers	5.00
Exakta lens holding mount for enlargers S.W. Universal Cassette, permits use of 35-mm. bulk film	5.70 14.95
SPECIAL SCIENTIFIC VIEWFINDER	
Magnear Viewfinder with regular ground glass Focusing glass with center spot and hairline Magnear Viewfinder with regular ground glass and Zeiss Tessar 50-mm., non pre-set f/3.5	21.00
Magnear Viewfinder with regular ground glass and Zeiss Tessar 50-mm., non pre-set f/3.5	16.00
coated lens for critical focusing	59.50
Zeiss Tellup Telescopic Magnifier for additional magnification up to 15X	18.00
ADAPTERS, SUNSHADES, FILTERS Filter adapters‡ (screw-in):	
Series V for 2.8 and 3.5 Tessar, 2.0 Xenon, 2.8 Trioplan (100-mm.)	1.50
2.8 Westar, 2.0 Westagon automatic	2.40
Series VII for 1.5 and 1.8 Angenieux (S-21 and P-1), 1.9 Primoplan (58-mm. and 75-mm.) 2.0 Biotar pre-set, 2.8 Quinar, 5.5 Tele-Megor (250-mm.) 2.0 Biotar automatic.	
1.5 Biotar (75-mm.), 4.5 Quinar	5.00
1.5 Biotar (75-mm.), 4.5 Quinar	6.00 8.00
SUNSHADES: (Must be used with filter adapter above)	
Series V Series VI	1.75 2.00
Series VII	4.00
Series VIII	5.00
Series VIII-WA-(Wide Angle)	8.00
Series IX-WA—(Wide Angle)	9.00
Series V to VI Series VI to VII Series VII to VIII Series VII to VIII Series VIII to IX	1.50
Series VI to VII	2.00
Series VIII to IX	3.00 5.00
FILTERS:	
Series V	1.95 2.25
Series VII	4.50
Series VII Series VIII Series IX	8.00 10.75
Zeiss Screw-in Filters for Tessar f/3.5 and Tessar f/2.8 pre-set lenses — available in orange, light green, medium green and dark green	4.50
(when sunshade is required, use 42-mm, standard slip-on type) FILTERSETS, 4 filters with screw-in adapter and sunshade:	
with genuine leather top-grain cowhide filter case Series V	14.50
Series VI	17.85
Series VII	29.85
‡Please specify lens when ordering adapter.	

### STEINHEIL FEATHERWEIGHT BINOCULARS

There's a place among every discriminating Exakta owner's equipment for a pair of matchless Steinheil Featherweight Binoculars, products of C. A. Steinheil Optishe Werke, Munich, Germany. Every photographer, at some time during his photographing career, has experienced the desire to inspect closely the details of a scene to be photographed, only to discover that distance prevented it. This is especially true of telephotographers. A handy pair of Steinheil Featherweights provides the ideal solution to such problems and, in addition, will serve a lifetime of pleasurable use when travelling, at sports events and on vacations.

Steinheil Featherweight Binoculars rank among the World's finest, genuine prism instruments. They reflect fine workmanship, exacting quality, sound optical calculations, and precision in every detail. Over one hundred years of optical experience goes into the manufacture of every pair of Steinheil Binoculars.

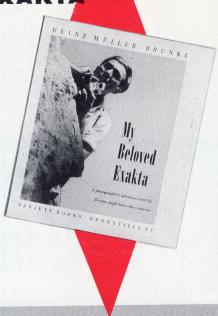


# **EXAKTA PUBLICATIONS**

# MY BELOVED EXAKTA

by Heinz Muller-Brunke

"This book particularly addresses itself to the friends of the Exakta, those who want to try for pictures similar to those taken by Muller-Brunke. Of course, there is no getting ahead without proper enthusiasm. Miniature photography needs special discipline and clean precision, even though a single-lens reflex camera offers so much to facilitate working that one can concentrate almost entirely on the picture itself, without having to think about the technical operation of the camera. Heinz Muller-Brunke says it is for this reason that he has chosen the single-lens reflex camera. To him the scene is always the starting point of his work, while he is looking for the simplest technical way - within the reach of everybody." Album size, 128 photographs (8 in color). \$5.00.



### 35MM PHOTOGRAPHY WITH AN EXAKTA

by Kenneth Allinson, A.R.P.S. (second edition)

The author being an authority on his subject matter, is completely devoted to it; he says, "here is the best camera for most purposes." Landscape, portrait, architectural, action, medical and scientific photography are discussed specifically and an impressive sampling of Exakta photographs made with this versatile camera is included.

### EXAKTA GUIDE

by W. D. Emanuel

A must publication for Exakta owners, this is a complete and thorough manual for operating and knowing your camera. A portfolio of outstanding photographs, made with the Exakta, is included.

5 x 6½, 114 pp......\$1.75

# **EXAKTA PUBLICATIONS**

### INSECTS CLOSE UP

by Edward S. Ross

Here is a readable and authoritative description of many interesting American insects and their life patterns plus a guide for the beginning Exakta photographer in this field. The illustrations taken with the Exakta in color and black and white, are outstanding, offering intimate close-up views of insects in action in their own environment.

 $6\frac{1}{2}$  x 9. 81 pp., 125 photographs and drawings (8 in color).

\$1.50

# NATURE PHOTOGRAPHY WITH HIGH SPEED FLASH

by Walter Van Riper, Robert J. Niedrach and Alfred M. Bailey

Many dramatic examples of high-speed flash technique and authoritative advice are included in this book - particularly on the use of the Exakta, from the authors - Curator of the Dept. of Birds, Curator of the Dept. of Insects and Spiders and Director of the Denver Museum of Natural History respectively - all experts on the subject. A large part of the pictures in the book are taken with the Exakta camera. 

## NATURE PHOTOGRAPHY WITH MINIATURE CAMERAS

by Alfred M. Bailey

The author — explorer, scientist and director of the Denver Museum of Natural History — relates his experiences during 40 years of field work all over the world and gives tips on using small cameras to photograph wild life. A large part of the pictures in the book are taken with the Exakta camera. 

## STEPPING STONES ACROSS THE PACIFIC

by Alfred M. Bailey and Robert J. Niedrach

The stepping stones are the fabled Pacific Islands, pathway through a tropical paradise that has known both war and peace and given inspiration and immortality to artists and writers. Now seen through the medium of film, the islands gain new perspective in a words-and-picture story of their bird and animal life, told by the Director and the Curator of the Dept. of Birds, Denver Museum of Natural History, and their 16-mm, motion picture cameras and 35-mm. Exaktas. A large part of the pictures in the book are taken with the Exakta.

You are invited to inspect this New Exakta Equipment at your nearest Exakta Dealer. If you prefer to order by mail, use this Order Form

Please tear at the side, check reverse side to make certain your name and address is correct, and mail with your remittance to your dealer or to: Exakta Camera Company, 705 Bronx River Rd., Bronxville 8, N. Y.



QUANTIT	Y ITEM	UNIT PRICE	TOTA
	Enclosed in Cash	TOTAL OF ORDER	
		TOTAL OF ORDER_	
	Enclosed in Cash Check	TOTAL OF ORDER	
	Enclosed in Cash Check	TOTAL OF ORDER	
	Enclosed in Cash	TOTAL OF ORDER	
	Enclosed in Cash Check Money Order  NAME  ADDRESS	TOTAL OF ORDER	

YORK



POSTMASTER: FORM 3547 REQUESTED RETURN POSTAGE GUARANTEED