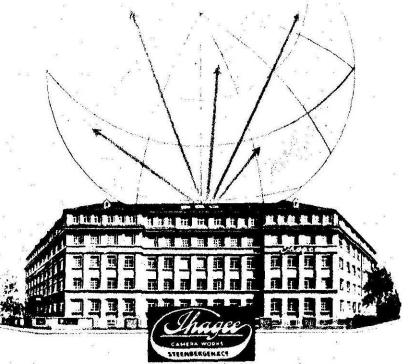


HENRY GREENWOOD & CO., LTD., Publishers, 24, Wellington Street, Strand, London, England





Agents for Great Britain: Garner & Jones, Ltd. Polebrook House, Golden Square, London-W. 1



WHY LEICA? Pioneers do not always develop into leaders; others may follow who use their ideas as a stepping stone to leadership. But when a pioneer is able to assume leadership by universal acceptance of a sound teaching and furthermore maintain that leadership through decades, it is an accomplishment which only few of the greatest in history have achieved. In the world of apparatus, such a pioneer is the Leica.

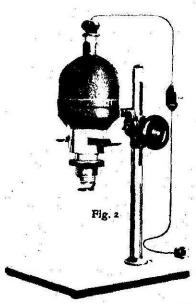
The Leica camera is still the smallest and lightest universal camera. Its built-in range finder has not added to its over-all dimensions, its form is still of the same dignified beauty and the most convenient for handling and carrying. The stability of design, which has not undergone any radical changes since its creation, is a wonderful proof of its perfection and one of the reasons for the continued success of the Leica camera. Here, as in all walks of life, it is stability which scores in the long run. In the Leica the mechanism is accommodated in the minutest compass which will allow of reliability and such accuracy as is necessary for a universal camera with interchangeable lenses, and its dimensions are the smallest which will permit of conveniently handling the apparatus in practical photography.

Behind the manufacture of the Leica there is the 85 years' experience gained in the making of the world's most widely used microscopes and the precision and craftsmanship for which the name of Leitz is renowned, are embodied in it and all its accessories.

THE LEICA STOOD THE TEST OF TIME

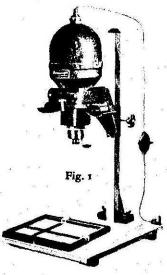
Improving pictures by enlarging or projection is now an every-day practice

Ihagee make the following instruments for use in each field of work:

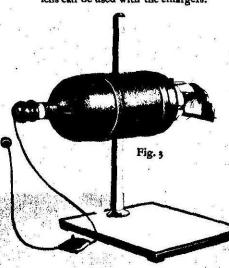


The Projection Lumimax (fig. 2 & 3). This is a condenser enlarger, which has proved very popular on account of its double function of enlarger and transparency projection lantern. The Exakta lens may also be used in place of a projection or enlarging lens.



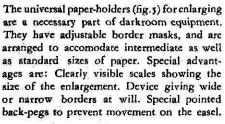


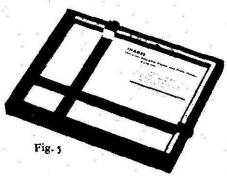
Enlargers (fig. 1) with well-designed pillar support and strong baseboard, with or without enlarging lenses, and including condenser to increase contrast. If desired, the Exakta camera lens can be used with the enlargers.

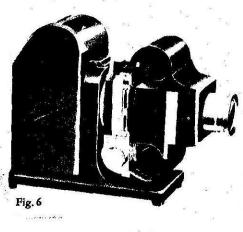




A special miniature film printer (fig. 4) is very convenient when printing filmstrip transparencies, on positive film. The strips are then shown in a suitable projector (as per figures 2 and 3). The instrument is low in price, and particularly simple in use.







pecial leaflets regarding any of the above sent free on request.

A new projection lantern (fig. 6) which is specially suited to the projection of colour films on account of its great light output. It is designed to take 2" square glass slides, or film strips in the 3/4 1" and 1 × 11/2" sizes. A triple condenser with heat screen, special concave mirror, and rotating device for upright or longitudinal pictures are fitted. and a special device for moving the film strips continuously or picture by picture completes the practical design. A special large-aperture projection lens gives a very high light output to the screen, and makes the projector one of the most efficient on the market.





STEENBERGENAC?

The EXAKTA

light outfit (see next page).

The finder hood extension serves

to keep bright light out of the hood and increase the brilliauce

of the image on the ground

glass. It is provided with a

built-in magnifier, which shows the entire focussing screen on

The aero shutter release screw

into the normal shutter button,

and enlarges its area consider-

ably. In aerial photography,

or during cold weather-where

thick gloves must be worn to protect the hand-it is of very

unwanted light out of the less

in daylight and artificial light.

It is slipped on to the rim of the front lens component and

is firmly held there, while filters

can be used with the lens hood

The ball-and-socket tripod head

ensures that the Exakta can be

held in any desired position with the utmost rigidity. For upright pictures on a tripod, and for all kinds of technical photography, this head will be most useful to the practical photographer,

in place just as usual.

great practical value.

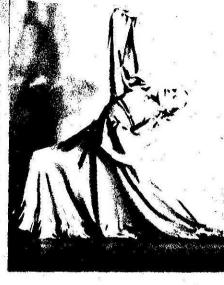
an enlarged scale,

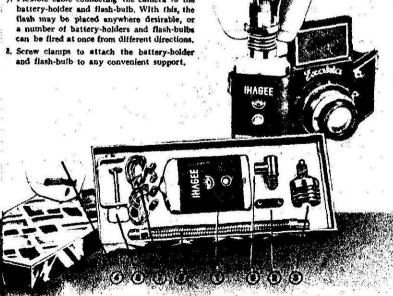
synchronised flashlight outfit

makes the photographer independent of daylight, when used in conjunction with a large-aperture Exakta lens. The flash is fired at the same moment as the shutter opens, and synchronisation is so accurate that the flash cannot fire before or after the shutter has exposed the film.

A wide range of special accessories for flashlight work are provided, of which the following may be noted:

- 1. The battery-holder with bush for triped screw or for the screw on the clamps (see 8 below).
- 2. Special connection piece between camera and battery-holder.
- 3. Adapter for flash-bulbs with large end-caps
- 4. Reflectors for upright or longitudinally-placed flash-bulbs.
- 5. Flexible extension piece giving a firm connection between camera and flash-bulb; a very important point for pressmen and for handcamera work.
- 6. Junction piece used to fire two flash-bulbs simultaneously.
- 7. Flexible cable connecting the camera to the

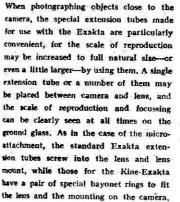




Two specialised fields of work in which the EXAKTA



The Exakta can be used without alteration as a photo-micrographic instrument, by means of the microattachment. The latter fits any micro scope. The focussing screen makes a special ocular unnecessary, and makes it a simple matter to watch the image right up to the moment of making the exposure. This last point is very important where living organisms are to be photographed. The normal eyepiece of the microscope serves as a lens, and the microattachment can be opened on a hinge allowing the changing of the eyepiece for alteration of magnification. There is no need to remove the camera or to use a darkroom for this change.







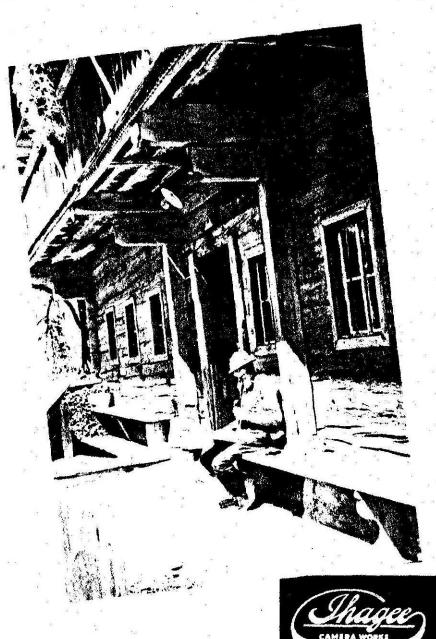






STEENBERGEN&C?







This is the standard model, which takes the popular V. P. size film. The larger negative size appeals to quite a number of photographers even today, for it does not necessarily require enlarging to be effective as a picture. The image seen on the ground glass is the full size of 2 1/2 × 15/8", and an additional magnifier is provided for critical focussing. The 21/2 × 18/4" Exakta also has the unified winding lever, which makes it nearly as fast in action as the Kine-Exakta. As soon as the film has been wound on to the next picture, the shutter has been set and the mirror set in the "taking" position. The shutter, too, shows the same wide range of speeds as that of the Kine-Exakta.

Exposures between 1/1000 th of a second and a full 12 seconds can be made, and the delayed-action release built in will work with exposures of

1/1000th second to 6 seconds.





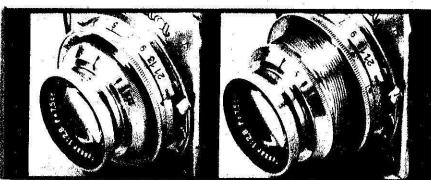


Fig. 1

An automatic shutter lock is also provided, for pressure on the release of the shutter when the lens is in the retracted position (fig. 1) has no effect. It is only when the lens has been moved forward and focussed that the shutter release can expose the film (fig. 2).

Focussing with the camera at eye-level is made very simple, for a special supplementary mirror (fig. 3) is provided in the finder hood, and this can be set at 450 to the ground glass in a moment. Holding the camera up to the eye then shows the image on the focussing screen without the need to look downward into the finder hood.





A special plate back (fig. 4) is available for all 21/, × 15/, "Exakta cameras with lenses up to f/2.8 aperture, and is of great value where single exposures must be made. The serious amateur and the scientific photographer will, in particular, find this interchangeable back continually useful. Fig. 4



Some of the technical advantages incorporated in the

KINE-EXAKTA are-

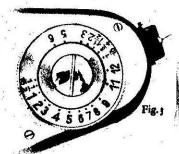
Unified control by single winding lever (fig.1) gives the camera a strikingly rapid action, and promotes readiness for use in the hortest space of time. A single push (fig. 2) moves the winding

lever across to the left, and this movement winds up the shutter, moves on the film to the next picture, sets the reflex mirror inside the camera, and turns on the picture counter to the next number. The moment the winding lever is released, it springs back to its onginal position.

The picture counter (fig. 1 & 2) is placed so that it can readily be seen from above when the camera is being used.

An exceedingly wide range of automate shutter speeds is given by the Exakta focalplane shutter, the controls of which are also on top of the camera. The shorter exposure between 1/ssth and 1/1000th of a second, which serve for amateur snapshots and for moid work on the fastest moving objects, are set by a single knob (fig. 1 & 2).

A further control knob (fig. 3) gives the longer



exposures between 1/10th second and 12 full seconds, and covers the times required for photography in the streets at night, in the theatre or at home in ordinary room lighting.

A built-in delayed-action shutter release (fig. 1) can be used with any exposure time between 1/1008th of a second and 6 full seconds.



makes it impossible to expose the film accidentally. When the finder hood is closed, the shutter cannot be released, so that as long as the subject to be taken cannot be seen in the viewfinder, no exposure can be made.

The automatic safety lock (fig. 4)

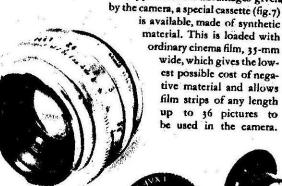
THE BRITISH JOURNAL ALMANAC 1938 (ADVERTISEMENTS)

The Kine-Exakta is also provided with a very useful and exclusive feature: there is no need to wait until all 36 exposures have been made, for a small knife (tig. 5) inside the camera can be used to cut off the exposed section of the film and allow it to be given immediate development.

The depth of focus problem—a very

real one in a miniature camera with an ultra-fast lens-is dealt with in the view-finder of the Kine-Exakta, but where rapid snapshot work is to be done a glance from above at the lens will indicate the depth of focus, for a special scale is provided on the focussing mount. By means of this scale (fig. 6), the lens may be focussed to give any necessary depth of focus at a pre-determined aperture.

To supplement the advantages given



material. This is loaded with ordinary cinema film, 35-mm wide, which gives the lowest possible cost of negative material and allows film strips of any length up to 36 pictures to











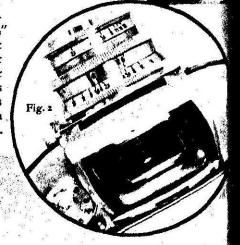


The KINE-EXAKTA

is the first true reflex camera in the world taking $1^{1/2} \times 1''$ (24 × 36 mm.) pictures on perforated cinema film. In spite of the small size of the image, the focusing and composition of the picture are accurately arranged with extreme ease. The ground-glass

screen is made in the form of a lens (an Exakta patent) which enlarges the visual image to 21/8×15/8" in size, besides brightening it considerably. A second magnifier (fig.2) can be swung into place for critical focussing, and enlarges the original image to twice its normal size, so that in this case a picture 31/8×21/8" seems to be seen.

STEENBURGEN &C?





This method of focussing and composing is particularly valuable with colour tilms taken by the latest processes, as these films are used in the Kine-Eisakta as a matter of course. Though the final picture is only 1½×1" in size, the image seen for composing is much larger, and the correct limits of field and arrangement of colours can be very easily adjusted.



THE MINIATURE CAMERA FOR EVERYONE

The Agfa Karat is a lazy-tongs camera giving pictures 24 x 36 mm. Cassette loading 12 exposures. Front lens focussing from infinity to 3 feet ensures quite easy adjustment and the direct vision finder enables one to choose the correct view of the picture in a moment. The shutter release is built on the body of the camera and is coupled with the winding mechanism of the film, so that double and accidental exposures are impossible. The Agfa Karat has an Agfa Anastigmat Igestar F/6.3 lens with a focal length of 2 inches (5 cm.). This lens produces pictures of good definition which may be enlarged to considerable diameters. The shutter is precision-made for time and instantaneous exposures.

Look out for the new Agfa Karat F/3.5 which will be available very shortly.

Marie Commence

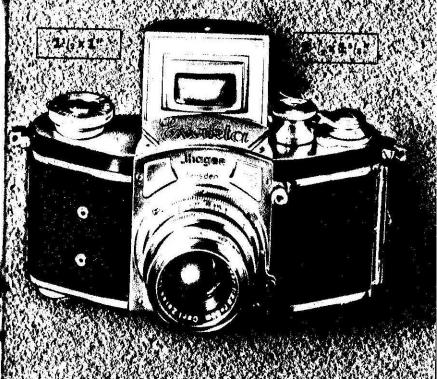
A second second



The Karat cassette can be supplied in either Isopan F or Isochrom F film (12 exposures).

The true Reflex Camera

Made in two models taking pictures

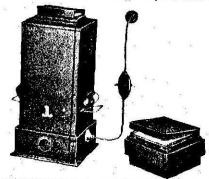


IHAGEE CAMERA WORKS, DRESDEN

IHAGEE FIXED FOCUS ENLARGER.

(Sold by Garner and Jones, Ltd., Polebrook House, Golden Square, London, W. 1.)

This enlarger is designed for producing enlargements of $3\frac{1}{2} \times 2\frac{1}{2}$. $\frac{1}{4}$ -plate and post card sizes from miniature $1 \times 1\frac{1}{2}$ negatives on cine film. The film strip may be used uncut and is placed in the



film holder of the instrument where it is held flat in a special gate. The image may be examined on a hinged ground glass screen before exposing and the paper, during exposure, rests on a sheet of plate glass with which it is pressed into contact by means of a rubber pad, A 40 watt opal lamp is used and a condenser ensures efficient illumination. The upper portion for 1-plate and post card

enlargements is seen at the side of the instrument in the illustration. Complete with 2 in. f/4.5 Trioplan lens this enlarger costs £6 6s. 0d,

ILFEX X-RAY FILM.

(Made by Ilford, Ltd., Ilford, London.)

This film has been specially developed to suit the requirements of those interested in rendering the fine detail in bone structure. High contrast and sharp definition are obtainable with Hex film without radical alteration in either technique or processing conditions; these improvements have been achieved without any material loss in speed compared with Hord Standard X-ray film. At the most only a fractional increase in exposure time may be called for. These improved properties are of particular service in detecting and studying any early indications of diseases of the bone where the only sign may be some slight difference in density or contrast. It is, of course, equally useful for general work and in addition will give just that extra information which may be needed for a positive diagnosis.

WIDE-ANGLE BIOGON FOR CONTAFLEX CAMERA.

(Sold by Zeiss Ikon, Ltd., 25-27, Berners Street, London, W. 1.)

Owners of Contaflex cameras will welcome this new wide angle lens which has the extraordinarily high aperture of $f/2\cdot 8$ and, as its focal length is $3\cdot 5$ cm. its angle of field is about 65° . An independent focusing mount is provided, it is scaled down to 4 feet and there is an engraved depth of focus scale. Care must be taken to see that the large convex back lens does not become accidentally damaged and for protection a metal back cap is provided. The Biogon costs £25 17s, 6d.

RAIDAGRAF COPYING EQUIPMENT.

Made by Modern Products (L.C.L.), Ltd., 264, Chiswick High Road, London, W. 4.)

For copying documents and plans of all sorts this machine is specially designed and should find a use in many offices and drawing others in which copies have to be made rapidly from any printed,



written or drawn matter. Matter which is printed on one or both sides may be copied and the final prints can be obtained as either negatives or positives. Special Raidagraf document paper is supplied for making the copies and this is available in two grades which differ in price according to the quality of the base. working principle is a well known one and is frequently called reflex copying; the original is placed on top of a piece of document paper which are pressed into intimate contact with one another and against an amber screen by means of a pad in the lid of the printer. An automatic timing switch gives the required exposure and the paper is developed as a negative. Positive prints may be made by contact

printing without the filter. Three models of the Raidagraph are made at prices ranging from £26 to £75.

STEEL TAPE POCKET TRIPOD.

(Sold by Wallace Heaton, Ltd., 127, New Bond Street, London, W. 1.)

Designed on the same principles as the familiar flexible steel tules, this tripod rolls up into a box-like container which measures only 3×11 ins, and weighs 12 ozs, complete. From this box are



it is a really pocketable tripod.

purce is 1s, 6d;

extracted three broad steel "tapes" each end of which is perforated and slightly tapered. When fitted into slots for the purpose in the base of the container these laths form a surprisingly rigid tripod which stands 42 ins. high and is said to bear a weight of up to 20 lbs. The moulded composition container incorporates a ball-and-socket head on which may be screwed an extension piece for cameras which might otherwise foul the tripod top. The stand can be quickly assembled and put away and Its price is 17s, 6d, and an extension

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Leica IIIa with f/2 Summar lens Speeds 1 sec. to 1/1,000th. £43



Kine Exakta, for 36 mm. film. F.P shutter with D.A. (12 secs. (1/1,000th). F/3.5 lens. £27 10 0

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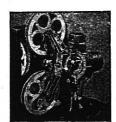
There is no other Company so well equipped with knowledge of Cinematography. Our entire business was originally the production of professional films for export all over the world, also the supply of theatre equipment.

That valuable experience is now at the command of the Amateur. Since we supply all makes of good apparatus we can give you unbiased advice concerning any.

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Zeiss Ikon Movikon 16 mm. Variable D.A. shutter and speeds. Coupled range finder. f/1.4 Zeiss Sonnar. £98 10 0

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COMPASS. Pictures 24 x 36 mm. on plates, cut films or rolf films, 3.5 Anaxigmat lens, shutter 4½ sees. to 1/500th, built-in range finder, filters, lens hood, exposure meter, etc. \$30



ROBOT. 24 pictures 24 x 24 mm. at a single wind, 48 pictures at one (daylight) loading. Shutter to 1/500th sec. 2.8 Zeiss Tessar - £29.10 3.5 Meyer Primotar £23.10



FOTH-DERBY II. Takes 16 on normal V.P.K. film. Focal plane shutter 1/35th to 1/50oth sec., delayed action, interchangeable lens mount. With 3-5 Tessar - £11.10 Also Model 1, 3-7 Foth Anas. £5.8.6, or 2-5 do. £7.8.6

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Particulars given here are necessarily very brief. You can always obtain full details by asking the Westminster either in writing or verbally. And many other cameras besides these are always to be seen at the Westminster.



KINE-EXAKTA. For 36 exposures 24 x 36 mm., focal plane shutter 12 secs. to 1/1,000th, double magnifier focusing, special flim cuting device. Interchangeable lens mount. With 2.8 Tessar, £38.10. With other lenses, £27.10 to £55.

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43 in.				F/4.5	•••		•••	***		•••	15	10	0
6 in.	- 33	Meyer	Tele-Megor	F/5.5							16	0	0
71 in.	• • • • • • • • • • • • • • • • • • • •		Tele-Megor								20	0	0
10 in.	"	Mever	Tele-Megor	F/5.5							28	0	0
Il in.	23		Wide Angle		Anasti	gm	at F	6.8			17	10	σ
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For $4 \times 6\frac{1}{2}$ cm. Exakta in Micro-Focussing Mounts.

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6 in.	,,	Meyer Tele-Megor	F/5.5	12	0	0
71 in.		Meyer Tele-Megor	F/5.5	15	10	0
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2} in.	39	Meyer Wide Angle				- 2
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4	7		12 - 20		-	

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F/5.5 ...
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Camera complete with Meyer Trioplan F/2.8 Focus 4" ...
Extra interchangeable lenses in Micro-Focussing Mounts.

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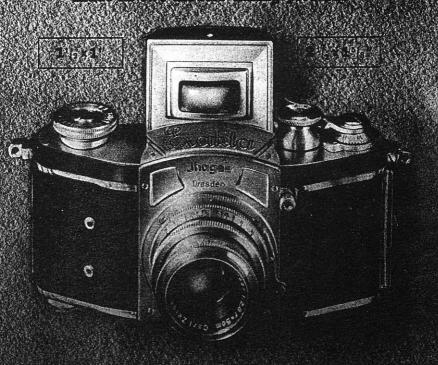
F/5.5 6 Meyer Tele-Megor 33 1

F/5.5 ... 33 10 0
The last two lenses are mounted with special bush (inclusive) to balance camera. Extension Adapters for close-ups, extra.



The true Reflex Camel

រប<mark>់តែជាត</mark>ែលស្រែក្រុមប្រជាពលនេះស្រុក ជា ប្រសិទ្ធ សេចក



IHAGEE CAMERA WORKS, DRESDEN