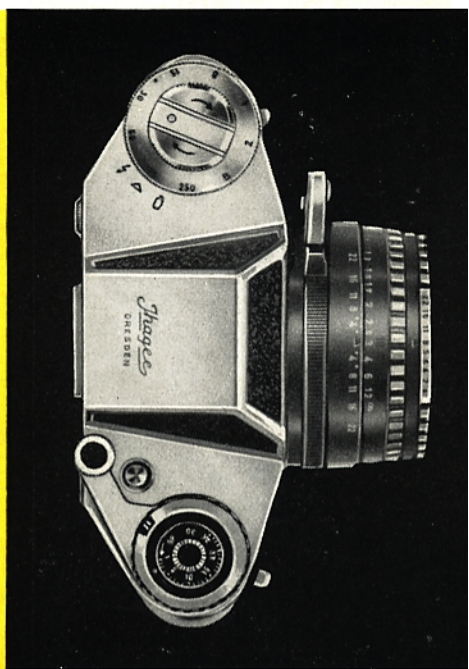


# EXA II b

The versatile reflex camera  
for every photographer



With quick-return Mirror

24 mm x 36 mm





## Simple to operate

The EXA IIb is a genuinely simple camera to handle. The decisive factor here is that its simplicity is a natural consequence of the design principles of this truly modern camera, which make possible its remarkably low cost without restricting its all-purpose versatility in the slightest degree.

Loading the film into the EXA IIb is simplicity itself. Just remove the camera back, so as to expose the complete film track, and it will be possible to load the film not only without the slightest difficulty, but with no possibility of making a mistake. The film winding and shutter tensioning mechanisms are interlocked, providing valuable protection against the elementary camera-handling errors of making double exposures or leaving blank frames. The built-in rewind crank makes even the rewinding of the exposed film an effortless procedure.

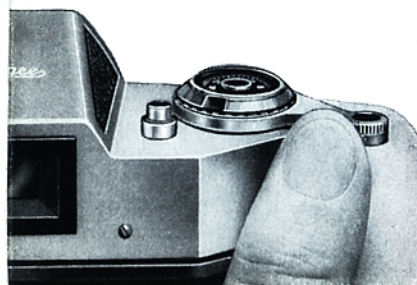
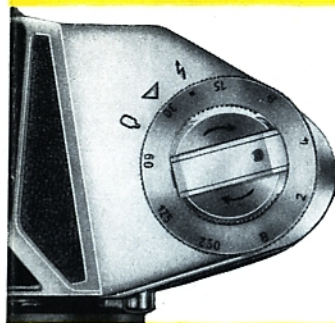
You will also quickly learn how to adjust the shutter speed and aperture settings, since it is only necessary to rotate two milled rings so as to line-up the desired values with the setting mark. The fully-automatic lenses eliminate any possibility of forgetting the all-important step of stopping-down the lens: the diaphragm closes down automatically to the pre-selected smaller aperture when you press the release button.

What about focusing? That's the simplest operation of all. Just look into the eyepiece of the built-in Prism Viewfinder and you will see a brilliant, highly-magnified and true-colour image on the focusing screen before your eye. Then turn the focusing ring until your subject appears needle-sharp. Now all you have to do is to press the shutter-release button and the image will be recorded on the film, with every detail just as you saw it in the Prism Viewfinder.

The EXA IIb has a quick-return mirror: as soon as the shutter has run off the reflex image reappears in the Prism Viewfinder. A red signal in the viewfinder reminds you that the rapid-wind lever must be operated to re-tension the shutter before taking the next picture.

## Boundless versatility

The single-lens reflex focusing technique opens up a limitless field of operation for the EXA IIb. This is due to the fact that there is no parallax displacement between the finder image and the film image, since both are formed by the same lens. Whatever you see in the viewfinder of your EXA IIb will also appear in the final picture. The camera gives you a preview of the photo you are about to take: you can adjust the focus, check and control the depth of



Shutter-speed setting ring, flash synchronization symbols and retracted rewind crank.

The shutter is tensioned and the film wound on with a single flick of the finger (above the rapid-wind lever is the frame counter and film-type reminder ring).

### The EXA IIb (24 mm x 36 mm)

is supplied with one of the standard lenses listed in the table and with one of the following focusing screens built permanently into the camera:

- Ground-glass focusing screen
- Distance Meter (split-image rangefinder in a ground-glass field)
- Fresnel Lens — for extra image brightness — consisting of a split-image rangefinder centered in a uniformly brilliant ground-glass field.

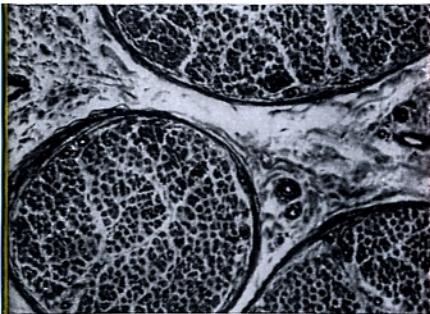
field and use the ever-reliable reflex image to determine the ideal framing of the subject and the exact moment to press the shutter release. The advantages of reflex focusing have been proved countless times over, not least because the procedure remains unaltered when using special-purpose lenses of longer or shorter focal length, with extension-increasing accessories for close-up photography or when even using the camera coupled to a microscope. This is just a hint of the boundless versatility of the EXA IIb.

The Prism Viewfinder built into the camera shows you a reflex image which is a faithful true-to-nature section of the actual scene before you, and is both the right way up and the right way round. The magnifier system enlarges the reflex image by 4 times. All you have to do is to hold the EXA IIb to your eye and look in the proposed taking direction; in this way you can be absolutely sure of getting even rapidly-moving subjects "in the picture". For sporting scenes, you can slowly "pan" the camera during exposure to keep the subject within the viewfinder. The smooth-acting focal-plane shutter has a wide range of shutter speeds ( $\frac{1}{2}$ — $\frac{1}{250}$  sec.) to increase the versatility of the EXA IIb. Unavoidable intervals between shots are kept to the briefest minimum by the short-travel rapid wind lever. For flash-photography enthusiasts, the shutter provides universal freedom of choice and action. Here the wide selection of top-quality standard and special purpose lenses plays an all-important role in ensuring that the EXA IIb is at home in every field of photographic activity. Characteristics shared by all these lenses include: optimum definition, correct colour rendering, high speed, helical focusing movement, depth-of-field scale, anti-reflection surface coating and quick-change bayonet mount. The latest type of diaphragm mechanisms allow you to focus at the full aperture of the lens to obtain the brightest possible finder image, and then — without removing the camera from your eye — to stop down to any pre-selected smaller aperture for taking the picture. With many lenses even this is performed quite automatically, at the moment of pressing the release.

Designation, speed and focal length (mm)	Type of diaphragm*)	Angle of view (horizontal)	Front mount for push-on and screw-in lens attachments
Meritar f 2.9/50	PD	45°	37 mm $\varnothing$ , M 35.5 x 0.5
Trioplan f 2.9/50	CD	45°	37 mm $\varnothing$ , M 35.5 x 0.5
Jena T f 2.8/50	CD	45°	37 mm $\varnothing$ , M 35.5 x 0.5
Domiplan f 2.8/50	FAD	45°	51 mm $\varnothing$ , M 49 x 0.75
Jena T f 2.8/50	FAD	45°	51 mm $\varnothing$ , M 49 x 0.75
Jena Pancolar f 2/50**)	FAD	45°	51 mm $\varnothing$ , M 49 x 0.75

\*) CD = Click-Stop Diaphragm, PD = Pre-Set Diaphragm, FAD = Fully-Automatic Diaphragm.

\*\*\*) With automatic depth-of-field indicator.



## Well-proven accessories

The EXA IIb shares a major part of the world-famous EXAKTA system: since its lens mount is identical to those of the EXAKTA Varex and EXA Ia, it is possible to use it with not only the standard and special-purpose lenses of these cameras, but with a wide range of their accessories as well. The EXA IIb is, therefore, ideally suitable for using as a "second camera" with the other models.

If you want to take close-up photographs with the EXA IIb, you can use either the Bayonet Adapter Rings and Extension Tubes, or one of the two Bellows Attachments. To retain the advantages of using a fully-automatic diaphragm for stopping-down the lens when taking fullframe pictures of small subjects (such as animals, etc.), the Autocouple Extension Release should be fitted between the camera body and the lens when employing Bayonet Adapter Rings and Extension Tubes or the Miniature Bellows Attachment. The Swing Angle Attachment makes close-up focusing very much more convenient, especially when using a tripod. With the Transparency Copying Equipment for the Bellows Attachment you can make optical duplicates from your slides; the Copying Stand and the Repro Unit — also available with Lighting Equipment — will give valuable service as table stands for many kinds of close-up work. The Repro Unit is furthermore suitable for photomicrography, unless you prefer to attach the EXA IIb directly to the microscope with the aid of the Microscope Attachment.

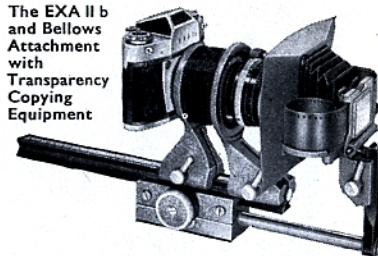
The EXA IIb will in addition prove an ideal camera for the 3-D enthusiast, since with the two Stereo Attachments breathtaking stereoscopic pictures can be taken under all conditions (the Large Stereo Attachment is used for subjects at distances from infinity down to  $6\frac{1}{2}$  ft, the Small Stereo Attachment from  $6\frac{1}{2}$  ft down to 6 inches).

All these aids accessories will widen still further the scope of the EXA IIb, to the point where even the most exacting professional photographer will find everything that he needs in this ever-dependable, allpurpose camera.

The EXA II b with the Trioplan N f 2.8/100 mm long-focus lens (with fully-automatic pressure diaphragm)



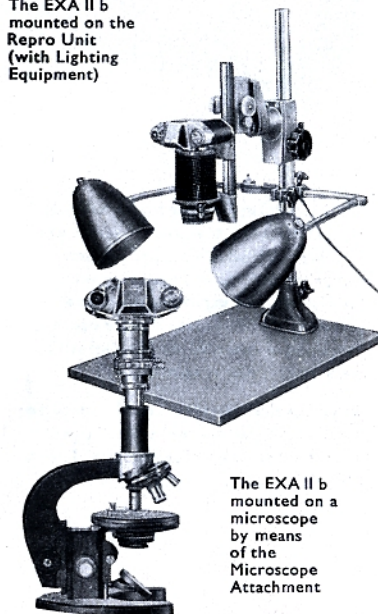
The EXA II b and Bellows Attachment with Transparency Copying Equipment



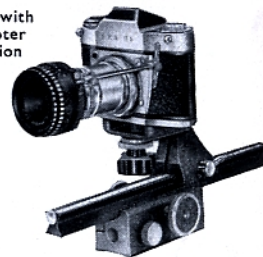
The EXA II b with the Jena Flektogon f 4/20 mm super-wide-angle lens (with fully automatic spring diaphragm)



The EXA II b mounted on the Repro Unit (with Lighting Equipment)

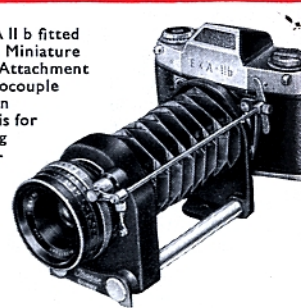


The EXA II b with Bayonet Adapter Rings, Extension Tubes and Autocouple Extension Release mounted on the Swing Angle Attachment

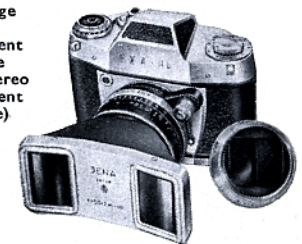


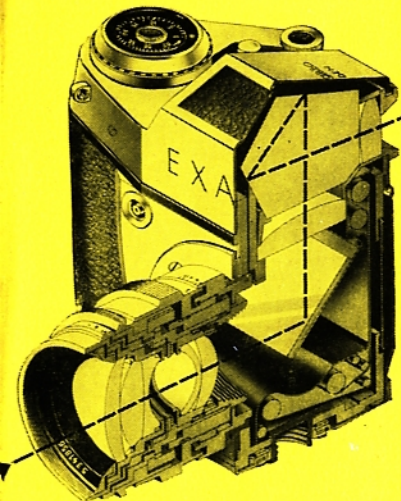
The EXA II b mounted on a microscope by means of the Microscope Attachment

The EXA II b fitted with the Miniature Bellows Attachment (the Autocouple Extension Release is for operating the fully-automatic diaphragm)



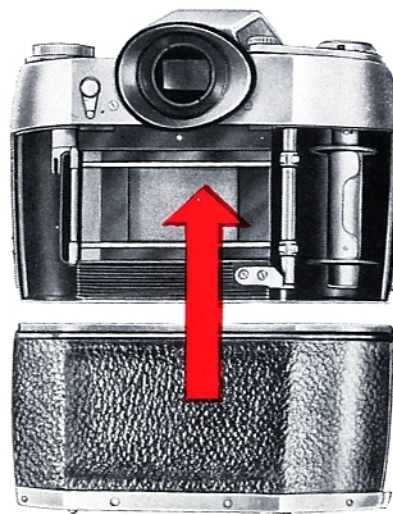
The EXA II b with Large Stereo Attachment (with the Small Stereo Attachment alongside)





## EXA II b 24 mm x 36 mm

- Ultra-simple operation
- Type of film: perforated 35 mm-wide miniature film, giving negatives or transparencies 24 mm x 36 mm in size.
- Non-detachable, built-in Prism Viewfinder. Framing and focusing controlled by means of a magnified, brilliant and always erect and laterally-correct reflex image. Through-the-lens reflex focusing, giving parallax-free uniformity between reflex image and final picture.
- Quick-return mirror: the reflex image is still visible in the Prism Viewfinder even when the shutter is not tensioned. A red signal in the reflex image indicates when the camera is not wound and ready for action.
- On request, the EXA IIb can be supplied with a permanently built-in Distance Meter (split-image rangefinder centered in a ground-glass field) or — for greater image brilliance — with a Fresnel Lens (split-image rangefinder in an extra-bright, evenly illuminated ground-glass screen). The split-image rangefinder doubles the certainty of focusing accurately and will be found especially valuable by users with poor eyesight and under unfavourable lighting conditions.
- First-quality interchangeable lenses; an unrestricted range of special-purpose lenses from 20 mm to 1000 mm focal length. Lenses from  $f = 20$  mm to  $f = 180$  mm also available with fully-automatic spring or pressure diaphragms. World-famous quick-change bayonet mounts (also provided on EXAKTA Varex and EXA Ia, giving complete lens and accessory interchangeability between all three Ihagee reflex cameras).
- Focal-plane shutter with exceptionally silent travel. Quick and convenient selection of shutter speeds from  $\frac{1}{2}$  to  $\frac{1}{250}$  second, also B and T settings for short and long time exposures. Rapid-wind lever for shutter tensioning coupled with film advance mechanism, eliminating double exposures and blank frames. Body shutter release with cable release thread. Release lock to prevent accidental operation of shutter.
- Universal flash contact with symbol-settings: red dot alongside lightning-flash marking =  $\frac{1}{30}$  sec. shutter setting for electronic flash units; red dot alongside bulb marking =  $\frac{1}{15}$  sec. shutter setting for flashbulbs.
- Constantly-dependable film advance ensuring that film is held perfectly flat; film is either wound on to take-up spool and then back into the cassette by the rewind crank, or advanced from one cassette into another. Fully-detachable camera back. Frame counter counts up to 36 exposures. Film-type reminder disc with DIN speed ratings from 12 to 30, ASA and similar ratings from 25 to 400; also with 4 identifying letters for different types of colour film.
- Attractively-designed, easily held light-alloy body, covered in durable material. External metal components chrome-plated and lacquer-finished. Dimensions of body  $3\frac{3}{4} \times 5\frac{1}{8} \times 2$  in. approx. (98 mm x 132 mm x 50 mm), weight without lens approx. 26 oz. (660 grammes).



The flexible, rotating eyepiece cup is recommended for excluding straylight. This is also designed for holding vision-correcting lenses, enabling users with defective eyesight to focus the camera without wearing spectacles.

The image formed by the lens is reflected by the mirror on to the matted surface of the focusing magnifier. This image is reversed by the prism to form a laterally-correct image for viewing. For exposure, the mirror flips upwards, the focal-plane shutter opens and the image is recorded on the film with no displacement due to parallax.

As soon as the shutter has run off, the mirror automatically returns to the viewing position and the reflex image reappears in the Pentaprism Viewfinder.

## Special-purpose lenses for the EXA II b

Designation, speed and focal length (mm)	Type of diaphragm*)	Angle of view (horizontal)	Front mount for push-on and screw-in lens attachments
Flektogon f 4/20	FAD	93°	80 mm $\varnothing$ , M 77 $\times$ 0.75
Flektogon f 4/25	FAD	82°	80 mm $\varnothing$ , M 77 $\times$ 0.75
Meyer Lydith f 3.5/30	PD	71°	51 mm $\varnothing$ , M 49 $\times$ 0.75
Flektogon f 2.8/35**)	FAD	62°	51 mm $\varnothing$ , M 49 $\times$ 0.75
Jena B f 1.5/75	PD	32°	60 mm $\varnothing$ , M 58 $\times$ 0.75
Jena Bm f 2.8/80	FAD	30°	51 mm $\varnothing$ , M 49 $\times$ 0.75
Trioplan N f 2.8/100	FAD	25°	57 mm $\varnothing$ , M 55 $\times$ 0.75
Jena Bm f 2.8/120	FAD	21.5°	70 mm $\varnothing$ , M 67 $\times$ 0.75
Primotar f 3.5/135	PD	18°	57 mm $\varnothing$ , M 55 $\times$ 0.75
Jena S f 4/135***)	FAD	18.5°	51 mm $\varnothing$ , M 49 $\times$ 0.75
Jena S f 2.8/180	FAD	14°	90 mm $\varnothing$ , M 86 $\times$ 1
Meyer Orestegor 4/200	PD	12°	60 mm $\varnothing$ , M 58 $\times$ 0.75
Jena S f 4/300	PD	8°	80 mm $\varnothing$ , M 77 $\times$ 0.75
Tele-Megor f 4.5/300	PD	8°	85 mm $\varnothing$ , M 82 $\times$ 0.75
Tele-Megor f 5.5/400	PD	6°	85 mm $\varnothing$ , M 82 $\times$ 0.75
Jena Catoptric lens f 4/500	no diaphragm	5°	Built-in filter turret
Jena Catoptric lens f 5.6/1000	no diaphragm	2.5°	Built-in filter turret

\*) PD = Pre-Set Diaphragm, FAD = Fully-Automatic Diaphragm.

\*\*) With extra-long helical thread for close-up focusing down to 6 1/4 in. without special accessories.

\*\*\*) With extra-long helical thread for close-up focusing down to 3 1/2 ft without special accessories.

## Accessories for the EXA II b

Leather Ever-Ready Case

Lens Hoods with screw-in mounts in sizes M 35.5  $\times$  0.5 mm, M 40.5  $\times$  0.5 mm and M 49  $\times$  0.75 mm.

Giant Release Button for increasing the contact area of the release knob (particularly useful in winter, for use with gloved hands).

Polarizing Filters with screw-in mounts: M 35.5  $\times$  0.5 mm, M 40.5  $\times$  0.5 mm and M 49  $\times$  0.75 mm.

Eye-piece Cup for Prism Viewfinder.

Accessory Shoe (for attachment to Prism Viewfinder).

Two-in-One Ring for close-up pictures.

Set of Bayonet Adapter Rings and Extension Tubes (5, 15 and 30 mm) for close-ups.

Autocouple Extension Release for taking close-ups with fully-automatic lenses.

Miniature Bellows Attachment (extension range 35—125 mm).

Ihagee "Vielzweck" (Multi-Purpose) Equipment:

Swing Angle Attachment with focusing slide for convenient close-up focusing when using Bayonet Adapter Rings and Extension Tubes, etc. with tripod or camera stand.

Large Bellows Attachment with focusing slide (extension range 35 to 220 mm).

Transparency Copying Equipment for use with Bellows Attachment, for optical copying.

Copying Stand and Repro Unit for photo-copying and close-up work. (Copying Stand for attaching directly to the camera, using Bayonet Adapter Rings and Tubes or the Miniature Bellows Attachment for increasing the lens extension; Repro Unit for use with the Bellows Attachment.)

Lighting Equipment for Copying Stand and Repro Unit.

Microscope Attachment for connecting the camera to a microscope.

Ihagee Macro-Micro Photometer for close-up photography and photomicrography.

Lens Reversal Ring and Adapter Ring for photomicrographic lenses (both for extreme close-up work).

Large Stereo Attachment, 65 mm base ( $\infty$  to 2 metres/6 1/2 ft).

Small Stereo Attachment, 12 mm base (2 to 0.15 metres/6 1/2 ft to 6 in).

# EXA II b

### The EXA II b

is a product of traditional precision craftsmanship down to the smallest detail. It originates from a manufacturer who for the last 40 years has specialized in the production of single-lens reflex cameras and who has played a decisive part in bringing about the world-wide success of this type of camera: in 1936 appeared the first single-lens miniature reflex camera ever made, the Kine-Exakta 24 mm  $\times$  36 mm.

### The EXA II b

bridges the gap in range of application between the most advanced model, the EXAKTA Varex, and the simpler EXA Ia: it thus fulfils the particular needs of a large number of enthusiastic photographers. The Ihagee production range can now provide the ideal miniature reflex camera for every requirement and at all price levels.

Why not see your photographic dealer straightaway?

The illustrations may in certain circumstances differ slightly from the current design of the camera and its accessories.

**IHAGEE  
KAMERAWERK AG  
DRESDEN A 16**