



**EXAKTA**

*Vorex*

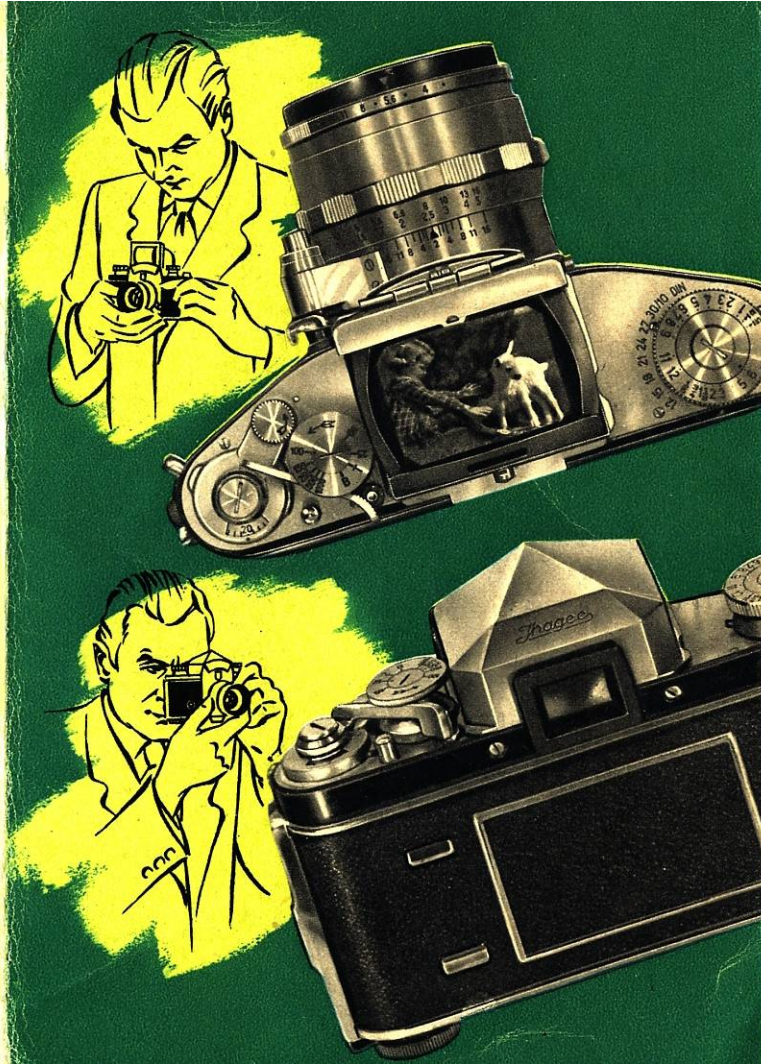
24x36  
mm

To master any subject with speed and safety, and yet with photographic accuracy – that is the real strength of the EXAKTA Varex, it is the collective result of its most important constructive features.

### The Single-Lens Miniature Reflex Camera EXAKTA Varex

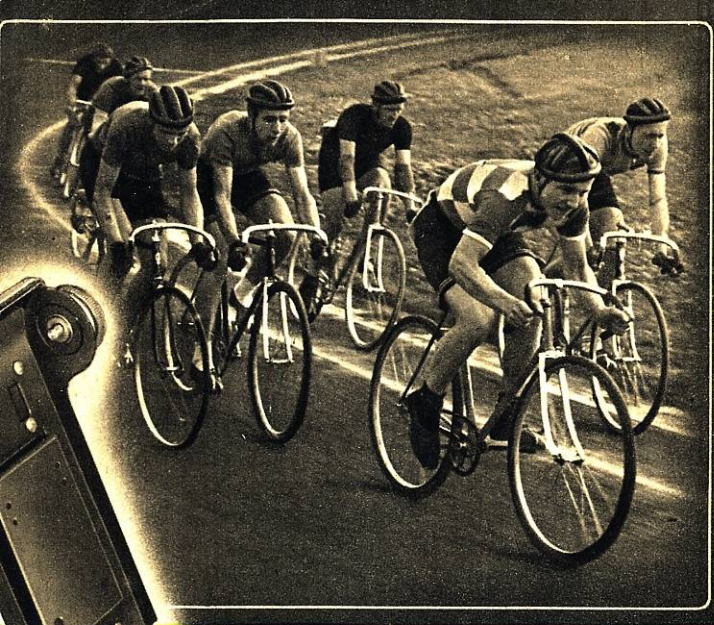
shows the photo to be taken already beforehand in the reflex image. This finder image is bright, upright, clear-cut, and in natural colour. Above all, it is enlarged to such an extent as to permit most critical focussing and sure judgment of the photographic effect of the picture, even for the quickest shot. Stop down the diaphragm, and the reflex image will distinctly reveal the increase in depth of sharpness.

But what is most important: There is no deviation in outline between the finder image and the final picture (no parallax). What you see in the finder, you will get on the negative, for there is only one lens that reproduces first the finder image and then the photograph. This is a fundamental advantage also when using any one of the special lenses for close-ups, photomicrography, or astrophotography, as well as in connection with other scientific instruments which can be attached to the EXAKTA Varex. Whatever your photographic task may be, the large finder image will always act as an unbiased counsellor in all problems of pictorial composition.



### The Two-System Camera EXAKTA Varex

possesses not only the usual Finder Hood of the mirror reflex camera, but is provided also with a second focussing system, the Penta Prism. Both focussing arrangements operate on the base of the photo-like reflex image and are interchangeable in a moment. The choice between Finder Hood and Penta Prism depends entirely on the kind of work to be done. In the Finder Hood, the upright but laterally reversed image can be viewed from above, from below and, with the camera in vertical position, at a right angle to the object. For objects lying considerably below eye-level, the Finder Hood renders excellent service, also for exposures with the tripod, the copying stand, microscope, etc. It is, in fact, a most practical device where subjects with little or no movement are concerned. The Penta Prism, on the other hand, is particularly designed for moving subjects. It permits using the camera at eye-level for direct vision. You expose in the direction in which you are viewing the picture. Whether vertical or horizontal, the Penta Prism shows a laterally correct image too, so that you can follow moving objects in the finder in the same direction as in reality. That is why the Penta Prism is exactly what you need for high-speed shots (sports, circus, theater, etc.).



The Penta Prism and the fast shutter speeds guarantee pinpoint sharpness in sport pictures.



### More Interesting Features of the EXAKTA Vorex

**Objective:** Interchangeable trade-marked lenses (see back page of this brochure) with bayonet mount; helical focussing and diaphragm pre-setting device or automatic preset diaphragm, supplementary lenses for special requirements, with focal length ranging from 35 to 500 mm and with apertures up to f/1.5.

**Shutter:** Focal-plane shutter for automatic speeds from  $\frac{1}{1000}$  th second to 12 seconds and time exposures of any desired length (T and B). Self-release with 13 seconds delayed action for the shutter settings from  $\frac{1}{1000}$  th second to 6 seconds. Shutter locking lever prevents inadvertent tripping of the shutter.

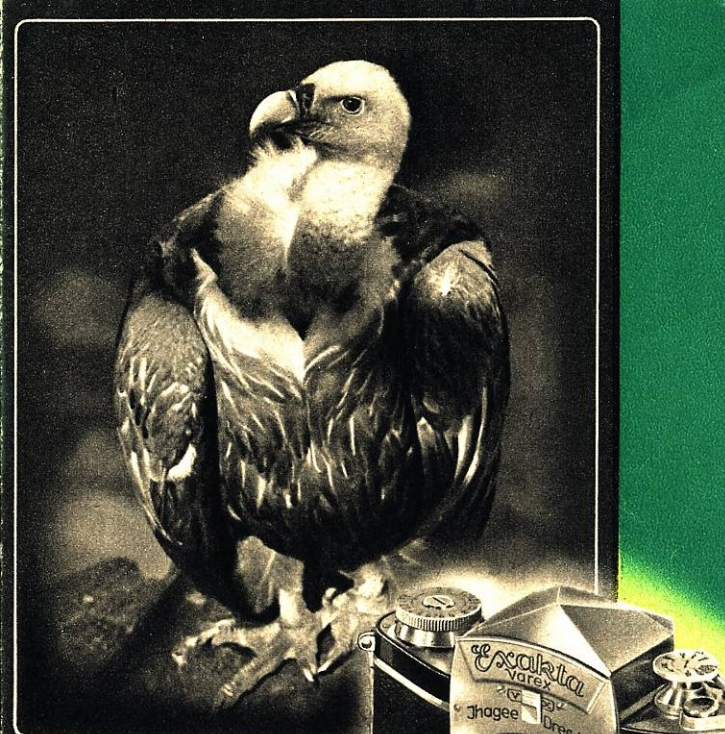
**Film Track:** Designed for perforated 35 mm cine film. Negative size:  $1\frac{1}{2} \times 1$  in. (24 x 36 mm). Film transport either from cartridge to cartridge or with rewind mechanism (both controllable from outside). Film counter up to 36 exposures. Film-cutting device. Film speed indicator. Film transport coupled with shutter winding mechanism, no unintentional double exposures.

**Camera Equipment:** Camera body and picture level in one piece of diecast aluminium alloy: sturdy and reliable. Leather covering. Uncovered metal parts chromed or enamelled. Hinged, detachable camera back with reliable lok. Large tripod socket with broad rim. Approx. weight of the EXAKTA Vorex: 950 grams. Approx. size of camera, closed, 15 x 9.5 x 7.5 cm.

**Flash Contact:** Synchronized flash contact sockets for flash bulbs and electronic flash units. Most economic for the use of flash bulbs is the IHAGEE Flashgun (with battery case suitable for capacitor ignition, reflector and adjustable lamp holder). Shutter speed when using electronic units:  $\frac{1}{50}$  second.

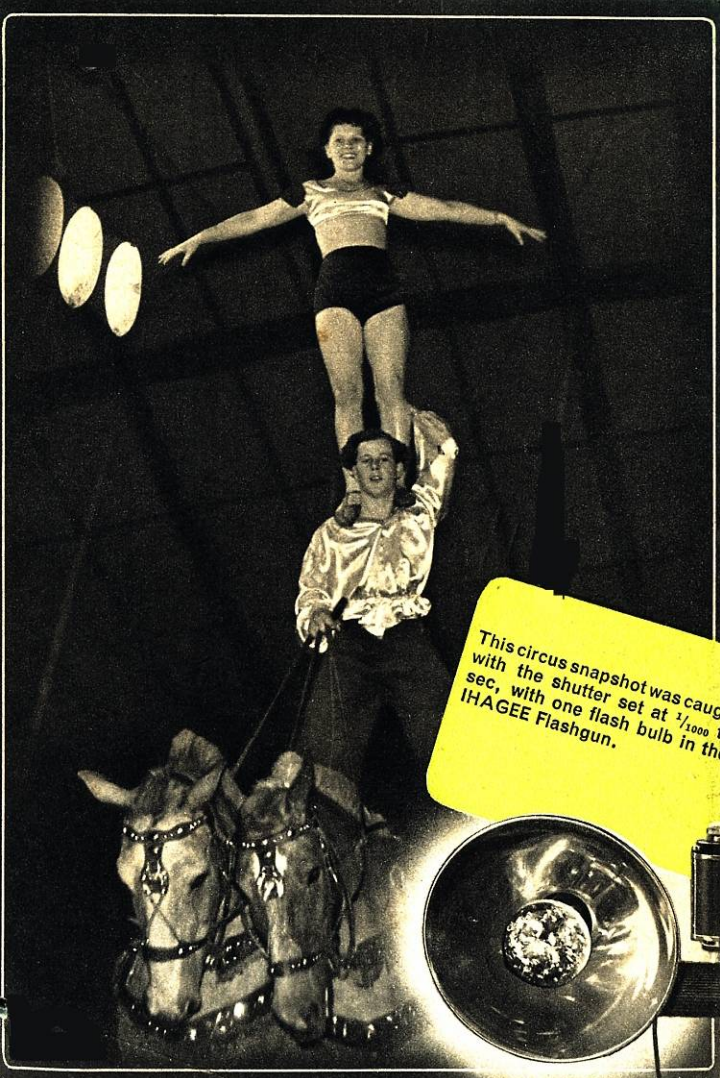
**Focussing Systems:** Finder Hood attachment (yielding an approx. 6 fold magnification of the ground-glass image) and Penta Prism (yielding an approx. 5 fold magnification of the groundglass image). The Finder Hood is convertible into a direct-vision frame finder. Additional special focussing arrangements:

1. Lens Magnifier Attachment to use highly corrected standard or supplementary lenses for focussing purposes (particularly in macro and micro work).
2. Stereo Viewing Piece for threedimensional photography with the Stereo Attachment (allows for three dimensional pre-viewing and may also be used as a stereo picture viewer).



Long distances - and yet large pictures: that is the outstanding advantage of the manifold long-focus lenses made to fit the EXAKTA Vorex.





This circus snapshot was caught with the shutter set at  $\frac{1}{1000}$  th sec, with one flash bulb in the IHAGEE Flashgun.



**Special Magnifiers to fit the Focussing Systems :** The magnifiers in the Finder Hood, the Penta Prism and the lens magnifier attachment as a rule have an all-over ground glass surface. They can, however, be exchanged for special magnifiers with clear center spot or entirely of clear glass, for special requirements also with etched-in auxiliary lines (for macro- and micro-photography).

**The Distance Meter :** This extremely valuable special magnifier unites the advantages of the split-image range-finder with the good qualities of the single-lens reflex camera.

**Colour Photography :** The reflex image is wonderfully true-to-nature in all its colour, and sharply outlined, exactly like the finished photograph. This is why it is so very easy to prejudge the effect of the future colour slide.

**Close-ups and Macrophotography :** A most simple matter - by inserting intermediate bayonet rings and tubes of various lengths between the lens and the camera. Combination as required. Focussing as usual - on the ground-glass image. Close-up work with the "Vielzweck" (see below).

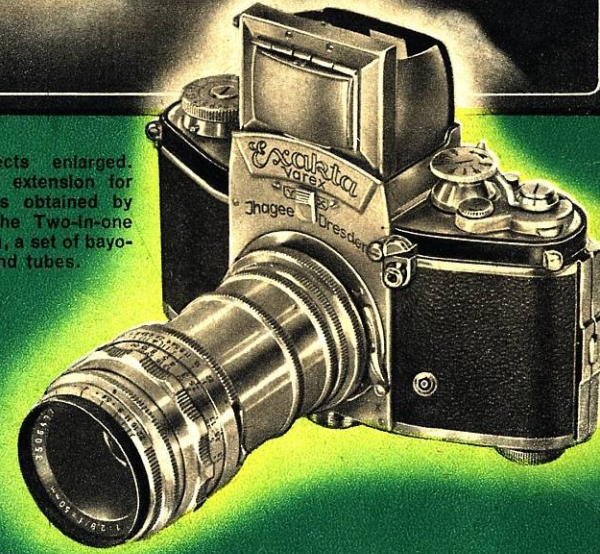
**Photomicrography :** Microscope connected to the EXAKTA Vares by means of one of the two microscope attachments or with the aid of the "Vielzweck" (see below). Focussing in micro work, too, is performed on the reflex image.

**Additional Accessories :** Besides the little extras such as cases, filters, sunshades, etc. a series of supplementary instruments have been constructed to meet the requirements of the serious amateur, the professional photographer, and the scientist. To begin with, we would mention the "Vielzweck" (a combination of various parts and part groups, designed particularly for close-ups, copy work, microphotography, and for duplicating transparencies). Extremely valuable in photographing cavities of the human and animal body are the Endoscope Connecting Pieces and the special "Kolpofot" Equipment.

**Literature :** Please write to us, stating your special interests and we shall be glad to send you detailed information. At present there are available: 1. Brochures on the EXAKTA Vares, 2. Macrophotography - Photomicrography, 3. Flash Technique, 4. The "Vielzweck" etc., 5. The Distance Meter, 6. The Lens Magnifier.



Small objects enlarged. Increase of extension for close-ups is obtained by means of the Two-in-one bayonet ring, a set of bayonet rings, and tubes.





**Optical Equipment of the EXAKTA Vorex (Model VX)**

1 1/2 x 1 in. (24 x 36 mm) ..... Catalogue No. 300

The EXAKTA Vorex comes complete with Finder Hood or Penta Prism and with one of the following lenses:

Lens	Focal Length cm	Picture Angle	Front Ring $\varnothing$ -in mm	Catalogue No.
Standard Lens Jena B	5	45°	51	501
Standard Lens Jena B 1/2 APD	5.8	40°	51	504
Primoplan	f/1.9 PD	40°	51	403

**Special-Lenses for the EXAKTA Vorex**

Flektogon	f/2.8 APD	3.5	62°	51	534
Night-Lens Jena B	f/1.5 PD	7.5	32°	60	422
Biometar	f/2.8 APD	8	30°	51	535
Trioplan	f/2.8 PD	10	24°	51	410
Long-Focus Lens Jena Tr	f/4 PD	13.5	18°	51	423
Tele-Megor	f/5.5 PD	18	14°	51	412
Tele-Megor	f/4.5 PD	30	8°	85	416
Tele-Megor	f/5.5 PD	40	6°	85	415
Distance-Lens	f/8	50	5°	80	120

All Lenses are factory-coated  
 PD = Preset Diaphragm, APD = Automatic Preset Diaphragm

- Penta Prism, with Leather Case ..... Catalogue No. 302
- Distance Meter for Penta Prism ..... Catalogue No. 310
- Eye-Piece with rubber ring for Penta Prism (with holding device for Corrective glasses) ..... Catalogue No. 315
- IHAGEE Flashgun ..... Catalogue No. 148

- 1 Set of Bayonet Rings and Tubes ..... Catalogue No. 138 (available only as a complete set)
- Two-in-One Bayonet Ring Cat. No. 146

