ENSIGN
PHOTOGRAPHIC CATALOGUE
1930

A. W. COX

228A BROADWAY, BEXLEY HEATH;

10 THE PARADE, HIGH STREET, WELLING;

54 High Street, Bexley (Depot).

Pictures—
full of life & beauty

The wonderful quality of the famous Anti-Screen emulsion gives your camera the power to produce joyous pictures full of life and beauty. Wellington Anti-Screen Plates, Roll Films and Film Packs possess just the right speed for hand-camera work, they are colour sensitive and give a more faithful reproduction of the beautiful and varied tints of nature than do ordinary plates and films.

Wellington

Anti-Screen
Plates & Roll Films

Make your prints on Seltona—the simplest paper for daylight printing

Wellington & Ward, Ltd., Elstree, Herts.

ENSIGN

PHOTOGRAPHIC

CATALOGUE OF

CAMERAS

ACCESSORIES

AND MATERIALS

1930

JUNIOR BOX ENSIGN

FOR ROLL-FILMS $2\frac{1}{4}$B $2\frac{1}{4}'' \times 3\frac{1}{4}''$ — 6×9 cm.

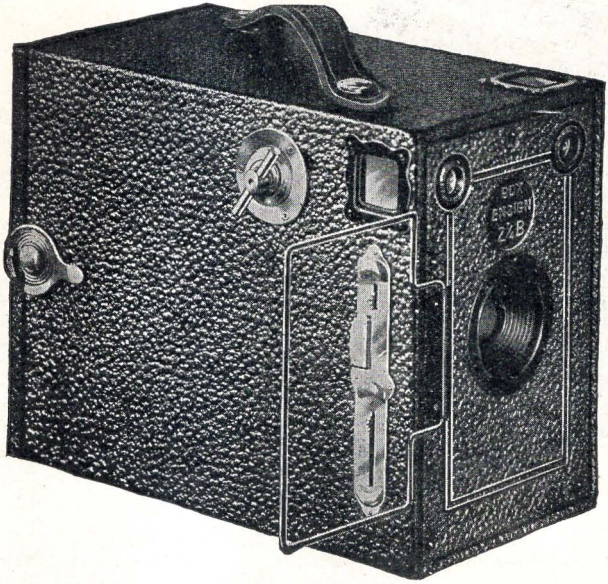
A THOROUGHLY well made, reliable camera of simplest possible design, with which anyone can make first-class pictures. The loading is particularly simple, being direct from spool to spool. It has two view-finders for upright and landscape views, and Time and Instantaneous movement to the shutter. The body is covered in best quality morocco grained leathercloth and fitted with solid leather handle. The lens is a rapid meniscus of good quality, giving excellent definition and covering power.

Price **8/6**

Canvas case	3/-
Portrait attachment	2/6
Tripod attachment	1/6

BOX ENSIGN

FOR ROLL FILMS $2\frac{1}{4}$B—$2\frac{1}{4}'' \times 3\frac{1}{4}''$ and $2\frac{1}{2}$—$2\frac{1}{2}'' \times 4\frac{1}{4}''$



THE finest value in Box-form Roll Film Cameras. Simple in operation and certain in results. Made in two sizes—

Portrait Attachment.

No. $2\frac{1}{4}$B giving $2\frac{1}{4} \times 3\frac{1}{4}$ in. (6×9 cm.) and No. $2\frac{1}{2}$ giving pictures $2\frac{1}{2} \times 4\frac{1}{4}$ in. ($6{\cdot}5 \times 11$ cm.). Exceptionally well designed and of attractive appearance, these cameras are fitted with the direct-vision wire view-finder which very greatly simplifies accurate picture making. Solidly constructed body covered with black or brown leatherette, first-class special rapid meniscus lens, fixed focus, nickel-plated and black fittings, silent winder, easy loading, reflex and direct view finders, three diaphragm stops. Everset Time and Instantaneous shutter, leather handle. Instruction book.

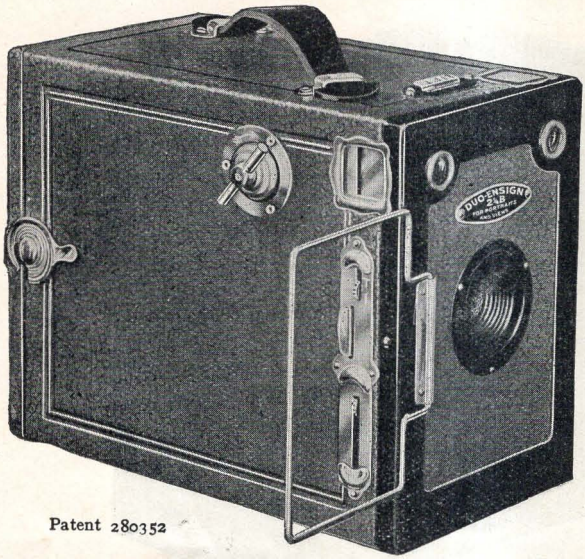
Prices

$2\frac{1}{4}$B for $2\frac{1}{4}'' \times 3\frac{1}{4}''$ pictures 12/6
$2\frac{1}{2}$ for $2\frac{1}{2}'' \times 4\frac{1}{4}''$ pictures 15/-

	$2\frac{1}{4}$B	$2\frac{1}{2}$
Ensign portrait attachment ..	2/6	2/6
Canvas carrying case ..	3/6	4/-
Limp leather carrying case ..	3/6	4/6
Tripod attachment ..	1/9	—
Ensign Daylight developing dish ..	4/9	—

DUO-ENSIGN

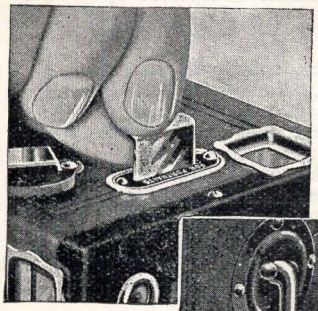
FOR ROLL FILMS $2\frac{1}{4}$B—$2\frac{1}{4}'' \times 3\frac{1}{4}''$ AND $2\frac{1}{2}$—$2\frac{1}{2}'' \times 4\frac{1}{4}''$



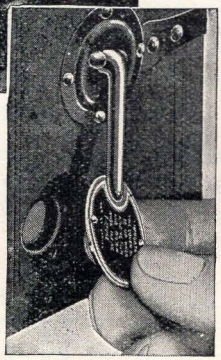
Patent 280352

FOR PORTRAITS AT 3 FEET AND GROUPS, VIEWS, ETC., AT ANY DISTANCE OVER 10 FEET FROM THE CAMERA

THE Duo-Ensign takes "close-up" portraits at 3 ft. or groups and ordinary snapshots; it is not an *All*-Distance camera—but wonderful value for the quality of work it can produce.



The portrait attachment



The film registration device

The Duo-Ensign is very strongly made and of delightful appearance, and there is a choice of three colours—black, blue and red. For "close-up" portraits a lever is lifted and the exposure made; press the lever down and it's ready for an ordinary snap, or leave it if another portrait is being taken. The Duo-Ensign is fitted with the Ensign film registering device (Patent 280352), which holds the film absolutely flat during the exposure—no other cameras but "Ensigns" have this feature. The Duo-Ensign is also fitted with the direct-vision view finder, and reflex view finders. The shutter has Time and Instantaneous movements.

Prices

$2\frac{1}{4}$B for $2\frac{1}{4}'' \times 3\frac{1}{4}''$ pictures	..	**17/6**
$2\frac{1}{2}$ for $2\frac{1}{2}'' \times 4\frac{1}{4}''$,,	..	**22/6**

Cases—	$2\frac{1}{4}$B	$2\frac{1}{2}$
Canvas carrying	3/6 ..	4/–
Limp leather carrying	3/6 ..	4/6
American cloth — best quality morocco grained	2/6 ..	3/6

DUO-ENSIGN

FOR ROLL FILMS $2\frac{1}{4}$B—$2\frac{1}{4}'' \times 3\frac{1}{4}''$—$6 \times 9$ cm.
$2\frac{1}{2}$—$2\frac{1}{2}'' \times 4\frac{1}{4}''$—$6{\cdot}5 \times 11$ cm.

IN COLOURS

DUO Ensigns in colours are particularly attractive for those who require something rather distinctive and out of the ordinary. The covering material used is of first-class quality, and will wear indefinitely. The nickel fittings of these cameras provide a pleasing contrast to the coloured covering, making them exceptionally attractive in appearance, and a delight to handle and carry.

Prices:

$2\frac{1}{4}$B	..	**17/6**
$2\frac{1}{2}$	..	**22/6**

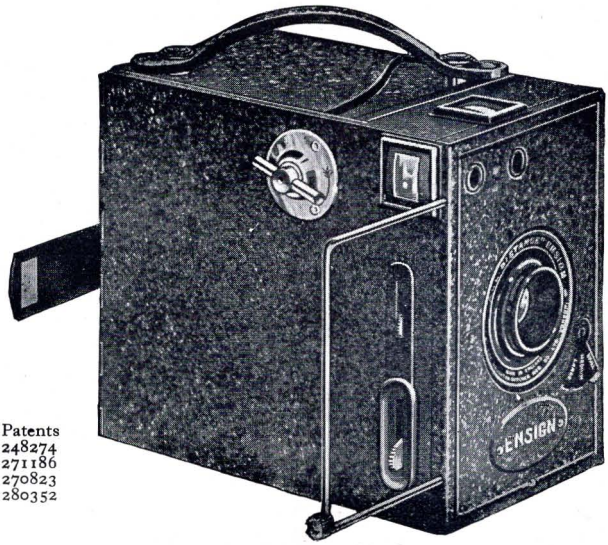
CASES TO MATCH

Best quality non-cracking, British made American cloth, morocco grained.

$2\frac{1}{4}$B	.. ..	**2/6**
$2\frac{1}{2}$	.. ..	**3/6**

ALL-DISTANCE ENSIGN

FOR ROLL FILMS $2\frac{1}{4}$B—$2\frac{1}{4}'' \times 3\frac{1}{4}''$—$6 \times 9$ cm.

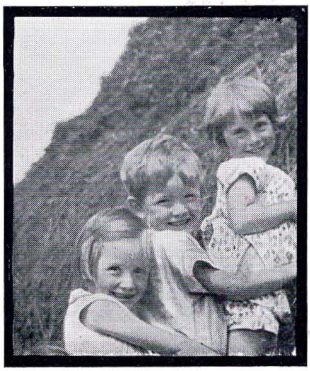


TAKES PICTURES AT ALL DISTANCES FROM 3 FT. UPWARDS

Patents
248274
271186
270823
280352

NO camera in the hands of a beginner produces a higher percentage of absolutely first-class results. Hitherto the greatest difficulty in simple photography has been to obtain sharp images at distances, and it has been impossible with simple apparatus to take pictures less than 9-10 ft. away from the camera without using a special lens called a portrait attachment. The All-Distance Ensign takes pictures at ALL DISTANCES from 3 ft. and over from the camera.

BODY: Metal, crystalline enamel finish, fittings nickel-plated. Back section hinged for easy loading. Leather handle. FILM REGISTERING DEVICE: A metal pressure plate connected with the sight-hole cover exerts pressure on the film and keeps it absolutely flat during exposure. When the film is wound to the next number the pressure is automatically released and the film winds easily and smoothly. LENS: Herein lies the secret of the wonderful range of the All-Distance Ensign. The result of extensive research, it gives crisp definition at all distances. Effectively hooded so that camera may be used for taking pictures against the light. SHUTTER: Time and Instantaneous, provided with three stops and contained in dustproof compartment. VIEW FINDERS: Direct vision with sighter plate for eye level pictures. Reflex type for waist-line position—upright and horizontal. SIZE: $4\frac{3}{4} \times 3 \times 4\frac{1}{4}$ in. WEIGHT: 22 oz.



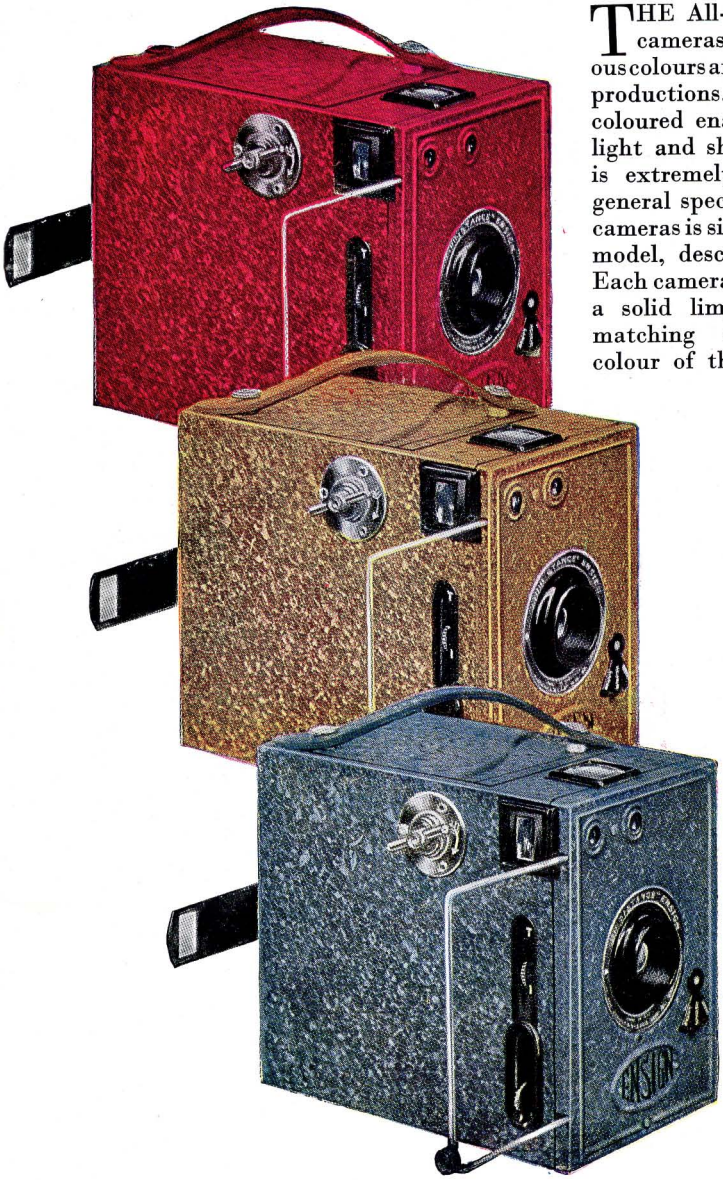
Price £1 5 0

Including limp leather case £1 7 6

Stiff Leather carrying case, black	5/-
Canvas carrying case	3/6
Ensign daylight developing dish	4/9

ALL-DISTANCE ENSIGN

FOR ROLL FILMS $2\frac{1}{4}$B—$2\frac{1}{4}'' \times 3\frac{1}{4}''$—$6 \times 9$ cm.
IN THREE BEAUTIFUL COLOURS
BLUE—RED—BROWN



THE All-Distance Ensign cameras finished in various colours are really beautiful productions. The crystallined coloured enamel produces a light and shade effect which is extremely pleasing. The general specification of these cameras is similar to the black model, described on page 6. Each camera is provided with a solid limp leather case, matching admirably the colour of the camera itself.

Price
£1 7 6

Including leather case to match.

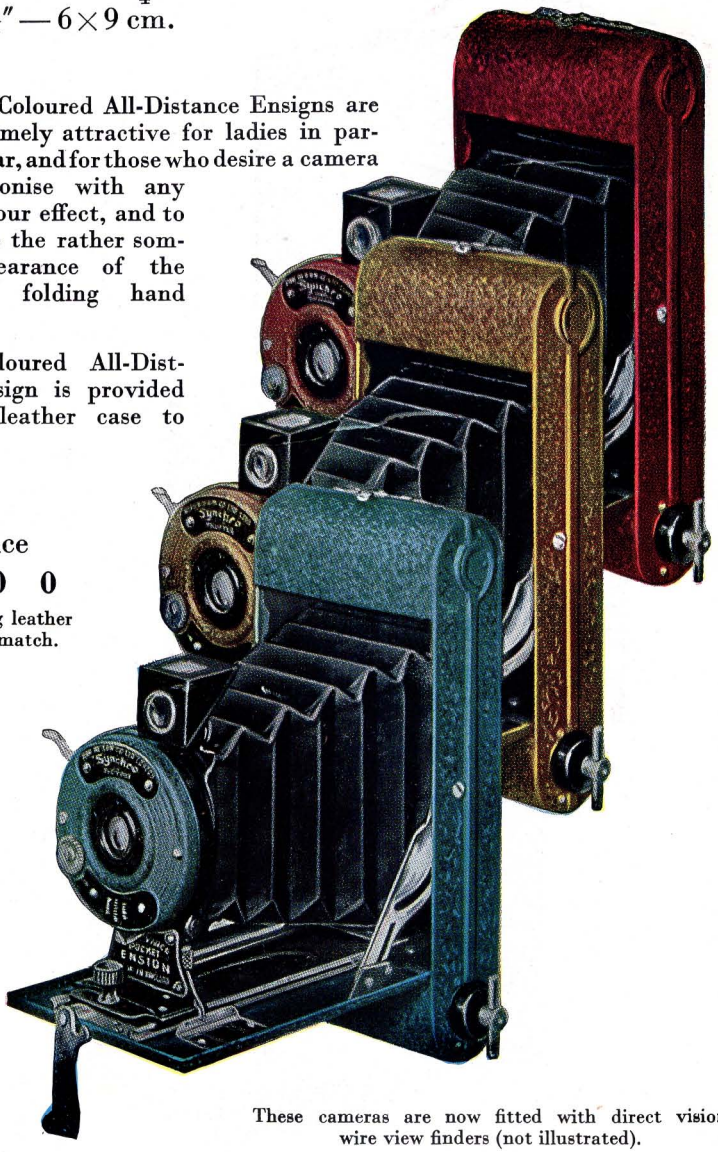
ALL-DISTANCE POCKET ENSIGN No. 1

FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}''$ — 6×9 cm.

THE Coloured All-Distance Ensigns are extremely attractive for ladies in particular, and for those who desire a camera to harmonise with any other colour effect, and to overcome the rather sombre appearance of the ordinary folding hand camera.

Each coloured All-Distance Ensign is provided with a leather case to match.

Price
£2 0 0
Including leather case to match.

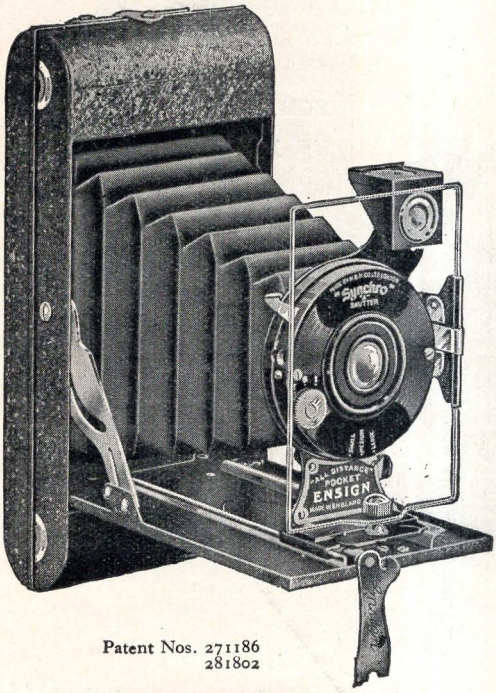


These cameras are now fitted with direct vision wire view finders (not illustrated).

ALL-DISTANCE POCKET ENSIGN

No. 1

FOR ROLL FILMS 2¼B
2¼″ × 3¼″—6 × 9 cm.



Patent Nos. 271186
281802

TAKES PICTURES AT ANY DISTANCE

FROM THREE FT. UPWARDS

Combines the "All-Distance" features with portability and compactness.

BODY: Made throughout of metal, handsomely finished in crystalline enamel. Nickel-plated fittings, leather bellows. LENS (Patent No. 271186): The specially constructed lens made on the All-Distance principle, has two positions only. Forward for close-up portraits at 3 ft. to 9 ft., and back for all pictures over 9 ft. from the camera. VIEW FINDERS: Direct-vision wire type for use at eye level and ground glass reflex for use at waist level. SHUTTER: The lens is mounted in a Synchro shutter giving Time, Bulb and Instantaneous exposures, fitted large, medium, and small stops. LOADING: The loading device is remarkably simple—spools being held on two hinged pins. No loose parts.

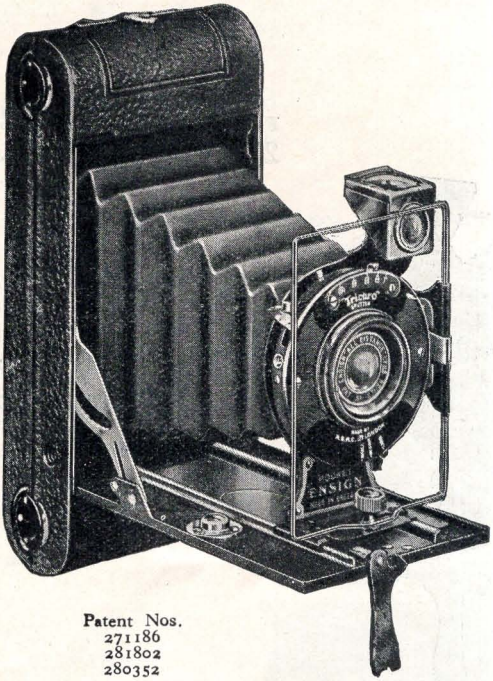
Price £1 17 6

Including limp leather case £2 0 0

Canvas case, best quality, leather bound	3/-
Limp leather case, black only	3/6
Leather case, best hide, hand sewn, brown	5/6
Ensign daylight developing dish	4/9

ALL-DISTANCE POCKET ENSIGN

No. 2



FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}''$ — 6×9 cm

TAKES PICTURES
AT ANY DISTANCE
FROM 3 FT.
UPWARDS

Patent Nos.
271186
281802
280352

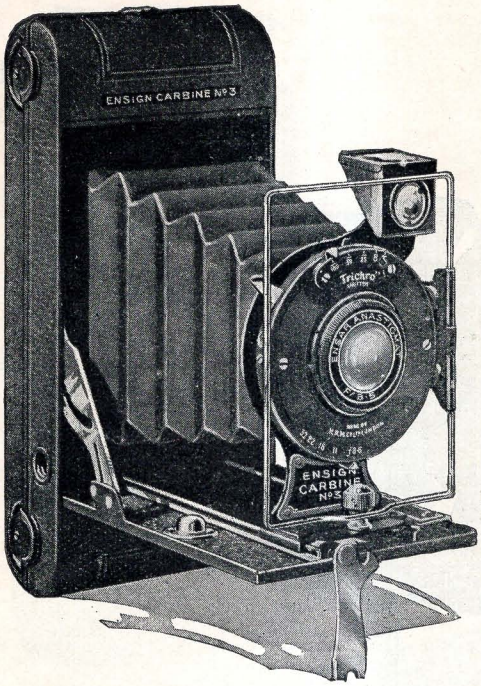
MEETS the needs of those who prefer a covered camera, and also wish to avail themselves of various shutter speeds.

BODY: Metal, handsomely finished and covered with best quality leather cloth. Nickel-plated fittings, feather bellows, leather handle. FILM REGISTERING DEVICE (Pat. No. 280352): A metal pressure plate is fitted to the back and is connected with the sight hole cover. When an exposure is being made this plate exerts pressure on the film and keeps it absolutely flat. When the film is wound to the next number the pressure is automatically released and the film winds easily and smoothly. LENS (Patent No. 271186): The specially constructed lens, made on the All-Distance principle, has two positions only. Forward for close-up portraits at 3 ft. to 9 ft., and back for all pictures over 9 ft. away. SHUTTER: The lens is mounted in a Trichro 3-speed shutter giving 1/25, 1/50, 1/100 sec., Time and bulb, fitted with Iris diaphragm. LOADING (Pat. No. 281802): The loading device is remarkably simple —spools being held on two hinged pins. No loose parts. VIEW FINDERS: Reflex brilliant and direct vision wire type, with sighter plate for eye level pictures.

Price £2 2 0

Canvas case, best quality, leather bound, with sling strap	3/-
Limp leather carrying case (No. 202A)	3/6
Solid leather case (No. 30a)	5/6

ENSIGN CARBINE No. 3



FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}''$ — 6×9 cm

A UNIQUE NEW MODEL FITTED WITH FIRST - CLASS BRITISH ANASTIGMATS

ENSAR F/8·5
AND
ENSAR F/6·3

Made by the Houghton-Butcher Mfg Co. London

THIS new model represents the last word in popular folding camera value and at an amazingly low price produces pictures of first-class quality.

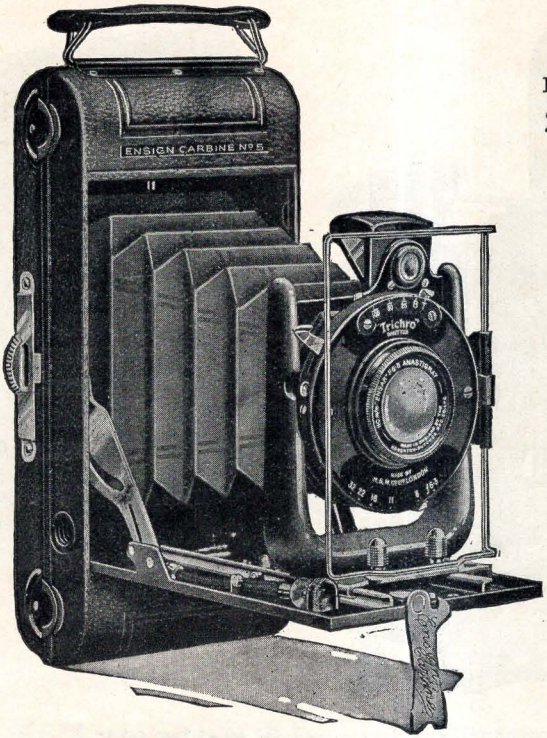
All metal body covered with fine quality Persian leather, patented simple loading device—no loose parts. Leather bellows, leather handle near distance adjustable focussing scale and Ensign patent film registering device. ALL METAL TRICHRO 3-SPEED SHUTTER giving 1/25, 1/50, 1/100. T. & B. Strong stamped front carrying direct vision and reflex view finders, reversible in both directions. Two tripod bushes. Metal parts crystalline enamel and nickel. Fitted with ENSAR ANASTIGMATS *f*/8·5 and *f*/6·3 manufactured by the Houghton-Butcher Mfg. Co. Ltd., giving irreproachable definition.

Prices

3/3 Ensar Anastigmat	*f*/8·5	..	£2 10 0
3/4 Ensar ,,	*f*/6·3	..	3 0 0

Canvas case, best quality, leather bound, with sling strap	3/–
Limp leather, black, with sling strap	3/6
Leather case, best hide, hand sewn, brown, with sling strap	5/6
Carbine daylight developing tank	15/–
Ensign daylight developing dish	4/9

ENSIGN CARBINE No. 5



FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}''$—$6 \times 9$ cm.

A NEW MODEL OF SUPERLATIVE VALUE

A PRACTICAL camera for everyday use. **Thoroughly well designed and beautifully made and embodying many new features.**

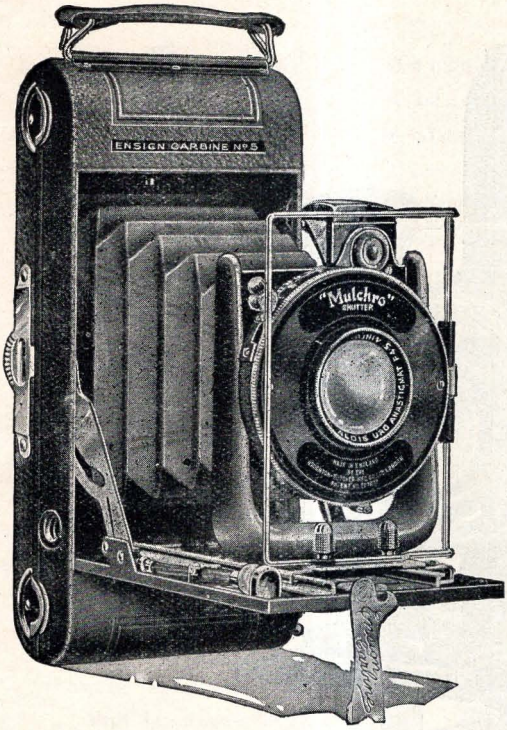
BODY: Brass, covered in good quality leather and fitted with leather handle, real leather bellows, two tripod bushes and film registering device. LOADING (Patent No. 281802): Improved and simplified, hinged spool pins, no loose parts. FRONT: U-shaped stamping, very rigid, fitted with a brilliant view finder, reversible for horizontal and upright pictures, also direct vision wire finder with sighter plate for eye level pictures. WINDER: Completely new design of the silent type, unobtrusive and very strong. INFINITY CATCH: Automatically stops the front at infinity, with focussing scale for short distances, to 3 feet. SHUTTER: Trichro all metal 3-speed, giving 1/25, 1/50, 1/100 sec., also Time and Bulb. SIZE: $6\frac{1}{2} \times 2\frac{7}{8} \times 1\frac{1}{4}$ in. Weight 21 oz. LENSES: Aldis Uno $f/7{\cdot}7$ and $f/6{\cdot}3$ guaranteed anastigmats, giving brilliant definition.

Prices

5/5	Aldis Uno Anastigmat	$f/7.7$	£3 7 6
5/8	Aldis Uno „	$f/6.3$	3 15 0

Canvas case, best quality, leather bound	3/–
Leather case, limp, black	3/6
Leather case, best hide, hand sewn, black or brown	6/6
Carbine daylight developing tank	15/–
Ensign daylight developing dish	4/9

ENSIGN CARBINE No. 5



FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}''$ — 6×9 cm.

A NEW F/4·5 "SPEED" MODEL AT A POPULAR PRICE

THE possession of a camera having a large aperture *f*/4·5 lens is a very real advantage. It enables pictures to be made under conditions which would make photography impossible with a less powerful lens. It is worth every penny of its extra cost. Such a lens, however, must be good and supported by a real reputation. The Aldis Uno has an irreproachable name and is backed by the personal guarantee of Mr. H. L. Aldis. Each camera has a lens guarantee and test chart. The Mulchro shutter is the latest production by the most up-to-date shutter designers, provides a range of speeds of 1, $\frac{1}{2}$, $\frac{1}{5}$, 1/10, 1/25, 1/50, 1/100 sec. Time and Bulb, is made throughout of metal, including diaphragm leaves, and is thoroughly reliable. The general camera specification is as shown on page 12.

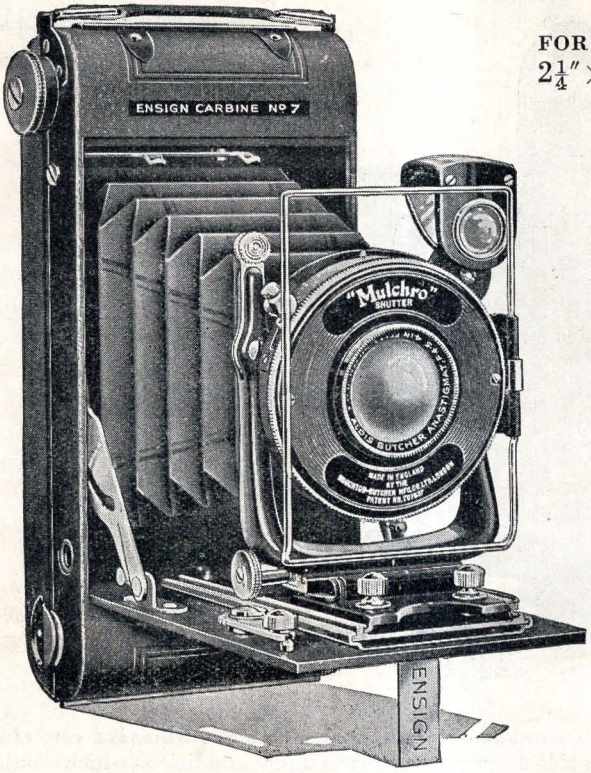
Prices

5/10	Aldis Uno Anastigmat *f*/4·5 Mulchro shutter	£5 10 0
5/11	Aldis Uno Anastigmat *f*/4·5 Compur ,, with delayed action	7 10 0

Ordinary Compur shutter 15/- less.

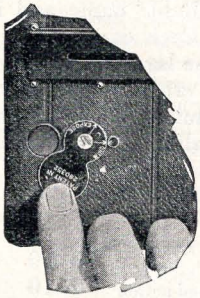
Solid leather carrying case	6/6
Solid leather carrying case, velvet-lined, lock and key	10/6

ENSIGN CARBINE No. 7



FOR ROLL FILMS
$2\frac{1}{4}'' \times 3\frac{1}{4}''$—$6 \times 9$cm.

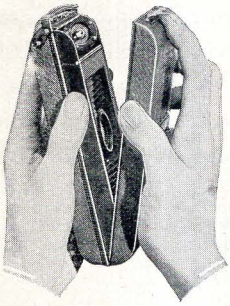
A NEW MODEL COMPLETE WITH EVERY MODERN REFINEMENT



Film Registering Device, controlled from sight hole cover

THE Ensign Carbine No. 7 is the very latest development in high-class roll film cameras and embodies in its ingenious and practical design every movement necessary to the amateur who wishes from time to time to produce serious work without having to use complicated, expensive and clumsy apparatus.

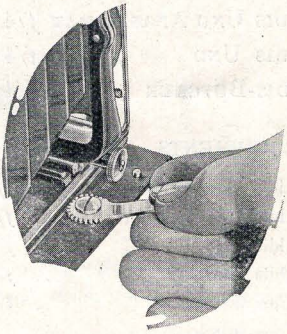
ENSIGN CARBINE No. 7



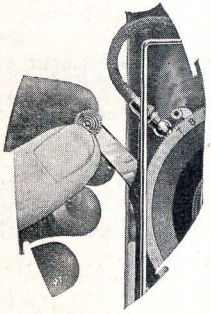
Easy opening hinged back

The camera is made throughout of brass, therefore impervious to atmospheric variations, and is covered with finest quality morocco grained leather. It is provided with a specially flat unobtrusive winding knob of quite new design. The back is secured to the body by a strong piano hinge, and closes with an ingenious, safe, but easily operated catch. The back is fitted with the Ensign film registering device, ensuring an absolutely flatness of the film. A strong leather handle is fitted.

The spool pins are hinged and loading is exceptionally simple. Bellows are made of specially selected leather faced with linen and lined.



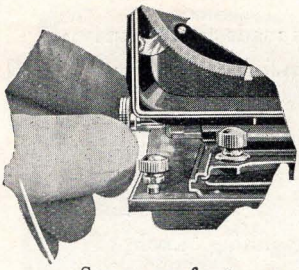
Quick action radial focussing



Lever raising front

The elegant cast U-shape front provides absolute rigidity for the lens and shutter, and is fitted with new quick action radial focussing, very easy in operation and allowing the pictures to be made as close as 4 ft. Cross front movement is also provided which operates as rising front for landscape pictures.

ENSIGN CARBINE No. 7



Screw cross front.

TWO view finders are provided, reflex type, and direct vision with sighter plate for use at eye level. A variety of lenses and shutters are available, flexible release is included according to choice. The size overall is $7 \times 3\frac{1}{2} \times 1\frac{1}{2}$, and the weight 30 ozs.

The Ensign Mulchro shutter has speeds of 1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100 sec. T. & B. New Compur shutters with delayed action are fitted unless otherwise specified.

Prices

STANDARD EQUIPMENTS

7/10	ALDIS UNO ANASTIGMAT	*f*/4·5	Mulchro shutter ..	£6 10	0
7/11	ALDIS UNO „	*f*/4·5	Compur (delayed action)	8 10	0
7/14	ALDIS-BUTCHER „	*f*/4·5	Compur „ „	9 15	0

OTHER EQUIPMENTS

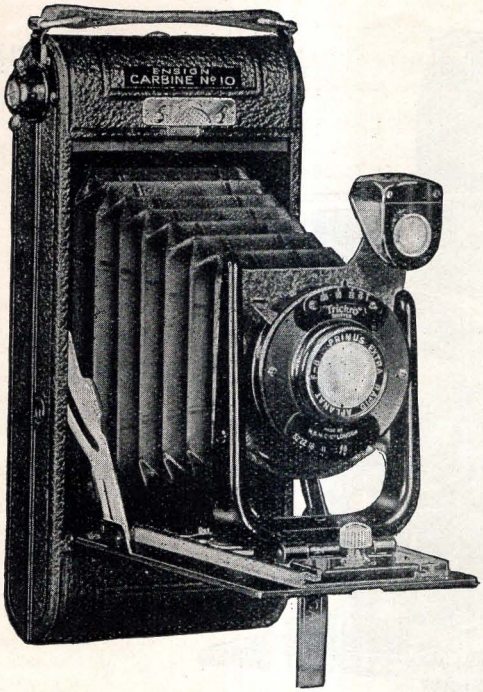
7/5	Aldis Uno Anastigmat ..	*f*/7·7 ..	Trichro shutter	£4 15	0
7/8	Aldis Uno „ ..	*f*/6·3 ..	Trichro „	5 5	0
7/6	Aldis Uno „ ..	*f*/7·7 ..	6-speed „	5 15	0
7/9	Aldis Uno „ ..	*f*/6·3 ..	6-speed „	6 5	0
7/12	Aldis Butcher „ ..	*f*/6·3 ..	6-speed „	7 0	0
7/13	Aldis-Butcher „ ..	*f*/6·3 ..	Compur „	9 0	0
7/x	Aldis-Butcher „ ..	*f*/4·5 ..	Mulchro „	7 15	0
7/51	Ross Xpres „ ..	*f*/4·5 ..	Compur (delayed action)	11 12	6
7/80	Zeiss Tessar „ ..	*f*/6·3 ..	Compur „ „	9 10	0
7/81	Zeiss Tessar „ ..	*f*/4·5 ..	Compur „ „	9 15	0

N.B.—Cameras can be fitted with non-delayed action compur shutter at 15/– less than listed price.

Model with back to take plates or film-packs 12/6 extra, including one single metal plate holder.

Canvas cases, best quality, leather bound	3/–
Limp leather, black	3/6
Solid leather, full hide, hand sewn, black or brown	6/6
Full hide finest quality, velvet-lined, lock and key, brown	10/6
Carbine daylight developing tank	15/–
Plate holders for plate back model .. 2/6 Focussing Screen	8/6
Film-pack adapter .. .. plain 8/6 leather covered	12/6

ENSIGN CARBINE No. 10



FOR ROLL FILMS $2\frac{1}{2}$

$2\frac{1}{2}'' \times 4\frac{1}{4}''$ — $6{\cdot}5 \times 11$ cm.

FOR
ARTISTIC
PANEL
PICTURES

A FIRST-CLASS camera at a popular price. Giving a picture of reasonable size, and artistic in shape. Its bulk does not make it inconvenient for carrying in the pocket.

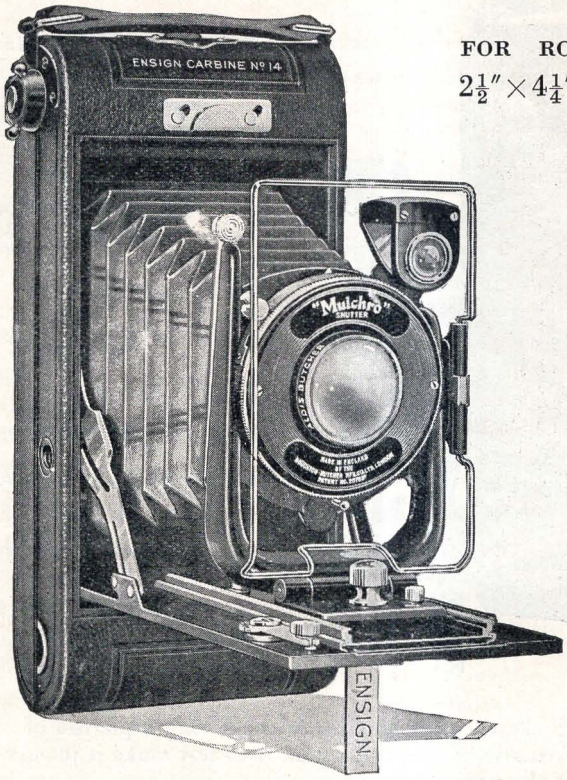
Body of well-seasoned selected timber, reinforced by metal ends and covered with first-class leatherette, fitted with the Ensign patent film registering device which ensures the film lying absolutely flat during exposure. Stamped brass U-front, automatic infinity catch, focussing scale down to 5 feet, brilliant finder, hinged spool pins, very easy loading, no spare parts, and very strong winder, shutter release, and 24-page instruction book.

Prices

10/1	Single Achromatic	$f/11$	T.B.I. shutter	..	£2	17	6
10/2	Rapid Aplanat ..	$f/8$	3-speed ,,	..	3	7	6
10/5	Aldis Uno Anastigmat	$f/7{\cdot}7$	3 ,, ,,	..	3	17	6

Canvas case, best quality	4/-
Limp leather case, best quality	4/6
Solid leather case, best quality, hand sewn, black or brown	8/6
Carbine daylight developing tank	21/-

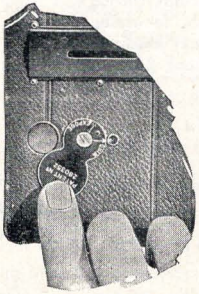
ENSIGN CARBINE Nos. 12 and 14



FOR ROLL FILMS $2\frac{1}{2}$ $2\frac{1}{2}'' \times 4\frac{1}{4}''$—$6 \cdot 5 \times 11$ cm.

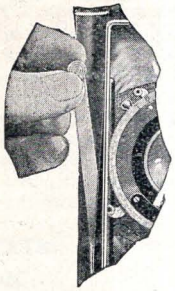
A NEW MODEL FOR ARTISTIC PICTURES

THE Ensign Carbine No. 12 is familiar to all as a simple, thoroughly reliable and well-made camera for $2\frac{1}{2}'' \times 4\frac{1}{4}''$ panel pictures. The New No. 14 is similar in every respect but has in addition radial focussing and rising front movements. The general construction is carried out in first-class style and workmanship is perfect. Essentially a utility camera it nevertheless is capable of producing the finest work from any type of subject, and the size gives a contact print which is satisfying.



Film Registering Device controlled from sight hole cover.

ENSIGN CARBINE Nos. 12 and 14



Rising Front Lever of No. 14.

BODY: Solidly constructed of wood reinforced by metal end sections; metal back covered with best quality morocco grain leather. Folding baseboard on exceptionally strong hinge supported in open position by solid struts and when shut affording ample protection to the lens. Fitted with two tripod bushes. The Ensign patent film registering device is fitted. FRONT: Stamped U-shaped casting of exceptional rigidity and embossed lens plate amply strong enough to carry large aperture lenses and fast shutters. No. 14 is fitted with rising front and radial focussing movement.

LOADING: Hinged spool pins retain the spools, and loading is essentially simple. There are no loose parts. FOCUSSING: Draws forward by hand movement into automatic infinity catch. Engraved focussing scale mounted on spring plate with positions down to 5 ft. WINDER: Very strong knob pattern, silent working. VIEW FINDERS: Reversible brilliant and direct vision wire finder with sighter. SIZE: $7\frac{1}{4} \times 4 \times 1\frac{3}{4}$ in. WEIGHT: 32 oz.

No. 14 has radial focussing.

Compur shutters have delayed action.

Prices

STANDARD EQUIPMENTS				No. 12		No. 14	
ALDIS UNO ANASTIG.	f/7·7	Trichro	shutter	12/5	£4 2 6	14/5	£4 15 0
ALDIS UNO ,,	f/6·3	6-speed	,,	12/9	5 15 0	14/9	6 7 6
ALDIS-BUTCHER ,,	f/4·5	Mulchro	,,	12/Z	7 12 6	14/Z	8 5 0
ALDIS-BUTCHER ,,	f/4·5	Compur	,,	12/14	9 12 6	14/14	10 5 0

OTHER EQUIPMENTS				No. 12		No. 14	
Aldis Uno Anastigmat	f/7·7	6-speed	shutter	12/6	£5 0 0	14/6	£5 12 6
Aldis-Butcher ,,	f/6·3	6-speed	,,	12/12	6 15 0	14/12	7 7 6
Aldis-Butcher ,,	f/6·3	Compur	,,	12/13	8 15 0	14/13	9 7 6
Ross Xpres ,,	f/4·5	,,	,,	12/51	11 15 0	14/51	12 7 6
Zeiss Tessar ,,	f/6·3	,,	,,	12/80	9 7 6	14/80	10 0 0
Zeiss Tessar ,,	f/4·5	,,	,,	12/81	9 17 6	14/81	10 10 0

N.B.—Cameras can be fitted with non-delayed action Compur shutters at 15/- less.

Limp leather carrying case	4/6
Solid leather case, black or brown, hand sewn	8/6
Finest hide case, brown, velvet-lined, lock and key	12/6

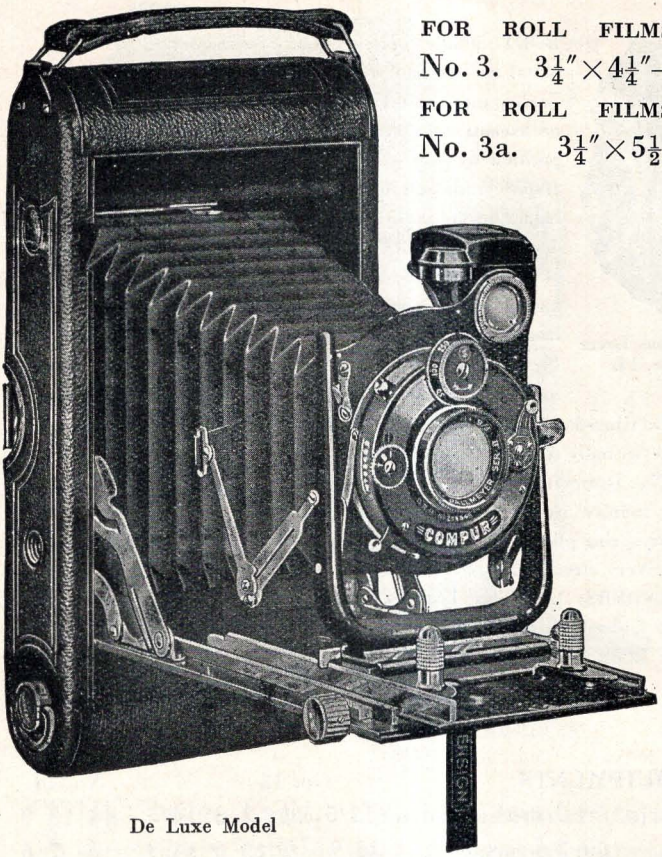
ENSIGNS Nos. 3 and 3A

FOR ROLL FILMS OR PLATES

No. 3. $3\frac{1}{4}'' \times 4\frac{1}{4}''$—8·3 × 10·8 cm.

FOR ROLL FILMS OR PLATES

No. 3a. $3\frac{1}{4}'' \times 5\frac{1}{2}''$—8·3 × 14 cm.



De Luxe Model

STANDARD MODEL WITH SINGLE EXTENSION

DE LUXE MODEL WITH DOUBLE EXTENSION

THESE Ensigns are made in two sizes, $\frac{1}{4}$-plate, giving a picture $3\frac{1}{4} \times 4\frac{1}{4}$, and post-card, and they have the distinct advantage of producing pictures, the contact prints of which are wholly satisfying. Particularly is this the case with the post-card size camera.

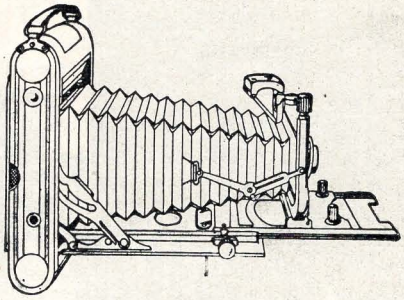
STANDARD MODEL SINGLE EXTENSION

BODY: Made of well-seasoned wood, with metal ends, covered with first-class morocco leather. Strong extra long aluminium baseboard on substantial hinges, fitted with solid cut runners. Integral spool pins and silent winder. Fitted with bushes for vertical and horizontal positions. First-class leather bellows. Automatic infinity catch and focussing scale. FRONT: Solid aluminium U-shaped casting, fitted to solid carriage working on runners. Rising and cross movement. Brilliant view finder reversible for horizontal position.

ENSIGNS Nos. 3 and 3A

DE LUXE DOUBLE EXTENSION

GENERAL construction as standard model. In addition to being the perfect camera for general snapshot and ordinary photograph, the scope is considerably increased by the double extension feature, which makes possible copying, table-top photography flower studies at near distances, and landscapes with increased magnification by the use of a single component of a convertible lens. The de Luxe model is also fitted with back to take single metal plate holders COPYING: Using the camera at its fullest extension and focussing on the ground glass, objects may be copied actual size and actually larger in the case of objects smaller than the actual size of the film or plate. CONVERTIBLE LENSES: Lenses such as the Ross Homocentric *f*/6·3, can be used in the separate components. Each has a focus of approximately double the complete lens and will give double magnification, and the lens is stopped down to half its normal aperture.



The Double Extension

Including flexible wire release and instruction booklet

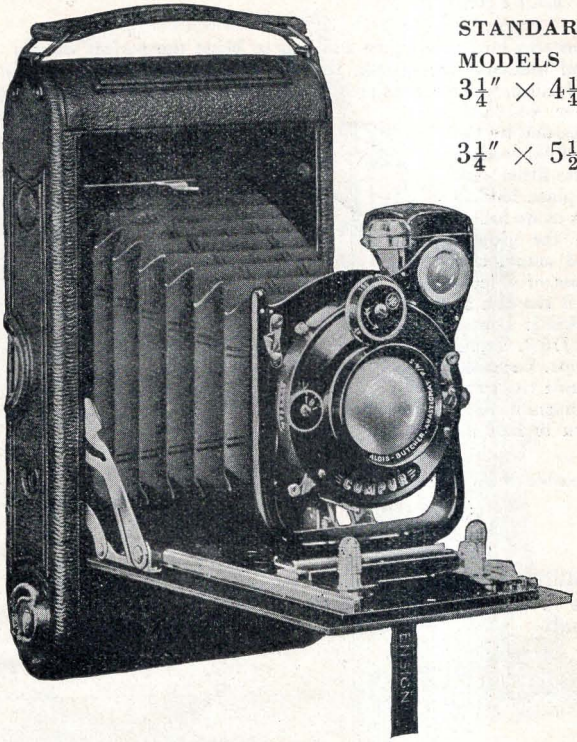
Prices

				Standard Model.	De Luxe Model.
No. 3 STANDARD EQUIPMENTS					
3/2	RAPID APLANAT LENS ..	*f*/8	3-speed shutter ..	£5 0 0	—
3/5	ALDIS UNO ANASTIGMAT..	*f*/7·7	3 „ „ ..	5 15 0	—
3/6	ALDIS UNO „ ..	*f*/7·7	6 „ „ ..	6 12 6	£9 2 6
3/12	ALDIS-BUTCHER „ ..	*f*/6·3	6 „ „ ..	7 15 0	10 5 0
3/13	ALDIS-BUTCHER „ ..	*f*/6·3	Compur „ ..	9 15 0	12 5 0
SPECIAL EQUIPMENTS					
3/50	Ross Homocentric ..	*f*/6·3	Compur shutter ..	11 5 0	13 15 0
3/80	Zeiss Tessar	*f*/6·3	„ „ ..	11 0 0	13 10 0
	All Compur shutters with delayed action.				
No. 3A STANDARD EQUIPMENTS					
3A/2	RAPID APLANAT LENS ..	*f*/8	3-speed shutter ..	£5 15 0	—
3A/5	ALDIS UNO ANASTIGMAT..	*f*/7·7	3 „ „ ..	6 10 0	—
3A/6	ALDIS UNO „ ..	*f*/7·7	6 „ „ ..	7 7 6	10 5 0
3A/12	ALDIS-BUTCHER „ ..	*f*/6·3	6 „ „ ..	8 17 6	11 15 0
3A/13	ALDIS-BUTCHER „ ..	*f*/6·3	Compur „ ..	10 12 6	13 10 0
SPECIAL EQUIPMENT					
3A/50	Ross Homocentric.. ..	*f*/6·3	Compur shutter	12 5 0	15 2 6
3A/80	Zeiss Tessar	*f*/6·3	„ „	12 2 6	15 0 0

Prices of de Luxe model include one plate holder. Standard model can be supplied with plate back at 12/6 extra, including one plate holder.

	No. 3	No. 3A
Canvas carrying case with sling strap	4/6	5/–
Leather carrying case	10/–	11/6
Leather carrying case, velvet-lined, lock and key..	13/–	15/–
Carbine developing tank	25/–	—
Single metal plate holders	2/–	3/–
Focussing screen with hood	9/–	11/–

SPEED ENSIGN Nos. 3 and 3A



STANDARD AND DE LUXE MODELS FOR ROLL FILMS
$3\frac{1}{4}'' \times 4\frac{1}{4}''$ — $8{\cdot}3 \times 10{\cdot}8$ cm.
AND
$3\frac{1}{4}'' \times 5\frac{1}{2}''$ — $8{\cdot}3 \times 14$ cm.

FITTED WITH
f/4·5
ANASTIGMATS
IN COMPUR
SHUTTERS

THESE speed Ensigns are really efficient "all-the-year round" cameras, of a size which gives a satisfactory contact print and with lenses capable of producing pictures in the most adverse lighting conditions. Thus many pictures can be secured which would otherwise be impossible. Full specification will be found on pages 20 and 21.

Prices

¼-PLATE. STANDARD EQUIPMENTS			No. 3		No. 3 De Luxe	
Aldis-Butcher Anastig.	*f*/4·5	3/14	£10 10 0		3L/14	£13 0 0
SPECIAL EQUIPMENTS						
Ross Xpres	*f*/4·5	3/51	£13 0 0		3L/51	£15 10 0
Cooke Aviar	*f*/4·5	3/71	12 15 0		3L/71	15 5 0
Zeiss Tessar	*f*/4·5	3/81	11 0 0		3L/81	13 10 0
POSTCARD.			No. 3A		No. 3A De Luxe	
Ross Xpres	*f*/4·9	3A/51	£14 12 6		3AL/51	£17 10 0

Ensigns No. 3 and 3A can also be supplied with plate back to take single metal plate holders at 12/6 extra including one plate holder.

THE FLORENTINE BRONZE

ENSIGN CARBINES

TO those who appreciate the really beautiful these Ensign Carbines will be a source of sheer delight. They are the exemplification of the perfect craftsmanship for which Britain is so justly famous. The beautiful Florentine Bronze finish makes the camera a pleasure to handle and carry. Particular attention has been given to rendering these cameras insusceptible to atmospheric and climatic variations. They are, therefore, eminently suitable for use in all tropical regions.

ENSIGN CARBINE

FLORENTINE NO. 4

MADE throughout of brass specially treated and oxidised. Partly polished and of extremely handsome appearance. No parts to wear or get shabby. Hinged spool pins making loading a very simple matter. Russia leather bellows triple-proofed and impervious to insects, bolted back and front. Automatic infinity catch and brilliant view finder. Trichro all-metal 3-speed shutter. Each camera is supplied with wire shutter release and instruction book.

Each camera packed in chamois bag.

Prices

T4/5	ALDIS UNO ANASTIGMAT *f*/7·7	£3 15 0
T4/8	ALDIS UNO ANASTIGMAT *f*/6·3	4 5 0

Solid leather carrying case	5/6
Solid leather carrying case, velvet-lined, lock and key	10/6

ENSIGN CARBINE

FLORENTINE NO. 6

FOR ROLL FILMS
$2\frac{1}{4}$B—$2\frac{1}{4}'' \times 3\frac{1}{4}''$
6×9 cm.

BRASS body finished Florentine bronze, fitted with specially proofed double-lined Russia leather bellows, bolted back and front. Hinged spool pins, silent winder, very easy loading. Cast front with rising movement. Direct vision wire type view finder with back sighter plate, also reflex type. Radial focussing to 4 feet. Lenses and shutters as specified.

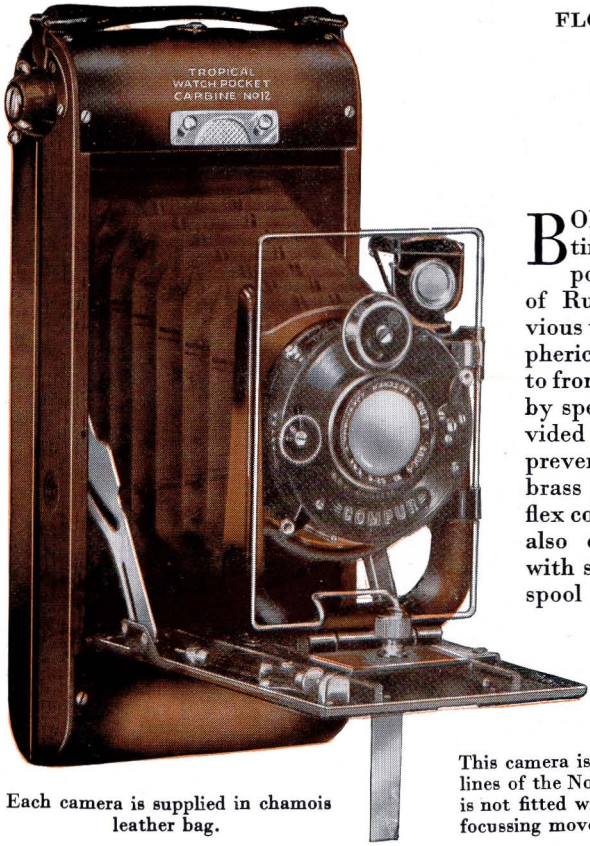
Prices

STANDARD EQUIPMENTS									
T6/9	ALDIS UNO Anastigmat	..	*f*/6·3	6-speed shutter		..	..	£7 15	0
T6/10	ALDIS UNO	,,	..	*f*/4·5	Mulchro	,,	.. ..	8 0	0
T6/11	ALDIS UNO	,,	..	*f*/4·5	Compur	,,	(delayed action)	10 0	0
T6/12	ALDIS-BUTCHER	,,	..	*f*/6·3	6-speed	,,	.. ..	8 10	0
T6/13	ALDIS-BUTCHER	,,	..	*f*/6·3	Compur	,,	(delayed action)	10 10	0
T6/Z	ALDIS-BUTCHER	,,	..	*f*/4·5	Mulchro	,,	.. ..	9 5	0
T6/14	ALDIS-BUTCHER	,,	..	*f*/4·5	Compur	,,	(delayed action)	11 5	0
SPECIAL EQUIPMENTS									
T6/80	Zeiss Tessar ..	..	..	*f*/6·3	Compur shutter		(delayed action)	11 0	0
T6/51	Ross Xpres ..	..	..	*f*/4·5	,,	,,	,, ,,	12 2	6
T6/81	Zeiss Tessar ..	..	..	*f*/4·5	,,	,,	,, ,,	11 5	0

Model with back fitted to take single metal plate holders .. .. extra 12/6

Bronze metal plate holders (for plate back model), 3/6; *Oxidised metal focussing screen*, 12/6; *Film-pack adapter*, 15/–: *Best hide case, velvet lined*, 10/6.

ENSIGN CARBINE



FLORENTINE NO. 12

FOR ROLL FILMS
$2\frac{1}{2}$—$2\frac{1}{2}'' \times 4\frac{1}{4}''$—
$6{\cdot}5 \times 11$ cm.

BODY finished Florentine bronze. Sides of polished teak. Bellows of Russia leather, impervious to insects and atmospheric variations, screwed to front and bolted to back by special plate, and provided with special valve to prevent suction. Stamped brass front fitted with reflex collapsible view finder, also direct vision finder with sighter plate. Hinged spool pins, silent winder.

Each camera is supplied in chamois leather bag.

This camera is designed on the popular lines of the No. 12 Ensign Carbine, and is not fitted with rising front or radial focussing movement.

Prices

STANDARD EQUIPMENTS

T12/9	ALDIS UNO Anastigmat	..	*f*/6·3	6-speed shutter		..	..	£7	10	0
T12/12	ALDIS-BUTCHER „	..	*f*/6·3	6 „	„	..	..	8	10	0
T12/13	ALDIS-BUTCHER „	..	*f*/6·3	Compur	„	(delayed action)		10	10	0
T12/Z	ALDIS-BUTCHER „	..	*f*/4·5	Mulchro	„	..	..	9	7	6
T12/14	ALDIS-BUTCHER „	..	*f*/4·5	Compur	„	(delayed action)		11	7	6

SPECIAL EQUIPMENTS

T12/80	Zeiss Tessar ..	..	..	*f*/6·3	Compur shutter	(delayed action)		11	2	6
T12/51	Ross Xpres ..	..	..	*f*/4·5	„	„	„	„	13	10	0
T12/81	Zeiss Tessar ..	..	..	*f*/4·5	„	„	„	„	11	12	6

Full hide case, hand sewn, velvet lined 12/6

ENSIGN TROPICAL FILM REFLEX

WITH FOCAL PLANE SHUTTER

FOR ROLL FILMS
$2\frac{1}{4}'' \times 3\frac{1}{4}''$
6×9 cm.

AN ABSOLUTELY UNIQUE NEW CAMERA BUILT FOR HARD WORK

Patents
207637
280352

NO LEATHER COVERING—ALL BRASS MECHANISM—RUSSIA LEATHER HOOD, TEAK BODY, WAX FINISH, BRASS BOUND.

ENSIGN TROPICAL FILM REFLEX

A UNIQUE NEW MODEL OF OUTSTANDING MERIT

THE Tropical speed film reflex unquestionably reaches the highest point so far attained in camera manufacture. It is the very embodiment of sound design carried to a practical end by absolutely perfect workmen. This camera is for real hard work. There is nothing to go wrong, and every part is made as perfectly as it is possible to make it irrespective of price. The designers have tried to produce a camera usable in any climate under the severest conditions, embodying every essential feature for every class of work. They have brilliantly succeeded, and the Tropical Speed Film Reflex is a worthy exponent of British manufacture at its very best.

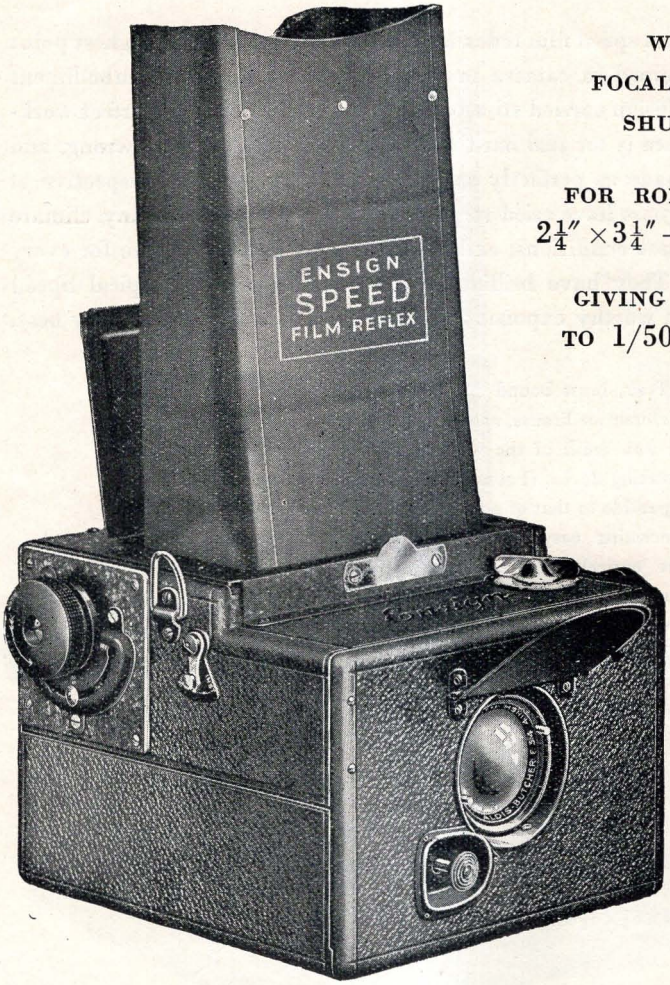
BODY: Teak, brass bound at all vital points, all external fittings finished Florentine bronze, contrasting beautifully with the thoroughly practical wax finish of the woodwork and incorporating the patent film registering device (Patent 280352), which ensures flatness of the film comparable to that of a glass plate. The large Russia leather hood makes focussing easy in any light. Fitted with spring handle. The mirror is optically worked and surface silvered. Exceptionally simple to load and manipulate. No loose parts. THE SHUTTER is constructed on the self-capping variable slit principle and gives a range of speeds of 1/25, 1/40, 1/50, 1/75, 1/125, 1/250, 1/500 sec. and Time. No more movements are required to set the shutter than with an ordinary folding camera—you simply set your speed by a knob, wind up the shutter and make the exposure. THE LENS EQUIPMENT: The standard equipments are the Aldis-Butcher *f*/4·5 and *f*/3·4 anastigmats. They are personally guaranteed by Mr. H. C. Aldis, and each is accompanied by a photographic test chart showing the absolutely perfect covering power and definition obtained. These lenses, which are made specially for this camera, are a very real optical achievement. SIZE, $6\frac{3}{8} \times 6\frac{1}{8} \times 4\frac{1}{4}$ in. WEIGHT, 57 oz.

Prices

TSFR/14	ALDIS-BUTCHER	Anastigmat	*f*/4·5	.. ..	£12	0	0
TSFR/15	ALDIS-BUTCHER	,,	*f*/3·4	. ..	14	0	0
TSFR/51	Ross Xpres	,,	*f*/4·5	.. ..	16	0	0
TSFR/81	Zeiss Tessar	,,	*f*/4·5	.. ..	16	0	0

Leather case, best hide, velvet-lined, with lock and key £1 2 6

ENSIGN SPEED FILM REFLEX



WITH
FOCAL PLANE
SHUTTER

FOR ROLL FILMS
$2\frac{1}{4}'' \times 3\frac{1}{4}'' - 6 \times 9$ cm.

GIVING SPEEDS
TO 1/500TH SEC.

Patents
207637
280352

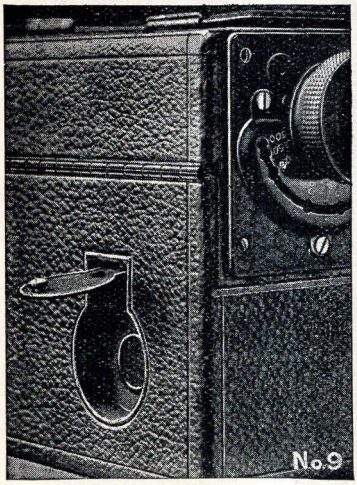
STANDARD MODEL LEATHER COVERED

A CAMERA outstanding in design and construction, having all the advantages of the Reflex principle combined with the portability and convenience of roll films.

ENSIGN SPEED FILM REFLEX

A REMARKABLE ACHIEVEMENT

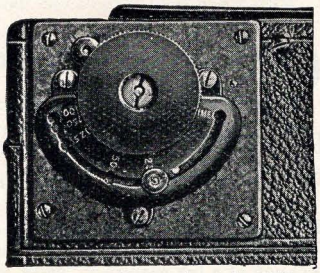
THE reflex camera has hitherto been more or less the exclusive preserve of the plate photographer, and its advantages have been somewhat discounted by the weight and bulk necessitated by its design and construction, and more especially because it requires the use of glass plates. The Roll Film Reflex, with fast focal plane shutter, has at last made its appearance in the Ensign Speed Film Reflex, and this remarkable new camera combines all the natural advantages of the reflex camera, with the handiness, portability and lightness of the roll film.



The film registering device
Patent 280352

THE CAMERA is made throughout of mahogany, covered with finest quality fine grain morocco leather, reinforced with metal and incorporating the patent film registering device (Patent 280352), which ensures flatness of the film comparable to that of a glass plate. The large top leather hood makes focussing easy in any light. Fitted with leather-covered spring handle. The mirror is optically worked and surface silvered. Exceptionally simple to load and manipulate. No loose parts. THE SHUTTER is constructed on the self-capping variable slit principle, and gives a range of speeds of 1/25, 1/40, 1/50, 1/75, 1/125, 1/250, 1/500 sec. and Time. No more movements are required to set the shutter than with an ordinary folding camera —you simply set your speed by a knob, wind up the shutter and make the exposure. THE LENS EQUIPMENT: The standard equipments are the Aldis-Butcher *f*/4·5 and *f*/3·4 anastigmats. They are personally guaranteed by Mr. H. C. Aldis, and each is accompanied by a photographic test chart showing the absolutely perfect covering power and definition obtained. These lenses, which are made specially for this camera, are a very real optical achievement.

SIZE, $6\frac{3}{8} \times 6\frac{1}{8} \times 4\frac{1}{4}$ in. WEIGHT, 50 oz.



"Set your shutter by a knob"

Prices

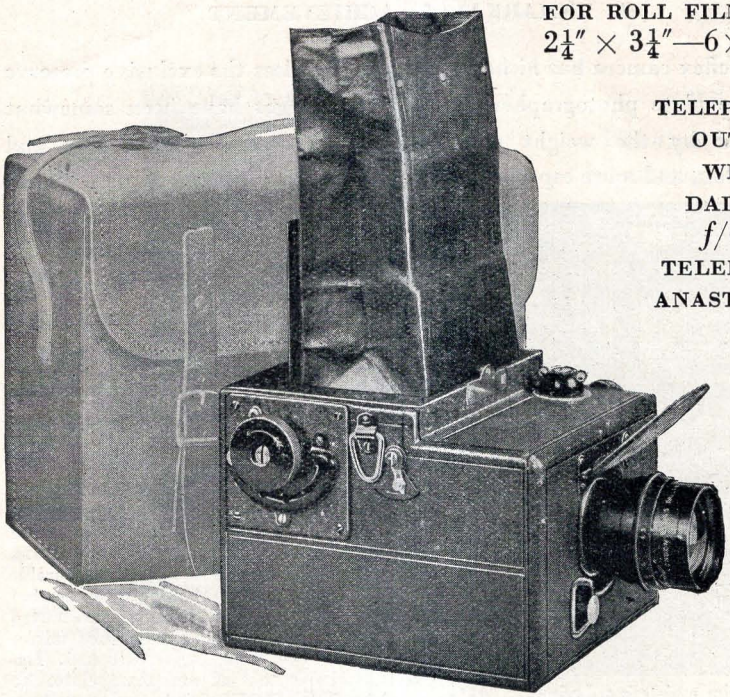
SFR/14	ALDIS-BUTCHER Anastigmat	*f*/4·5	.. .. ..	£10 10 0
SFR/15	ALDIS-BUTCHER ,,	*f*/3·4	.. .. ..	12 12 0
SFR/51	Ross Xpres ,,	*f*/4·5	.. .. ..	14 10 0
SFR/81	Zeiss Tessar ,,	*f*/4·5	.. .. ..	14 10 0

Leather case, best hide, velvet-lined, with lock and key £1 2 6

ENSIGN SPEED FILM REFLEX

FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}''$—$6 \times 9$ cm.

TELEPHOTO
OUTFIT
WITH
DALLON
$f/6{\cdot}5$
TELEPHOTO
ANASTIGMAT



A CAMERA THAT OFFERS MANY ADVANTAGES

ONE of the ambitions of every keen photographer is to possess a telephoto outfit. Naturally. Think what a telephoto outfit makes possible. Here is an outfit that will gladden the heart of the keenest picture-maker.

The benefits to be gained from the use of a telephoto outfit are many. At cricket matches, for instance, when one cannot get near the principal players—those at the wicket. Or on the occasion of a big procession, when one cannot get close to the route. Or for a difficult architectural feature. These are some of its thousand and one applications. Combined with the two features already mentioned they make the Ensign Speed Reflex Telephoto Outfit one of the very finest ever offered—one which no keen photographer who has the means can resist. The Outfit includes Standard Ensign Speed Film Reflex Camera with Aldis-Butcher $f/4{\cdot}5$ Anastigmat, Dallon $f/6{\cdot}5$ 9 in. Telephoto Anastigmat fitted interchangeably, best quality hand-sewn velvet-lined English hide leather case.

Prices

Standard Model **£20 0 0** Tropical Model **£21 10 0**

ENSIGN ROLL FILM REFLEX

Patent 210531

MOST SIMPLE OF ALL CAMERAS TO OPERATE
IDEAL FOR BEGINNERS
100% SHARP RESULTS

FOR ROLL FILMS $2\frac{1}{4}$B
$2\frac{1}{4}'' \times 3\frac{1}{4}'' — 6 \times 9$ cm.

Overcomes the difficulties of judging distance correctly. The operator can view his picture at full size and the right way up, and the subject can be focussed right up to the instant of the exposure. The shoulder strap leaves both hands free for focussing.

STANDARD MODEL

Substantially made of wood covered with first quality morocco leather and provided with leather handle. Hood folds up into the top of the camera when not in use. Focussing is carried out by means of a knob in front of the hood. Shutter gives Time and Instantaneous exposures. Loading—the camera is loaded by removing the inside body—extremely simple.

DETAILS

Size closed, $4 \times 5 \times 5\frac{1}{4}$ in. Weight 30 oz. Complete with sling shoulder strap and 24-page instruction book.

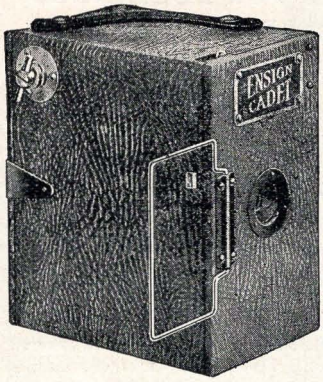
TROPICAL MODEL

Designed especially for the roughest work. The teak body is as strongly made as is possible. The special wax finish retains its appearance after the most prolonged neglect. In fact it is a camera *par excellence* for those whose activities are in rough places. Teak body, wax finish and brass bound at all joints, Russia leather hood, all brass mechanism. Specification generally as above.

STANDARD MODEL			
FR/1	Aldis Uno Anastigmat	*f*/7·7	£3 5 0
FR/2	Aldis Uno ,,	*f*/6·3	3 15 0
FR/3	Ross ,,	*f*/6·3	4 5 0
FR/4	Dallmeyer ,,	*f*/4·5	5 5 0
TROPICAL MODEL			
TFR/1	Aldis Uno Anastigmat	*f*/7·7	5 10 0
TFR/2	Aldis Uno ,,	*f*/6·3	6 0 0
TFR/3	Ross ,,	*f*/6·3	6 10 0
TFR/4	Dallmeyer ,,	*f*/4·5	7 10 0
Leather case, velvet-lined, with lock and key			13 6
Limp leather case for standard model only			5 0
Carbine daylight developing tank			15 0

ENSIGN CADET

FOR ROLL FILMS 1J—$1\frac{5}{8}'' \times 2\frac{1}{2}''$—$4 \times 6.5$ cm.



A STURDILY built little camera, eminently suitable for children and "grown-up" beginners. Takes the popular Vest Pocket size film which enlarges in exact proportions to postcard. A feature is its method of loading, which is "direct," not by means of an internal cone.

Solid body covered first quality black leatherette, direct-vision wire view finder, Everset shutter, giving time and instantaneous exposures; first quality long-focus single achromatic lens, giving beautifully defined pictures, pull-out winder. Black and nickel fittings, solid leather handle. Reversible Reflex finder (extra). Instruction book.

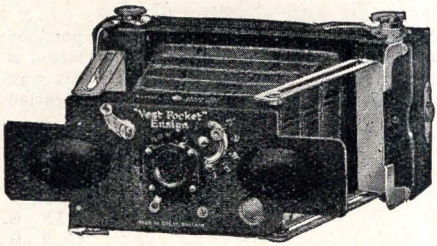
Price 6/6

Complete with reversible reflex view finder .. 7 6

Canvas case with shoulder strap	2/6
Portrait attachment for pictures at 3 ft.	2/6

VEST POCKET ENSIGN

FOR ROLL FILMS 1J—$1\frac{5}{8}'' \times 2\frac{1}{2}''$—$4 \times 6.5$ cm.

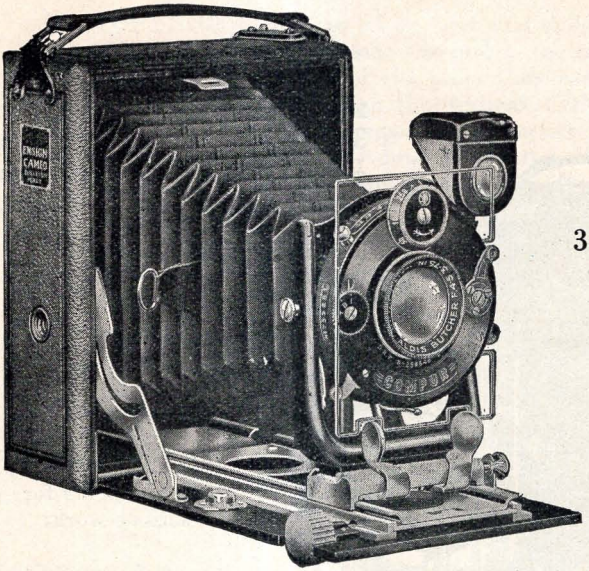


LIGHT and compact, the Vest Pocket Ensign is nevertheless capable of making pictures which can be enlarged to any size, and particularly to postcard, the size being in exact proportion. Aluminium body, crystalline enamel, nickel fittings, leather bellows, silent film winder, integral spool holders, reversible brilliant finder, Iris diaphragm, shutter (T.B. 1/20, 1/40, 1/60 sec.), limp leather case, instruction book. Size $5\frac{1}{4} \times 3 \times 1\frac{1}{4}$ in. Weight, 8 oz.

Price £1 15 0

Leather case, brown	6/6
Portrait Attachments—per set of 3	5/

ENSIGN CAMEO



SPEED OUTFITS

FOR FILM-PACKS OR PLATES

$3\frac{1}{2}'' \times 2\frac{1}{2}''$–$6\frac{1}{2} \times 9$cm.

AND

$\frac{1}{4}$-PLATE—
$8{\cdot}3 \times 10{\cdot}8$ cm.

AN EXTREMELY USEFUL OUTFIT CONTAINING ALL THAT IS REQUIRED FOR EVERY CLASS OF SUBJECT, INCLUDING SPEED WORK

THE direct-vision view finder is a particular feature, and not only increases the speed of manipulation, but enables the operator to obtain pictures in crowded places where a reflex type of finder would be useless. These outfits can now be supplied either with the Mulchro multi-speed shutter or Compur shutter. General specification, pages 34-35.

Outfits include camera, film-pack adapter, hooded focussing screen, two single metal plate holders, flexible release, contained in handsome, full hide hand-sewn brown leather case with lock and key.

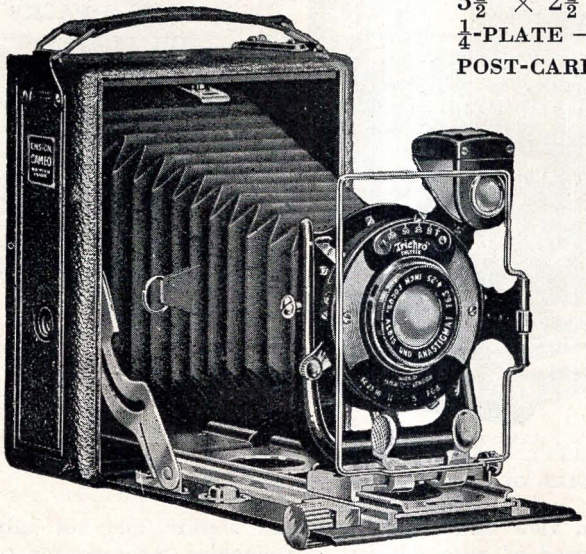
Prices

No. 2 $3\frac{1}{2} \times 2\frac{1}{2}$ in. STANDARD EQUIPMENTS				
2AS/10	Aldis Uno Anastigmat	$f/4{\cdot}5$	Mulchro	£7 10 0
2AS/11	Aldis Uno ,,	$f/4{\cdot}5$	Compur (delayed action)	9 10 0
2AS/Z	Aldis-Butcher ,,	$f/4{\cdot}5$	Mulchro	8 15 0
2AS/14	Aldis-Butcher ,,	$f/4{\cdot}5$	Compur (delayed action)	10 15 0
SPECIAL EQUIPMENTS				
2AS/51	Ross Xpres	$f/4{\cdot}5$	Compur (delayed action)	£12 12 6
2AS/81	Zeiss Tessar	$f/4{\cdot}5$	,, ,,	10 15 0
No. 2 $\frac{1}{4}$-PLATE. STANDARD EQUIPMENTS				
2BS/14	Aldis-Butcher	$f/4{\cdot}5$	Compur	£11 10 0
SPECIAL EQUIPMENTS				
2BS/51	Ross Xpres	$f/4{\cdot}5$	Compur	14 0 0
2BS/81	Zeiss Tessar	$f/4{\cdot}5$	,,	12 0 0
	Extra plate holders, $3\frac{1}{2} \times 2\frac{1}{2}$ or $\frac{1}{4}$-plate			2 6

ENSIGN CAMEO

STANDARD OUTFITS

FOR FILM-PACKS OR PLATES
$3\frac{1}{2}'' \times 2\frac{1}{2}''$ — $6\frac{1}{2} \times 9$ cm.
$\frac{1}{4}$-PLATE — $8{\cdot}3 \times 10{\cdot}8$ cm.
POST-CARD — 8×14 cm.



A Plate and Film-pack Camera of distinction, provided with all the necessary refinements for serious work.

BODY: Well-seasoned wood, tongued corners, covered with solid leather. Substantial baseboard, fitted with runners, automatic infinity catch and focussing scale for near distances. Solid leather bellows, linen faced. FRONT: Solid aluminium casting with rising and falling front, also cross movement, fitted with automatically locking finger grip, solid travelling carriage. The method of operating the rising and falling front varies slightly with the different models. Reflex and direct-vision view finders are fitted (except post-card model). EXTENSION: Double, operated by rack and pinion, full extension, 2A, $8\frac{1}{2}$ in.; 2B, $9\frac{1}{2}$ in.; 2C, $11\frac{3}{4}$ in. Can therefore be used with the separate components of convertible anastigmats such as the Ross Homocentric, Ross Combinable or Zeiss Protar, also for copying purposes and reproduction work. EQUIPMENT: A large selection of lenses and shutters is available, and one will be found for every kind of photographic need. The Aldis Uno and Aldis-Butcher $f/7{\cdot}7$ and $f/6{\cdot}3$ carry the personal guarantee of Mr. H. L. Aldis, and a test chart accompanies each lens.

ENSIGN CAMEO

COPYING: Using the whole lens and fullest extension, objects can be copied same size and in the case of objects smaller than the size of the plate they can actually be photographed larger than the original. CONVERTIBLE LENSES: The single components of certain lenses can be used separately, stopped down to about half the aperture of the complete lens. A good image considerably enlarged is obtained.

Outfits include two single metal plate holders, film-pack adapter, flexible release, hooded focussing screen and 24-page instruction book contained in handsome leather case.

No. 2 $3\frac{1}{2}'' \times 2\frac{1}{2}''$ STANDARD EQUIPMENTS

2A/5	ALDIS UNO ANASTIGMAT	f/7·7	3-speed Shutter		£5 5 0
2A/6	ALDIS UNO ,,	f/7·7	6 ,, ,,		6 2 6
2A/8	ALDIS UNO ,,	f/6·3	3 ,, ,,		5 15 0
2A/9	ALDIS UNO ,,	f/6·3	6 ,, ,,		6 12 6
2A/12	ALDIS-BUTCHER ,,	f/6·3	6 ,, ,,		7 7 6
2A/X	ALDIS-BUTCHER ,,	f/6·3	Mulchro		7 17 6
2A/13	ALDIS-BUTCHER ,,	f/6·3	Compur (delayed action)		9 7 6

SPECIAL EQUIPMENTS

2A/50*	Ross Homocentric	f/6·3	Compur (delayed action)	10 15 0
2A/80	Zeiss Tessar	f/6·3	,, ,, ,,	9 17 6
2A/83*	Zeiss Double Protar (focus $8\frac{3}{4}$/7)	f/7·2	,, ,, ,,	17 7 6
2A/54*	Ross Combinable (focus 8/8)	f/5·5	,, ,, ,,	17 2 6

No. 2 $\frac{1}{4}$-PLATE STANDARD EQUIPMENTS

2B/5	ALDIS UNO ANASTIGMAT	f/7·7	3-speed	£6 5 0
2B/6	ALDIS UNO ,,	f/7·7	6 ,,	7 2 6
2B/12	ALDIS-BUTCHER ,,	f/6·3	6 ,,	8 12 6
2B/X	ALDIS-BUTCHER ,,	f/6·3	Mulchro	9 2 6
2B/13	ALDIS-BUTCHER ,,	f/6·3	Compur (delayed action)	10 12 6

SPECIAL EQUIPMENTS

2B/50*	Ross Homocentric	f/6·3	Compur (delayed action)	12 2 6
2B/80	Zeiss Tessar	f/6·3	,, ,, ,,	11 7 6
2B/83*	Zeiss Double Protar, $11\frac{1}{2}/8\frac{3}{4}$ in.	f/7·2	,, ,, ,,	19 17 6
2B/54*	Ross Combinable, $10\frac{1}{4}/9\frac{1}{2}$ in.	f/5·7	,, ,, ,,	20 2 6

No. 2 POSTCARD STANDARD EQUIPMENTS

2C/5	ALDIS UNO ANASTIGMAT	f/7·7	3-speed	£6 15 0
2C/6	ALDIS UNO ,,	f/7·7	6 ,,	7 12 6
2C/12	ALDIS-BUTCHER ,,	f/6·3	6 ,,	9 7 6
2C/13	ALDIS-BUTCHER ,,	f/6·3	Compur	11 2 6

SPECIAL EQUIPMENTS

2C/50*	Ross Homocentric	f/6·3	Compur	12 15 0
2C/51	Ross Xpres	f/4·9	,,	14 12 6
2C/80	Zeiss Tessar	f/6·3	,,	12 12 6

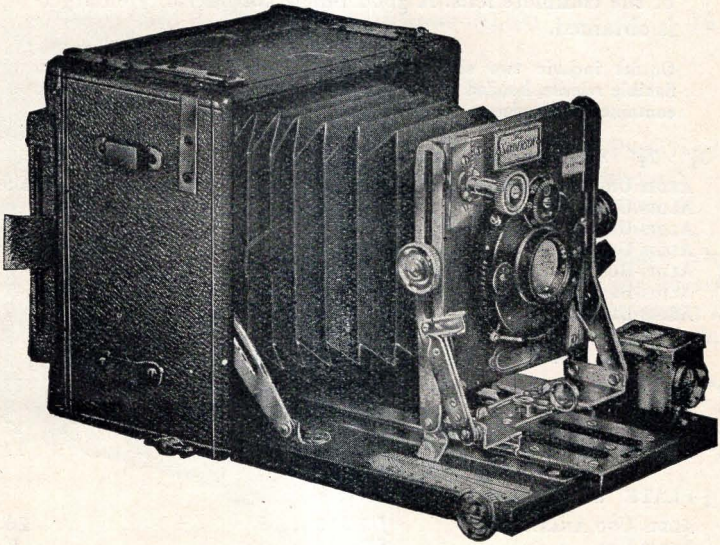
*Convertible lenses.

	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{4}$-plate	Postcard
Extra single metal plate holders	2/6	2/6	3/6

SANDERSON HAND CAMERAS

FOR PLATES, FILM-PACKS AND CUT FILM $\frac{1}{4}$-PLATE

$4\frac{1}{4}'' \times 3\frac{1}{4}''$—10.8 × 8.3 cm.

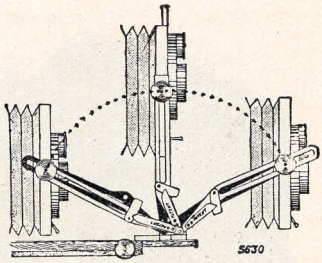


EBONY INTERNAL FINISH WITH NICKEL FITTINGS—SILVER OXIDISED EXTERNAL FITTINGS AND REVOLVING BACK

A UNIVERSAL CAMERA of the highest standard of workmanship and efficiency. The Sanderson is, above everything, absolutely simple and rises to every occasion, however exacting. None of the movements in reserve will complicate the action of the camera for snapshot use, nor are they likely to confuse the beginner. Every possible movement required in a camera is embodied in the Sanderson but none of them interferes with its simplicity and straightforward use. The Sanderson booklet contains a description of all its movements, including the universal swing front, its extra long extension, rising and falling lens front and arrangement for using wide angle lenses. An outstanding advantage of the Sanderson is that there is no necessity for a swing back, because the ingenious movements of the front enables the lens to be raised, even to the level of the upper edge of the plate.

SANDERSON HAND CAMERAS

BODY: Seasoned mahogany, covered in morocco leather. Nickel-plated fittings and best quality leather bellows. EXTENSION: By rack and pinion cut diagonally. Extra long extension for focussing near objects and for copying. Rack rising front, falling and axial swing movements. WIDE ANGLE: Rack and pinion adjustment with additional travelling baseboard. REVOLVING BACK: Leather covered with improved collapsible hood. VIEW FINDER: Brilliant pattern with revolving mask for upright or oblong pictures. Circular brass level attached to baseboard.



Section of Universal Swing Front and Locking Action

BUSHES: Three, for using camera at normal, long extension and wide angle positions.
SLIDES: Three double plate holders, black polished.

Size	Weight	Shortest extension	Longest extension
$5\frac{3}{4} \times 5\frac{3}{4} \times 4$ in.	2 lb. 11 oz.	2 in.	15 in.

POSTCARD SIZE MODEL
Mahogany internal finish and brass lacquered fittings. Prices on application.

Prices

STANDARD EQUIPMENTS

S/6	ALDIS UNO ANASTIGMAT	*f*/7·7	6-speed shutter	£15 15 0
S/12	ALDIS-BUTCHER ,,	*f*/6·3	6-speed ,,	17 5 0
S/13	ALDIS-BUTCHER ,,	*f*/6·3	Compur (delayed action)	18 10 0
S/14	ALDIS-BUTCHER ,,	*f*/4·5	,, ,, ,,	19 15 0

SPECIAL EQUIPMENTS

S/50	Ross Homocentric*	*f*/6·3	Compur (delayed action)	£20 15 0
S/74	Cooke Aviar	*f*/6·3	,, ,,	20 15 0
S/60	Dallmeyer Stigmatic	*f*/6	,, ,, ,,	22 5 0
S/80	Zeiss Tessar	*f*/6·3	,, ,, ,,	20 10 0
S/51	Ross Xpres	*f*/4·5	Compur	£22 10 0
S/70	Cooke Aviar	*f*/4·5	,,	22 5 0
S/81	Zeiss Tessar	*f*/4·5	,,	20 10 0
S/83	Zeiss Double Protar ($11\frac{1}{2}/8\frac{3}{4}$)*	*f*/7·2	,,	28 10 0
S/54	Ross Combinable ($10\frac{1}{4}/9\frac{1}{2}$)*	*f*/5·7	,,	30 10 0
	Camera without lens or shutter			14 0 0

*Convertible lenses.

Double plate holders, black polished	£0 15 0
De luxe ditto, hinged shutters, black polished	1 1 0
Film-pack adapter, leather-covered	1 5 0
Cut film sheaths each	6
Solid leather case, with shoulder strap	1 5 0
Best quality ditto, velvet-lined, with lock and key	1 17 6

ENSIGN PRESSMAN REFLEX

FOR PLATES,
FILM-PACKS
AND
CUT FILMS

ALDIS GUARANTEE BUTCHER

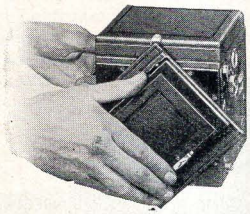
FITTED WITH
ALDIS-BUTCHER
LENSES
f/4·5 and *f*/3·4

THE Ensign Pressman Reflex Camera is built on solid lines and fitted with fixed slit focal plane shutter.

BODY: Mahogany, covered with morocco grained leather. All the fittings, except the focussing pinion, placed on the right-hand side in the most convenient positions for rapid manipulation. FOCUSSING HOOD: Leather of ample size to protect the focussing screen from stray light, self-erecting, covered by a metal cap. The whole hood of ¼-plate model is hinged and can be lifted up for cleaning purposes.

ENSIGN PRESSMAN REFLEX

SHUTTER: Constructed on the permanent slit principle; very reliable and most simple to manipulate. No adjustable bands to wear out. It consists of a single band with three slits, 3 mm., 25 mm. and 100 mm., each of which can be brought into position as required. These, in conjunction with a tension spring, give a variety of exposures from 1/15 to 1/1000 sec. and Time. One turn of the winding key only sets the shutter and speed. A great advantage of this shutter is that it can be set and the speed altered, even with the plate in position ready for exposure. This feature is unique to the Ensign Pressman. FRONT: Absolutely rigid, extending on steel girders engaging with a pinion for focussing. Rising and falling movement. Sky shade protecting lens when closed (Not fitted with *f*/2·9, *f*/2·7 and *f*/2·5 lenses). MIRROR: Optically worked and surface silvered. Everset, it operates without vibration even at the slowest speeds. PLATE HOLDERS: The camera is supplied for single metal or double plate holders. The former are compact and light, first-class finish with title plate. The latter are first-class mahogany book-form type with hinged draw-outs and are very suitable for colour photography. Both types are supplied with cut film sheaths for single flat films. THE REVOLVING BACK: A great improvement whereby the plate can be changed from upright to horizontal or *vice versa* at a moment's notice, with one hand. (The postcard model is not fitted with this feature as it would greatly increase the bulk and weight.)



Equipment A: Includes three single metal plate holders with name-plate fitted with detachable cut-film sheaths, back focussing screen with deep leather-covered hood, neck strap, and 16-page booklet. Equipment C: ¼-plate model only. Without slides, adapted for Graflex accessories, prices as Equipment A. (No accessories.)

Prices

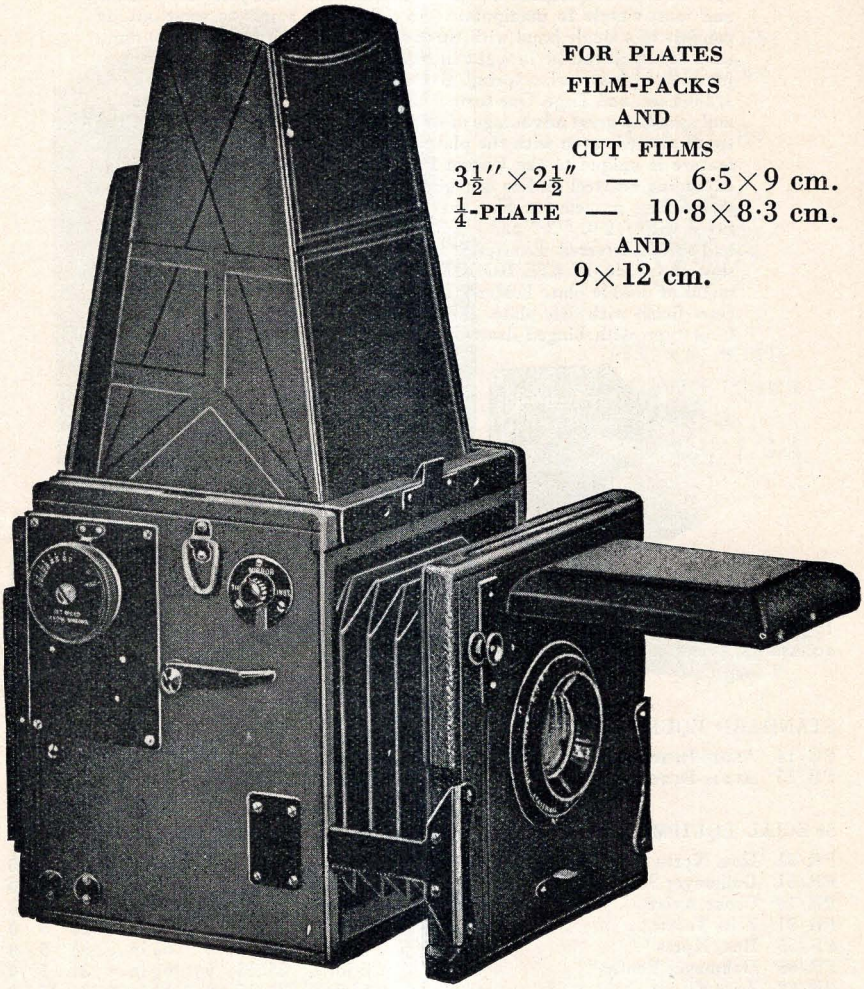
STANDARD EQUIPMENTS				¼-plate		Postcard
PR/14	ALDIS-BUTCHER Anastigmat	*f*/4·5	6 in.	£14 14 0	7 in.	£21 0 0
PR/15	ALDIS-BUTCHER „	*f*/3·4	7 in.	17 17 0	7 in.	24 0 0

SPECIAL EQUIPMENTS						
PR/51	Ross Xpres	*f*/4·5	6 in.	19 5 0	6½ in.	26 0 0
PR/61	Dallmeyer Serrac	*f*/4·5	6 in.	19 5 0	6½ in.	26 0 0
PR/70	Cooke Aviar	*f*/4·5	6 in.	19 0 0	7 in.	26 5 0
PR/81	Zeiss Tessar	*f*/4·5	6 in.	17 0 0	6½ in.	24 5 0
PR/55	Ross Xpres	*f*/2·9	6½ in.	28 5 0	6½ in.	33 5 0
PR/65	Dallmeyer Pentac	*f*/2·9	6 in.	25 15 0	6½ in.	31 5 0
PR/82	Zeiss Tessar	*f*/2·7	6½ in.	31 15 0	6½ in.	36 15 0
PR/73	Cooke Series X	*f*/2·5	6⅜ in.	31 15 0	6½ in.	36 15 0
PR/90	Busch Percheid, soft focus Anastigmat			24 5 0	—	—
	Camera with 3 plate holders only ..			11 15 0	—	17 10 0

Telephoto lenses may be fitted interchangeably, prices on application.

	¼-plate	Postcard
Leather case, first quality black hide, velvet-lined	£1 15 0	£2 2 0
Film-pack adapter, leather covered	12 6	15 0
Film-pack adapter, for double plate holder model	1 5 0	—
Single metal plate holders	3 0	4 0

ENSIGN SPECIAL REFLEX



FOR PLATES
FILM-PACKS
AND
CUT FILMS

$3\frac{1}{2}'' \times 2\frac{1}{2}''$ — $6{\cdot}5 \times 9$ cm.
$\frac{1}{4}$-PLATE — $10{\cdot}8 \times 8{\cdot}3$ cm.
AND
9×12 cm.

ONE CONTROL ONLY SETS SHUTTER AND SPEED

A PERFECT Reflex camera, well designed, strongly made of best materials, easy to manipulate and certain in action. Light in weight and small in size. The camera is exceptionally well finished in all its parts both inside and out, and is unquestionably the finest value in reflex cameras available to-day. Shutter speeds up to 1/1000 sec. and fitted with a selection of high-speed lenses.

ENSIGN SPECIAL REFLEX

BODY: Constructed of well-seasoned wood, specially selected and efficiently clamped, with tongued and grooved corners screwed together. Covered in fine seal grain leather. Black enamelled and nickel-plated fittings. Black leather bellows with ample extension. FOCUSSING: Controlled by rack and pinion adjustment. HOOD: Self-erecting and extra deep, with narrow mouth that excludes all light. Protects the glass screen when folded. Hood can be half reversed, permitting pictures to be taken at right angles. MIRROR: Optically worked glass, surface silvered and highly polished. Falls automatically in position after shutter has been released. REVOLVING BACK: Horizontal or vertical, can be operated in either direction after sheath of plate holder has been withdrawn. A hooded glass focussing screen is provided for direct focussing. LENS FRONT: Rising and falling movements, with locking clamp screw. Fitted with sky shade to protect the lens. (Not with largest aperture lenses.) SHUTTER: Focal plane with self-capping light-proof blind. No calculation or reference to a speed table is necessary, and no variable tension spring adjustment is required. Speed variations obtained by revolving the outer ring on the keywind until the indicator mark is opposite the figure denoting the required exposure. Time or Instantaneous exposures controlled by one release and confusion is impossible. Speeds as follows:—1/15, 1/20, 1/30, 1/50, 1/75, 1/100, 1/200, 1/350, 1/500 and 1/1000 sec.

Size (closed)	$3\frac{1}{2} \times 2\frac{1}{2}$—$6 \times 6\frac{3}{4} \times 6\frac{1}{4}$ in.	Weight 3 lb. 5 oz.
	$\frac{1}{4}$-plate—$6\frac{3}{4} \times 6\frac{3}{4} \times 7$,,	,, 3 ,, 12 ,,

EQUIPMENT: Includes three single metal plate holders fitted with detachable cut-film sheath. back focussing screen with deep leather-covered hood, neck strap.

Prices

with following anastigmats

STANDARD EQUIPMENTS			$3\frac{1}{2} \times 2\frac{1}{2}$		$\frac{1}{4}$-plate	9×12 cm.
SR/14	ALDIS-BUTCHER	*f*/4·5	5 in.	£12 0 0	6 in. £12 15 0	£13 5 0
SR/15	ALDIS-BUTCHER	*f*/3·4	$5\frac{1}{4}$ in.	15 0 0	7 in. 15 15 0	16 5 0
SR/49	Ross	*f*/4·5	—	—	6 in. 13 10 0	14 0 0
SPECIAL EQUIPMENTS						
SR/51	Ross Xpres.. ..	*f*/4·5	5 in.	15 10 0	6 in. 17 0 0	17 10 0
SR/61	Dallmeyer Serrac ..	*f*/4·5	$5\frac{1}{4}$ in.	15 10 0	6 in. 17 0 0	17 10 0
SR/70	Cooke Aviar ..	*f*/4·5	$5\frac{1}{4}$ in.	15 5 0	6 in. 16 15 0	17 5 0
SR/81	Zeiss Tessar ..	*f*/4·5	$5\frac{1}{4}$ in.	13 10 0	6 in. 14 15 0	15 5 0
SR/55	Ross Xpres.. ..	*f*/2·9	$5\frac{5}{8}$ in.	23 10 0	$6\frac{1}{2}$ in. 26 0 0	26 10 0
SR/65	Dallmeyer Pentac	*f*/2·9	$5\frac{1}{2}$ in.	22 0 0	$6\frac{1}{2}$ in. 23 10 0	24 0 0
SR/82	Zeiss Tessar ..	*f*/2·7	$5\frac{3}{4}$ in.	25 10 0	$6\frac{1}{2}$ in. 29 10 0	30 0 0
SR/73	Cooke Series X ..	*f*/2·5	$5\frac{1}{4}$ in.	25 10 0	$6\frac{3}{8}$ in. 29 10 0	30 0 0
	Camera with three plate holders only			9 0 0	9 10 0	10 0 0

	$3\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{4}$-plate	×12 cm.
Single metal plate holders.. ..	£ 2 6 ..	£ 2 6 ..	£ 2 6
Film-pack adapter (leather covered)	12 6 ..	12 6 ..	—
Leather case, velvet-lined ..	1 10 0 ..	1 15 0 ..	1 15 0

ENSIGN SPECIAL REFLEX

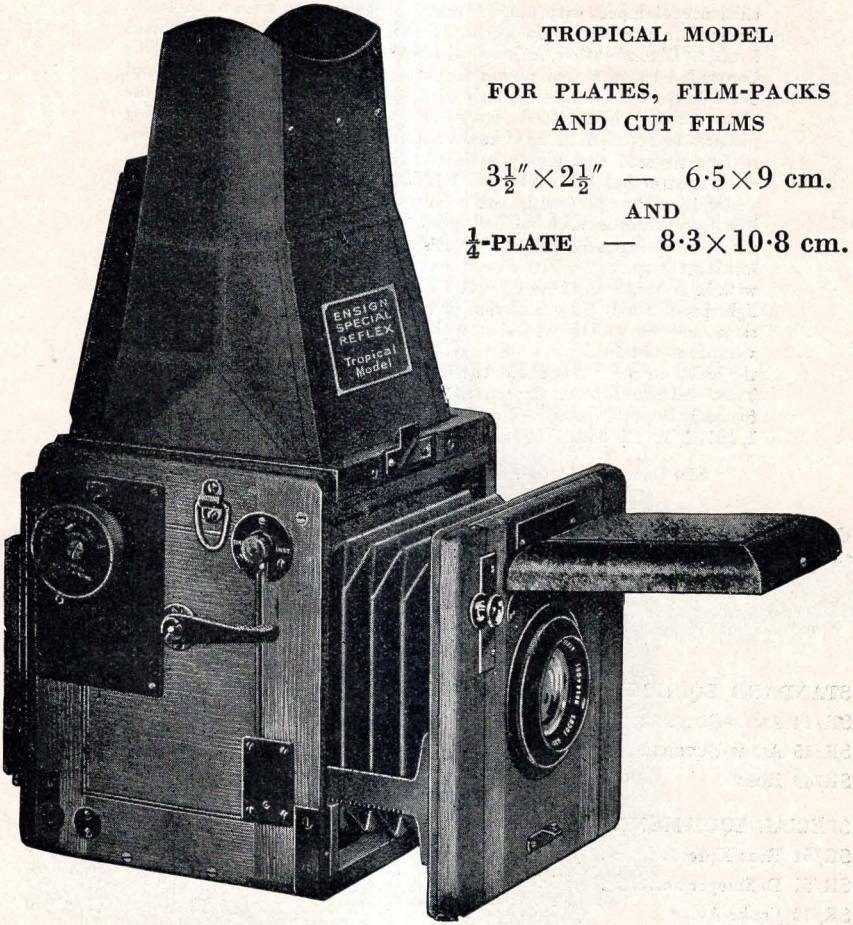
TROPICAL MODEL

FOR PLATES, FILM-PACKS AND CUT FILMS

$3\frac{1}{2}'' \times 2\frac{1}{2}''$ — $6{\cdot}5 \times 9$ cm.

AND

$\frac{1}{4}$-PLATE — $8{\cdot}3 \times 10{\cdot}8$ cm.



THE CAMERA FOR HARD WORK ANYWHERE
BUILT OF TEAK, WAXED FINISH—ALL FITTINGS IN HANDSOME EVERLASTING FLORENTINE BRONZE

SPECIALLY designed for use in Tropics and under all trying atmospheric and climatic conditions. Only selected materials are used, and the camera may be relied upon to stand up well to anything.

When working under trying climatic and atmospheric conditions it is very advantageous to be in possession of apparatus which will not be affected in any way. It is then unnecessary to take any special precautions in regard to its preservation when not in use, and is there always ready at a moment's notice.

ENSIGN SPECIAL REFLEX

TROPICAL MODEL

BODY: Of selected teak, waxed finish and brass bound at essential points. Large self-erecting hood of Russia leather, specially proofed to be damp and insect proof. Russia leather bellows treated in the same manner. FOCUSSING: Controlled by rack and pinion adjustment. MIRROR: Optically worked glass, surface silvered and highly polished. Falls automatically in position after shutter has been released. REVOLVING BACK: Horizontal or vertical, can be operated in either direction after sheath of plate holder has been withdrawn. A hooded glass focussing screen is provided for direct focussing. LENS FRONT: Rising and falling movements, with locking clamp screw. Fitted with sky shade to protect the lens. (Not possible with largest aperture lenses.) SHUTTER: Focal plane with self-capping light-proof blind. No calculation or reference to a speed table is necessary, and no variable tension spring adjustment is required. Speed variations obtained by revolving the outer ring on the keywind until the indicator mark is opposite the figure denoting the required exposure. Time or Instantaneous exposures controlled by one release and confusion is impossible. Speeds as follows: 1/15, 1/20, 1/30, 1/50, 1/75, 1/100, 1/200, 1/350, 1/500 and 1/1000 sec.

Size (closed) $3\frac{1}{2} \times 2\frac{1}{2}$—$6 \times 6\frac{3}{8} \times 6\frac{1}{4}$ in. Weight 3 lb. 5 oz.
$\frac{1}{4}$-plate—$6\frac{3}{4} \times 6\frac{3}{4} \times 7$,, ,, 3 ,, 12 ,,

EQUIPMENT.—Includes three single Florentine bronze plate holders with nameplate, fitted with detachable cut-film sheaths, back focussing screen with deep leather-covered hood, neck strap.

Prices

STANDARD EQUIPMENTS			$3\frac{1}{2} \times 2\frac{1}{2}$		$\frac{1}{4}$-plate	
TR/14 ALDIS-BUTCHER Anastig.	*f*/4·5	5 in.	**£18 0 0**	6 in.	**£19 0 0**	
TR/15 ALDIS-BUTCHER ,,	*f*/3·4	$5\frac{1}{4}$,,	**21 0 0**	7 ,,	**22 0 0**	
SPECIAL EQUIPMENTS						
TR/51 Ross Xpres..	*f*/4·5	5 in.	22 0 0	6 in.	23 15 0	
TR/61 Dallmeyer Serrac	*f*/4·5	$5\frac{1}{4}$,,	22 0 0	6 ,,	23 15 0	
TR/70 Cooke Aviar	*f*/4·5	$5\frac{1}{4}$,,	21 15 0	6 ,,	23 10 0	
TR/81 Zeiss Tessar	*f*/4·5	$5\frac{1}{4}$,,	20 0 0	6 ,,	21 5 0	
TR/55 Ross Xpres..	*f*/2·9	$5\frac{5}{8}$,,	30 0 0	$6\frac{1}{2}$,,	32 15 0	
TR/65 Dallmeyer Pentac ..	*f*/2·9	5 ,,	28 10 0	6 ,,	30 5 0	
TR/82 Zeiss Tessar	*f*/2·7	$5\frac{3}{4}$,,	32 0 0	$6\frac{1}{2}$,,	36 5 9	
TR/73 Cooke Series X	*f*/2·5	$5\frac{1}{4}$,,	32 0 0	$6\frac{3}{4}$,,	36 5 0	
Camera with three plate holders only			15 10 0		16 0 0	

The following Telephoto lenses may be fitted interchangeably with any of the above:—

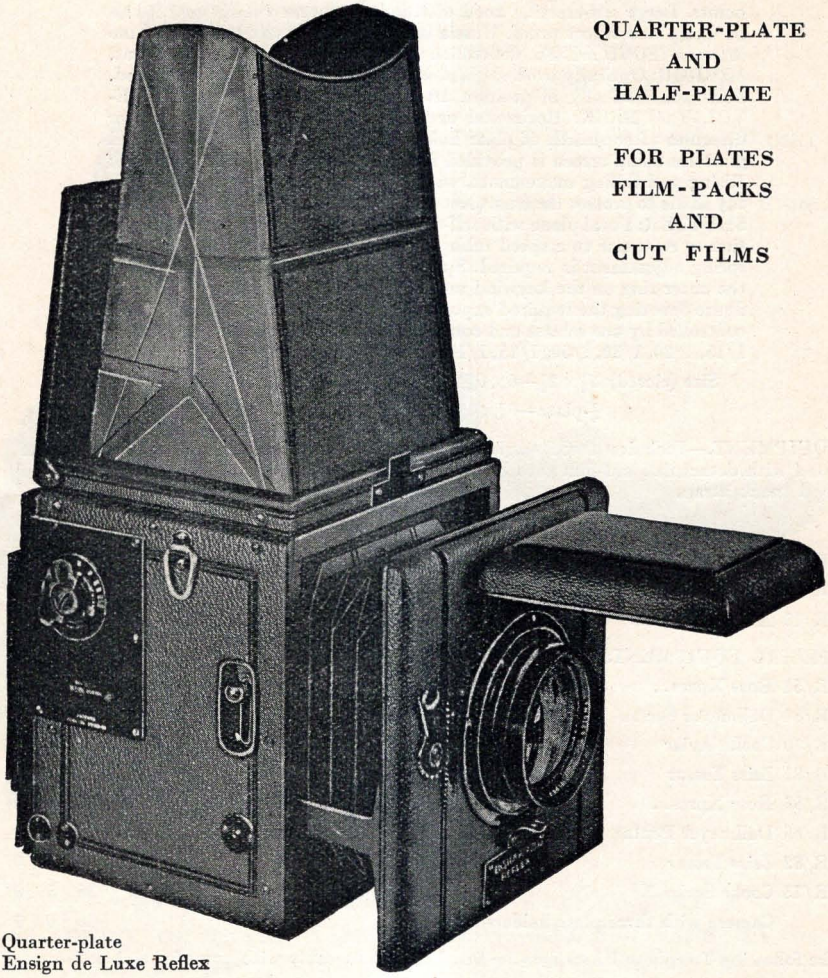
Dallmeyer Dallon	*f*/5·6	extra	£11 0 0	..	£14 0 0
Dalemeyer Dallon	*f*/3·5	,,	—	..	38 0 0
Ross Teleros (2 power)	*f*/5·5	,,	11 10 0	..	15 5 0
Ross Teleros (3 power)	*f*/6·3	,,	14 10 0	..	22 0 0

Florentine bronze plate holders	£0 3 6	Same for both sizes
Cut-film sheaths	6	
Florentine bronze film-pack adapter	15 0	
Solid leather, velvet-lined case with lock and key	2 0 0	

ENSIGN DE LUXE REFLEX

QUARTER-PLATE
AND
HALF-PLATE

FOR PLATES
FILM-PACKS
AND
CUT FILMS



Quarter-plate
Ensign de Luxe Reflex

THE Ensign de Luxe Reflex is an exceedingly light and compact camera, sturdily built for hard work, exceptionally simple in operation and embodying all the essential details of the most advanced type.

ENSIGN DE LUXE REFLEX

QUARTER-PLATE AND HALF-PLATE

BODY: Constructed of well-seasoned wood, specially selected and efficiently clamped, with tongued and grooved corners screwed together. Covered in fine seal grain leather. Black enamelled and nickel-plated fittings. Black leather bellows with sufficient extension for use with Telephoto lenses. FOCUSSING: Controlled by rack and large pinion head. HOOD: Self-erecting and extra deep, with narrow mouth that excludes all light. Protects the glass screen when folded. MIRROR: Optically worked glass, surface silvered. Falls automatically in position after shutter has been released. REVOLVING BACK: Horizontal or vertical, can be used without replacing the sheath of the plate holder. A hoded glass focussing screen is provided for direct focussing. LENS FRONT: Rack rising and falling movements actuated by lever. Fitted with sky shade that also protects the lens. SHUTTER: Self-capping light-proof blind. Film-packs can be used without replacing adapter slide between exposures. Speeds are obtained by revolving the engraved collar on the key-wind, through a portion only of a circle. No calculation or reference to a speed table is necessary, and no available tension spring is required. Only one release for Time or Instantaneous exposures, and it is impossible for a Time or Bulb exposure to be given when Instantaneous is intended. There is a full range of approximate speeds:—Bulb, Time; ¼-plate—1/15, 1/20, 1/25, 1/50, 1/75, 1/100, 1/150, 1/250, 1/500, 1/1000 sec.

½-plate—1/10, 1/20, 1/40, 1/60, 1/100, 1/150, 1/200, 1/400, 1/1000 sec.

An attachment for using an Antinuous release is provided.

EQUIPMENT.—Includes three double plate holders with detachable cut-film sheaths, back focussing screen with deep leather-covered hood and neck strap.

Prices

STANDARD EQUIPMENTS			¼-plate	½-plate
LR/14	ALDIS-BUTCHER ANASTIGMAT	f/4·5	£20 10 0	—
LR/15	ALDIS-BUTCHER „	f/3·4	23 10 0	—

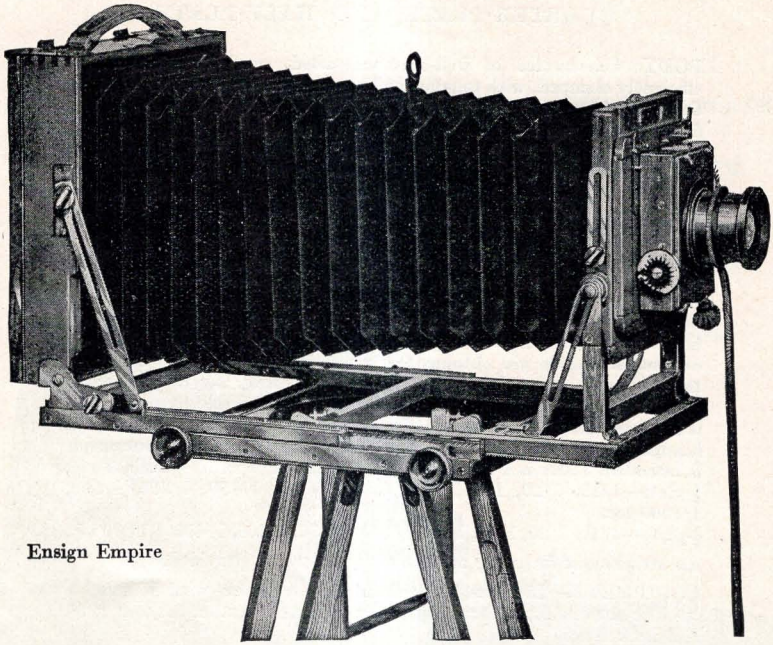
SPECIAL EQUIPMENTS				
LR/51	Ross Xpres	f/4·5	£25 0 0	£50 0 0
LR/61	Dallmeyer Serrac	f/4·5	25 0 0	50 0 0
LR/70	Cooke Aviar	f/4·5	24 15 0	49 10 0
LR/81	Zeiss Tessar	f/4·5	22 15 0	50 5 0
LR/55	Ross Xpres	f/2·9	34 0 0	—
LR/65	Dallmeyer Pentac	f/2·9	31 10 0	—
LR/82	Zeiss Tessar	f/2·7	37 10 0	—
LR/73	Cooke Series X	f/2·5	37 10 0	—
	Camera and three plate holders only		17 10 0	37 10 0

The following Telephoto lenses may be fitted interchangeably with any of the above:—

Dallmeyer Dallon	f/5·6	12 in. extra	£14 0 0 —
Ross Teleros (2 power)	f/5·5	12 in. „	15 5 0 —
Ross Teleros (3 power)	f/6·3	17 in. „	22 0 0 —

	¼-plate	½-plate
Film-pack adapter, leather-covered	£1 5 0	£3 0 0
Double plate holders	15 0	1 1 0
De luxe plate holders	1 1 0	—
De luxe book-form	1 15 0	—
Antinous release	4 6	4 6
Morocco leather case, velvet-lined	2 0 0	3 10 0

ENSIGN FIELD CAMERAS



Ensign Empire

ENSIGN Field Camera outfits are complete in every detail and eminently suitable for the serious worker and commercial photographer. Made throughout in first-class style of selected materials, and beautifully finished. Every movement and feature essential to the production of first-class work is provided. The Ensign King Outfit is provided with double extension front, and is available in ¼-plate and ½-plate sizes. The Ensign Empire Outfit has triple extension movement, and is supplied in ½-plate and 1/1-plate sizes.

ENSIGN KING, Double Extension

CAMERA: Polished mahogany, lacquered brasswork; rack and pinion focussing, rising front, also wide-angle and swing back movements. Brass turntable. DARK SLIDE: Mahogany book-form. SHUTTER: Roller blind, Time and Instantaneous speed indicator and pneumatic release. TRIPOD: Selected ash, rule joint, three-fold, with sliding legs.

EMPIRE ENSIGN, Triple Extension (as illustrated)

CAMERA: Polished mahogany, polished brasswork, wide leather bellows. Triple extension rack and pinion, controlled by separate pinions. Automatic self-erecting swing fronts and back with rising, falling, and cross front movements with independent rise and fall to lens front. Wide-angle rackwork movement, double swing back, reversing back and side swing. Cast brass turntable fitted flush with baseboard. BELLOWS: Real leather, truncated corners. TURNTABLE: Revolving, brass, polished, with very strong lugs. DARK SLIDE: Polished mahogany, book-form with double hinged shutters, hinged division, and safety catches. SHUTTER: Roller blind, Time and Instantaneous speed indicator and pneumatic release. TRIPOD: Selected ash, rule joint, three-fold, with sliding legs.

ENSIGN FIELD CAMERAS

Outfits include Camera with lens as selected, roller blind shutter, one double book-form slide and tripod.

ENSIGN KING OUTFIT

STANDARD EQUIPMENT		Focus.	¼-plate.		Focus.	½-plate.
ALDIS UNO ANASTIGMAT	f/7·7	6 in.	**£6 15 0**		7½ in.	**£9 0 0**
Camera and slide only			**2 12 6**			**4 10 0**

ENSIGN EMPIRE OUTFIT

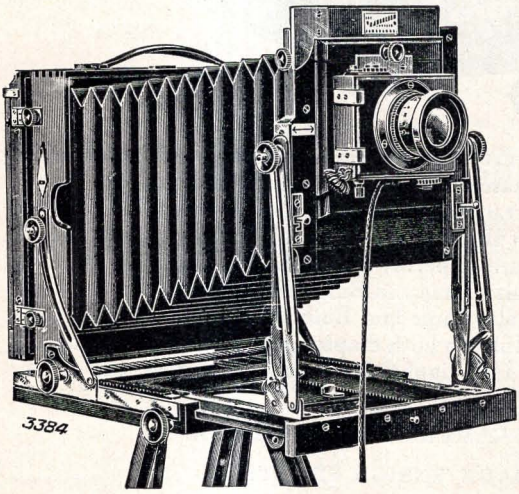
STANDARD EQUIPMENT			½-plate.			1/1-plate.
ALDIS UNO ANASTIGMAT	f/7·7	7½ in.	**£10 10 0**		11 in.	**£17 0 0**
SPECIAL EQUIPMENTS						
Ross Homocentric	f/6·3	8½ in.*	£16 12 6		10 in.	£24 15 0
Cooke Aviar	f/6·3	8½ in.	16 10 0		10½ in.	24 10 0
Dallmeyer Stigmatic	f/6·3	7½ in.	16 10 0		10½ in.	26 0 0
Zeiss Tessar	f/6·3	8¼ in.	17 10 0		12 in.	35 0 0
Ross Combinable	f/5·9	7¾ in.	26 2 6	(f/6·4)	10 in.	42 5 0
Zeiss Double Protar	f/8	8 in.	26 10 0	(f/7·2)	12¼ in.	47 15 0
Aldis Anastig. Ser. 0	f/4·5	8 in.*	16 15 0		11½ in.*	30 10 0
Ross Xpres	f/4·5	8½ in.*	22 0 0		12 in.*	41 0 0
Zeiss Tessar	f/4·5	8¼ in.*	23 0 0		12 in.*	42 15 0
Outfit without lens			7 10 0			12 0 0
Camera and slide only			6 5 0			10 5 0

**N.B.*—These lenses must have "before lens" shutters.

		½-plate	1/1-plate
Brass Binding (including 1 slide)	extra	£3 0 0	£3 15 0
Double book-form slides	each	1 1 0	1 15 0
Double book-form slides brass bound	,,	1 10 0	2 7 6
Leather case	,,	2 5 0	3 2 6
Canvas case	,,	16 6	1 1 0
Carriers for smaller plates	,,	1 6	2 0

SANDERSON FIELD CAMERAS

12 × 10″ TEAK



SPECIFICATION

CAMERA: Finest finish, polished teak, lacquered brass fittings. Extra long extension by rack and pinion. Universal Swing Front with rising, falling and swinging movements controlled by an Automatic Locking device, also Cross Front. Wide Angle movement, double Swing Back, Reversing Frame, wide-mouthed truncated leather Bellows, Turntable and Tripod. SLIDE: Polished teak, double Book-form with hinged metal partition and spring catches.

Price

Without lens, with 1 slide, **£40**

Prices of lenses and shutters suitable for use with Field Sanderson on application.

Tripod No. 9D	**£4 15 0**
Extra slides	**5 0 0**

ENSIGN SHUTTERS

MADE BY THE HOUGHTON-BUTCHER MANUFACTURING CO. LTD.

TRICHRO and Mulchro Shutters are the result of absolute determination backed by years of research and experience to produce an article absolutely reliable in operation, accurate in action and substantial in workmanship. Both are made throughout of metal, including shutter and diaphragm leaves, and both are superbly finished. The Trichro provides 3 speeds, $\frac{1}{25}$, $\frac{1}{50}$ and $\frac{1}{100}$ sec., also Time and Bulb. The Mulchro has 7 speeds, 1 sec., $\frac{1}{2}$, $\frac{1}{5}$, $\frac{1}{10}$, $\frac{1}{25}$, $\frac{1}{50}$, $\frac{1}{100}$, also Time and Bulb. The release lever is conveniently placed and in the Mulchro both diaphragm and shutter speeds are at the top. In the Trichro the diaphragm apertures are at the front.

HAVE YOUR CAMERA FITTED WITH A

BRITISH MADE ENSIGN SHUTTER

CAMERA ACCESSORIES

(O*

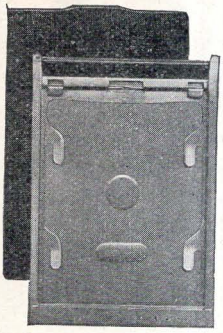
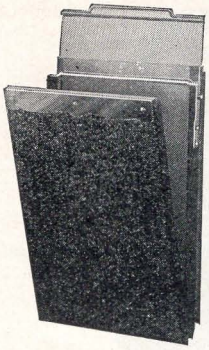
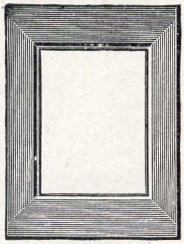


Plate Holders



Film-pack Adapters



Wood Carrier

Type			$3\frac{1}{2}\times2\frac{1}{2}$	$\frac{1}{4}$-plate	Post-card
	SINGLE METAL PLATE HOLDERS				
1.	Ensign Cameo	each	2/6	2/6	3/6
1A.	Ensign Cameo with title plate	,,	—	3/-	4/-
1A.	Ensign Cameo. Florentine bronze	,,	3/6	3/6	—
2.	Ensign Klito	,,	2/-	2/-	3/-
2A.	Ensign Klito with title plate	,,	—	2/6	3/6
	DOUBLE PLATE HOLDERS FOR REFLEX CAMERAS				
4.	Mahogany, book-form		—	35/-	—
5.	,, solid		15/-	15/-	16/6
6.	,, solid de luxe		21/-	21/-	22/6
7.	Teak, for earlier models of Tropical Reflex		—	17/6	—
	FILM-PACK ADAPTERS				
1.	Ensign Cameo. Crystalline enamel finish		8/6	8/6	10/6
2.	Ensign Klito. ,, ,, ,,		8/6	8/6	10/6
1A.	Ensign Cameo. Leather covered		12/6	12/6	15/-
1A.	Ensign Cameo. Florentine bronze		15/-	15/-	—
2A.	Ensign Klito. Leather covered		—	12/6	15/-
5.	For Cameras with double plate holders		22/6	25/-	30/-
7.	,, ,, ,, ,, ,, ,, Tropical		—	27/6	—

Always indicate type of camera when ordering plate holders or film-pack adapters.

SHEATHS FOR CUT FILM

For Cut Film of all makes .. $3\frac{1}{2}\times2\frac{1}{2}$, 6d.; $\frac{1}{4}$-plate, 6d.; Postcard, 9d.; $\frac{1}{2}$-pl. **1/6**

PLATE HOLDER PROTECTORS

Strong ruby linen .. .. $3\frac{1}{2}\times2\frac{1}{2}$ per doz. .. **3/-** $\frac{1}{4}$-plate per doz. **3/6**

FOCUSSING SCREENS

For Ensign and Cameo Cameras, with deep leather-covered hood.

$3\frac{1}{2}\times2\frac{1}{2}$ .. **8/6** $\frac{1}{4}$-plate .. **9/-** Postcard .. **11/-**

WOOD PLATE CARRIERS

For use with double wooden slides. Well-seasoned wood, neatly blackened, mitred and cornered, with rebate to hold one plate.

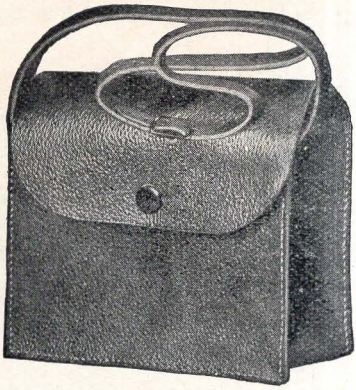
$\frac{1}{2}$-plate to $3\frac{1}{2}\times2\frac{1}{2}$ in.	**1/6**	10× 8 to 1/1-plate	**3/3**
$\frac{1}{2}$-plate to $4\frac{1}{4}\times3\frac{1}{4}$ in. or Postcard ..	**1/6**	12×10 to 10× 8 in	**4/6**
1/1-plate to $\frac{1}{2}$-plate	**2/-**	15×12 to 12×10 in.	**6/-**

Special sizes made to order at slightly higher cost.

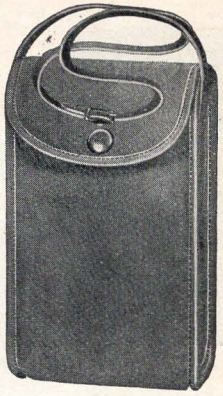
METAL PLATE CARRIERS

For postcard size cameras, using single metal slides. Light metal, with rebate to hold $\frac{1}{4}$-plate only **1/6**

LIMP LEATHER & CANVAS CASES (O*)



Limp Leather



Canvas

LIMP LEATHER MOROCCO GRAINED HIDE

Extraordinarily good value. They give adequate protection to the camera without adding to the weight. With long sling strap. Made in black only for following cameras:—

Box Ensigns 2¼B	No. 200	3/6
Box Ensigns 2½	„ 201	4/6
Ensign Carbine No. 3 and All-Distance Pocket Ensign	„ 202/A	3/6
Ensign Carbines Nos. 5 and 7	„ 202/B	3/6
Ensign Carbines, Nos. 10, 12 and 14	„ 203	4/6
Ensign Roll Film Reflex	„ 204	5/-
All-Distance Ensign 2¼B (semi-stiff)	„ 205	5/-

Also for popular makes of box form and folding cameras.

COLOURED LEATHER CASES

To match coloured All-Distance Ensign, Pocket or Box Cameras.

Blue, red or brown 3/6

CANVAS

First-class material, waterproof, leather bound edges doubly turned in, with long leather shoulder strap.

Roll Film Cameras:—		
Ensign Cadet	No. 100	2/6
Box Ensign 2¼B	„ 101	3/6
„ „ 2½	„ 102	4/-
Ensign Carbine No. 3 and All-Distance Pocket Ensign, Nos. 1 and 2	„ 103/A	3/-
Ensign Carbine, Nos. 5 and 7	„ 103/B	3/-
Ensign Carbine, Nos. 10, 12 and 14	„ 104	4/-
Ensign 2¼B	„ 105	3/-
„ 2½	„ 106	4/6
„ 2⅝	„ 107	4/6
„ 3¼	„ 108	4/6
„ 3¼A	„ 109	5/-
All-Distance (Box) Ensign	„ 110	3/6
Plate Cameras:—		
Ensign Cameo, 3½ × 2½	„ 120	4/-
Ensign Cameo, ¼-plate	„ 121	5/-
Ensign Cameo, postcard	„ 122	6/6

LEATHER CAMERA CASES (O*)

Roll Film Camera Case

Reflex Camera Case

HAND-SEWN—FINEST SELECTED HIDES ONLY

ENSIGN leather cases are made only from finest materials, all hides used are full grained hand curried, in other words, old-fashioned bridle leather. No Ensign leather case is made from buffed painted or doped material.

A Quality.—With safe fastener and shoulder strap, black or brown.
B Quality.—Velvet-lined, with shoulder strap, lock and key, brown only.

FOR ROLL FILM CAMERAS	A quality		B quality	
Ensign, All-Distance Pocket	No. 30/A	**5/6**	No. —	
Ensign Carbine No. 3	,, 30/A	**5/6**	,, 34	**10/6**
,, ,, ,, 5 and 7	,, 30/B	**6/6**	,, 34	**10/6**
,, ,, ,, 10, 12 and 14	,, 31	**8/6**	,, 35	**12/6**
Folding Ensign $2\frac{1}{4}$B	,, 1	**7/6**	—	
,, ,, $2\frac{1}{2}$	,, 2	**8/6**	—	
Popular Ensign $2\frac{1}{4}$B ($2\frac{1}{4} \times 3\frac{1}{4}$)	,, 3	**8/6**	,, 8	**11/6**
,, ,, $2\frac{7}{8}$ ($2\frac{7}{8} \times 4\frac{7}{8}$)	,, 5	**10/-**	—	
Ensign $3\frac{1}{4}$ ($3\frac{1}{4} \times 4\frac{1}{4}$)	,, 6	**10/-**	,, 10	**13/-**
,, $3\frac{1}{4}$A ($3\frac{1}{4} \times 5\frac{1}{4}$)	,, 7	**11/6**	,, 11	**15/-**
Ensign Roll Film Reflex	—		,, 12	**13/6**
Ensign Speed ,, ,, ...	—		,, 13	**22/6**

FOR REFLEX CAMERAS

First-class solid hide, velvet-lined, with divisions for camera and twelve plate holders or six plate holders and film-pack adapter, with strong lock and key.

Ensign Pressman	$\frac{1}{4}$-plate	No. 53	**35/-**	Postcard	No. 54	**40/-**
,, Special	$3\frac{1}{2} \times 2\frac{1}{2}$	,, 55	**30/-**	$\frac{1}{4}$-plate	,, 51	**35/-**
,, De Luxe	$\frac{1}{4}$-plate	,, 56	**40/-**	$\frac{1}{2}$-plate	,, 58	**70/-**

ENSIGN SLING CARRIER

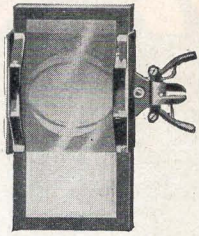
A very neat holder retaining the camera safely and securely whilst carrying, and enabling the user to take pictures without removing.

No. 1 for $2\frac{1}{4}$B Box and Duo Ensign .. **1/6**
No. 2 for All-Distance Box Ensign .. **1/6**

PRIMUS COLOUR FILTERS

(O*)

For correcting the rendering of the colour values of various objects in the subject. Essential for landscape and pictorial work where the differences in tones of green, yellow, orange and brown have to be accurately reproduced. Made in three densities increasing exposure by 2, 4 and 6 times.



Graduated Sky Filte

	Complete with holder.	Filter only
SINGLE FILTERS		
A. To fit lenses up to $1\frac{1}{4}$ in. (outside mount diameter)	4/–	1/6
B. ,, ,, ,, $1\frac{1}{2}$,, ,, ,, ,, ...	5/6	2/6
C. ,, ,, ,, 2 ,, ,, ,, ,, ...	8/–	3/6
COMPLETE SETS OF THREE FILTERS, WITH MOUNT		
No. 10. To fit lenses up to $1\frac{1}{4}$ in. (outside mount diameter)		7/–
,, 11 ,, ,, ,, $1\frac{1}{2}$,, ,, ,, ,, ...		10/6
,, 12 ,, ,, ,, 2 ,, ,, ,, ,, ...		15/–

GRADUATED SKY FILTERS

Graduated to equalise the difference between sky and subject. The exposure on the sky portion is restrained to enable ground detail to receive ample exposure and at same time secures cloud effects.

No. 20. To fit lenses up to $1\frac{1}{4}$ in. (outside mount diameter)	4/–
,, 21. ,, ,, ,, $1\frac{1}{2}$,, ,, ,, ,, ...	5/–
,, 22. ,, ,, ,, 2 ,, ,, ,, ,, ...	8/6

ENSIGN SUPPLEMENTARY LENSES

Considerably increase the scope of work possible with the ordinary hand camera.

PORTRAIT

Set the camera at infinity, fix the Supplementary Lens over the front of the lens, place your subject 2 ft. from the camera (distance measured from the nose of the sitter to the actual film), give ample exposure.

WIDE ANGLE

Must be always used in conjunction with the focussing screen.

COPYING

This lens will copy same size without the use of a double extension camera.

TELEPHOTO

Can only be used on a double extension camera.

To fit lenses up to $1\frac{1}{4}$ in. (outside mount diameter)	each
Complete with holder	6/–
Complete set of four lenses with holder	15/–
Single lenses without holder	3/6

SPECIAL PORTRAIT ATTACHMENTS

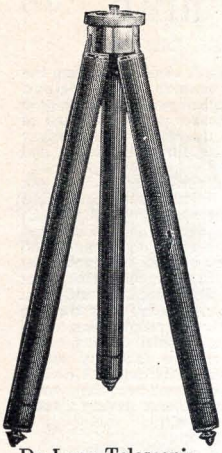
For taking portraits close up to the camera. Increases the size of the image and improves the appearance of small objects.

For following cameras:

BOX ENSIGN $2\frac{1}{4}$B or $2\frac{1}{2}$ (3 or 6 feet)	2/6
ENSIGN CARBINE, with Aldis Uno $f/7{\cdot}7$	3/–

METAL TRIPODS (O*)

WITH ENSIGN "EXTENDO" CARRYING CASE



De Luxe Telescopic

DE LUXE TELESCOPIC

With ribbed celluloid covering and nickelled tubes, closes automatically.

	No.	Height in.	Closed in.	Weight oz.	Each	With Extendo Case
3 SECTIONS ..	12	45	16½	18	**10/6**	**18/–**
4 ,, ..	14	49	15¾	22	**12/6**	**20/–**
5 ,, ..	15	50	14	26	**14/6**	**22/–**
7 ,, ..	16	48	11	24	**17/–**	**24/6**

TELESCOPIC

Black enamelled, automatic closing, with nickel top.

3 SECTIONS ..	1	40	15	16	**7/–**	**14/6**
3 ,, ..	2	45	16½	16½	**7/6**	**15/–**
4 ,, ..	4	49	15¾	21	**9/–**	**16/6**
5 ,, ..	5	50	14	26	**10/–**	**17/6**
7 ,, ..	6	48	11	23	**12/–**	**19/6**

FOLDING AUTOMATIC LOCKING

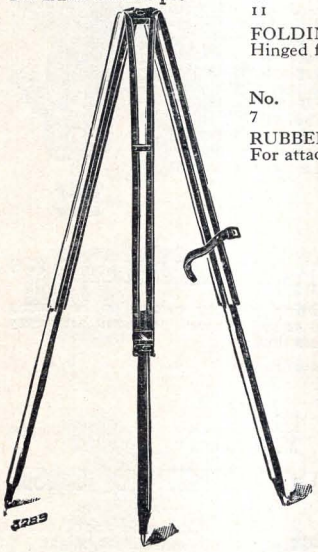
After opening, a sharp push to each leg effectively locks the tripod.

No.	Sections	Height in.	Closed in.	Each	With Extendo Case
10 ..	3 ..	45 ..	16¾ ..	**6/6** ..	**14/–**
11 ..	4 ..	49 ..	14½ ..	**8/–** ..	**15/6**

FOLDING

Hinged folding legs. Pressed steel with nickel top.

No.	Sections	Height in.	Closed in.	Weight oz.	Each	With Extendo Case
7	3	45	16¾	21	**5/–**	**12/6**



RUBBER TOES

For attaching to telescopic tripod feet where grip is uncertain.

Set of 3 .. 9d.

WOOD TRIPODS

TWO-FOLD VARNISHED PINE

No. 51. Sliding leg, 3 in. fixed top and fixed T-screw. Length, 51 in.; closed, 29½ in. **5/6**

THREE-FOLD

No. 60. Ashford's Ideal, a strong tripod with aluminium outer leg, wood and brass sliding extensions, and fixed head. Length, 48 in.; closed, 18 in. **5/–**

No. 53. Ash, 6 in. cloth-covered ash top, two straps and handle. Length, 57 in.; closed, 23 in... .. .. **18/–**

Without top, to fit turntable **16/6**

No. 55. Rule Joint, ash, sliding leg, with 6 in. cloth-covered top, two straps and handle. Length 57½ in.; closed, 23 in. **21/–**

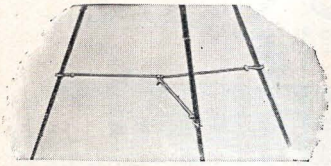
Without top; to fit turntable **19/6**

No. 56. Rule Joint, ash, sliding leg, 7 in. cloth-covered ash top, two straps and handle. Length, 57 in., closed, 23 in. **24/–**

Without top; to fit turntable **22/6**

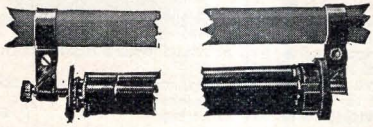
No. 57. Ebonised beech, self-locking and sliding leg, 3 in. fixed top and fixed T-screw. Length 51 in.; closed, 21 in. **12/6**

No. 58. Self-locking, best quality, ash sliding leg, 6 in. mahogany top, two straps and handle. Length, 57½ in.; closed, 26 in. **45/–**



TRIPOD BRACING ATTACHMENT

An extremely handy accessory. It clips on to the legs of ANY tripod, is controlled by centre flynut, and when fixed it makes tripods perfectly rigid without fear of feet creeping **3/–**



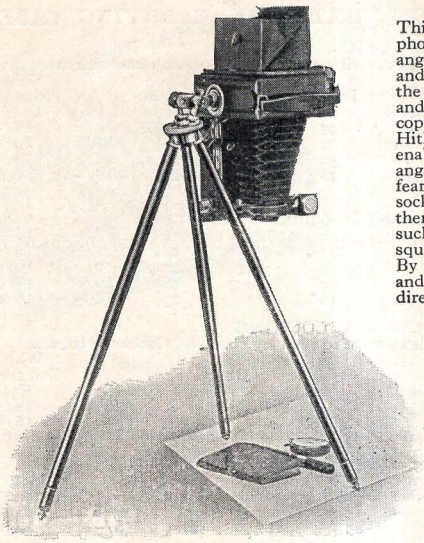
ENSIGN CYCLIST TRIPOD CLIPS

Enable tripod to be carried on a bicycle as unobstrusively as an ordinary pump.

Price .. .. **2/6** per set

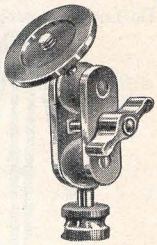
UNIVERSAL BALL AND SOCKET HEAD (O*)

ENTIRELY NEW DESIGN



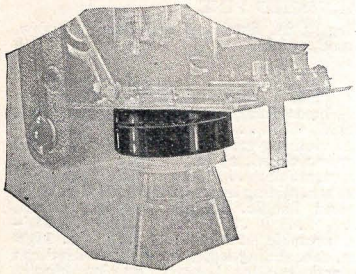
This new ball and socket head, besides enabling the photographer to shift his camera to any desired angle on the tripod for straightforward photographic and panoramic work, also makes possible the use of the tripod for supporting the camera in a steady and accurate vertical position, for reproduction and copying work.

Hitherto ordinary ball and socket heads have not enabled the user to poise his camera at exact right angles over the object to be photographed without fear of over-balancing. The new Universal ball and socket head goes beyond the actual right angle, and therefore enables the user to poise his camera at such an angle as to obtain, not only the exact square with the object, but also complete steadiness. By this means any camera can be used for copying and reproduction work, such as photographing pages direct from books, collections of small objects, coins, maps, plans, and in fact any object which comes within its range. A double extension camera is not necessary, most single extension cameras having a sufficient draw-out to be able to photograph an object up to two-thirds of its size. With a double extension camera an object can be photographed as large as the size of the plate will allow.



Thus a very interesting new sphere of activity is opened up which may be practised at all times, and particularly during the winter evenings, when otherwise the camera would be laid aside.

Price complete in box for use with any camera 4/6



ENSIGN PANORAM HEAD (O*)

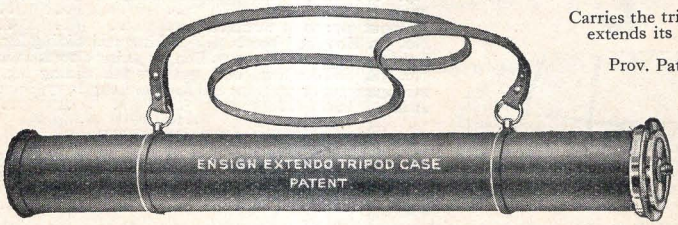
A ball-bearing fitting enabling camera to be swung round on Tripod to any desired position. Very easy working. First-class finish.

Price 6/6

ENSIGN (O*)
"EXTENDO" TRIPOD CASE

Carries the tripod and extends its height

Prov. Patent



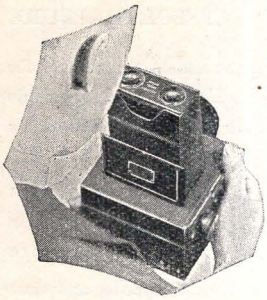
The height of the average metal tripod is seldom sufficient to prevent bending to view the focussing screen or view finder, and in fact tripods of such a height would be far too heavy.

The Ensign "Extendo" case screws on to the tip of the tripod and is itself provided with a tripod screw to which the camera is attached. Thus the camera is raised to eye level.

When not in use it becomes a carrying case for the tripod. Made of light metal, nickel-plated top and swivel sling strap. Will always be supplied with English thread unless Continental specified.

Four lengths:—11¾, 14½, 16, 17 in. Complete with shoulder strap 7/6

CAMERA ACCESSORIES (O*)



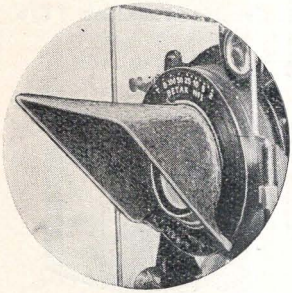
ENSIGN REFLEX MAGNIFIER

For obtaining critical focus with a reflex camera. Fitted with first-class lenses. The two spring-operated sides with rubber facing which grip the sides of the hood and allow it to be used on any size of reflex hood, and at the correct focal length. Metal throughout. Complete in solid leather case .. **18/6**

ENSIGN FOLDING LENS HOOD

Made of soft leather on collapsible spring frame. Folds up into camera and springs automatically into position when camera is opened.

No. 1 for 1¼ in. diameter front lenses .. ..
No. 2 for 1½ in. front lenses .. .. .. each **2/6**



Ensign Folding Lens Hood

B.G. LENS HOOD

A vulcanite shade that fits over the front of the lens.

Inches ..	1	1⅛	1¼	1½	1⅞
Each ..	9d.	1/-	1/-	1/3	1/6
ADJUSTABLE ..	2–2½ in. 3/9		2½–3½ in. 5/3		3½–5¾ in. 8/3

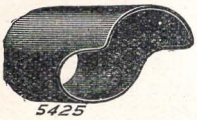
LENS CAPS

Best quality, velvet lined.

Inches ..	1	1¼	1½	1¾	2	2½	3
Each ..	8d.	9d.	10d.	1/-	1/3	1/9	2/6

ENSIGN WIRE RELEASES

Fabric covered coiled core.
In 3, 6 and 12 in. lengths .. .. .. each **2/-**



5425

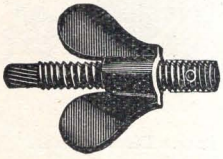
B.G. Lens Hood

ENSIGN RUBBER RELEASES

1. Oval ball with 9 in. tubing, **1/3** .. .. .. 18 in. **1/6**
3. Arabesque oval **2/3**
4. Black, 2 feet for roller blind shutter **2/3**
6. Arabesque round with teat **3/-**

"T" TRIPOD SCREW

Ordinary.. .. .. .. 6d. Universal .. .. **9d.**



"T" Screw (Universal)

FOCUSSING BAGS

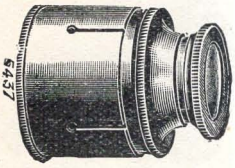
Double thickness of material.
¼-plate .. **3/6** ½-plate .. **4/6** 1/1-plate .. **5/6**

HOLBORN CHANGING BAGS (L)

Stoutly made of three thicknesses of material with close-fitting eye-piece, sleeves and ruby window, regulated by a blind.
½-plate .. **24/-** 1/1-plate .. **35/-** 12 × 10 ... **45/-**

FOCUSSING GLASSES

For magnifying the image on the focussing screen.
No. 1. Brass Screw mount **4/-**
No. 3. ,, with archimedian screw **10/-**



5437

No. 2 Focussing Glass

PERFECT FOCUSSING SCREENS

Acid ground, giving microscopic detail.

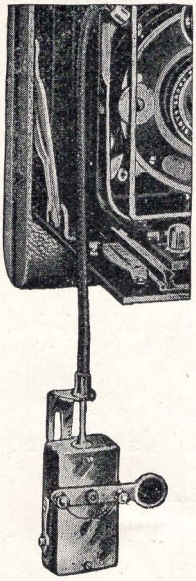
3½ × 2½ in.	.. .. 2d.	8½ × 6½ in.	.. ..	7d.
4¼ × 3¼ in.	.. .. 3d.	10 × 8 in.	.. ..	1/-
5½ × 3½ in.	.. .. 3d.	12 × 10 in.	.. ..	1/3
6½ × 4¾ in.	.. .. 4d.	15 × 12 in.	.. ..	2/-

FOCUSSING CLOTHS

No. 1. Black Twill, unlined	.. .. ..	34 × 28 in.	2/6
,, 2. ,, ruby-lined	.. .. ..	36 × 28 in.	5/-
,, 3. ,, ,,	.. .. ..	36 × 48 in.	8/6
,, 4. Black velvet ,,	.. .. ..	36 × 26 in.	12/6

CAMERA ACCESSORIES (O*)

"AUTOTIMER" SHUTTER RELEASE FOR SELF-PORTRAITURE



Showing No. 1 Autotimer attached to shutter

An ingenious and reliable instrument that releases the shutter for you 15 seconds after it is set in motion. Enables you to include yourself in group pictures. Reliable and simple to use. Handsomely finished and nickel-plated.

MODEL 1, for instantaneous exposures, releases the shutter at whatever speed it is set, automatically, 15 seconds after it is set in action **5/6**

MODEL 2, for instantaneous exposures at shutter speeds, and time exposures of ½ to 10 seconds, 15 seconds after it is set in action **8/6**

VIEW FINDERS

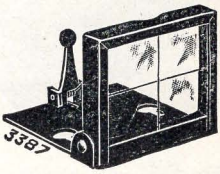
DIRECT VISION

Folding with sighter and ruled concave lens.

No. 2	..	¾ × ¾	.. **2/–**
„ 3	..	1 × ¾	.. **2/6**
„ 4	..	1⅜ × 1	.. **3/6**
„ 5	..	1⅝ × 1¼	.. **6/6**

With blue sighting lens

No. 6	..	1⅜ × 1	.. **4/6**
„ 7	..	1⅝ × 1¼	.. **9/–**



No. 3 View Finder

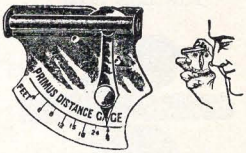
SPIRIT LEVELS

No. 1.	Circular, brass. With flange and screws	.. **2/–**
„ 2.	As No. 1, but sunk into camera	.. .. **2/–**
„ 4.	Double tube level, lacquered brass	.. .. **4/–**
„ 8.	"T" shape oxidised	.. .. **3/–**

PRIMUS DISTANCE GAUGE

For calculating distances between camera and objects. Made in aluminium with silvered pendulum. Complete in leather case.

No. 1.	Scaled in feet	.. .. **2/–**
„ 2.	Scaled in metres	.. .. **2/–**

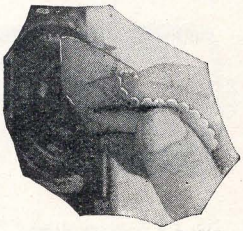


Primus Distance Gauge

ENSIGN LENS CLEANER

Specially prepared material for cleaning lenses, prevents condensation in cold weather and polishes surfaces without fear of damage. Packed in box.

Price each .. **9d.**



ENSIGN LENS CLEANING TISSUE

Books of specially prepared tissue containing 10 sheets 2d.

AMATEUR "MOVIES"

HAVE you ever seen a still "Movie"? You know—when the film is stopped in the projector and the figures stay fixed in all sorts of grotesque positions. How they all jump into life when the machine starts again—it's the nearest approach to really bringing things to life you could possibly have, isn't it? Well, imagine being able to make the people in your snapshots move about—just naturally—as they are used to doing—wouldn't that thrill you—wouldn't that just make all the difference to your picture making?

That's just what the "Autokinecam" does for you; it takes moving pictures as easily as a snapshot box camera—easier, in fact, because you never have to tell your subject to "sit like this," or "stand like that," or "keep still a moment please"—you just press the button and get all the natural positions without any fuss or self-consciousness, and when you project the picture with the "Silent Sixteen" you get it all nearly life size.

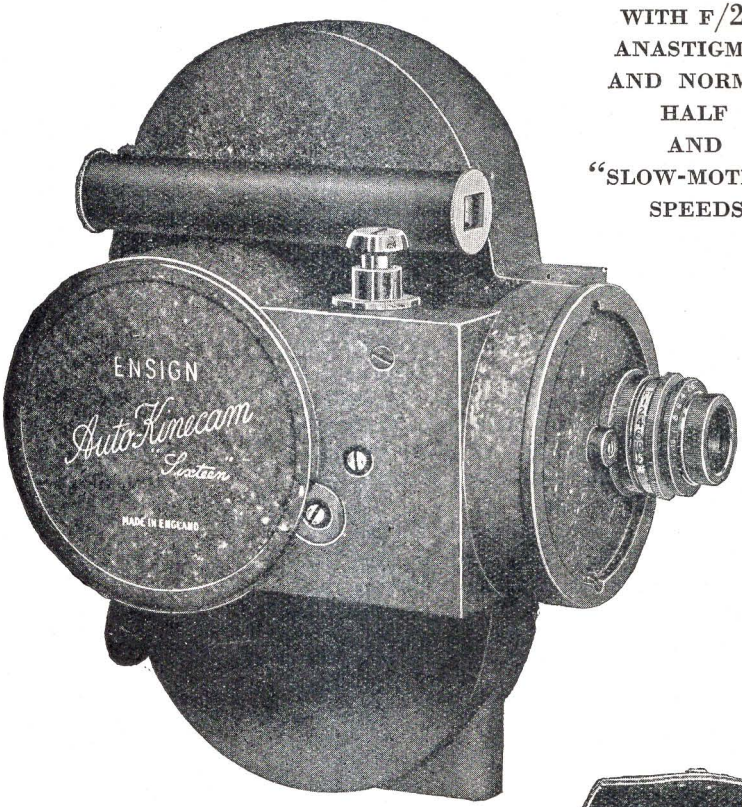
The best of it is—you can use it all the year round—indoors and out! and if you use Ensign safety film you can send copies to your friends abroad.

It's thrilling and so simple!

ENSIGN AUTOKINECAM

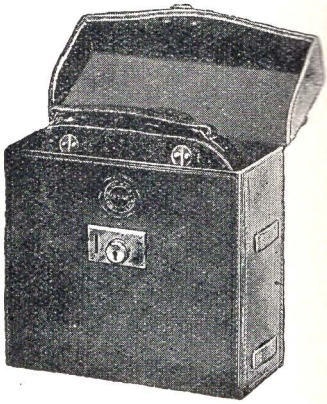
16 mm. AMATEUR CINE CAMERA

WITH F/2·6
ANASTIGMAT
AND NORMAL
HALF
AND
"SLOW-MOTION"
SPEEDS



THE Ensign Autokinecam uses 16 mm. safety film, and its introduction marks a definite step forward in the design, construction and value of amateur cinematographic cameras.

It has all the essential features of cameras selling at a far higher price, and many characteristics of its own, making it unquestionably the finest value in amateur cine cameras in the world to-day, and a tribute to British craftsmanship.



ENSIGN AUTOKINECAM (L•)

16 mm. AMATEUR CINE CAMERA

GENERAL CONSTRUCTION: The Autokinecam is constructed throughout of die castings, and all bearings and moving parts are accurately machined. The popular shape fits snugly to the face, making for steadiness when operating. SPEEDS: The camera is provided with "normal" speed for ordinary use; "fast" speed for the production of what are popularly known as "slow-motion" pictures—whereby any individual movement is slowed down to such an extent as to be capable of easy analysis; and "slow" speed for trick work, comic scenes, and to enable the operator to make use of his camera when the light is not too good. There is also a hand turn movement. The exposure knob can be depressed and locked in that position, so that the operator himself can enter the picture should he desire to do so. LENSES: The Autokinecam is fitted with the Cinar *f*/2·6 anastigmat, giving exceptional definition, and the quality of this lens is easily discernible when the projected picture is seen on the screen. The "Cinar" *f*/2·6 is mounted in a focussing mount so that the camera can be used at distances varying FROM 1 FT. UPWARDS, without the use of any additional attachment, and is, therefore, exceptionally suitable for real "close-up" work. Other lenses of different foci can be fitted interchangeably. THE MOTOR: The Autokinecam is fitted with a particularly strong, double spring graphite packed clockwork motor, giving ample reserve power for continuous running, one wind taking 35-40 ft. Leading positive footage indicator, particularly ingenious and conveniently placed, indicating the exact amount of film used at any time. VIEW FINDER: Of greatest importance in a camera of this description is the instrument provided for registering the subject whilst the camera is in motion, and great attention has been paid to providing a view finder giving an exceptionally brilliant image. LOADING: The loading of the camera may be carried out in full daylight, and is exceptionally simple; the spools are placed one above the other, giving a direct run through the camera without twisting. You can learn how to do it in five minutes. EXPOSURE TABLE: A simple exposure table is fitted to the side, which ensures correct exposures for all subjects. PORTABILITY: The "Auto-kinecam" is provided with a strong carrying strap, and having two flat sides can be put down anywhere. CARRYING CASE: Very handsome brown leather (best English hide), velvet-lined, lock and key and holding two 50-ft. spools of film.

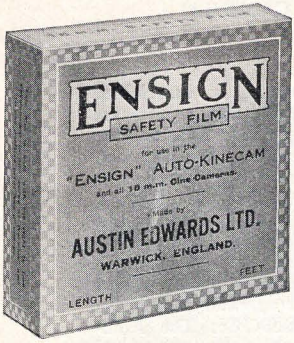
ENSIGN AUTOKINECAM CAMERA, with one 100-ft. empty spool, and one 50-ft. empty spool, fitted with "Cinar" *f*/2·6 anastigmat, complete in best English hide, brown leather velvet-lined carrying case.

Price £26 5 0

Hire purchase terms £5 down, balance 11 monthly instalments of £2 1 0

De Luxe Case to carry camera, four 100-ft. spools, spare lenses, filters, etc. ..	**£4 10 0**
Combined sky and colour filter, set of 3 densities	**2 5 0**

ENSIGN 16 mm. SAFETY FILM (L*)



ENSIGN 16 mm. Safety Film is made on the separate negative and positive principle. It has great orthochromatic properties and as much latitude in exposure as ordinary roll film. The speed is considerable, and the tone value leaves nothing to be desired —a beautiful gradation from black to white being obtainable.

It is perfectly safe and will not burn.

When a film has been exposed it is sent to Messrs. Austin Edwards, Warwick, who develop the film and send you the negative together with a positive print free of charge. The negative can then be stored and a reprint as good as the original made from it at any time for a comparatively small sum.

	Prices:	Reprints.
100 ft., including developing and one print	26/-	12/6
50 ft. ,, ,, ,, ,,	14/-	6/3

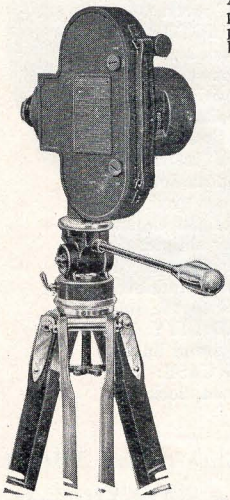
or 1½d. per ft., minimum 50 ft.

TINTING—

Whole length, one colour	per foot,	½d.
,, different colours	,,	1d.

These prices apply in Great Britain only.

ENSIGN 16 mm. TRIPODS (O)



A tripod is essential for some subjects, and should be provided with panoram movement. A tripod should be used wherever possible, and is particularly useful for home productions. Brass telescope legs, revolving ball-bearing head.

Price £1 5 0

THALHAMMER TRIPOD (L)

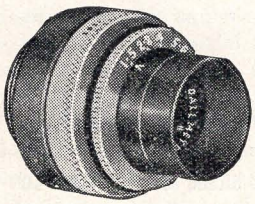
The Thalhammer Kino-Pano-Tilt and Tripod is suitable for use with all makes of 16 mm. sub-standard cinematograph cameras.

The extending legs are reversible with rubber tops and steel points to ensure a secure footing on any surfaces.

The Kino-Pano-Tilt allows a vertical tilting angle of about 130° and a complete turn of the panoram. The two locking devices are simple, and quick in action. The tripod and head will raise the camera to nearly 6 ft., remaining absolutely rigid. When closed for carrying it measures 33 in.

Kino-Pano-Tilt and Tripod	£8 0 0
Canvas Case, leather bound	1 15 0

DALLMEYER LENSES (L)



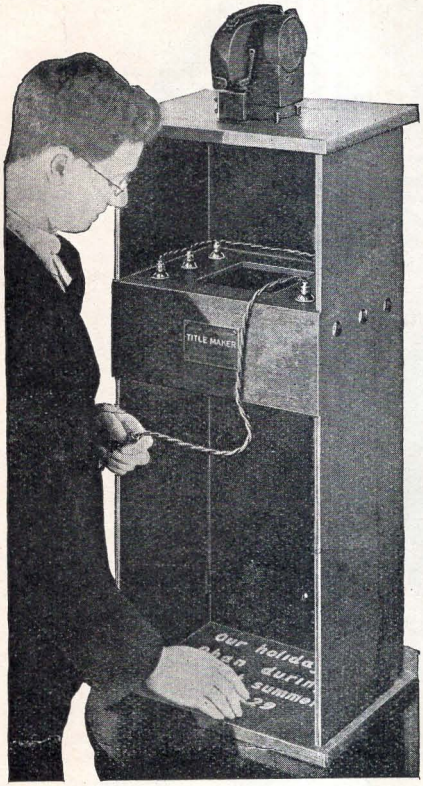
INTERCHANGEABLE WITH THE STANDARD LENS.

Focal length.	Aperture.	Price.
1 in.	f/0·99	£20 0 0
20 mm.	f/1·5	11 0 0
1 in.	f/1·3	11 0 0
1 in.	f/1·5	8 10 0
1 in.	f/3·5 Soft Focus	5 0 0
2 in.	f/1·5	12 12 0
3 in.	f/3·5 Telephoto	11 4 0
4 in.	f/3·5 ,,	12 0 0
6 in.	f/3·5 ,,	19 0 0
6 in.	f/4·5 ,,	13 19 0
12 in.	f/5·6 ,,	20 15 0

All including matched finders.

ENSIGN TITLE MAKER (L*)

AND MINIATURE PORTABLE STUDIO FOR USE WITH ALL 16 mm. CINE CAMERAS



There is no limit to the variety of titles which can be made; the operator has unbounded scope

GOOD titles and sub-titles make all the difference and add much to your reputation as a successful amateur cinematographer. The Ensign Title Maker makes title making a pleasure, and allows the operator to concentrate his full energies on the composition and arrangement of the titles themselves. You only have to fit the camera to the top of the machine as shown in the illustration, and connect up to the nearest electric supply for your illumination.

Exposure is made for as long as may be necessary by simply pressing the exposure knob in the usual way. The title is fully illuminated by lamps operated by one switch. Exposure and focus are fixed, there is no question of wrong exposure or bad focus—these are all fixed factors.

OTHER USES

CARTOONS: The Ensign Title Maker forms a most convenient apparatus for the working out of cartoons.

EDUCATIONAL: Moving plans, within the limits of the scope of the base, can be photographed with great facility; also designs, small mechanisms in operation, insects in movement, etc., can be faithfully reproduced from a unique angle without difficulty. Small animals can be photographed under glass in flat boxes.

INDUSTRIAL: Pictures may be made of successive operations actually being carried out with the hands—the sequence of operations in assembling small parts and sub-assemblies being fitted to a main mechanism can be shown.

CARICATURES: It is quite easy to make moving caricatures. The apparatus can be so arranged that a model can lie with his or her head actually on the baseboard and the various movements of the face faithfully photographed in movement.

Thus it will be seen that the Title Maker is the winter evening entertainer *par excellence* for the amateur cinematographer. The outfit includes a complete set of letters in white relief. Arrangement is made, by means of interchangeable panels, for all makes of 16 mm. cameras to be used.

For use with the Ensign Autokinecam camera, including complete set of letters, two alternative backgrounds, all electric fittings, 6 ft. of flex with adapter and switch (no lamps) **£5 5 0**

Interchangeable Panels for other cameras, including fitting, extra 5/-

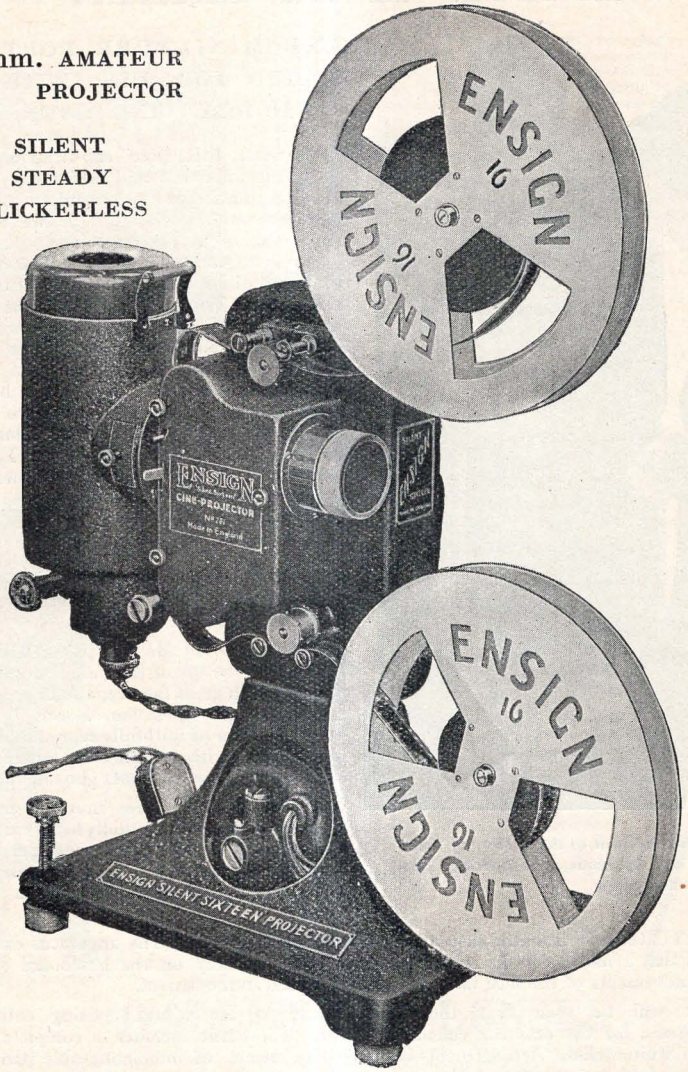
No. 1 for Cine Kodak Model B; No. 2 for Cine Kodak Model BB; No. 3 for Bell Howell No. 70; No. 4 for Bell Howell No. 75; No. 5 for Victor camera. Send camera for accurate fitting if possible.

Box of Letters separately, 17/6. Extra letters, numerals, stops, etc., per doz., assorted, 9d.

ENSIGN "SILENT SIXTEEN"

16 mm. AMATEUR
CINE PROJECTOR

SILENT
STEADY
FLICKERLESS

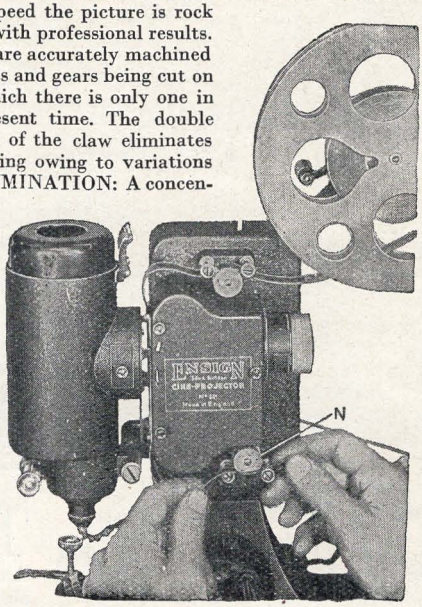


IT will be generally agreed that the quality of a projector for cinematograph films can be judged largely by two main points; firstly, the steadiness with which the picture is thrown on to the screen—in other words, the absence or presence of "flicker"—and, secondly, the absence of "fussiness" in working. The main object of the designers of the Ensign "Silent Sixteen" Projector, therefore, has been to produce a "rock steady," brilliantly illuminated picture on the screen, and to make it do its work with a minimum of noise and supervision.

ENSIGN "SILENT SIXTEEN"

16 mm. AMATEUR CINE PROJECTOR

STEADINESS: A patented barrel type of new and novel design is the reason for the remarkable steadiness and the absence of "flicker." Running at its proper speed the picture is rock steady and comparable with professional results. SILENCE: All bearings are accurately machined and bushed, the sprockets and gears being cut on a special machine, of which there is only one in this country at the present time. The double eccentric positive action of the claw eliminates any possibility of knocking owing to variations of spring tensions. ILLUMINATION: A concentrated filament lamp working in conjuction with a specially designed condenser and *f*/1·8 projection lens, provides a brilliantly illuminated picture, easily comparable with any obtained with more expensive apparatus and powerful enough to penetrate the densest of films with ease. Although for ordinary home use a 3-4 ft. wide picture with the machine 15-20 ft. from the screen is usual, yet such is the power of the illuminant in the "Silent Sixteen" that a beautifully illuminated picture is obtained at 40 ft. with a corresponding increase in the size of the picture. MOTOR: The motor is of first-class design, of ample power, and is similar to that used in projectors selling at twice the price. MANIPULATION: The Ensign "Silent Sixteen" is exceptionally simple to load and manipulate under normal running conditions, in a darkened room. The film can be run backwards and rewinding can be carried out by motor or hand as desired. If required the machine may be stopped and a still picture shown. GENERAL CONSTRUCTION: In general construction and design the projector has a very solid and handsome appearance due to the fact that it is made throughout from die castings, finished in crystalline black enamel. The workmanship throughout is of the highest order and constitutes a veritable triumph for British craftsmanship.



Very Easy to Thread

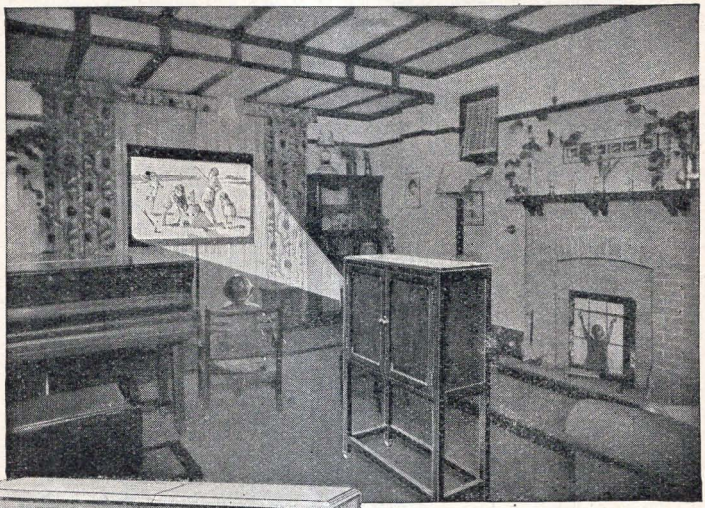
Complete with 400 ft. spool, lamp, resistance for use on any voltage from 100 to 250 volts, fitted with all leads, adapters and plugs, drip feed oil bottle and spare driving belt—contained in a strong well-made white wood transport box with separate partitions for resistance, spares and additional spools,

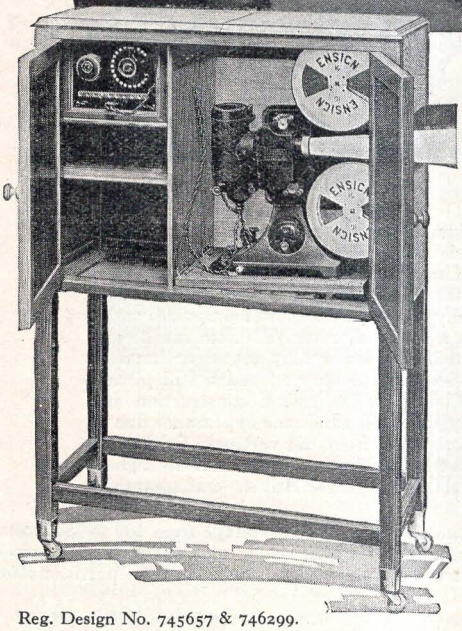
Price £26 5 0 (L*)

Hire Purchase Terms (only in Great Britain)
£5 down, balance 11 monthly instalments of £2 1 0.

ENSIGN "SILENT SIXTEEN" (L*)

16 mm. AMATEUR CINE PROJECTOR — CABINET MODEL





Reg. Design No. 745657 & 746299.

THE cabinet is arranged to enable the operator to sit beside it. When started the cabinet can be entirely closed (except for ventilating lid). The illustration shows the position of the projector mounted on elevating and revolving turntable.

Made throughout on absolutely first-class cabinet-making principles, the workmanship is of the best. It is fitted with handsome castors and moves smoothly and evenly in any direction. Space is provided for the storage of films and accessories. The projector stands on a hinged frame which can be elevated by a lever.

The standard model is made of oak finished dark Jacobean style. Cabinets in other styles and finishes can be supplied to special designs to match existing furniture at special prices.

Price £37 10 0

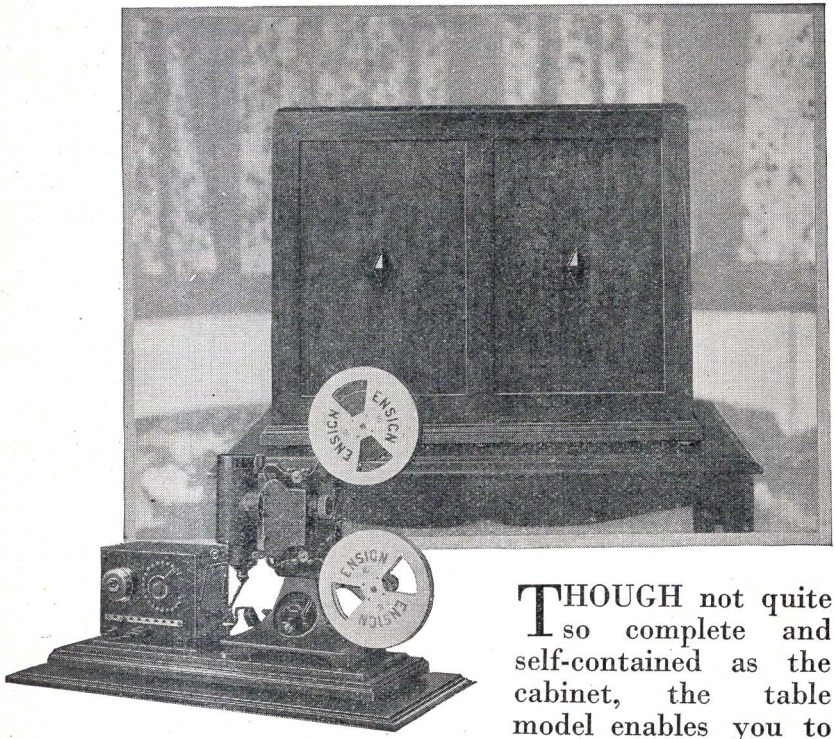
Cabinet only £12 12 0

Hire Purchase Terms (Great Britain only): £8 down and 11 monthly instalments of £2 17 0.

N.B.—The projector can be removed easily from the cabinet if desired, and the transport box as supplied with the ordinary Silent Sixteen Projector is included in the outfit.

ENSIGN "SILENT SIXTEEN" (L*)

AMATEUR CINE PROJECTOR **TABLE MODEL**



THOUGH not quite so complete and self-contained as the cabinet, the table model enables you to have everything in readiness for a show at any time. It means that you will use your projector much more often than if you always have to get it out and fix it up.

The table model is simply the standard Silent Sixteen provided with a suitable base and elegant cover which can stand anywhere, handy when wanted and an attractive addition to the furniture of a room when not in use.

The standard model is made of oak, finished dark Jacobean style. Cabinets in other styles and finishes can be supplied to special designs to match existing furniture at special prices.

Price £30

Cabinet only £5 5 0

Hire Purchase Terms (Great Britain only) £6 down and 11 monthly instalments of £2 6 5

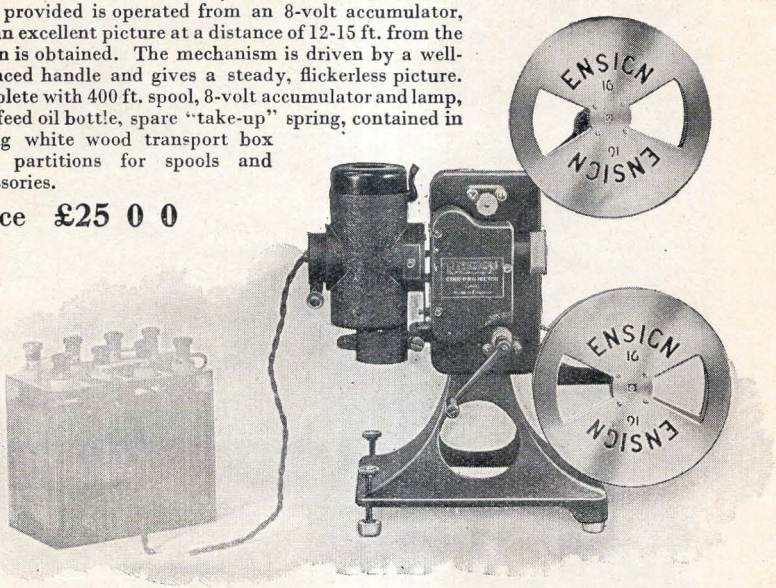
ENSIGN "SILENT SIXTEEN"

16 mm. AMATEUR CINE PROJECTOR (L*)

HAND DRIVE, ACCUMULATOR LIGHTING

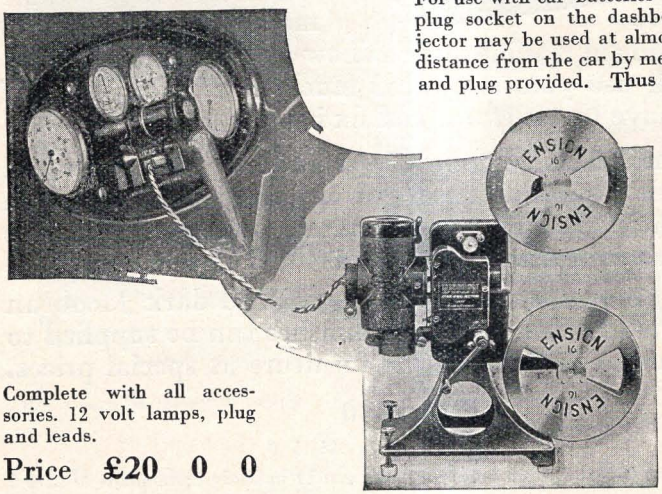
This model has been produced specially for those who have no electric current. It is particular suitable for country and colonial use where current is unobtainable. The illuminant provided is operated from an 8-volt accumulator, and an excellent picture at a distance of 12-15 ft. from the screen is obtained. The mechanism is driven by a well-balanced handle and gives a steady, flickerless picture. Complete with 400 ft. spool, 8-volt accumulator and lamp, drip feed oil bottle, spare "take-up" spring, contained in strong white wood transport box with partitions for spools and accessories.

Price £25 0 0



MOTOR CAR MODEL (HAND DRIVE)

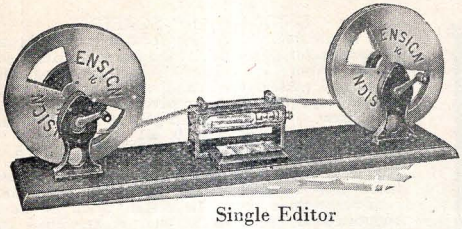
For use with car batteries by connecting to plug socket on the dashboard. The projector may be used at almost any reasonable distance from the car by means of a 50 ft. lead and plug provided. Thus a good show may be given anywhere, quite independently of accumulators or electric supply.



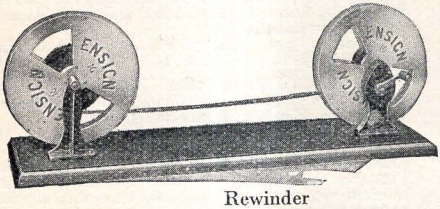
Complete with all accessories. 12 volt lamps, plug and leads.

Price £20 0 0

ENSIGN "S.S." 16 mm. FILM EDITOR (L*)



Single Editor



Rewinder

A beautifully made and extremely practical machine for editing, cutting and rewinding films. Makes a laborious job a real pleasure and enables films to be quickly, accurately and cleanly edited and spliced.

The twin model is particularly useful for Ensign film users as it enables both negative and positive films to be edited and cut at the same time.

Made throughout of metal, cast rewinder arms, geared each end and fitted with handles, film splicer, illuminated inspection box with guide rollers, and solution bottles. The whole mounted on handsome aluminium cast base, crystalline enamelled in centre, edges polished.

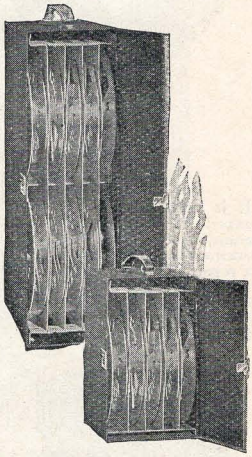
PRICES (without Spools)

No. 1. Single	£3 17 6
No. 2. Twin Films ..	4 10 0

REWINDER ONLY—wood base, one geared end complete with splicer, white inspection panel and cement bottle. **£1 10 0**

ENSIGN HUMICASES

Films should be stored properly; and to keep them in a proper condition of suppleness a moist atmosphere is essential. Ensign Humicases are well made, and have separate and removable inside frames, sand blast finish. They are provided with dampening pad and lock and key. Made in two sizes.



No. 1. For five 400 ft. Spools.
Crystalline enamel **£1 7 6**
Leather covered, **£2 10 0**

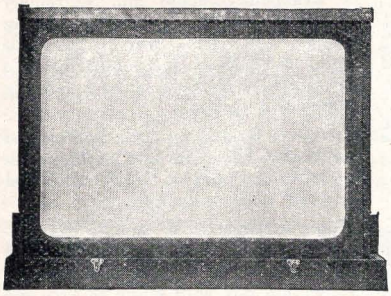
No. 2. For ten 400 ft. Spools.
Crystalline enamel **£1 17 6**
Leather covered, **£3 10 0**

COMBINED PROJECTOR AND CAMERA STAND

A really handsome stand which can be used either for projector or camera. The elevating and panoraming devices are unique, and control excellent. The picture is instantaneously centred on the screen, and the machine securely fixed. A stand that really adds much comfort to projecting. A convenient bracket is supplied to bring the control regulator to a convenient height to allow operator to sit.

Price .. **£5 15 0**

ENSIGN "S.S." Screens Accessories (L*)



No. 2 "S.S." Screen

ENSIGN "S.S." SCREENS

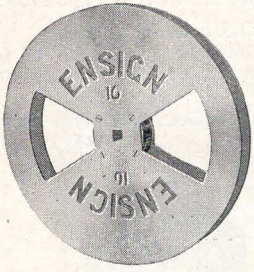
No. 1, suitable for hanging from a wall or beam, of stout material, secured at the top to a batten, and at the bottom to a heavy roller, provided with cords and pulleys for raising and lowering. Made in white opaque surface or silvered surface.

Sizes	24 × 36 in.	36 × 48 in.	48 × 60 in.
White opaque ..	£1 1 0	£1 7 6	£2 0 0
Silvered ..	1 5 0	1 17 6	2 15 0

No. 2. ENSIGN PORTABLE. An ingenious screen, fitted with a spring roller and folding up conveniently into a box. The screen when in use is supported by side struts, and is stretched out giving a very satisfactory flat surface. The box is well made, finished waxed black and fitted with a solid leather handle.

Sizes	24 × 36 in.	36 × 48 in.
Silvered only ..	£2 12 6	£5 7 6

No. 3. ENSIGN FRAMED SCREEN. Made up in picture frame moulding. Very suitable for permanent installation. Hangs or stands as required.
Silvered only .. Size 24 × 36 in. **£2 2 0**



400 ft. Spool.

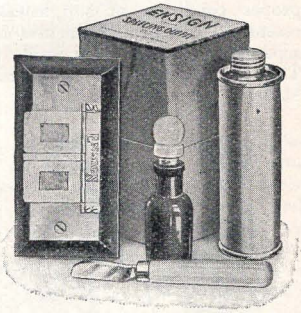
Ensign "S.S." Lamp

ENSIGN SPOOLS FOR "S.S." PROJECTOR

FOR 400 FT. FILM. Very substantially made of aluminium and accurately finished. Fitted with clip for easy attachment of film **4/6**
FOR 100 FT. FILM. Stamped metal, very well made, black finish **2/6**

LAMPS FOR "SILENT SIXTEEN" (G)

The lamp used in the "Silent Sixteen" is extremely robust and should stand many hours of constant burning **15/-**



ENSIGN SPLICING OUTFIT

It is very important to be able to mend films cleanly and expeditiously when they become broken. Nothing is more annoying to an audience than to be kept waiting at the most exciting point in a film whilst the operator bunglingly carries out a repair. Guard against this contingency by providing yourself with a reliable mending and splicing outfit.

Outfit complete as shown	**15/-**
Splicer only	**10/6**
Film Cement, per bottle	**1/6**

ENSIGN "SILENT SIXTEEN" CARRYING CASES

These case sets are made of fibre and are extremely strong, light and easy to carry. Separate cases are provided for projector and resistance so that the load in carrying is well distributed. Two strong fasteners are provided for each projector case and a strong handle strap supporting the whole outfit from underneath ensures absolute safety.

Set of two **£2 5 0**

ENSIGN "S.S." LUBRICATING OIL

Proper care of the projector is essential to good, steady and silent projection. This oil is specially prepared for the purpose and is provided with bottle with dripper and wood case. **1/3**

"S.S." SPARE DRIVING BANDS

"S.S." Rubber Driving Band	**2/6**
"S.S." Take-up Spring	**2/6**
"S.S." Rewind Belt..	**2/6**

ENSIGN MAGNAPRINT

SUPER SPEED ENLARGER

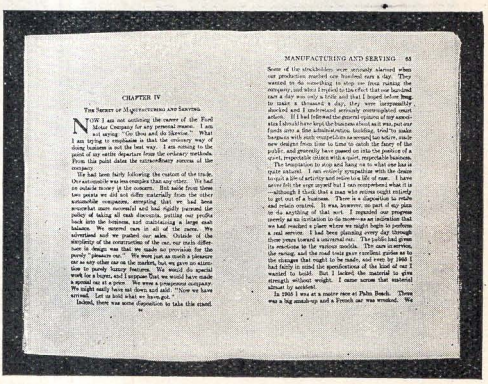
For negatives up to $\frac{1}{4}$-plate 9×12 cm. and all smaller sizes. Also large portion of postcard size. Maximum size of enlargement, 20×16 in.

ENSIGN MAGNAPRINT

SUPER SPEED ENLARGER

THE Ensign Magnaprint Enlarger is fitted with a condenser and optical system scientifically designed and accurately carried out. Using a 150-watt opal lamp in conjunction with this optical system, a most effective and intense diffused illumination is secured, making possible really short exposures for even the largest sizes without any loss of quality. It is, therefore, the perfect enlarger for rapid work combined with quality, a result unattainable with other enlargers without resort to retouching or large accumulations of electric lamps generating great heat.

A most useful accessory is the reproduction plate holder (extra), which enables the enlarger to be used as a camera for copying, or for photographing small objects. This feature is extremely useful for commercial work.



MANUFACTURING AND SERVING 85

CHAPTER IV

THE SECRET OF MANUFACTURING AND SERVING

NOW I am not outlining the career of the Ford Motor Company for any personal reason. I am not saying "Do this and do likewise." What I am trying to emphasize is that the ordinary way of doing business is not the best way. I am coming to the point of my entire departure from the ordinary methods. From this point dates the extraordinary success of the company.

We had been fairly following the custom of the trade. Our outgoings was less complex than any other. We had no outside money in the concern. But aside from these two points we did not differ materially from the other automobile companies, accepting that we had been somewhat more successful and had rightly pursued the policy of taking all cash discounts, putting our profits back into the business, and maintaining a large cash balance. We secured cars in all of the cases. We advertised and we pushed our sales. Outside of the simplicity of the construction of the car, our main difference in design was that we made no provision for the purely "pleasure car." We were just as much a pleasure car as any other car on the market, but we gave no attention to purely luxury features. We would do special work for a buyer, and I suppose that we would have made a special car at a price. We were a prosperous company. We might have kept on as we were and said "Now we have arrived. Let us hold what we have got."

Some of the stockholders were seriously alarmed when our production reached one hundred cars a day. They wanted to do something to stop our from making the company, and when I replied to the effect that one hundred cars a day was only a trifle and that I hoped before long to make a thousand a day, they were incredulously shocked and I undoubtedly seriously contemplated smart action. If I had followed the general opinion of my associates I should have kept the business about as it was, put our funds into a fine administration building, tried to make bargains with such competitors as accepted bad labor, made new designs from time to time to catch the fancy of the public, and generally have passed on into the position of a quiet, respectable citizen with a quiet, respectable business.

The temptation to stop and hang on to what one has is quite natural. I can entirely sympathize with the desire to quit a life of activity and retire to a life of ease. I have never felt the urge myself but I can comprehend it, and it is sufficiently I think that I have had a chance to indulge it to get out of the business if I wished to indulge it. I did not indulge it. It was, however, no part of my plan to do anything of that sort. I regarded our progress merely as an invitation to do more—as an indication that we had reached a place where we might begin to perform a real service. I had been planning every day through those years towards a universal car. The public had given its sanctions to the various models. The case in service, the racing, and the road tests gave excellent guides as to the changes that might to be made, and even by 1906 I had fairly in mind the specifications of the kind of car I wanted to build. But I lacked the material to give strength without weight. I came across that material almost by accident.

In 1906 I was at a motor race at Palm Beach. There was a big stock-up and a French car was wrecked. We

Courtesy of Messrs. W. Heinemann.

Reproduced from a direct photograph of Mr. Henry Ford's book, "My Life and Work," by means of the reproduction plate holder.

ENSIGN MAGNAPRINT (O)

SUPER SPEED ENLARGER

SPECIFICATION:

GENERAL CONSTRUCTION.—Made throughout of metal, except baseboard. All parts, silk enamelled finish or plated; extremely substantial construction throughout. LAMPHOUSE: Full sized, double lined, very cool, detachable top. Fitted with lampholder. Silk enamel external finish. SUPPORTS: Brass tube, numbered for focussing with adjustment collar, heavily plated. Locating rib to ensure accurate centring. Cast support to lamphouse and condenser stage. BASEBOARD: Very solid, black finish. FOCUSSING: Semi-automatic allowing adjustment for soft focus effects. Very simple in operation and ensuring pin point definition at all points. LENS EQUIPMENT: Aldis-Butcher $f/6{\cdot}3$ anastigmat of irreproachable quality, specially adjusted for enlarging and mounted in helicoidal focussing mount with Iris diaphragm and orange cap pivoted to mount. CONDENSER: 160 mm., finest quality, covering whole of 9×12 cm. plate to corners. ILLUMINANT: 150-watt Siemens Silvalux opal diffused lamp, alternating with red lamp fitted to standard. CARRIER: Fits loosely in staging so that any desired portion may be enlarged. SIZES: Enlarges from $\frac{1}{4}$-plate negative to 20×16, $2\frac{1}{4} \times 3\frac{1}{4}$ to 15×10; other sizes in proportion. Overall height fully extended, 49 in.

Price fitted with:

ALDIS-BUTCHER ANASTIGMAT $f/6{\cdot}3$

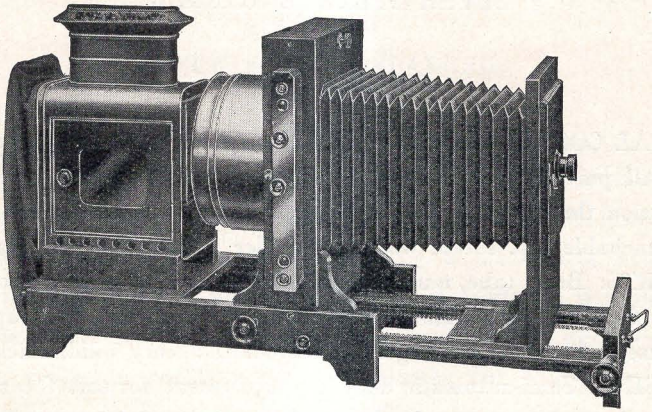
Complete with all fittings, switches, wiring and plug (without lamps) £15 15 0

Reproduction plate holder. Extra	£1 0 0
Illumination fitting (no lamps) per pair..	1 10 0
Lamps: 150-watt Silvalux	7 0
Red	5 0

Please state voltage when ordering lamps.

ABBEYDALE ENLARGERS (L*)

WITH PATENT CHAIN AND SPROCKET FOCUSSING



THE Abbeydale holds a unique reputation for rapidity in working, the use of high-power illuminants giving it an unlimited scope in every phase of enlarging.

STANDARD MODEL
WOODWORK: Polished oak, with carriage stage and lens board supports. LAMPHOUSE: Large size, Russian iron, perfectly ventilated. The triple extending condenser cone has trapped opening for insertion of diffusing screen. Collapsible back curtain, side door with ruby window and chain and sprocket adjustment for control of light position. EXTENSION: The ¼-plate will extend sufficiently for reduction to lantern size. FOCUSSING: By patent chain and sprocket gear. CARRIER: Made to fit enlarger the correct way only. TILTING: By quick thread screw on carrier stage. CONDENSER: First-class, easily detachable for cleaning. LENS: Specially designed:

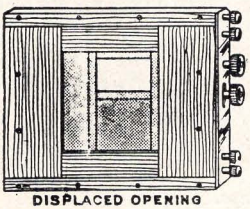
COMMERCIAL WHOLE-PLATE MODEL
As specified above, except that lamphouse is of extra large size and enlarger is fitted with special condenser block; and plain, square form, reversing carrier, with nest of carriers for 1/1-plate, ½-plate, P.C. and ¼-plate.

Size	Condenser	Without Lens	With Aldis Uno *f*/7·7	With Aldis *f*/4·5
*¼-plate	5½ in. 143 mm.	£10 10 0	£13 0 0	£16 0 0
½-plate	8½ „ 216·5 „	16 15 0	19 15 0	26 0 0
1/1-plate	11 „ 280 „	35 0 0	40 0 0	53 10 0

*With slide carrier for use as projection lantern, extra 15/–

Illuminants recommended for use with Abbeydale Enlargers.

Twinlite Outfit	£4 15 0 (o)
Primuslite Outfit No. 1	4 4 0
„ „ No. 2	4 17 6



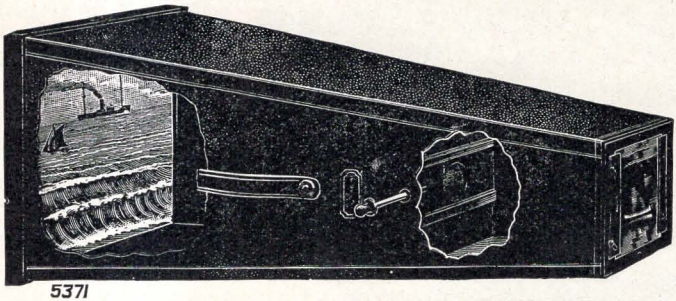
RECORD COMPOSING CARRIER (L)

The carrier has four opaque curtains separately operated by rack movements giving any size opening, landscape or upright, also rising and lowering movement, by rack and pinion and rotating movement.

For ¼-plate	£5 0 0
„ ½-plate	7 10 0

DAYLIGHT ENLARGERS (O*)

FOR MAKING BIG PRINTS BY DAYLIGHT

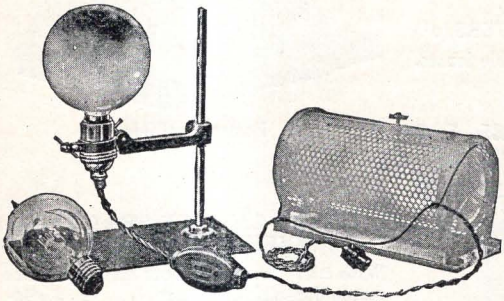


5371

These "Big Print Makers" are no more difficult to handle than an ordinary printing frame, and the results are incomparably more attractive, particularly from the smaller sizes. There is no focussing. Just put the negative at one end and the bromide paper at the other. Solidly made of seasoned wood, leatherette covered. Holders for negative and bromide paper. Selected achromatic lens and metal plunger shutter.

SQUARE TYPE No. 1. For postcard enlargements from negatives $2\frac{1}{2} \times 1\frac{5}{8}$ in..	12	6
" " " 2. " " " " " $2\frac{1}{4} \times 3\frac{1}{4}$ "	15	0
CONICAL TYPE No. 3. For $\frac{1}{2}$-plate enlargements from negatives $3\frac{1}{4} \times 2\frac{1}{4}$ in.	£1 5	0
" " " 5. " 1/1 plate " " " $4\frac{1}{4} \times 3\frac{1}{4}$ "	1 10	0

ILLUMINANTS FOR ENLARGERS (o*)



TWINLITE

Allows the light to be "dimmed" for a thin negative or increased for a dense negative. Provides even illumination and eliminates focussing of light.

With tray and adjustable lamp bracket, lamps, variable resistance (range of 100 to 250 volts), and latitude for "dimming" beyond 250 volts, 12 ft. flex, switch, lamp holder and "bayonet" plug.

With 27-volt silver-backed and opal lamps £4 15 0

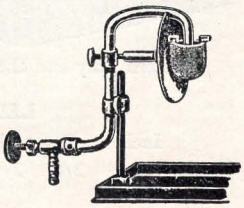
Spare lamps, 27-volt silver-backed, or opal, 12/6 (G)

PRIMUSLITE. As Twinlite above but without opal lamp.

No. 1. With 27-volt 5 amp. lamp	£4 4	0
" 2. " 55 " 5 " "	4 17	6

Spare lamps, No. 1, 12/6; No. 2, 15/- (G)

INCANDESCENT GAS OUTFITS (O)

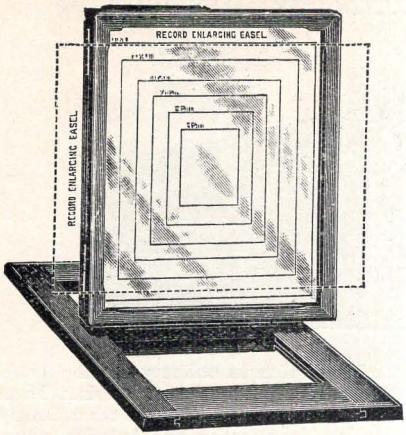


No 1. Oxidised brass gas arm and tap, mantle, tray, brass burner with Bunsen regulator and clamp screw .. 12/6

No. 2. Brass, with Bunsen regulator and valve, adjustable nickel reflector £1 1 0

Mantles for Nos. 1 or 2 .. .. 9d.

ENLARGING ACCESSORIES (O)



No. 2. Record Enlarging Easel

RECORD ENLARGING EASELS

For all sizes up to 15 × 12 in.

No. 1. Whitewood, with raising, lowering and rotating movements, clamping bars and sizes chart.

£1 1 0

No. 2. Polished hardwood, hinged to large folding base. Has raising, tilting and rotating movements and sliding paper clamps.

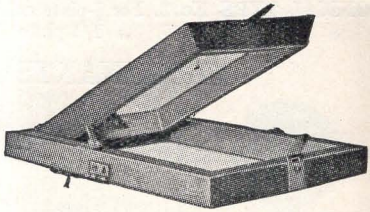
£2 10 0

No. 4. As No. 2, but with plate glass front to hold bromide paper.

£3 10 0

PEARSON POSTCARD HOLDER

Obviates delays by reason of its precise and secure method of masking. Postcard is inserted and top flap closed down, this giving a clear cut masking 17/6

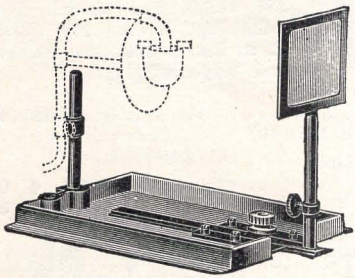


Postcard Holder

CONDENSERS FOR ENLARGERS (o*)

First grade loose and interchangeable lenses. Mounted in brass cells.

Dia.		Dia.	
5½ in. ..	£1 12 6	8½ in.	£5 5 0
6 in. ..	2 5 0	9 in.	6 0 0
7 in. ..	3 5 0	11 in.	12 0 0



Lantern Tray and Diffusing Screen

PRIMUS LANTERN TRAY AND DIFFUSING SCREEN

With tray, burner support and adjustable screen for diffusing light 9/-

FOCUSSING SCREENS FOR ENLARGERS

4¼ × 3¼ in.	**9d.**
5 × 4 in.	**1/-**
5½ × 3½ in.	**1/-**
6½ × 4¾ in.	**1/3**
8½ × 6½ in.	**3/-**

LENS CAPS WITH ORANGE GLASS

Inches	1½	1⅝	1¾	2	2¼	2½	2¾	3	3½	4
Each	2/6	2/9	2/9	3/6	4/-	4/6	6/-	6/-	6/9	8/-

ENSIGN POSOMETER (O*)

"Ensures Correct Exposures"

A distinct advance on any method so far devised for quickly arriving at the correct exposure of any subject, under any conditions.

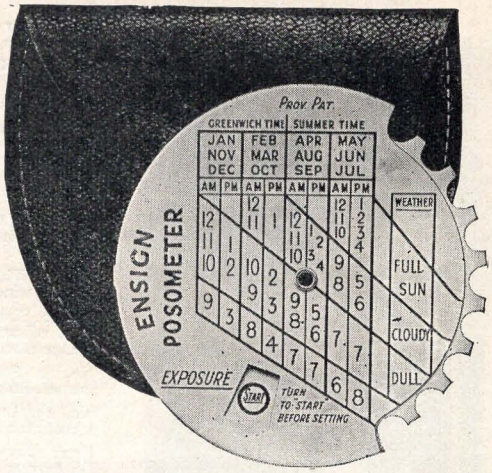
It can be carried in the waistcoat pocket.

Its operation is so simple you can always use it, whereas with more complicated methods the opportunity has often passed whilst you are working out the exposure.

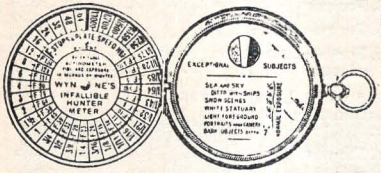
For every conceivable subject, and every sort of plate or film (including Autochromes).

In leather case with snap fastener 1/6

Also available in French and German.



EXPOSURE METERS



ENSIGN UNIVERSAL (O*)

Accurately determines in a few seconds the correct exposure required under any conditions of lighting 3/6
Refills .. .. 6d.

ILFORD (L)

Cardboard .. .. 9d.

IMPERIAL (O)

No. 1. Bright light..	1/6
No. 2 Dull light ..	1/6
Duplex, Nos. 1 and 2	3/6
Combined No. 1 Meter and Reckoner ..	3/6
Exposure Reckoner	1/6
Refills	4d.

WATKINS (O)

Snipe, for snapshots	1/6
Fall, for roll films ..	5/–
Bee, with speed card	5/–
Blue dial, extra	3d.
Bee Colour Plate ..	5/–
Bee Indoor ..	5/–
Queen Bee, in case..	12/6
Refills	9d.

WELLINGTON

Exposure Meter	1/6	(O)
Exposure Disc	1/6	(L)

WYNNE'S (J)

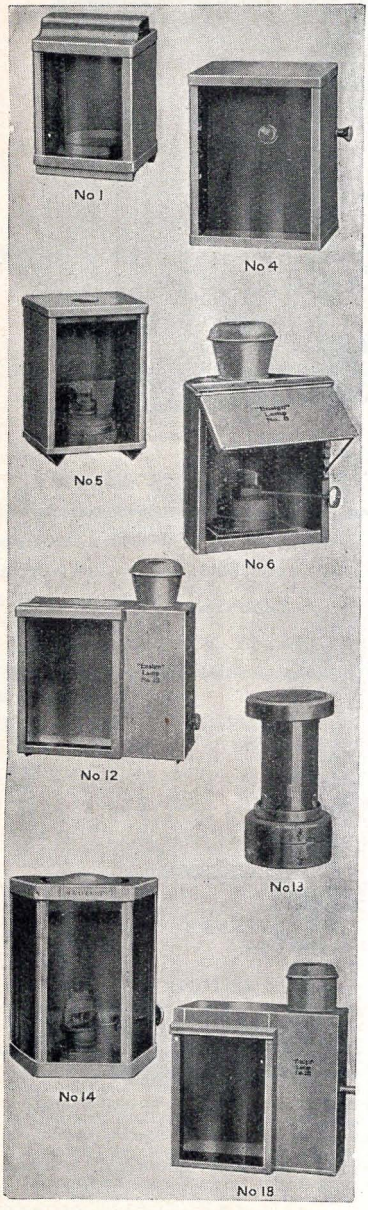
Hunter pattern (nickel case)	9/6
Refills	9d.

"JUSTOPHOT" (O)

Measures correct exposure automatically under all possible conditions and mechanically solves all exposure problems. Justophots economise material, prevent disappointments and are the cause of better photography. Justophots are independent of altitude, climate, hour, season and geographic location. Equally correct for near or distant subjects. Apply directly to any kind of lens. Justophots indicate instantly correct exposure for sun and twilight, in studios and interiors, for colour photography, mountain scenes, seascapes, and under any kind of artificial illumination.

MODEL 3. Short and normal sight	£1	4	0
MODEL 4. Long and normal sight	1	4	0

ENSIGN DARK ROOM LAMPS (O*)



FOR NIGHT LIGHTS (JAPANNED METAL).

No. 1. With glass front, $3\frac{1}{2} \times 2\frac{7}{8}$ in., and loose top **1/–**

No. 3. As No. 1, with glass $5 \times 2\frac{3}{4}$ in. .. **1/6**

ELECTRIC TRAVELLING LAMP

No. 4. This innovation in dark-room lamps has a japanned metal body $3 \times 2\frac{1}{2} \times 4$ in., with yellow and ruby fabrics, metal slide for protection, switch, battery and metal filament bulb. A safe and handy lamp for travellers and tourists **2/6**

FOR OIL (JAPANNED METAL)

No. 5. With pick-up burner, loose top and glass $4 \times 2\frac{7}{8}$ in. **1/6**

No. 6. With burner, cowl, adjustable shade and outside winder. Glass $5 \times 4\frac{1}{4}$ in. **2/6**

No. 10. Similar to No. 6, with outside winder, light trap, adjustable shade, ruby glass $5\frac{3}{4} \times 4\frac{1}{4}$ in. and orange fabric **4/–**

No. 12. For reflected light. White inside with oil burner. Ruby glass, orange fabric $6 \times 4\frac{1}{4}$ in... **5/–**

No. 13. Luxol. With imperishable wick and absorbent felt for burning paraffin. In metal case **3/–**

Extra ruby or yellow chimneys, each .. **1/6**

Oil burners are not suitable for paraffin. Use Ensign burning oil (*see page* 77).

RELIANCE SERIES. Well ventilated, light-trapped lamps, giving the correct amount of safe light around the dark-room. Fitted with hinged top and two ruby and one orange glasses.

FOR PARAFFIN

No. 14. Glass, $5\frac{3}{4} \times 2\frac{1}{2}$ in. **5/6**

,, 15. ,, $7\frac{1}{4} \times 3\frac{1}{2}$,, ... **7/6**

FOR ELECTRIC LIGHT

No. 17. As No. 14 but with lift-off top .. **7/6**

ENSIGN SAFELIGHT LAMPS

Strongly made of japanned metal, white enamelled inside and well ventilated. The reflected light is evenly distributed.

WITH 7×5 in. LIGHT FILTER

No. 18. For gas **9/–**

,, 19. For paraffin oil **9/–**

,, 20. For electric light, with flex and adapter **13/–**

WITH 10×8 in. LIGHT FILTER

With removable panels to give easy access to burner.

No. 21. For gas **22/6**

,, 22. For paraffin oil **22/6**

,, 23. For electric light with flex and adapter **22/6**

ENSIGN SAFELIGHT FILTERS (O)

No. 0. Yellow. For slow lantern plates and gaslight paper.

,, 1. Orange. For process plates and bromide paper.

,, 2. Light red. For ordinary, rapid and extra rapid plates.

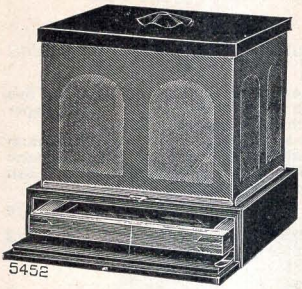
,, 3. Deep red. For orthochromatic, high speed and green sensitive plates.

,, 4. Green. For panchromatic and ortho red sensitive plates.

PRICES:

7×5 in. .. .. **3/6** 10×8 in. **5/6**

ENSIGN DARK-ROOM SUNDRIES



ENSIGN COMBINATION ELECTRIC DARK-ROOM LAMP AND PRINTER (O*)

For negatives up to postcard size. The opening and closing of the door in the base (provided for a printing frame), switches the light off and on.
Wooden base and collapsible metal body with double thickness of ruby and yellow fabric, flex, adapter and lamp-holder **16/6**

ELECTRIC LIGHT COVERS (O*)

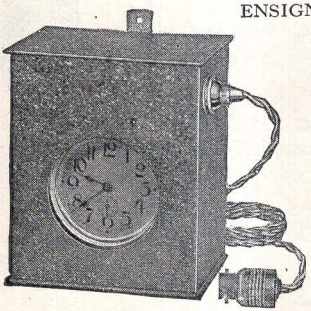
In nickelled screw fitting for converting ordinary filament lamps into dark room lamps.

RUBY—No. 24, small	**4/6**	
No. 24a, large	**4/6**	
ORANGE—No. 25, small	**4/6**	
No. 25a, large	**4/6**	

NON-ACTINIC GLASS .. ..Ruby, sq. ft., **2/–**; Orange, sq. ft. **2/6** (O)
NON-ACTINIC FABRIC, Ruby, Orange or Yellow .. ..per yd. **2/6** (O)
NIGHT LIGHTS with metal cover, No. 1, **2**d.; No. 2, extra large .. **3**d. (O)

ENSIGN BURNING OIL, does not smoke, nor smell, nor char the wick, 6 oz. tins **9**d. (O*)
ELECTRIC LIGHT EXTENSION. Lampholder, adapter and 12 ft. flex .. .. **3/6** (O)

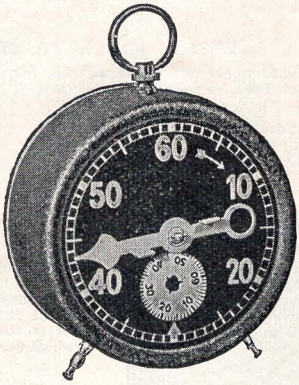
ENSIGN DARK-ROOM LAMP-CLOCK (O*)



A combination electric dark-room lamp and clock for timing purposes. Metal body with crystalline finish, and a wall hanger

A 4 in. opening allows the clock to be seen through the ruby glass —this is facilitated by the reflected light given by the lamp (not supplied). The clock has a 4-in. dial and a superior movement.

Complete with clock, lampholder, plug adapter and 6 ft. flex, **21/–**

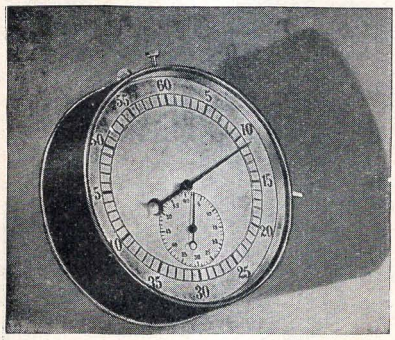


NUBIAN DARK-ROOM CLOCK (O*)

Indicates seconds and minutes on separate dials. Clearly defined hands and figures, easily readable in red light.
Very useful for gaslight paper exposures, enlarging and tank development. Rings alarm at hour **12/6**

LANDELL DARK-ROOM CLOCK

Grey enamelled case **25/–**



"HOLBORN" TIMER (O)

The "Holborn Timer" is something new in Dark Room clocks—a Timer on the stop watch plan. It is of a good size (8¼in. diameter) and the markings are bold and easily read.

The face is marked seconds 60 of which are recorded by the main hand. A smaller hand and dial records 60 minutes.

The Time is started by raising a lever at the side and stopped by depressing it. The hands are returned to zero by depressing the control on the top of the Timer. This obviates any mental calculations and avoids confusion.

There is a single winding key at the back and one winding lasts 36 hours.

Without Luminous dial **32/6**
With Luminous dial **47/6**

ENSIGN DEVELOPING TANKS O*

ENSIGN JUNIOR DISH
FOR DEVELOPING ROLL FILMS IN DAYLIGHT

There is no drudgery in operating this dish as it does not take the backing paper of the film into the solution.
Made of strong metal with aluminium finish outside and an anti-sulphuric coating inside, which renders the dish impervious to chemical action.

All fittings are substantially made and the daylight loading of films is only a matter of seconds .. **4/9**

Developing powders	..per packet of six	**1/–**	Celluloid tumbler measure, 2 oz. size .. **1/2**
Acid-hypo for fixing	.. per 4 oz. tin	**7d.**	Film clips for drying .. .. .. **2d.**

CARBINE TANK
FOR DEVELOPING ROLL FILMS IN DAYLIGHT

Overcomes difficulties, eliminates mess, and adds an additional pleasure to photography. From start to finish the process is practically automatic, carried out entirely in daylight and is very economical. The Ensign Carbine Tank has no changing box or apron. It requires no particular care, and will invariably produce the best negative obtainable from any particular film.
Solid brass, black enamelled and plated.

Model A	for $1\frac{5}{8} \times 2\frac{1}{2}$	spools	(1J)	**15/–**
„ B	„ $2\frac{1}{4} \times 3\frac{1}{4}$	„	($2\frac{1}{4}$B)	**15/–**
„ C	„ $2\frac{1}{2} \times 4\frac{1}{4}$	„	($2\frac{1}{2}$)	**21/–**
„ D	„ $2\frac{5}{8} \times 4\frac{5}{8}$	„	($2\frac{5}{8}$)	**30/–**
„ E	„ $4\frac{1}{4} \times 3\frac{1}{4}$	„	($3\frac{1}{4}$)	**30/–**

ENSIGN CONCENTRATED TANK DEVELOPING POWDERS

Thoroughly tested and suitable for all films. Develop perfect unstained negatives in ten minutes (temperature 65 deg.)

For Carbine Tanks—	Packet	Box of 6
A and B, to make 27 ounces ..	**4d.**	**1/6**
C, requires two packets ..	**5d.**	**2/–**
D and E require two packets ..	**6d.**	**2/6**

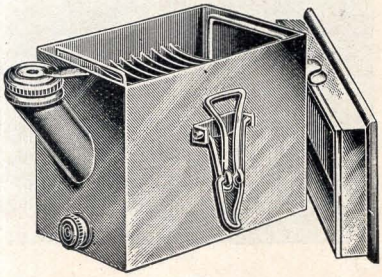
KLIMAX TANKS
FOR DEVELOPING PLATES IN DAYLIGHT

The whole process of development, fixing and washing is easily carried out without the aid or inconvenience of a dark room (except for loading). Clean crisp negatives of good printing density and free from light fog, are obtained. Made in brass, heavily nickel-plated, and develops six plates at a time. It offers many advantages, the most important being "solution room" by which even development is always assured.

Size	Fluid capacity	To hold 6 plates
$3\frac{1}{2} \times 2\frac{1}{2}$ ..	15 ozs.	**18/6**
$4\frac{1}{4} \times 3\frac{1}{4}$ ..	17 ozs.	**20/–**
$5\frac{1}{2} \times 3\frac{1}{2}$ ..	21 ozs.	**22/6**

Developing Powders for any size tank, per box of 6 packets, .. **1/6**

FILM-PACK TANK



For the daylight development of film packs and plates. Loading only takes a few minutes in the dark-room. Other operations can be done in daylight. Fitted with water-tight lid for reversing tank. The films are inserted in carriers and left there until dry. Constructed of strong copper and brass, heavily nickel-plated with loose rack.
For film packs or twelve plates.

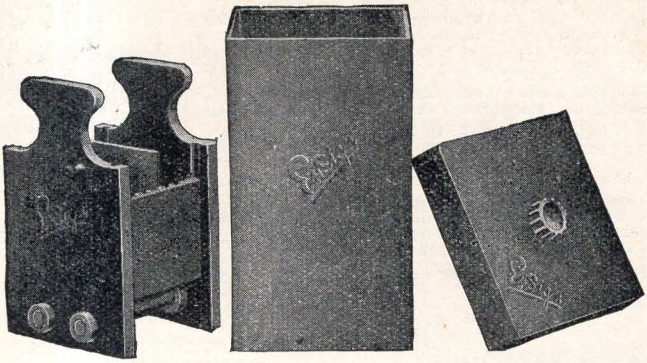
No. 1 ..	$3\frac{1}{4} \times 2\frac{1}{4}$ in.	**24/–**
No. 2 ..	$4\frac{1}{4} \times 3\frac{1}{4}$ in.	**25/–**
No. 3 ..	$5\frac{1}{2} \times 3\frac{1}{4}$ in.	**27/–**

Film-pack and print dryer for this tank, **5/–.**

Developing Powders, box of 6 packets.
No. 1, **1/6**: No. 2, **2/3**; No. 3, **3/–.**

ENSIGN PHOTO SUNDRIES (O)

HARD RUBBER DEVELOPING TANK FOR PLATES



A great advance on previous tanks of this description. The racks are practically unbreakable, and are built of replacable sections. The grooves are double width, each to take two plates back to back.

To hold	Tank	Lid	Rack	Complete
12 P.C.	8/3	5/6	12/3	26/–
24 ,,	9/–	6/6	13/–	28/6
50 ,,	13/3	7/9	14/6	35/6
12 ½-plate	9/–	5/9	12/9	27/6
24 ,,	11/–	6/6	13/6	31/–
50 ,,	14/6	8/6	15/–	38/–
12 1/1 plate	14/–	7/–	16/–	37/–

	Each
¼-plate Racks to fit P.C. Tanks, to hold 12	12/3
,, ,, ,, ,, ,, 24	13/–
,, ,, ,, ,, ,, 50	14/–

REPLACEMENT PARTS FOR RACKS

End Plate.	Each	Rackwork	Each	Connecting Rods	Each
¼-pl.	2/9	to hold 12	1/9	for 12	9d.
P.C.	2/9	,, 24	2/–	,, 24	10d.
½-pl.	3/–	,, 50	2/6	,, 50	1/–
1/1-pl.	4/6	Screw nuts	each 6d.		

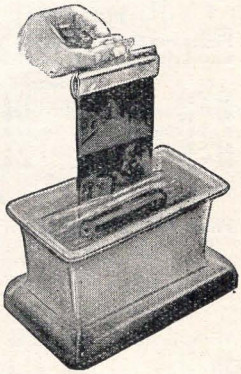
TRIDENT DEVELOPING WEIGHT

Facilitates the development of roll films in lengths. Made in porcelain and shaped in the form of a trident, under the central bar of which the film is drawn through the developer.

No. 1.
Takes films up to 3¼ in. 2/6

No. 2.
Takes films up to 5 in. 3/–

This price does not include dish.



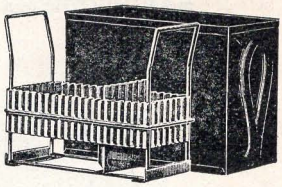
'EASY' DEVELOPING DISH (L)

An improved dish by which roll films can be developed easily, using one hand only.
Needs only 1½ oz. developer for small spools and 3 oz. for ¼-plate or postcard sizes.
Can also be used for fixing and washing.

For all sizes of spools up to postcard .. 3/6

ENSIGN PHOTO SUNDRIES (O)

WASHERS



No. 1. Japanned with syphon and loose zinc rack for twelve plates.
3½ × 2½, **2/–** 4¼ × 3¼, **2/3** 5½ × 3½, **3/–** 6½ × 4¾, **4/–**

No. 2. Japanned metal with syphon and loose zinc rack. Takes eighteen ¼-plates and nine ½-plates. Adaptable for all sizes up to ½-plate **2/6**

No. 3. As for No. 2, made of zinc **5/–**

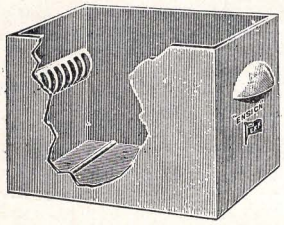
No. 6. CASCADE. Washes plates, films and prints. The gentle flowing motion of water through the tanks removes all hypo.
4¼ × 3¼, **7/6** .. 6½ × 4¾, **10/–** .. 8½ × 6½ **12/6**
12 × 10, **25/–** .. 15 × 12 **32/6**

FOR PRINTS ONLY

No. 7. Round, Japanned, white inside. 3½ × 2½, **2/6**; 4¼ × 3¼, **3/6**; 6½ × 4¾ **7/6**
No. 8. Oblong, Japanned metal with outlet. 4¼ × 3¼, **6/6**; 6½ × 4¾, **10/6**; 8½ × 6½ .. **15/6**
No. 5. HOLBORN. Practical washer for glass negatives. Strongly constructed and best finish. Solid Zinc tank with syphon and loose zinc rack.

For Plates.	12 grooves.	24 grooves.
6½ × 4¾ in.	**12/–**	**14/6**
8½ × 6½ in.	**13/6**	**16/–**
10 × 8 in.	**17/6**	**21/6**

For plates.	12 grooves.	24 grooves
12 × 10 in.	**21/6**	**23/–**
15 × 12 in.	**25/–**	**30/–**



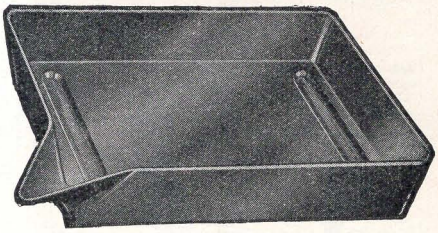
PORCELAIN TROUGHS (L)

Glazed with fixed grooves.

For plates.	For Washing with Syphon. 6 gr.	12 gr.	For Fixing without Syphon. 6 gr.	12 gr.
4¼ × 3¼	**10/–**	**15/–**	**7/6**	**12/6**
5½ × 3½	**11/–**	**17/6**	**8/6**	**15/–**
6½ × 4¾	**14/–**	**18/6**	**11/6**	**16/–**
8½ × 6½	**20/–**	**27/6**	**17/6**	**25/–**
12 × 10	**42/6**	**54/6**	**40/–**	**52/–**
Combined 12 ¼-pl. and 10 ½-pl.	**21/–**		—	**18/6**
Combined 18 ½-pl. and 12 1/1-pl.	**37/6**		—	**35/–**

ENSIGN DEVELOPING DISHES

BAKELITE (O)



Light and practically unbreakable, these new dishes have perfectly flat bases, and finished to be impervious to action of chemicals.

3½ × 2½ in. **1/–** ¼-plate. **1/3** Postcard. **1/6**
½-plate. **2/–** 1/1 plate. **2/9**

PORCELAIN (L*)

Finest quality Staffordshire Porcelain, with a hard glaze finish to resist chemical action.

In.	Semi-deep.	Deep.
3½ × 2½	**1/2**	**1/3**
4¼ × 3¼	**1/6**	**1/9**
5 × 4	**1/9**	**2/–**
5½ × 3½	**1/9**	**2/–**
6½ × 4¾	**2/6**	**2/9**

In.	Semi-deep.	Deep.
8½ × 6½	**4/–**	**4/6**
10 × 8	**4/9**	**5/6**
12 × 10	**7/–**	**8/–**
15 × 12	**15/6**	**17/6**
18 × 14	**30/–**	**35/–**

ENAMELLED STEEL (L*)

Finest quality double coated, highly glazed, with pouring spout. White enamelled.

4¼ × 3¼	5 × 4	5½ × 3½	6½ × 4¾	8½ × 6½	10 × 8	12 × 10	15 × 12	20 × 16	24 × 19
1/8	**2/–**	**2/–**	**2/6**	**3/3**	**4/–**	**5/6**	**8/6**	**16/–**	**25/–**

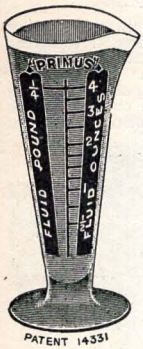
Strip, 23 × 7 × 3 .. **11/6** Extra Deep, 20 × 16 × 6 .. **27/6** 24 × 19 × 6 .. **40/–**

XYLONITE (O)

With ribbed bottom and lip. 10 × 8 and larger sizes are made extra strong without lip.

3¼ × 2¼ in. .. **5d.** 6½ × 4¾ in. .. **1/–** 12 × 10 in. .. **8/–** 13 × 18 cm. .. **1/2**
4¼ × 3¼ in. .. **7d.** 8½ × 6½ in. .. **1/4** 15 × 12 in. .. **9/6** 18 × 24 cm. .. **1/8**
5½ × 3½ in. .. **8d.** 10 × 8 in. .. **2/6** 9 × 12 cm. .. **8d.**

ENSIGN PHOTO SUNDRIES (O*)



MEASURES

	1dr.	2 dr.	1 oz.	2 oz.	4 oz.	8 oz.	10 oz.	16 oz.	20 oz.
TUMBLERS—									
White enamelled graduations ..	—	—	—	9d.	11d.	1/3	1/4	1/7	2/-
EVERSEEN—									
Black print markings									
White top edge,									
CONICAL	—	1/3	1/3	1/4	1/6	—	—	—	—
CYLINDRICAL	—	—	—	1/4	1/6	—	2/6	—	3/6
ENGRAVED LETTER—									
CONICAL	9d.	9d.	1/-	1/2	1/4	1/9	2/-	—	2/6
CYLINDRICAL	—	—	1/-	1/2	1/4	1/9	2/-	—	2/6
CELLULOID—									
Tumbler shape ..	—	—	—	1/2	1/4	—	2/-	—	—

GRADUATED JUGS

Glass .. 1 pint, 2/6; 1 qt., 3/-. Enamelled .. 1 pint, 2/6; 1 qt., 3/-

FUNNELS

	Glass-Ribbed					Enamelled Steel		
Dia.	2 in.	3 in.	4 in.	5 in.	6 in.	4 in.	5 in.	6 in.
	9d.	1/-	1/3	1/6	2/-	1/6	2/-	2/6

DROPPING BOTTLES, with Stopper and Air Valve

1 oz., 5d. .. .. .. 2 oz. 7d. .. .. .. 4 oz. 10d.

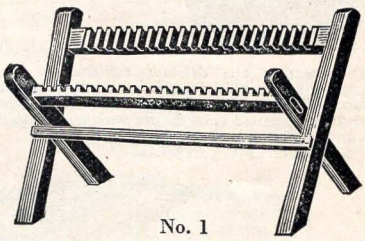
DRAINING RACKS

No. 1. Hardwood, folding, with twelve grooves, for ¼-plate and ½-plate negatives 1/-

No. 2. With twelve grooves to take any negative up to 1/1-plate. Folds flat when not in use 2/6

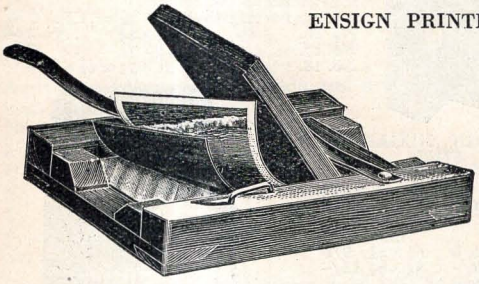
DRYING FRAME

No. 4. Prints dry quickly and evenly without curling. The area available for prints is 28× 14 in. and when folded it packs into an envelope 15×4 in. With two wooden rollers, wire framework and drying net 2/6



No. 1

ENSIGN PRINTING FRAMES (O*)



No. 4. WOOD—FOR FILMS (WITH GLASS)

Takes a film without cutting down. Gives a print full size of negative. Similar to the No. 6 Frame and fitted with glass.

2½×1⅝	11d.	4¼×3¼	1/1
2¼×2¼	11d.	4⅞×2⅞	1/1
3 ×2	11d.	5⅛×3¼	1/5
3¼×2¼	11d.	5 ×4	1/10
4¼×2½	1/1		

No. 6. WOOD—FOR PLATES

With jointed corners and wide rebate. The clamped back shows a two-thirds view, has a light tight joint and is lined. A cloth hinge is fitted to the small sizes and two brass hinges to the larger frames. Whole-plate and larger are varnished ash.

2 5/16×1¾ in.	10d.	5 ×4 in.	1/9	9×12 cm.	1/2	8½×6½ in.	Ash	5/6
3½ ×2½ ,,	10d.	6½×4¾ ,,	1/10	13×18 ,,	2/4	10× 8 ,,	,,	9/-
4¼ ×3¼ ,,	1/-	8 ×12 cm.	1/2	18×24 ,,	5/-	12×10 ,,	,,	11/6
5½ ×3½ ,,	1/4					15×12 ,,	,,	16/-

METAL—FOR PLATES OR FILMS—WITH GLASS

Non-rustable metal with round corners and hard enamel finish.
Being thin it takes up little space. Being metal it cannot break or warp.
The hinged back is covered with baize and opens to show a two-thirds view.

3½×2½ .. .. 1/- 4¼×3¼ .. .. 1/3 5½×3½ 1/6

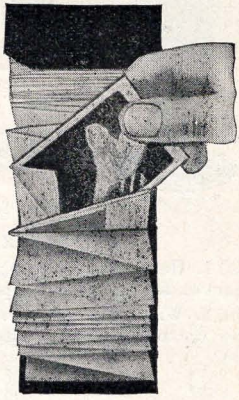
ENSIGN NEGATIVE FILES (O*)

"FULL VIEW" NEGATIVE ALBUM

The safe storage of film negatives is always a minor problem. Here is a new way of overcoming it. One that makes it simpler, and safer, since the negative cannot slip out and yet it is always instantly accessible.

It is a real utility article by which the finding of negatives is a matter of seconds. The grey leaves have cut-out centres with three slots to retain the negative in position; the main portion of the negative is immediately at view and can be quickly identified. Bound strongly in imitation lizard, stitched and guarded to open perfectly flat. The leaves numbered 1 to 50, with Index, and elastic band to cover.

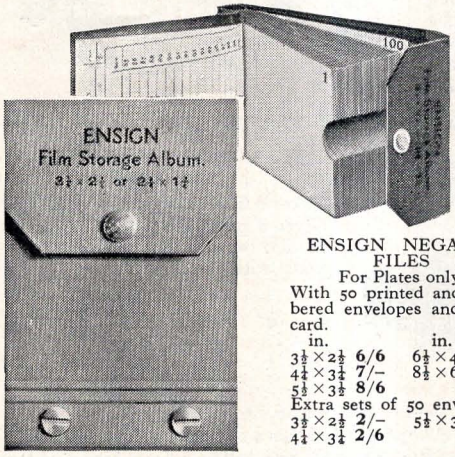
FOR
50 $3\frac{1}{4} \times 2\frac{1}{4}$ NEGATIVES, **2/-**



ENSIGN FILM STORER

For protecting the delicate surfaces of film negatives. The transparent paper is folded in such a manner as to form a separate division for each negative. The 100 divisions are strongly bound into grained card covers with snap fastener and index.

No. 215. For $3\frac{1}{4} \times 2\frac{1}{4}$ negatives **1/6**
No. 216. For $4\frac{1}{4} \times 2\frac{1}{2}$ negatives **2/-**



ENSIGN FILM STORAGE ALBUMS

Contains 100 numbered transparent envelopes and index, bound by loose-leaf binder into stout art linen covers. Each envelope is interchangeable and removable. Negatives can be found instantly and moved without interference to others.

No. 15. For negatives $3\frac{1}{4} \times 2\frac{1}{4}$ or V.P. **2/6**
No. 16. ,, ,, $4\frac{1}{4} \times 2\frac{1}{2}$ .. **3/-**
No. 17. ,, ,, $4\frac{1}{4} \times 3\frac{1}{4}$ .. **3/-**
No. 18. ,, ,, $5\frac{1}{2} \times 3\frac{1}{4}$ or $4\frac{7}{8} \times 2\frac{7}{8}$ **4/-**

ENSIGN NEGASYS FILES

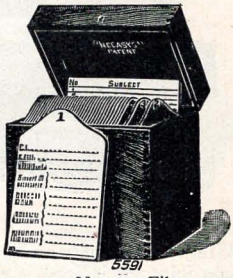
For Plates only.

With 50 printed and numbered envelopes and index card.

in.		in.	
$3\frac{1}{2} \times 2\frac{1}{2}$	**6/6**	$6\frac{1}{2} \times 4\frac{3}{4}$	**9/6**
$4\frac{1}{4} \times 3\frac{1}{4}$	**7/-**	$8\frac{1}{2} \times 6\frac{1}{2}$	**15/-**
$5\frac{1}{2} \times 3\frac{1}{2}$	**8/6**		

Extra sets of 50 envelopes.

$3\frac{1}{2} \times 2\frac{1}{2}$	**2/-**	$5\frac{1}{2} \times 3\frac{1}{2}$	**3/-**
$4\frac{1}{4} \times 3\frac{1}{4}$	**2/6**		



Negasys File

NEGATIVE PLATE BOXES

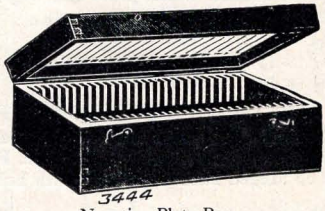
Made in polished pine with combed corners; 50 hardwood grooves and index.

$3\frac{1}{2} \times 2\frac{1}{2}$ in.	**5/6**	10 × 8 in.	**25/-**
$4\frac{1}{4} \times 3\frac{1}{4}$,, ...	**6/-**	12 × 10 ,, ...	**35/-**
$5\frac{1}{2} \times 3\frac{1}{2}$,, ...	**7/-**	15 × 12 ,, ...	**40/-**
$6\frac{1}{2} \times 4\frac{3}{4}$,, ...	**8/-**	9 × 12 cm.	**7/6**
$8\frac{1}{2} \times 6\frac{1}{2}$,, ...	**13/6**		

EXPRESS NEGATIVE BOXES

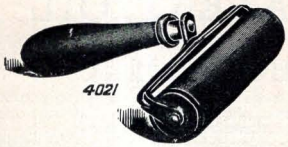
For plates or films, strong outer case, covered grained paper with drawer, 50 printed envelopes and title index.

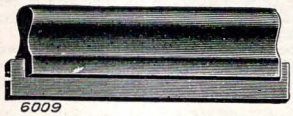
$3\frac{1}{2} \times 2\frac{1}{2}$ in.	**3/-**
$4\frac{1}{4} \times 3\frac{1}{4}$,, ...	**3/6**
$5\frac{1}{2} \times 3\frac{1}{2}$,, ...	**4/-**



Negative Plate Box

ENSIGN PHOTO SUNDRIES


4021


6009

ROLLER SQUEEGEES (o)

No. 1. With cast metal frame, polished wood handle and roller with grey rubber covering.
4 in. **1/4** 6 in. **1/9**

No. 2. With cast metal frame and polished wood handle. The rollers are covered with non-perishable red rubber.
4 in. **2/–** 6 in. **2/9**

No. 3. With ball bearings in drawn steel frame, stout rubber and polished handle.
6 in. **10/6**

No. 4. Strong frame, with ball bearings and 3 in. solid rubber covering.
6 in. **18/9** 8 in. **26/3**

Flat. Stout grey rubber and wood handle.
4 in. **1/2** 6 in. **1/8** 8 in. **2/2** 12 in. **3/–**

FERROTYPE PLATES (o*)

For glazing prints. (Imperial), 14×10 in. **7d.** each, **6/–** doz. (Stout) **9d.** each, **8/–** doz.
A.1. Superior quality. 14×10, **1/3**; 17×12, **2/3**; 20×14 **3/6**; 24×18 **5/–**

ENSIGN PRINT GLAZERS (o)

No. 1. 10×8 .. .. .. **1/–** No. 2. 12×10 .. .. **1/6**

KLITO PRINT GLAZERS (o)

Require no preparation with chalk. Prints fall off when thoroughly dry.
No. 1. 10×8 .. .. .. **3/6** No. 2. 12×10 .. .. **4/6**

DRY MOUNTING TISSUE

Superior quality, uniform and exceedingly adhesive.

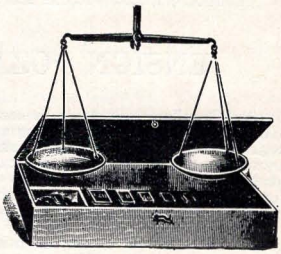
Size	Pieces	Packets	Gross	Size	Pieces	Packets	Gross
3½×2½ in.	64	**1/–**	**1/6**	8½×6½ in.	14	**1/–**	**7/2**
4¼×3¼ „ .. .	48	**1/–**	**2/–**	10×8 „	30	**2/6**	**9/9**
5½×3½ „	32	**1/–**	**2/8**	12×10 „	18	**2/6**	**14/3**
6½×4¾ „	24	**1/–**	**3/10**	15×12 „	14	**2/6**	**21/9**

SCALES (o)

Accurately balanced. With grain and dram weights in box.

No.	Beam	Pans	
1 ..	6 in.	Brass	**6/6**
2 ..	8 „	Brass	**11/6**
3 ..	6 „	Glass	**8/6**
4 ..	8 „	Glass	**15/–**
6 ..	Pillar pattern 6 in.	Brass	**9/6**
Set of Weights	.. ..	..	**1/6**

No. 12a. Nickel-plated, with large loose nickel pan and ebonised base, with set of weights for weighing up to 12 oz. **16/6**


5300

Tablet Crusher

TABLET CRUSHER (o)

For crushing compressed chemical tablets into a fine powder.
In solid metal **3/–**

CRUSHMETER (J)

A combined glass measure and tablet crusher.
4 oz. .. .. **4/–** 10 oz. .. **6/–**

STIRRING RODS (o)

Ebonite .. .. **7d.**
Glass, 6 in. **2d.** 8 in. **3d.** 12 in. **4d.**

ENSIGN MARSHALL
TRANSPARENT PERMANENT OIL

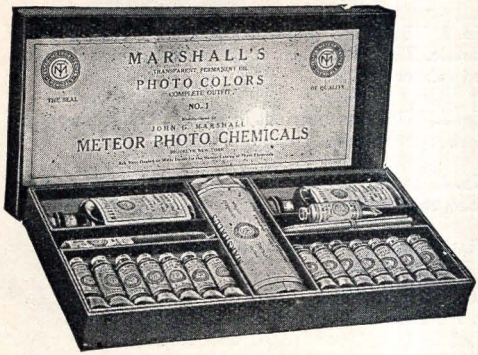


PHOTO COLOURS (O)

A medium for tinting photographs, prints, photo canvas (Art Canvas), opal miniatures, magazine pictures, etc.
The colours are so transparent that it is only necessary to apply an even wash of the colour. The lights and shades of the print will shine through the colour and give the appearance of actual shading in applying the colours.
The tubes are so marked and the directions so complete that users will have no difficulty in doing work entirely to their satisfaction.
No brushes are required. Simply apply the colour to the print with a tuft of cotton and allow the colour to run past the outlines.
Any part not coloured satisfactorily may be cleaned off.
Mixing is unnecessary with any set except the No. O. Full directions with each set.

The permanence of the colours is assured by the fact that tinted pictures have been exposed to the direct action of the sun for months without the slightest change having occurred.

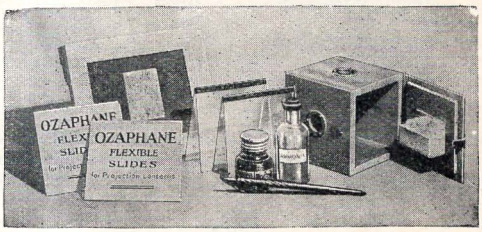
LIST OF COLOURS

Cheek. *Flesh. Lip. Cobalt Violet. *Verona Brown. *Chinese Blue. *Cadmium Yellow *Raw Sienna. Cadmium Orange. *Carmine. Sepia. Tree Green. *Viridian. *Oxide Green. Neutral Tint. Flake White. Ivory Black. Ultra Blue. Payne's Gray. Burnt Sienna.

PRICES

No. 0 COMPLETE SET.—4 colours in ½ × 2 tubes. Prepared Medium Solution (P.M.S.), Cotton and Skewers	6/-
No. 1 COMPLETE SET.—First 15 colours in tubes, tube of Medium, Turpentine, Varnish, Cotton and Skewers	£1 2 6
No. 2 COMPLETE SET.—Above 20 colours in ½ × 2 tubes, tube of Medium, Turpentine, Varnish, Cotton, Skewers, Cloth, Medium Cup	1 10 0
STUDENT'S COMPLETE SET.—8 colours as marked (*) in ½ × 2 tubes. Prepared Medium Solution (P.M.S.), Cotton and Skewers	12/6

ENSIGN "OZAPHANE" FLEXIBLE SLIDES (O)



Ensign Ozaphane slides are as easy to make as a print from a photographic negative; they require no highly skilled knowledge to produce them; they can be made in a few minutes.
Just think for one moment of the advantages of "Ozaphane" slides! A drawing, graph, chart, or some complicated diagram can be drawn on to unsensitised "Ozaphane" with Indian ink; this diagram can be reproduced in any quantity by contact with the sensitised "Ozaphane." If you have lantern slides in existence and require further copies, it is unnecessary to have negatives, simply expose positive lantern slide to "Ozaphane" and result is a positive ready to show on screen; this can be done in half-an-hour. If individual diagrams are required, unsensitised "Ozaphane" can be used in lantern, and can be coloured for greater effect.

PRICES

COMPLETE OUTFIT for printing OZAPHANE slides, including sensitised and unsensitised material, printing frame, fumidor box, Indian ink, mapping pen, and glass frame carrier	12/6
OZAPHANE MATERIAL—	
Sensitised, per packet of one dozen, size 3¼ × 3¼ in., for lantern slides	1/9
Unsensitised, per packet of fifty, size 3¼ × 3¼ in., for lantern slides	9d.
Sensitised in sheets 1 yard square	£1 0 0
Unsensitised in sheets, size 31½ in. by 35½ in.	1/-

ENSIGN PHOTO SUNDRIES

RETOUCHING SETS (O)

No. 1 Contains three cedar pencils (H, HH and HB) with eraser and stump **1/9**

No. 2. With three black chalk pencils (B, 2B, 3B) and one white chalk pencil **1/9**

No. 3. With three pencils of varying degrees, one bottle each of retouching and spotting medium, two spotting brushes and conté stump **2/6**

No. 4. With one pencil, one bottle each of spotting and retouching medium, trimmer and spotting brush .. **2/6**

RETOUCHING PENCILS (G)

EVERPOINTED WITH LEAD.
Ensign, **1/3**; Venus, **1/–**; Hardtmuths **10**d.
REFILLS—Six in a box (G)
Ensign, **9**d.; Venus, **1/6**; Hardtmuths **6**d.

RETOUCHING KNIFE, scraper and graver .. **9**d. (O)

SPOTTING OUTFIT (O)

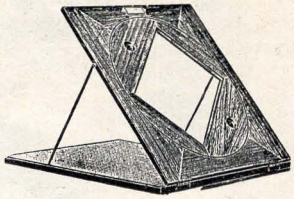
No. 6. Complete with seven pans of moist colour and brush, **3/6**

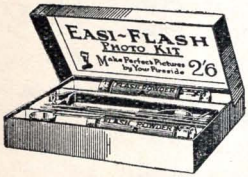
SPOTTING PALETTE (O)

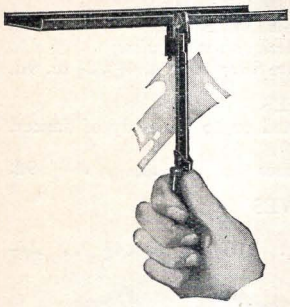
Five assorted water colours and brush on palette .. **1/–**

VOLVO RETOUCHING DESK (O)

Strongly made in cherrywood with brass side struts and revolving frame so that any portion of a negative can be retouched.
¼-plate .. .. .. **7/–** ½-plate .. **12/6**







FLASH LAMPS AND POWDERS (O*)

EASI-FLASH PHOTO KIT. Contains metal flashlamp, measure, tapers and powder **2/6**

ENSIGN-AMATEUR. Flashpowder is fired by a percussion cap. Made of metal.. .. .. **3/6**

SPREDLITE. Gives a powerful flash. Complete with percussion caps **8/6**

FLEET. A collapsible lamp that has not failed yet. The cap cannot become displaced for it is held against a metal bridge by well-sprung metal rod. The handle and tray are detachable. Substantially made of nickel-plated brass. In neat leather sling case with box of caps, **18/9**

FLASH CAPS. For igniting flash-powder.. Box of 50 **1/–**

MAGNESIUM RIBBON, in ¼ ½ and 1 oz. coils.. per oz. **2/–**

FLASHMETERS (Magnesium Ribbon), PISTOL, **9**d.; ROUND, **7½**d.

JOHNSON'S FLASH POWDER
Small, **1/–**; Large, **1/9**; 1 oz. tins, **2/6**; Flashbox, **6**d.

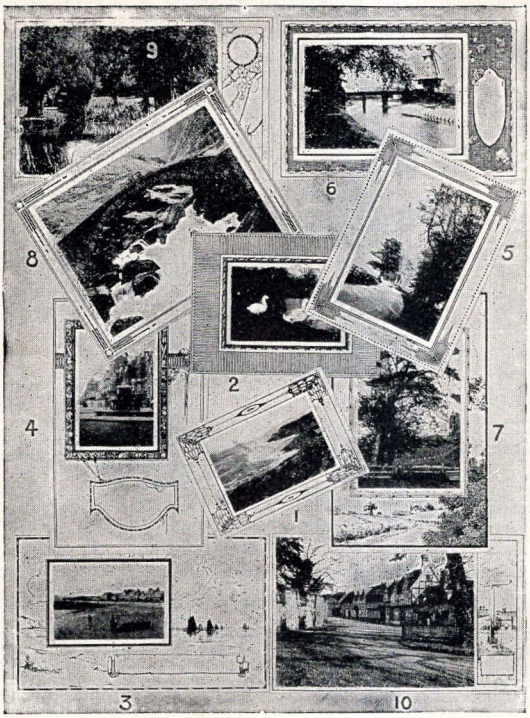
GEKA "FUMOSIN" FLASH POWDER

A new flash-powder of high actinic value, and absolutely smokeless. This is explained by the oxidated materials of Fumosin being so heavy as to obviate mixing with the air.

It is indispensable for halls, hospitals, museums and such places, where smoke must be avoided.

10 Grammes, **1/6** 25 Grammes, **2/6**
50 „ **4/3** 100 „ **8/-**
250 Grammes, **19/6**

ENSIGN BORDER NEGATIVES (O)



ENSIGN ART BORDER NEGATIVES

An effective series of transparent celluloid, with exclusive designs.

No.	Size	Paper Size
2	V.P.	¼-plate
3	V.P.	P.C.
3A	2E	P.C.
4	V.P.	P.C.
5	2¼B	¼-plate
6	2¼B	P.C.
7	2¼B	P.C.
8	¼-plate	5×4
9	¼-plate	P.C.
10	¼-plate	P.C.
11	1A	P.C.
12	1A	P.C.

Nos. 2 and 5 .. **1/6**
All others **1/9**

ENSIGN POSTCARD BORDER NEGATIVES

For printing postcards from small negatives. In sets of four designs with masks.
No. 1, 2½×1⅝ in. **9d.** No. 2, 3½×2½ in. **9d.** No. 3, ¼-plate **9d.** No. 4, 4¼×2½ in. **9d.**

COMIC BORDER NEGATIVES

Postcards can be made with the head from a portrait printed on to the body of dancer, footballer, etc. In sets of four.
Sets 1 and 2, Sports; Set 3, Dancing; Sets 4 and 5, familiar faces .. .. .. **9d.**

CELLULOID CLOUD NEGATIVES

Suitable for landscapes or seascapes. Assorted designs.
3½×2½ .. **1/-** 4¼×3¼ .. **1/3** 5½×3½ .. **1/6** 6½×4¾ ... **2/-**

OPAQUE MASKS

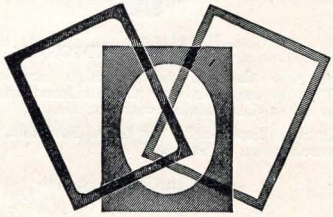
Clean cut, square, circular and oval openings.
In packets of 25.

Up to 5×4, per packet of each size **6d.**; ½-plate **1/-**

SEE-THRU MASKS

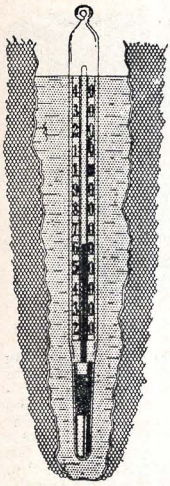
Transparent orange celluloid. Rectangular, oval and rectangular with cushion corners.

Up to 3½×2½. Set of 3 .. **9d.**
Up to 5×4 „ „ .. **1/-**
½-plate „ „ .. **1/6**



See-Thru Masks

ENSIGN PHOTO SUNDRIES (O)



ENSIGN FLOATING THERMOMETER

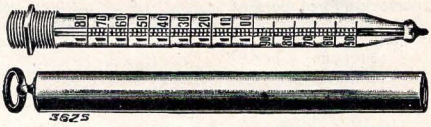
Temperature testing of solutions becomes an easy matter with this new floating Thermometer. It gives a true reading up to 140 deg Fahr.. Specially weighted with shot so that a vertical position is maintained when testing solutions. 9 in. long, ½ in. diameter, with ring for hanging.

5/-

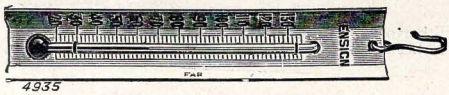
THERMOMETERS

No. 1. Glass, 5 in., in nickel case, with screw cap. Opal scale up to 190 deg. Fahr. .. **2/-**

No. 2. Glass, in nickel frame, engraved from 20 to 130 deg. Fahr. **2/6**



No. 1. Thermometer



No. 2. Thermometer

DEVELOPING AND PRINTING OUTFITS

Containing two dishes, printing frame, measure, lamp, night light, stirring rod, two clips, packet each of developer and tone-fixing, hypo and instructions.

For plates	No. 1.	3½ × 2½ in.	6/6	No. 2.	4¼ × 3¼ in.	7/6
For films	„ 3.	V.P.	6/6	„ 4.	2E	6/6
	„ 6.	2¼B..	6/6	„ 7.	2½	7/6

"KLIP-ON" APRON

An apron that is without straps or buttons. It fits snugly round the waist, and is put on or off in a moment. Nothing to be secured. Just clipped on. It is water-proof, with a front of rubber.

3/9

DEVELOPING APRONS

Black twill waterproofed material with large square bib. 36 × 30 in. **5/-**

DEVELOPING GLOVES

Strong seamless rubber. Assorted sizes.

Per pair .. .. Thin, **2/6**; Thick, **3/6**.

FINGER STALLS

Best rubber, assorted sizes .. .. **4d.**

Extra thin .. .. set of three **6d.**

VIGNETTERS

Flexible. Unbreakable material, delicately graduated. Fixed on outside of printing frame or cut to fit inside. Sets of 3 oval or 3 pear openings. 4¼ × 3¼ **2/3**; 5½ × 3½ **3/-**; 6½ × 4¾ **4/-**

Celluloid. Delicately graduated, pear or oval. 3½ × 2½ **6d.**; 4¼ × 2½ **9d.**; 4¼ × 3¼ **9d.**; 5½ × 3½ **1/-**; 6½ × 4¾ **1/6.**

WASHABLE CLOTH BACKGROUNDS

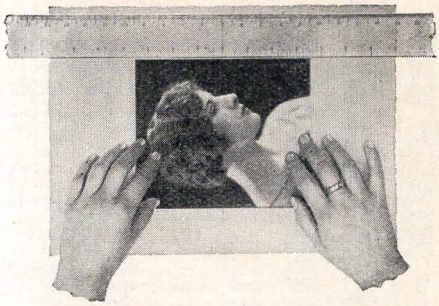
Mounted on stout rollers and free from creases.

No. 1. Mid-grey tone both sides. No. 2. Cream one side, dark grey the other.

Inches.	No. 1	No. 2.	Inches.	No. 1.	No. 2.	Inches.	No. 1.	No. 2
50 × 40	**6/-**	**6/6**	72 × 60	**13/-**	**13/6**	90 × 72	**21/-**	**22/6**
60 × 40	**7/-**	**7/6**	72 × 72	**17/6**	**18/6**	108 × 72	**24/-**	**25/-**
70 × 40	**8/6**	**9/-**						

Cloth only, on loose rollers. No. 1. 40 in., **3/9**; 60 in., **5/6**; 72 in., **8/-** per yard.
No. 2. 40 in., **4/-**; 60 in., **6/-**; 72 in., **8/6** per yard.

ENSIGN PHOTO SUNDRIES (O)



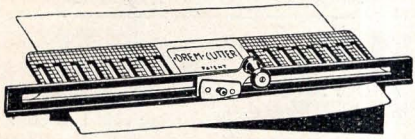
ENSIGN COMPOSING RULE

A transparent celluloid rule graduated in inches and centimetres, reading both right and left from zero in the centre of the rule.
Enables a print to be centred on to a mount with accurate uniform margins.
Large, easily read markings with hole for hanging.

7/6

DREM CUTTING MACHINE

Hitherto it has been almost impossible to secure precise and absolute clean cuts by the usual cutting machines. The Drem cutting machine permits, due to its peculiar construction, the easiest cutting of paper, cloth, leather, etc., with greatest exactitude and smoothness. The Drem cutting machine permits exactness of the cutting line to one 4/1000 of an inch and is applied like a ruler. The cut-outs and squares of the flat supporting base allow the judging of parallel or right-angle cuts. The flat section of the ruler is held down by one hand. The other hand grips the handle and makes the cut with moderate pressure. After completing the cut, pressure is relaxed and the knife raises automatically from the paper. In this raised position it is returned to the starting point.



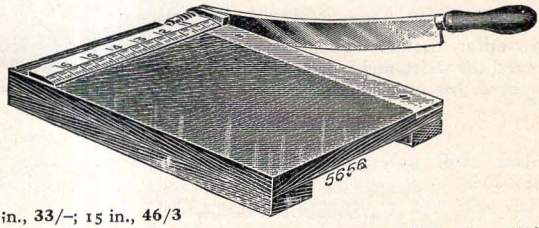
Cutting length, 9 in. .. **12/6** Cutting length 16½ in. .. **16/6**

TRIMMERS

ENSIGN. Strong, serviceable, polished hardwood table on solid wood supports with graduated rule. The Sheffield steel cutting blade gives a clean cut edge.
5 in., **6/6**; 7 in., **8/6**; 9 in., **12/–**

JAYNAY NO. 1. Polished wood baseboard, guide rule and tempered steel cutting blade.
5 in., **7/–**; 7 in., **10/6**; 9 in., **15/–**

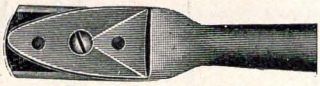
WITH PAPER HOLDER—
5 in., **9/–**; 7 in., **12/6**; 9 in., **17/–**; 12 in., **33/–**; 15 in., **46/3**



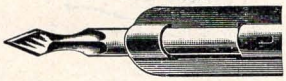
N. 2. A popular priced, but efficient trimmer .. .. 5 in., **3/3**; 7 in., **4/10**

TRIMMER ATTACHMENT

Holds paper flat on the trimmer and also acts as a gauge to give an even margin round the print.
Transparent celluloid .. .. 5 in., **1/–**; 7 in., **1/3**; 9 in., **1/6**



Razor Blade



Pen Nib

5660
No. 1

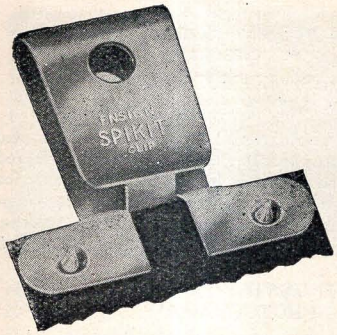
PRINT TRIMMERS

RAZOR BLADE. An holder for used Gillette pattern blades, 6 in. long. With one blade **1/6**
PEN NIB. Used in holder supplied or any ordinary pen-holder. 20 with holder **1/6**
No. 1. Single blade, polished handle **1/–**
No. 2. Double-edge blade, turned handle .. **1/6**
No. 3. Spear edged blade, ebonised handle .. **2/–**
No. 4. For cutting ovals or circles **2/–**
Extra wheels .. .. each **6d.**
MOUNT CUTTING KNIFE **4/–**
Extra blades .. .. each **1/–**

ENSIGN TITLING OUTFITS

For titling and numbering negatives or photographs. Outfits contain A to Z alphabets, sets of figures 0–9, type holder, tweezers, ink, pad, powder and brush.
No. 1. With 3 alphabets and sets of figures .. **5/–**
No. 2. With 5 alphabets and sets of figures .. **7/6**

ENSIGN PHOTO SUNDRIES (O*)



ENSIGN "SPIKIT" CLIP

Designed on modern lines and is a great advance on anything hitherto available. Two conical prongs pierce the film. which is held away from each side of the clip by the conical prong in a recessed hole, and the ends of the film are, therefore, completely exposed on both sides, and dry as quickly as other portions of the film .. .. each, **8d.**

HOOK CLIP

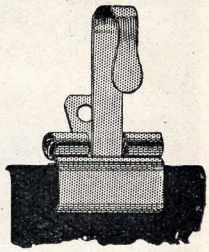
For film or print drying. In new finish, which is practically impervious to rust .. .. **3d.**

WOOD CLIPS

Hardwood with metal spring **4½d.** per doz. **3/6** per gross

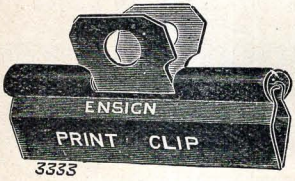
LOCKLIP CLIPS

Metal, grips tightly and releases easily .. .. .. **2d.**



FILM AND PRINT CLIPS

(Illustrated below). Nickelled metal with slightly toothed edges.
1 in., **2d.** 2½ in., **6d.** 4 in., **10d.**



ENSIGN PLATE GRIP

For suspending plates for developing, washing or drying. Grips the negative firmly.

3½ × 2½ in. .. per doz. **2/6** 5¾ × 3½ in. .. per doz. **3/6**
4¼ × 3¼ in. .. „ „ **3/–** 9½ × 4¾ in. .. „ „ **4/–**

FORCEPS. Xylonite .. .. .. 2¾ in., **6d.**; 5¼ in., **1/–**

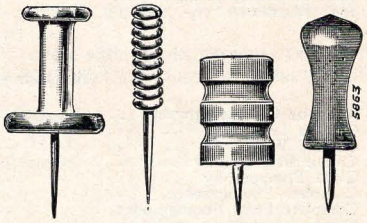
PRINT LIFTER

For turning over prints and keeping them submerged. Keeps the fingers free from hypo.
White Celluloid with curved handle **1/–**
Black Celluloid with weighted handle **2/–**

DARK-ROOM PINS

For hanging prints up for drying, or pinning paper to enlarging easels. Per doz.

MASCOT. Glass heads and needle points .. **9d.**
PRIMUS. Coiled wire heads and needle points .. **1/–**
STUDIO. Wood heads and needle points .. **10d.**
ENSIGN. Unbreakable erinoid .. small, **1/–**; large, **1/3**



Mascot. Primus. Studio. Ensign.

DUSTING BRUSHES

Smooth hair for dusting negatives or dark slides. In stained wood handles with metal frames.

1 in., **10d.** 2 in., **1/8**
3 in., **2/6** 4 in., **3/3**

MOUNTING BRUSHES

For mounting prints and enlargements.

STUB. Stiff hog hair, short handle .. .. **5d.**
No. 110. Black bristles, wood handle. .. .. ½ in., **7d.**; 1 in., **1/–**; 1¼ in., **1/3**

SPOTTING BRUSHES

Ordinary quality—	00	0	1	2	3	4	5	6	
	5d.	**5d.**	**5d.**	**6d.**	**7d.**	**8d.**	**10d.**	**1/–**	
Best quality, Pure Sable—	00	0	1	2	3	4	5	6	9	12
	8d.	**8d.**	**9d.**	**10d.**	**11d.**	**1/2**	**1/4**	**1/8**	**4/3**	**8/6**

KLITO BLOTTING BOOKS

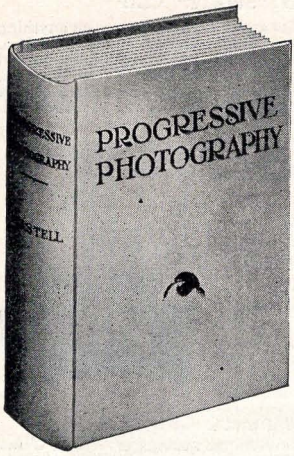
Chemically pure blotting paper, free from fluff. Twelve leaves.
7 × 5¾ in., **1/–** 8½ × 6½ in., **1/3** 11 × 9 in., **1/6** 14½ × 12 in., **2/6**

BLOTTING PAPER

Chemically pure, for photographic purposes.

	Weight.	Quire.	Ream.		Weight.	Quire.	Ream.
SPECIAL—							
25 × 20 in.	80 lb.	**9/–**	**£8 8 9**				
ROBOSSAL—							
22½ × 17½ in.	40 lb.	**6/–**	**5 0 8**	25 × 20 in.	50 lb.	**7/6**	**£6 15 0**
22½ × 17½ in.	80 lb.	**11/9**	**10 16 0**	25 × 20 in.	100 lb.	**15/–**	**13 10 0**

PHOTOGRAPHIC PUBLICATIONS



A Book no Photographer should be without

PROGRESSIVE PHOTOGRAPHY (o)

By W. L. F. Wastell, F.R.P.S

An up-to-date photographic book that will appeal to every photographer. It can be confidently referred to by the expert, and it is by far the best guide for those who desire to go further than mere snapshotting. The illustrations are a noteworthy feature. 162 pages **2/6**

THE GENTLE ART OF PHOTOGRAPHY (L)

By K. of C. (Knight of the Camera)

An interesting non-technical text book that is written like a novel, and quite as interesting. It tells why and how to go in for photography, what to do with photographs, and how to make the hobby pay for itself **1/6**

PHOTO MINIATURE LIBRARY (L)

Handbooks written in a simple and concise manner by practical workers.

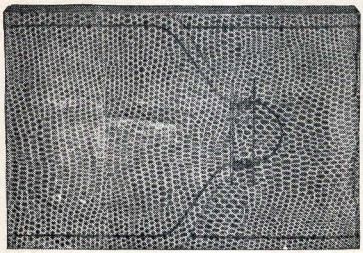
No.	
185	Kallitype and Allied Processes.
186	Bromoil Prints.
188	The Exhibition Print.
191	Out-of-doors with a Hand Camera.
192	What Pictorialism is.
194	Photographic Failures.
195	Portraiture.
197	Profitable Photography
198	High-Speed Photography.
199	Camera Holidays.
200	Handling and Mixing Photographic Chemicals Part 1.
201	Do. do. do. do. Part 2.
202	Chemical Dictionary for Photographers.

1/8 each

BOOKS ON PHOTOGRAPHY

Amateur Cinematography	Wheeler	6/-	(G)
Camera Lenses	A. Lockett	2/6	(G)
Camera Work	Crabtree	1/6	(G)
Colour Photography	Wheeler	12/6	(E)
Child Photography	Wells	1/-	(G)
Complete Photographer	R. Childe Bayley	15/-	(G)
Complete Press Photographer	B. R. Bell	6/-	(G)
Dictionary of Photography	Wall	10/6	(G)
Enlarging	Glover	1/-	(G)
Flashlight	J. J. Curtis	1/-	(G)
Free-Lance Journalism with a Camera	R. H. Mallinson	2/6	(G)
From Landscape to Studio	A. Belfield	12/6	(G)
Hand Cameras	R. Childe Bayley	3/-	(O)
Ilford Manual	C. H. Bothamley	1/6	(L)
Lantern Slides	Glover	1/-	(G)
Modern Photography for Amateurs	J. Eaton Fearn	1/6	(G)
Nature Photography Simplified	Mortimer Batten	6d.	(G)
Panchromatism	Ilford Ltd.	6d.	(L)
Perfect Negatives	Glover	1/-	(G)
Photography Made Easy	R. Childe Bayley	2/6	(O)
Photographic Chemicals and Chemistry	Bentley and Southwirth	3/6	(G)
Photographic Enlarging	R. Childe Bayley	3/-	(O)
Photographic Instructor	Pigg	4/-	(G)
Photographic Rendering in Colour and Monochrome	Glover	1/-	(G)
Photographic Techniques	Hibbert	2/6	(G)
Photographs for Papers	Everard	2/6	(G)
Photography as a Business	A. G. Willis	5/-	(G)
Photography Simplified	P. R. Salmon	1/6	(G)
Print Perfection	Glover	1/-	(G)
Retouching and Finishing	Adamson	4/-	(G)
Watkins' Manual	A. Watkins	1/3	(O)
Wellington Handbook		1/-	(O)

ENSIGN SLIP-IN ALBUMS



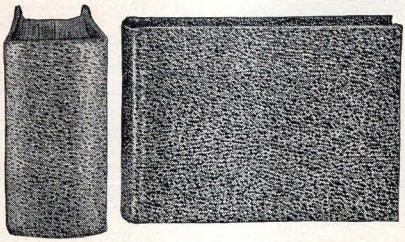
THE POCHETTE

A real pocket album for the favourite prints; stout slotted leaves, bound in leatherette, with shaped tuck-in flap. A marvel in value!

Style I.—Brown lizard pattern cover with brown leaves.

Style II.—Dark blue morocco pattern cover with grey leaves.

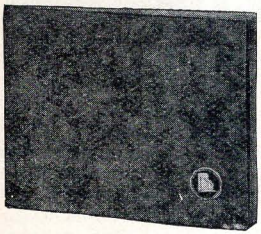
No.	Size of leaf	Prints at view	To hold	For prints	
2070	$3\frac{3}{4} \times 2\frac{3}{8}$	1	24	V.P.	**$2\frac{1}{2}$d.**
2071	$4\frac{1}{2} \times 3$	1	24	$3\frac{1}{2} \times 2\frac{1}{2}$	**3d.**
2072	$5\frac{1}{2} \times 3\frac{3}{8}$	1	24	$4\frac{1}{4} \times 2\frac{1}{2}$	**4d.**



THE COBHAM

A handy little album, opening perfectly flat; very strongly bound, stiff cover of imitation grey pigskin with stout grey leaves, double slotted, extra well guarded. Complete in box.

No.	Size of leaf	Prints at view	To hold	For prints	
2029	$4\frac{1}{2} \times 3\frac{1}{4}$	1	100	$3\frac{1}{2} \times 2\frac{1}{2}$	**1/3**
2050	$5\frac{1}{2} \times 3\frac{1}{2}$	1	100	$4\frac{1}{4} \times 2\frac{1}{2}$	**1/6**

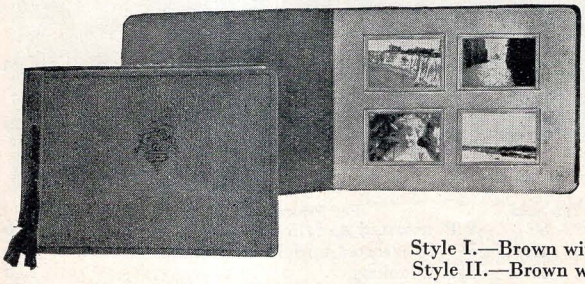


THE MARVEL

Cover of stout mottled flexible card with brightly coloured embossed seal.

Leaves to match covers with slip-in openings arranged upright and oblong, bound to allow for perfectly flat opening.

	Style I.—Brown.		Style II.—Grey		
No.	Size	No. of leaves	For prints	Capacity	
1955	10×8	4	V.P.	48, 6 on	**1/-**
1956	10×8	4	$3\frac{1}{2} \times 2\frac{1}{2}$	40, 5 ,,	**1/-**
1957	10×8	4	$4\frac{1}{4} \times 2\frac{1}{2}$	24, 3 ,,	**1/-**



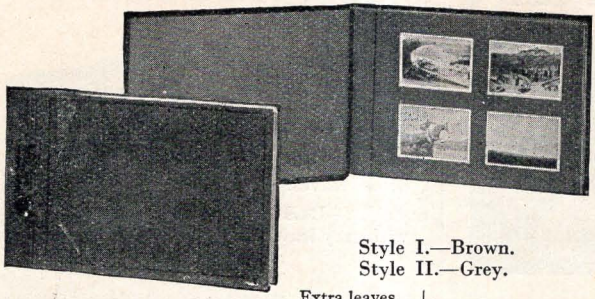
THE ALTON

Bound in flexible imitation crushed morocco with embossed device, round corners; the leaves have accurately cut openings, with embossed frames, separately hinged; tied with silk cord and tassel. Each separately enveloped.

Style I.—Brown with brown leaves.
Style II.—Brown with grey leaves.

No.	Size of leaf	No. of leaves	For prints	To hold	
2028	$10 \times 7\frac{1}{2}$	10	$3\frac{1}{2} \times 2\frac{1}{2}$	80, 4 on	**2/6**

ENSIGN SLIP-IN ALBUMS (O)



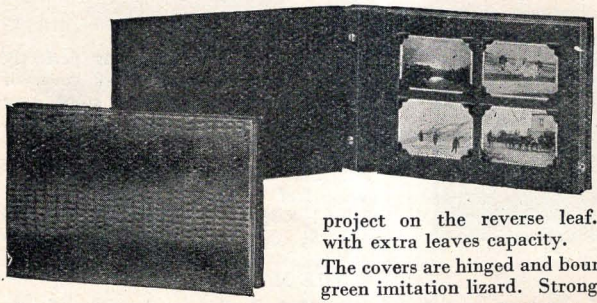
Style I.—Brown.
Style II.—Grey.

THE CAMERA CRAFT

Bound in stout boards, covered in embossed antique leather cloth, hinged leaves tied into the cover with art tape to match, opens perfectly flat. Wrapped in stout cartridge envelope.

No.	For prints	To hold		Extra leaves per doz.
1920	V.P.	64, 4 on	2/-	2/6
1921	$3\frac{1}{2} \times 2\frac{1}{2}$	64, 4 „	2/6	3/3

No.	For prints	To hold		Extra leaves per. doz.
1922	$4\frac{1}{4} \times 2\frac{1}{2}$	64, 4 on	3/-	3/9
1923	$3\frac{1}{2} \times 2\frac{1}{2}$	36, 2 „	2/-	2/6



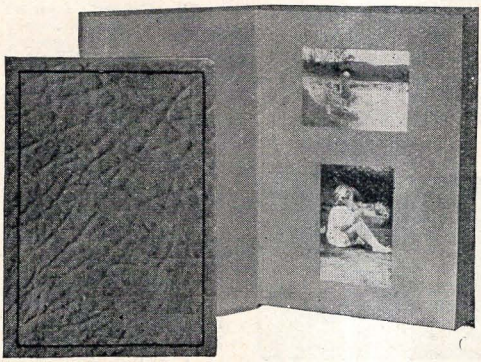
THE CORNER

Patent No. 278,533

Reduces the mounting of prints to absolute simplicity. Each leaf embossed with slotted corners. By gentle pressure the print slides into position; prints do not project on the reverse leaf. Built with loose leaves with extra leaves capacity.

The covers are hinged and bound in a beautiful brown and green imitation lizard. Strong cardboard box for storage.

No.	Size	Leaves	For Prints	Capacity	Style I.—Brown leaves.	Style II.—Grey leaves.	Extra leaves per doz.
2000	$9 \times 6\frac{3}{4}$	10	$3\frac{1}{2} \times 2\frac{1}{2}$	80	.. .. ..	5/-	3/6
2001	$12\frac{3}{4} \times 7\frac{1}{2}$	7	$4\frac{1}{4} \times 2\frac{1}{2}$	56	.. .. ..	5/-	5/6



THE THEYDON

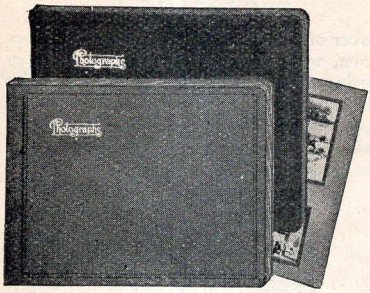
Fully bound in stiff boards, in a new shape, covered in material representing rough brown leather, impressed with line border and design. Matt flexible leaves with accurately stamped out openings, opens perfectly flat. Superlative value. Wrapped in cartridge envelope.

Style I.—Brown cover with brown leaves.

Style II.—Brown cover with grey leaves.

No.	Size of leaf	No. at view	To hold	For Prints	
2030	$7\frac{5}{8} \times 5\frac{3}{8}$	3	60	V.P. assorted upright and oblong	1/6
2031	„	2	40	$3\frac{1}{2} \times 2\frac{1}{2}$ assorted upright and oblong ..	1/6
2032	„	2	40	$4\frac{1}{4} \times 2\frac{1}{2}$ oblong	1/6
2033	„	2	40	$\frac{1}{2}$-plate oblong	1/6
2034	„	1	20	Postcard upright	1/6

ENSIGN SLIP-IN ALBUMS (O)



THE NEW STANDARD

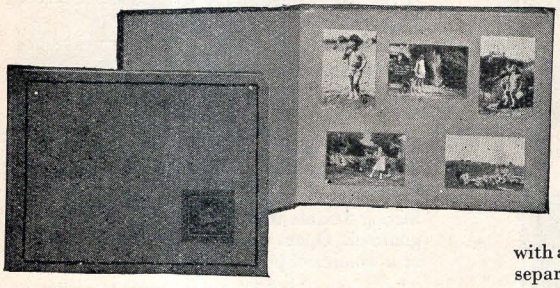
Fully bound in imitation smooth calf, rounded corners, blocked on side.

Leaves cloth hinged with printed rand to the cut-out openings. Gusset pocket at end for loose prints.

A low-priced quality album. Each in strong carton.

Style I.—Brown. Style II.—Grey.

No.	Size of Leaf	Leaves	For prints	To hold	
1986	$10\frac{1}{8} \times 8\frac{1}{8}$	9	$3\frac{1}{4} \times 2\frac{1}{4}$	90, 5 on	**3/6**
1987	$10\frac{1}{8} \times 8\frac{1}{8}$	9	$4\frac{1}{4} \times 2\frac{1}{2}$	54, 3 „	**3/6**



THE ARGOSY

A large capacity album at a low price. Stout cover with round corners, mottled tobacco brown covering, with neatly printed border and design.

Leaves of brown and grey, of well-matched tone, suitable for all classes of prints, with accurately cut openings. Each separately boxed.

Style I.—Brown cover and brown leaves. Style II.—Brown cover and grey leaves.

No.	Size of leaf	Leaves	For prints	To hold	
1866	$7\frac{1}{2} \times 10$	20	$3\frac{1}{2} \times 2\frac{1}{2}$	200, 5 on	**4/-**
1867	$7\frac{1}{2} \times 10\frac{7}{8}$	25	$4\frac{1}{2} \times 2\frac{1}{4}$	200, 4 „	**5/-**
1868	$9\frac{1}{4} \times 11\frac{1}{4}$	20	$4\frac{1}{4} \times 3\frac{1}{4}$	160, 4 „	**6/-**

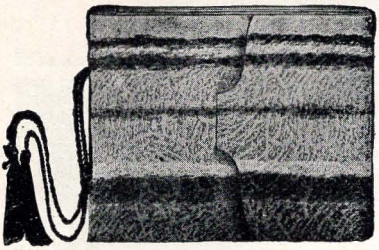
THE NEWMARKET

Bound in padded Pony-skin—a wonderfully realistic representation. The leaves of grey and brown material with embossed border around the openings, bound together with a handsome silk cord threaded through eyletted holes. Gusseted pocket at end for loose prints. Separately boxed.

Style I.—Brown cover with brown leaves.
Style II.—Brown cover with grey leaves.

No.	Size of leaf	No. of leaves	No. of prints at view	To hold	
2037	$9\frac{7}{8} \times 7\frac{3}{4}$	10	6	120 V.P. size	**5/-**
2038	$9\frac{7}{8} \times 7\frac{3}{4}$	10	5	100 $3\frac{1}{2} \times 2\frac{1}{2}$	**5/-**
2039	$11 \times 7\frac{1}{2}$	10	4	80 $4\frac{1}{4} \times 2\frac{1}{2}$	**5/-**

SLIP-IN AND PASTE-ON ALBUMS

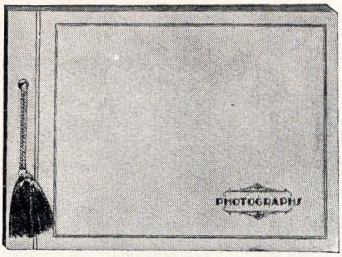


THE RADIANT

The cover of flexible striped material in tones of brown, with flexible leaves; gusseted flap for closing and to keep prints flat and the leaves clean. Tied with silk cord.

Style I.—Brown leaves.
Style II.—Grey leaves.

No.	Size of leaf.	Leaves.	
2047	6 × 5	12	6d.
2048	7½ × 5	12	9d.
2049	9 × 7¾	12	1/-

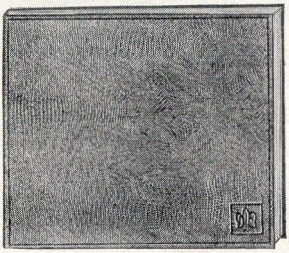


THE JAMBOREE

Extra stiff Morocco-grained cover with neat printed title and border. Twenty antique finished flexible hinged leaves bound into cover with dainty silk cord and tassel. Holes in cover are eyeletted for strength. Startling value.

Style I.—Brown. Style II.—Grey.

No. 2046 .. Size 11 × 8 .. 20 leaves .. 1/-



THE WALDEN

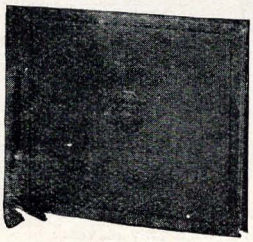
Bound in stiff boards cut flush, covered in imitation grained hide material, with design impressed upon front.

Strong flexible leaves carefully bound and well guarded. Opens perfectly flat. Large capacity at a wonderful price.

Album contained in strong gusseted wallet.

Style I.—Brown leaves. Style II.—Grey leaves

No.	Size of leaf.	Capacity.	
2035	10 × 7½	50 leaves	2/-
2036	12 × 9⅞	50 „	2/6



THE ELMHURST

Beautiful stout flexible art covers with embossed device, fine quality stout flexible hinged leaves to match, removable, tied with silk cord. Separately enveloped.

Style I.—Tobacco brown. Style II.—Grey.

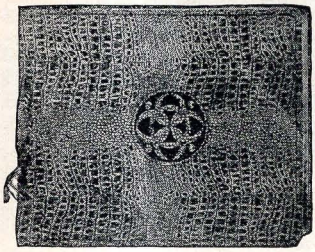
No.	Size	Leaves	
491	6½ × 4¾	16	1/-
492	8 × 6½	16	1/3
493	9½ × 8	16	1/6
494	12 × 10	16	2/-

Note the quality and capacity of this series.

THE NUBIAN. As Elmhurst, but with fine quality black leaves and cover.

No.	Size.	Leaves.	
1470	8 × 6½	16	1/3
1471	9½ × 8	16	1/6
1472	12 × 10	16	2/-

ENSIGN PASTE-ON ALBUMS (O)

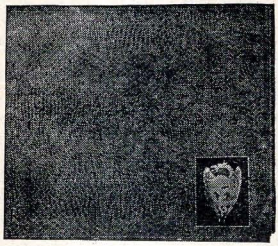


THE ARAGON

Polished morocco pattern leatherette cover, with highly embossed design in colour, round corners, stout flexible removable hinged leaves tied with silk cord. Separately enveloped.

Style I.—Dark brown cover with brown leaves.
Style II.—Grey cover with grey leaves.

No.	Size of leaf.	No. of leaves.	
2020	10×8	16	2/–
2021	12×9	16	2/6

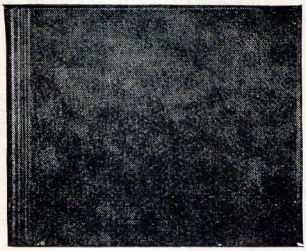


THE ROCHFORT

Full bound, stout cover in fine grained imitation lizard with embossed design, thick antique flexible leaves, well stitched and guarded. Separately boxed.

Style I.—Brown cover with brown leaves.
Style II.—Brown cover with grey leaves.

No.	Size of leaf.	No. of leaves.	
2023	10×8	18	3/–
2024	12×10	18	4/–



THE ROYSTON

Bound in brown imitation mottled antique leather with neatly impressed border. Stout antique flexible leaves built into album on nickel posts for removal at will. Each leaf separately hinged and well guarded. Boxed singly. Small pocket at end to take loose prints.

Style I.—Brown with brown leaves.
Style II.—Brown with grey leaves.

No.	Size of leaf.	No. of leaves.	
2025	10×8	24	4/6
2026	12×10	24	5/6

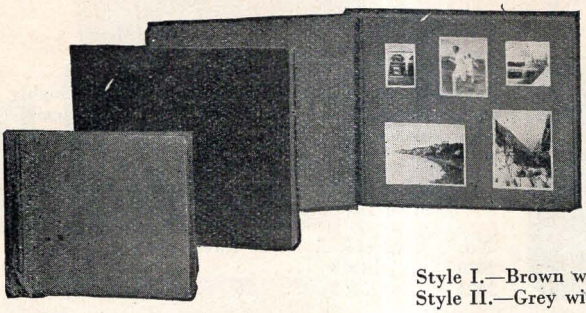
THE SEYMOUR

Stout cover full bound in fancy figured leatherette, round corners, finished with impressed border and design. Light-weight flexible leaf, stitched and guarded, to open perfectly flat, with pocket at end for loose prints. Each separately boxed.

Brown with black leaves only.

No.	Size of leaf.	No. of leaves.	
2027	10×7½	50	4/–

ENSIGN PASTE-ON ALBUMS (o)



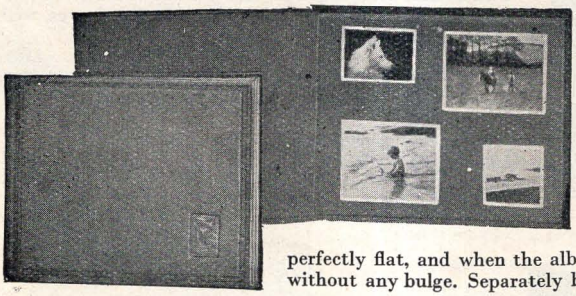
THE AUSTRAL

Fully bound in stiff boards crocodile embossed, stout removable flexible leaves, well hinged and guarded, tied with rich silk cord and tassel.

Exceptional value.
Separately boxed.

Style I.—Brown with brown leaves.
Style II.—Grey with grey leaves.

No.	Size of leaf.	Leaves.	
2015	10×8	24	2/6
2016	12×10	24	3/6



THE CALTHORP

Cover of stout boards, of unique grey-brown material, with neatly impressed coloured design and border.

Leaves of stout flexible card, very securely bound; by a new process each leaf is neatly guarded so that the album opens perfectly flat, and when the album is full of prints it closes without any bulge. Separately boxed.

Style I.—Brown leaves. Style II.—Grey leaves.

No.	Size of leaf.	Leaves.	
1885	10×8	30	4/6
1886	12×10	30	5/6

THE IMPRESSIONS

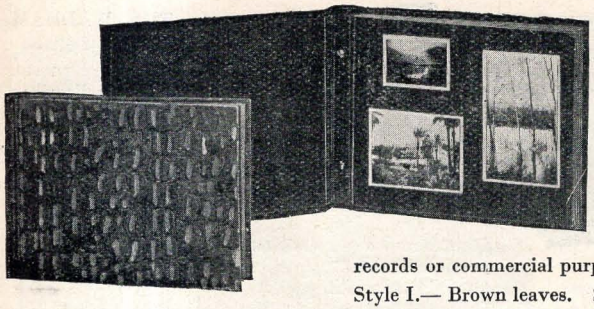
A break-away from the usual slip-in and paste-on Album. Bound with grey cloth back and paper sides, gilt impressed title "Impressions," and a small view in a brown tone.

Leaves of stout grey flexible material, well guarded to allow for expansion, each leaf—both slip-in and paste-on—being printed with a chalk border effect, with space for titling under prints if desired.

A small pocket is fitted at the end to carry loose prints. Boxed separately.

	No.	Size of leaf.	For prints.	Leaves.	To hold	
Paste-on.	1887	$9\frac{3}{4}\times7\frac{1}{2}$	$3\frac{1}{2}\times2\frac{1}{2}$	20, 4 on	160	5/-
Slip-in.	1888	$9\frac{3}{4}\times7\frac{1}{2}$	$3\frac{1}{2}\times2\frac{1}{2}$	20, 4 on	160	6/-

ENSIGN PASTE-ON ALBUMS (O)



THE PYTHON

Loose-leaf of black and brown with semi-flexible cover of heavy snake-grained black-brown material. The leaves are threaded on metal posts attached to heavy inside hinges without outside protrusion. Ideal for records or commercial purposes. Separately boxed.

Style I.— Brown leaves. Style II.—Black leaves

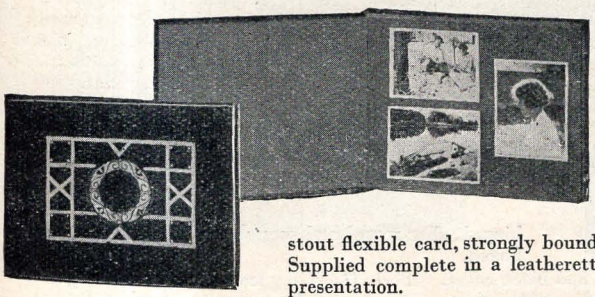
No.	Size of leaf	Leaves		Extra leaves per doz.
1995	10×8	50	5/-	1/-
1996	12×10	50	6/6	1/6
1997	15×12	50	10/6	2/-

THE DURBAN

Built like a loose-leaf ledger. Heavy-weight cover with bevelled edge and round corners, bound in rich quality black cloth with relief design embossed on side. The separately hinged, guarded stout matt black card leaves engage on metal posts with nickel bar fixed across to keep them in position. Strongly boxed.

Black only.

No.	Size of leaf	Leaves		Extra leaves per doz.
1600	8×6	36	6/-	1/6
1601	10×8	36	8/-	2/8
1602	12×10	36	10/6	3/-
1603	15×12	36	15/-	5/-



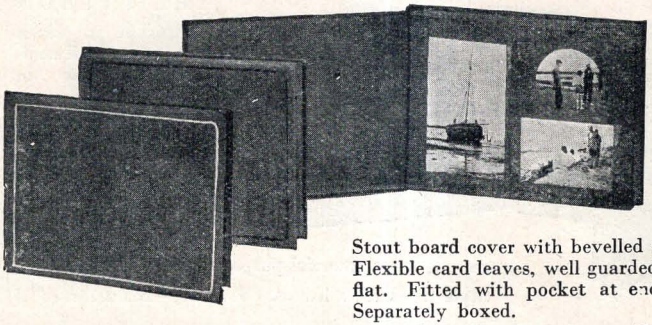
THE PERSIAN

Bound in an entirely new fabric known as "Atholeather," with the appearance and feeling of real leather; embossed with a beautiful plain and gold classical design. Leaves of dark brown stout flexible card, strongly bound and adequately guarded. Supplied complete in a leatherette covered hinged box for presentation.

Style I.—Brown cover with brown leaves.

No.	Size of leaf	Leaves	
2017	$9\frac{1}{2}\times7\frac{1}{2}$	30	7/6

ENSIGN PASTE-ON ALBUMS (O)



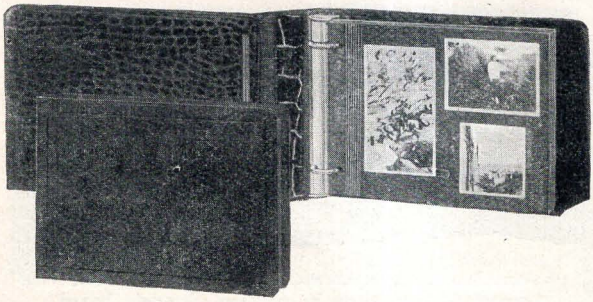
THE WADHAM

A de luxe Album, bound in a patent material of leather and rubber, with extraordinary wearing properties, having crushed morocco grained surface.

Stout board cover with bevelled edges and gilt fillet. Flexible card leaves, well guarded, opening perfectly flat. Fitted with pocket at end for spare prints. Separately boxed.

Style I.—Cameo blue with grey leaves. Style II.—Deep fawn with brown leaves.

No.	Size of leaf.	No. of leaves.	
2018	$9\frac{3}{4} \times 7\frac{1}{2}$	30	**7/6**
2019	12×10	30	**10/6**



THE PERPETUAL

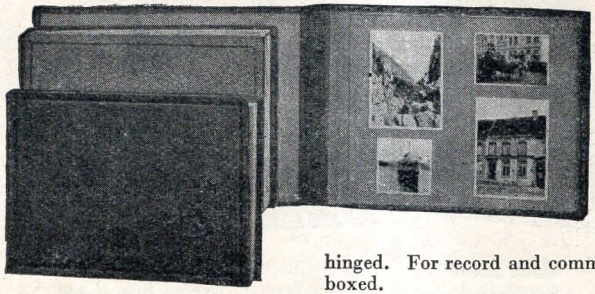
Stout, real flexible leather covers of splendid wearing quality. Strongly built with patent automatic ring binder carrier to hold the 30 scored and slotted antique card leaves. A roomy pocket is provided for spare prints. Separately boxed.

Style A.—Crocodile grained hide and brown leaves.

No.	Size of leaf.	Leaves.		Extra leaves per doz.
1930A	$8 \times 5\frac{7}{8}$	30	**12/6**	**1/-**
1931A	$10 \times 7\frac{5}{8}$	30	**16/6**	**1/6**
1932A	$12 \times 9\frac{1}{4}$	30	**21/-**	**2/-**

Style B.—Fine black morocco and black leaves.

No.	Size of leaf.	Leaves.		Extra leaves per doz.
1930B	$8 \times 5\frac{7}{8}$	30	**16/6**	**1/-**
1931B	$10 \times 7\frac{5}{8}$	30	**21/-**	**1/6**
1932B	$12 \times 9\frac{1}{4}$	30	**26/6**	**2/-**



THE RECORD

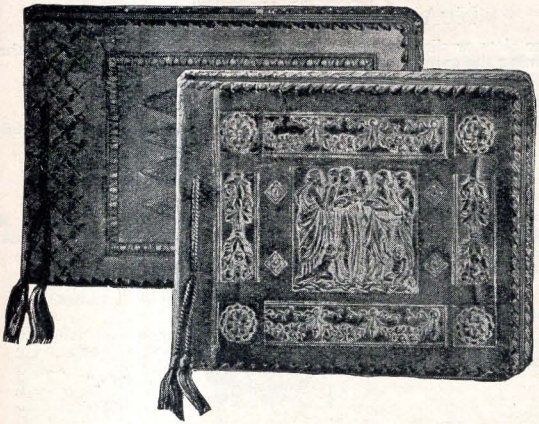
Elegantly and substantially made, with removable leaves on nickel quick-thread posts, opening perfectly flat.

Cover of extra stout boards with bevelled edges and round corners, covered in Pluvuisine. Leaves of 6-sheet best quality cardboard, linen hinged. For record and commercial purposes. Strongly boxed.

Style I.—Black leaves and black cover. Style II.—Grey leaves and grey cover.

No.	Size of leaf.	Leaves.	
1875	10×8	24	**12/6**
1876	12×10	24	**16/6**
1877	15×12	24	**25/-**

ENSIGN PASTE-ON ALBUMS (O)



THE STRESA

An inexpensive type of Italian work made of fine leather composition with laced edges, of medium brown material. Embossed with beautifully modelled design in high relief, insides lined with moire poplin. Leaves of best British-made flexible card, tied with elegant silk cord. Boxed separately.

Style I.—Brown leaves.
Style II.—Grey leaves.
Style III.—Black leaves.

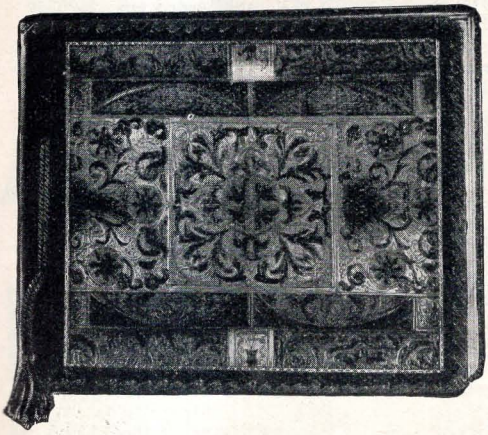
No.	Size.	Leaves.	
2044	$9\frac{3}{4} \times 7\frac{7}{8}$	18	**10/6**
2045	12×9	18	**14/-**

THE FLORENTINE

The cover of best brown flexible leather with laced edges. The finishing an example of the fine modelling and craftsmanship for which the Italians are noted. Fitted with first-class British-made flexible hinged leaves bound together with elegant corded silk with tassels. The whole album forms an article of artistic merit and real utility. Boxed separately.

Style I.—Brown leaves. Style II.—Grey leaves. Style III.—Black leaves.

No.	Sight size of leaf.	No. of leaves.	
2040	$9\frac{3}{4} \times 7\frac{7}{8}$	18	**12/6**
2041	12×10	18	**16/6**



THE REGGIO

Beautifully embossed brown leather flexible cover, delicately coloured in tones of brown and gold, made by the best Italian craftsmen. The edges of the cover are laced with leather to match. The fine quality British flexible cards are bound in the cover with best quality silk cord with tassels, making a most elegant album.

Style I.—Brown leaves.
Style II.—Grey leaves.
Style III.—Black leaves.

No.	Sight size of leaf.	No. of leaves.	
2042	$9\frac{3}{4} \times 7\frac{7}{8}$	18	**15/-**
2043	12×10	18	**20/-**

PASSE-PARTOUT SUNDRIES (O•)

Actual size.

NuAce Mounting Corners

There are no slots or slits. A NuAce corner is secured to each corner of the print by turning the corners and damping them.
You then moisten the four corners of print and gently press into album.

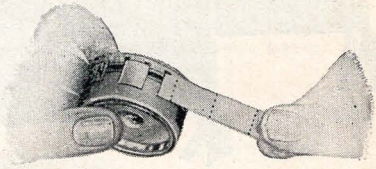
Style—I Brown, II Grey, III White, IV Black, V Gilt.

Per packet of 100 Corners (Gilt 50 only) .. .. **6d.**

ENSIGN MOUNTING STAMPS

A clean and quick method of print mounting. A stamp damped on one side is placed in each corner of back of print, then the other side of stamp is damped and pressed into contact of album or mount.

The adhesive used will secure thin or thick paper or card perfectly flat.



REELS. 480 perforated stamps on metal-ended spools .. .. **6d.**

PADS. 495 perforated stamps in sheets of 45 **4½d.**

ENSIGN PASSE-PARTOUT BINDING

A British Passe-Partout Binding in a wide range of selected colourings, grains and shades. In 12-yard reels ⅞ in. wide; heavily coated with permanently adhesive binder cement.

Matt Surface

No. 2	Silver grey.	No. 13	Sepia brown.
,, 9	Dark brown.	,, 14	Mahogany brown.
,, 10	Sage green.	,, 15	Very dark grey.
,, 11	Myrtle green.	S	Plain gold (6 yds. only).
,, 12	Matt black.		
,, 12A	Bright black.		

Crocodile Grained Surface

No. 20	Black.	No. 25	Light grey.
,, 21	Maroon.	,, 26	Suede grey.
,, 22	Green.	,, 27	Suede green.
,, 23	Brown.	,, 28	Suede brown.
,, 24	Dark grey.	,, 29	Suede blue.

Pebbled Leather Grained Surface

A White.	E Brown.	L Maroon.	R Silver (6 yds. only).
C French grey.	F Sepia.	M Saxe blue.	T Gold (6 yds. only).
D Black.	H Green.	N Indigo.	U Dark Maroon.

12-YARD REELS (except gold and silver—6 yds.) .. .. **6d.**

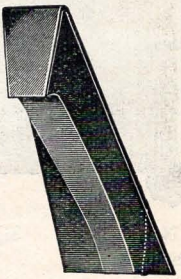
Write for special colour chart of Ensign Passe-Partout Binding.

EVER-READY STRUT

Strong card, with stop which prevents slipping. Gummed for fixing to frame or mount.

Strong card, with stop which prevents slipping. Gummed for fixing to frame or mount.

No.	Length	For mounts up to	Per doz.
1	4 in.	P.C.	**1/9**
2	5½ ,,	½-pl.	**2/3**
3	8 ,,	1/1 pl.	**3/–**



Mount Strut.

HANGERS

For instant use, easily affixed.

BRASS RINGS AND CLIPS.
No. 1. ½ in. dia. .. 18 for **6d.** No. 2. ¾ in. dia. .. 18 for **1/–**
ADHESIVE CLOTH, ready gummed.
No. 3. 1¼ in... .. 15 for **6d.** No. 4. 1½ in. .. 15 for **9d.**

ENSIGN PASSE-PARTOUT FRAMES (O)

THE BURLINGTON

The black glazed binding is printed with a neat gilt Greek pattern. The back is simplified by means of a single hinge and adhesive fixture which can be easily removed for replacement of prints. A very stout flat self-erecting strut is fitted, in addition to the black silk hanging cord. The pure white matt surface mount is neatly plate marked.

No.	For pictures.		Size.	
6526	3¼ × 2¼	upright	8 × 5	1/3
6527	3¼ × 2¾	oblong	6½ × 5½	1/3
6524	4¼ × 2½	upright	9 × 5	1/6
6525	4¼ × 2½	oblong	7½ × 7	1/6
6522	¼-plate	upright	9 × 5½	1/6
6523	¼-plate	oblong	7½ × 7	1/6
6520	Postcard	upright	10 × 6	1/6
6521	Postcard	oblong	8½ × 7½	1/6
6528	½-plate	upright	10 × 7	1/9
6529	½-plate	oblong	9 × 7	1/9
6530	1/1-plate	upright	11 × 8	2/9
6531	1/1-plate	oblong	11 × 9	2/9

THE ARTIST

There is no form of mounting more dainty or artistic than the glass passe-partout frame, where neatness and accuracy of the binding is essential. They adapt themselves to photographs, etchings, or water colours. The dustproof self-sealing back is a feature that is appreciated by all. **All sizes up to 1/1-plate now fitted with patent strong leather board strut and silk hanger.**

Style I.—Black binding and white mount.
Style III.—Oak binding and cream mount.

Upright.				Oblong.			
No.	For prints	Glass size		No.	For prints	Glass size	
6318	V.P.	7 × 4	9d.	6319	V.P.	6 × 5	9d.
6326	3½ × 2½	8 × 5	1/–	6327	3½ × 2½	8 × 6	1/–
6324	4¼ × 2½	9 × 5	1/3	6325	4¼ × 2½	9 × 7	1/3
6322	4¼ × 3¼	10 × 6	1/3	6323	4¼ × 3¼	9 × 7	1/3
6320	Postcard	10 × 6	1/6	6321	Postcard	10 × 8	1/6
6328	½-plate	10 × 7	1/6	6329	½-plate	9 × 7	1/6
6330	1/1-plate	11 × 8	2/6	6331	1/1-plate	11 × 9	2/6
*6338	10 × 8	13 × 11	4/–	6338/o	10 × 8	13 × 11	4/–

*Style I. only.

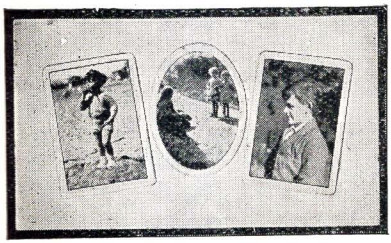
THE KWICKMOUNT Patent 136,082-1919

For the "close-up" framing of any type of print. Made slightly larger than the standard size print, with glass front, stout card back and side. The picture is placed in contact with the glass, sides and back folded inwards, and the whole secured by the sealing of the top gummed flap.—**Now fitted with reversible strut making same available for upright or oblong prints.**

Style I.—Brown. Style II.—Grey. Style III.—Black.

No.	For prints	Glass size.		No.	For Prints	Glass size	
6150	V.P.	2¾ × 1¾	3d.	6153	5½ × 3½	5½ × 3½	6½d.
6151	3¼ × 2½	3½ × 2½	4½d.	6153a	½-plate	6½ × 4¾	10½d.
6152	4¼ × 3¼	4¼ × 3¼	5½d.	6154	1/1-plate	8 × 6	1/3
6152a	4¼ × 2½	4½ × 2¾	5½d.	6155	—	11 × 9	2/6

*Upright and oblong—not with reversible strut.



THE MULTIPLE ARTIST

For effective grouping of three or six prints in one frame. With matt mount, self-sealing dust-proof back and silk cord hanger.

Style I.—Black binding and White mount.
Style III.—Oak binding and Cream mount.

For 3 prints (2 upright openings and 1 oval upright in centre).

No.	Print size.	Glass size.	
6332	V.P.	8 × 5	1/3
6333	3¼ × 2¼	10 × 6	1/6
6334	4¼ × 2½	11 × 7	1/6
*6337	5½ × 3½	13½ × 8	2/6

For 6 prints (upright or oblong).

*6335	V.P.	11 × 6	3/–

For 6 prints (reversible 4 upright and 2 oblong or 4 oblong and 2 upright).

*6336	3¼ × 2¼	11 × 9	3/6

*Style I. only.

ENSIGN PHOTO FRAMES

(O

THE ENSIGN

Made for contact prints or enlargements—portraits or landscapes, too.

It is covered in an attractively designed figured paper, and has an unbreakable front.

Its construction allows the print to be slipped quickly into position, and its strut makes it adaptable for upright or oblong pictures. Each frame is provided with a stout art paper envelope.

Style I.—Black and gold. Style II.—Black and grey.

No.	For pictures.	Outside measurements.	
E22	$3\frac{1}{2} \times 2\frac{1}{2}$	$3\frac{3}{4} \times 2\frac{3}{4}$	6d.
E23	$4\frac{1}{4} \times 2\frac{1}{2}$	$4\frac{3}{4} \times 3$	$7\frac{1}{2}$d.
E24	Postcard	$5\frac{3}{8} \times 3\frac{3}{8}$	9d.
E25	$\frac{1}{2}$-plate	7×5	1/-
E26	1/1 plate ($8\frac{1}{2} \times 6\frac{1}{2}$)	$9\frac{1}{2} \times 7\frac{1}{2}$	1/6
E27	11×8	$11\frac{1}{8} \times 8\frac{1}{8}$	2/-

THE REGENT
Patent 242,845

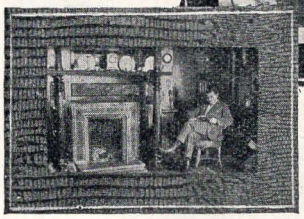
Covered in fine imitation of crocodile and lizard, decorated with fine gilt line, fitted with unbreakable transparent front by a patent process, quickly opened for insertion of photograph by means of safety catch fitted with reversible collapsible strut for upright or oblong pictures.

Style I.—Blue crocodile.
Style II.—Brown crocodile.
Style III.—Natural lizard.

No.	For pictures.	
R15	$3\frac{1}{4} \times 2\frac{1}{4}$	1/-
R16	$4\frac{1}{2} \times 2\frac{1}{2}$	1/3
R20	Postcard	1/6
R21	$\frac{1}{2}$-plate	2/-

Style III

Style I



Style II

THE SAFETY (Unbreakable)
Patent 242,845

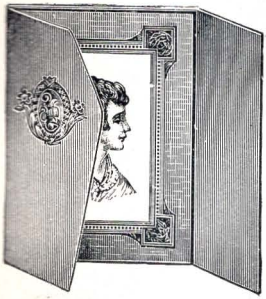
A passe-partout that can be sent through the post without special packing.

The unique method of binding the black-diced material without a join does away with any cockling of the clear celluloid front.

The white matt opening has a neat plate mark surround.
Photographs are quickly inserted by means of the self-sealing back—simply moisten and stick down.
The patent self-locking strut is convertible for oblong or upright pictures. Black only.

No.	For prints.	Outside size.	
6428	$3\frac{1}{4} \times 2\frac{1}{4}$	5×4	9d.
6430	Postcard	$6\frac{3}{4} \times 4\frac{3}{4}$	1/-
6431	$\frac{1}{2}$-plate	$8 \times 6\frac{1}{2}$	1/6

ENSIGN MOUNTS

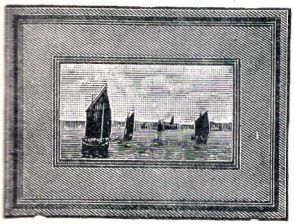


ST. BRYDE (Folder)

Adaptable for greeting cards; stout art paper, with outside embossed design, the inside slip having neat embossed border.

Style I.—Brown. Style II.—Grey.

No.	For Prints	Per 100
6301	V.P.	6/-
6302	$3\frac{1}{2} \times 2\frac{1}{2}$	8/-
6303	$4\frac{1}{2} \times 2\frac{1}{2}$	8/6
6398	$\frac{1}{4}$-plate	8/6
6399	Postcard	10/6



CHELMSFORD (Slip-in)

The very delicate shade of grey and brown on the front in conjunction with the neutral tinted design, make a most charming combination.

Style I.—Brown. Style II.—Grey.

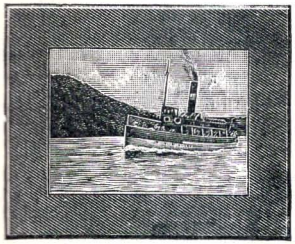
No.	For Prints	Per 100
6206V	V.P.	6/6
6206C	$3\frac{1}{2} \times 2\frac{1}{2}$	7/6
6206E	$4\frac{1}{4} \times 2\frac{1}{2}$	8/6
6206G	$\frac{1}{4}$-plate	9/6

ORMOND (Slip-in)

The pure white underlaid border around opening in conjunction with rough surfaced surrounding card produces a really elegant combination with any class of print.

Style II.—Brown. Style IV.—Nickel Grey.

No.	For Prints	Per 100
4711V	V.P.	8/-
4712C	$3\frac{1}{4} \times 2\frac{1}{4}$	10/-
4713E	$4\frac{1}{4} \times 2\frac{1}{2}$	12/-
4714G	$\frac{1}{4}$-plate	12/6
4715J	Postcard	15/-
4715L	$\frac{1}{2}$-plate	21/-

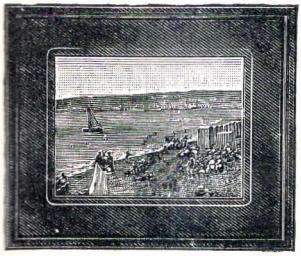


METROPOLE (Paste-on)

For framing or exhibition and multiple mounting, this stout bevelled matt card readily adapts itself to many purposes.

Scotch Grey 05. Brown 07.

No.	Outside Size	Per 100
4047	5× 4	6/6
4048	7× 5	10/6
4049	9× 7	16/-
4049A	10× 8	18/-
4049B	12×10	25/-
4049C	15×12	40/-
4049D	18×14	60/-



LATIMER (Paste-on)

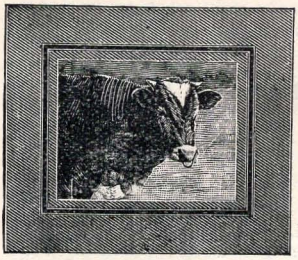
The neatly impressed plate mark with round corners in combination with colour tinted borders makes an attractive mount.

Style I.—Brown. Style II.—Grey.

No.	For Prints	Per 100
6201V	V.P.	5/-
6201C	$3\frac{1}{2} \times 2\frac{1}{2}$	5/6
6201E	$4\frac{1}{4} \times 2\frac{1}{2}$	6/-
6201G	$\frac{1}{4}$-plate	7/-
6201J2	$4\frac{7}{8} \times 2\frac{7}{8}$	8/-
6201J	Postcard	8/-
6201L	$\frac{1}{2}$-plate	12/6

ENSIGN MOUNTS

(O)



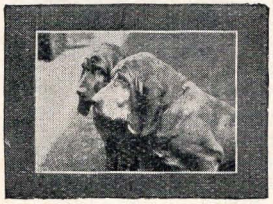
CHISHOLM (Paste-on)

Tastefully printed with triple line around the plate mark, combines to form an elegant mount for any type of prints. Style I.—Brown. Style II.—Grey.

No.	For Prints	Per 100
6003C	$3\frac{1}{2} \times 2\frac{1}{2}$	6/6
6003G	$\frac{1}{4}$-plate	8/-
6003J	Postcard	9/6
6003L	$\frac{1}{2}$-plate	12/6
6003M	1/1-plate	17/-

FEATHERTONE

There is a refreshing touch in the "Feathertone" mount. A special process is employed in the making of these mounts. Wonderful effects can be obtained by the contrasty note of the colours introduced. Each mount has a semi-matt surface and a contrasting coloured feather edge. It may be used either for direct mounting or for forming a paste-down mount on another card.



Cream, with brown feather edge
Brown „ red „ „
White „ blue „ „
Grey „ green „ „

		Per pkt. of 1 colour
8× 6	8 sheets	1/-
10× 8	8 „	1/6
12×10	8 „	2/6

ENSIGN MOUNTINGS

ENSIGN ART BOARDS AND TINTS

An assortment of cards, flexible cards and mounting tints in various colours.

Size		Per packet
7× 5	16 boards and tints	1/-
10× 8	12 „ „	1/-
12×10	8 „ „	1/-

OSIRIS*

In white and seven shades of cream, grey and brown, with antique, crash and ripple finishes.

Size						
$20\frac{1}{2} \times 25$	Thin	12 sheets	3/-	144 sheets	£1 4 0
	Thick	12 „	4/6	144 „	£2 2 0

"CLUB PHOTOGRAPHER" MOUNTING BOARDS

Flexible linen-faced mounts in the standard sizes accepted by exhibition selection committees. In packets of 12.

	Style I.—Fawn with Cream Back.			Style II.—Grey with White Back	
Size	10×8	12×10	15×12	$20 \times 15\frac{1}{2}$	24×19
Per packet	1/6	2/-	3/-	5/6	10/-

ENSIGN*

In six varying shades of brown and grey, with linen-grained surfaces.

Nos.	Size					
203-210	20×25	Thin	12 sheets	3/-	144 sheets	£1 7 6
223-230	20×25	Thick	12 „	5/-	144 „	£2 8 0

NEW CASPIAN*

Stout art boards in five colour combinations, each colour being lined on the back with a different shade. Both linen-grained sides can be used.

No.	One side	Reverse	No.	One side	Reverse
025	Fawn	Cream	41	Grey	White
49	Brown	Sepia	47	Nickel Grey	Mist Grey
25	Dark Brown	Havannah			

Size 31×25 12 sheets 9/6 144 sheets £5 0 0 1,000 sheets £33 10 0

*Sample Sets on application

72 negatives in every bottle—

One bottle of "Azol" will develop at least seventy-two quarter-plates and get the best out of every one. "Azol" gives a new meaning to amateur photography —it is so easy to use and so satisfactory that work with it is a real pleasure. "Azol" is economical, highly concentrated and highly efficient.

"Azol" Time and Temperature Development Tables enclosed with each bottle ensure accuracy in development.

AZOL

THE ACTIVE DEVELOPER

A powerful liquid developer for all makes of

PLATES, FILMS, BROMIDE AND GASLIGHT PAPERS

3-oz. bottle makes 75 ounces developer.

Price 2/- each

Manufactured by

JOHNSON & SONS

MANUFACTURING CHEMISTS LTD

HENDON, LONDON, N.W.4

JOHNSON'S CHEMICALS

AZOL—THE CORRECT DEVELOPER (o)

A highly concentrated liquid of great power, suitable for all purposes. The developer that has simple and accurate time and temperature tables. Requires the addition of water only.

3 oz. bottle, to make 75 ozs. .. **2/–** .. 8 oz. .. **4/–** .. 16 oz. .. **7/–**

AMIDOL-JOHNSON'S* (N)

Of exceptionally high quality and possesses distinctive properties that make it the developer for Bromide paper.

10 gramme, **1/–**; 1 oz., **2/–**; 4 oz., **5/–**; 8 oz., **9/–**; 1 lb., **16/8**

METOL-JOHNSON'S* (N)

Can be used in any published Metol formulæ. either as a single developer or combined with Hydroquinone or Pyro.

10 gramme, **1/3**; 1 oz., **2/6**; 4 oz., **5/6**; 8 oz., **10/6**; 1 lb. **20/–**

HYDROQUINONE-JOHNSON'S* (N)

Gives a clean, powerful solution, splendid for lantern plates. Hydroquinone when combined with Metol-Johnson's gives the most efficient developer for plates and papers.

1 oz., **1/3** .. .. 1 lb., **8/6**

ACID PYROGALLIC JOHNSON'S* (N)

(Pure Crystals) .. .. 1 oz., **1/8**; 1 lb., **14/6**

JOHNSON'S PACKETS (O*)

Developers, etc.

Amidol, each packet makes 4 to 10 oz. .. .. Box of 6 packets, **2/–**

Metol-Quinol (10 oz.), Hydroquinone (8 oz.), Gaslight (6 oz.), Pyro-Metol (4 oz.), Pyro-Soda (8 oz.), or Gold Toning and Fixing (4 oz.)

Box of 6 packets, **1/6**

TONING PACTUMS

(5 oz. packets).

Blue, Green, Red or Sepia.. .. .. **3/–** each

JOHNSON'S SCALOIDS (o)

Compressed Tablets in air-tight glass tubes, accurate and easily dissolved. Vedol, Amidol, Gaslight, Hydroquinone, Metol-Quinol, Metol, Pyro-Metol or Pyro-Soda per box **1/6**

Gold Toning and Fixing or Intensifier (redevelop.) .. .. „ **2/–**

Reducers, Hypo Fixing or Acid Fixing .. .. „ **1/–**

JOHNSON'S DEVELOPERS (o)

One Solution, for Plates, Films and Papers.

4 oz bottle to make 28 oz., **1/–**. 8 oz. bottle to make 56 oz. **1/9**

Two Solution. In bottles. Pyro-Soda. Metol-Quinol, Pyro-Metol Hydroquinone.

In 2-oz. pairs making 1 pint, **1/6**. In 4-oz. pairs making 2 pints .. **2/6**

JOHNSON'S GASLIGHT DEVELOPER (o)

A concentrated solution for Gaslight Papers.

4-oz. bottle to make 10 to 20 oz., **10½d.** 8-oz. bottle to make 20 to 40 oz., **1/3**

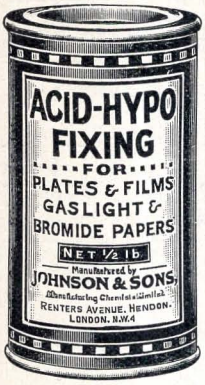
ENSIGN CONCENTRATED TANK DEVELOPING POWDERS

Thoroughly tested and suitable for all films. Develop perfect unstained negatives in ten minutes (temperature 65°).

	Packet.	Box of 6.
For Carbide A and B Tanks	4d. ..	**1/6**
„ „ C „	5d. ..	**2/–**
„ „ D and E „	6d. ..	**2/6**

*Prices subject to market fluctuations.

CHEMICALS



ACID-HYPO FIXING (o)

Rapid in its action and not excessively acid. For Plates, Films and Papers, except Self-toning or P.O.P.

4 oz. .. **7d.** 8 oz. .. **10d.** 16 oz. .. **1/6**

SODA HYPOSULPHATE (o*)

Finest selected pea crystals. 1 lb. cartons .. .. .. **6d.**

JOHNSON'S MOUNTANT (o)

Free from acid and spreads evenly.

COLLAPSIBLE TUBES .... each **6d.**

JARS, 4 oz., **1/-** 10 oz., **1/9** 24 oz., **3/-**

SNOWHEART HYPO ELIMINATOR (o)

(C. Winthrope Somerville's Formula). Completely eliminates Hypo from negatives or prints in three minutes. Each packet is sufficient for 36 ¼-plates.

1 packet, **3d.** 12 packets, **2/6**

JOHNSON'S PHOTO TINTS (o)

Various shades of liquid colours for tinting prints or lantern slides.

No. 1. Nine bottles of assorted colours **2/6**

No. 2. Nine bottles of assorted colours, six of jewelling mixture, one of medium and two brushes **5/-**

JOHNSON'S PASTELS .. .. .. per box. **2/6**

SEPTON TONER (o)

One solution, direct toning—no bleaching.

1 oz. bottle, **1/6** 10 oz. bottle, **6/-**

SEPIA (Two Solution) TONER

For rich permanent browns .. .. .. each **1/3 & 2/6**

SUNDRY SOLUTIONS (o)

Gold Toning and fixing	4 oz. **1/-**	.. ..	10 oz. **2/-**
Intensifying uranium	3 „ **1/-**	.. ..	6 „ **2/-**
Intensifier redevelop. Two 4 oz. bottles ..	.. ..	.. ..	.. **2/-**
Reducer	4 „ **1/-**	.. ..	8 „ **2/-**
Matt varnish	2 „ **1/3**	.. ..	4 „ **2/6**
Negative varnish	2 „ **1/3**	.. ..	4 „ **2/6**
Dead black	2 „ **1/-**	.. ..	4 „ **2/6**
White ink	.. ..	.. per bottle	6d. and **1/-**
Retouching medium	.. ..	.. ..	1 oz. **1/-**
Spotting medium	.. ..	.. ..	1 „ **1/-**
Black waterproof titling ink	.. ..	.. ..	.. **1/-**

Griffiths' anti-sulphuric enamel for coating dishes, etc. (J)

No. 6. Black, ½-pint, **2/6** 1 pint, **4/6**

Bates' Dead Black .. .. **1/-** (L)

ENSIGN GLAZING SOLUTION (o*)

Gives a brilliant gloss without sticking.

10 oz., **1/3** 20 oz., **2/-**

"HANSLICK" (L)

This remarkable cleanser is a pure powder specially prepared for the hands. Pyro and other developer stains come off easily, and it will not damage the skin.

It thoroughly cleanses the pores of the hands, and prevents the hands from becoming sticky.

In patent nickel-top tin .. .. **10½d.**

ENSIGN FILM (N)

Film No.	Size of Picture Inches.	Description for Ordering.	For Cameras.	Six Exposure Spools.
E28	$1\frac{1}{2} \times 2\frac{1}{4}$	1E	Ensignette No. 1	10d.
E29	2 × 3	2E	Ensignette No. 2	10d.
E27	$1\frac{5}{8} \times 2\frac{1}{2}$	1J	ENSIGN CADET	
			VEST POCKET ENSIGN	1/-
			Brownie No. 0, Vest Pocket Kodak ..	(8 exp.)
		Auto Machine	8 Exposures	1/-
—	$2\frac{1}{4} \times 3\frac{1}{4}$	2J	Ensignette Junior 2J .. .. (7 exp.)	1/5
E02	$1\frac{1}{2} \times 2$	$1\frac{1}{2}$	Pocket Kodak .. .. .. (12 exp.)	1/3
E21	$1\frac{5}{8} \times 2\frac{1}{2}$	$1\frac{5}{8}$	F.P.K. No. 0	10d.
E17	$2\frac{1}{4} \times 2\frac{1}{4}$	$2\frac{1}{4}$A	Box Ensign $2\frac{1}{4}$A..	10d.
			Brownie No. 1	
E20	$2\frac{1}{4} \times 3\frac{1}{4}$	$2\frac{1}{4}$B	ALL-DISTANCE ENSIGNS..	
			ALL ENSIGNS $2\frac{1}{4}$B	
			BOX ENSIGN $2\frac{1}{4}$B	
			ENSIGN CARBINE, NOS. 3, 4 5, 6 AND 7 ..	
			ENSIGN CUPID	1/-
			ENSIGN JUNIOR MODEL B	(8 exp.)
			ENSIGN ROLL FILM REFLEX	
			J.B. ENSIGN	
			Brownies, No. 2	
			Kodaks, No. 1	
		Auto Machine	8 Exposures	1/-
E05	$2\frac{1}{4} \times 3\frac{1}{4}$	$2\frac{1}{4}$C	F.P.K. No. 1	1/-
E16	$2\frac{1}{2} \times 4\frac{1}{4}$	$2\frac{1}{2}$	ALL ENSIGNS $2\frac{1}{2}$	
			BOX ENSIGN $2\frac{1}{2}$	
			ENSIGN CARBINE, NOS. 10, 12 AND 14 ..	1/3
			Brownies, No. 2A	
			Kodaks, No. 1A	
		Auto Machine	4 Exposures	1/-
E30	$2\frac{7}{8} \times 4\frac{7}{8}$	$2\frac{7}{8}$	Popular Ensign $2\frac{7}{8}$	2/-
			Brownies and Kodaks, No. 2C	
E18	$3\frac{1}{4} \times 4\frac{1}{4}$	$3\frac{1}{4}$	All Ensigns $3\frac{1}{4}$, Kodak, No. 3	2/-
E22	$3\frac{1}{4} \times 5\frac{1}{2}$	$3\frac{1}{4}$A	All Ensigns $3\frac{1}{4}$A, Kodaks, No. 3A	2/6
E24	$3\frac{1}{4} \times 4\frac{1}{4}$	$3\frac{1}{4}$B	Brownie No. 3	2/-
E25	$3\frac{1}{4} \times 5\frac{1}{2}$	$3\frac{1}{4}$C	Stereo Brownie No. 2	2/6
E01	$3\frac{1}{2} \times 3\frac{1}{2}$	$3\frac{1}{2}$	Bull's Eye No. 2 and F.P.K. No. 2 ..	1/8
E03	4 × 5	4	Bull's Eye No. 4	2/6
E23	4 × 5	4A	F.P.K. No. 4	2/6
E19	$4\frac{1}{4} \times 3\frac{1}{4}$	$4\frac{1}{4}$	Cartridge Kodak No. 3	2/–
E26	$4\frac{1}{4} \times 6\frac{1}{2}$	$4\frac{1}{4}$A	Kodaks, No. 4A..	3/6
E04	5 × 4	5	Cartridge Kodak No. 4	2/6
E15	7 × 5	7	Cartridge Kodak No. 5	4/-

ROLL FILMS

In addition to Ensign Film, the following makes are obtainable in the same sizes and at the same prices.

BARNET, ILFORD, ILLINGWORTH, IMPERIAL, RAJAR, WELLINGTON, AGFA, CRITERION, GEM, GEVAERT, KOSMOS, PATHE AND ZEISS IKON.

Panchromatic roll films at slightly increased prices.

FLAT CUT FILMS (N)

AUSTIN EDWARDS, ILFORD STUDIO, ILLINGWORTH ORTHO, IMPERIAL ULTRA AND FAST, WELLINGTON PORTRAIT.

Size.	12 films.
$3\frac{1}{2} \times 2\frac{1}{2}$ in.	1/8
$4\frac{1}{4} \times 3\frac{1}{4}$,, ...	2/6
$5\frac{1}{2} \times 3\frac{1}{2}$,, ...	4/2
$6\frac{1}{2} \times 4\frac{3}{4}$,, ...	5/6

FILM PACKS (O)

ORDINARY: Klicam, Imperial, Wellington, Agfa, Gevaert, Goerz and Pathe.
PANCHROMATIC: Ilford, Imperial.

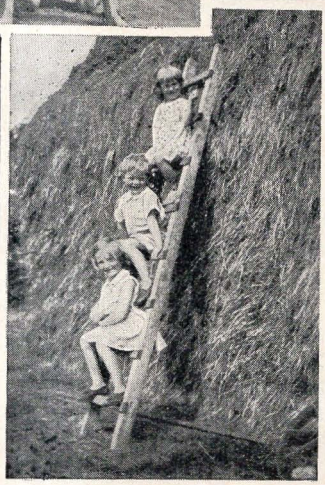
SIZE.	ORDINARY.		PANCHROMATIC.	
	Exposures			
Inches.	12	6	12	6
*$2\frac{3}{8} \times 1\frac{3}{4}$ ..	2/–	1/2 ..	2/9	1/8
$3\frac{1}{4} \times 2\frac{1}{4}$ ..	2/8	1/7 ..	3/9	2/2
*$4\frac{1}{4} \times 1\frac{3}{4}$ ..	2/9	1/8 ..	4/–	2/3
$4\frac{1}{4} \times 2\frac{1}{2}$ ..	3/–	1/10 ..	4/6	2/8
*$2\frac{3}{8} \times 5\frac{5}{8}$ ..	3/–	1/10 ..	4/6	2/8
$4\frac{1}{4} \times 3\frac{1}{4}$ ..	4/6	2/8 ..	6/–	3/6
$5\frac{1}{4} \times 3$ ..	5/3	3/– ..	6/8	3/9
*$5\frac{1}{2} \times 3\frac{1}{4}$ ..	5/6	3/3 ..	7/–	4/–
*5 × 4 ..	5/6	3/3 ..	7/–	4/–
*$6\frac{1}{2} \times 4\frac{3}{4}$ ..	8/9	5/2 ..	11/–	6/6
*7 × 5 ..	9/6	5/6 ..	12/3	7/–
cm.				
* 9 × 12 ..	5/3	3/– ..	6/9	3/9
*10 × 15 ..	7/–	4/– ..	9/–	5/–

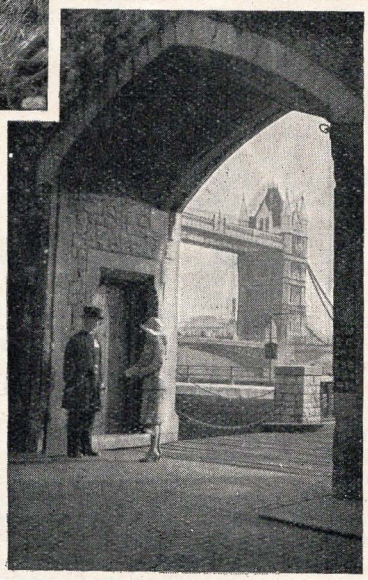
*Not Klicam.

ENSIGN FILM

for

DEFINITION
SPEED
QUALITY
and
TONE
VALUES





DRY PLATES

All makes at the same prices

BARNET ILFORD		ILLINGWORTH IMPERIAL		PAGET WELLINGTON	
				X-Ray. (L)	
Size.	Except Panchromatic and X-ray. (N)	Panchromatic. (N)	Backing Extra. (N)	Ordinary Packing.	Double Envelopes or Wrappers.
Inches.	½-doz.	1 doz.	1 doz.	1 doz.	1 doz.
2 5/16 × 1¾		1/4		4d.	
3¼ × 2¼		1/8		4d.	
3¼ × 3¼		2/3		4d.	
3½ × 2½	11d.	1/8	2/6	4d.	
4¼ × 3¼	1/4	2/6	3/6	4d.	2/9	3/3
5 × 4	2/2	4/2	5/–	6d.	4/6	5/3
5½ × 3¼	2/2	4/2	5/–	6d.		
5½ × 3½	2/2	4/2	5/–	6d.		
6½ × 4¾	2/10	5/6	7/6	9d.	6/–	6/9
6¾ × 3¼		4/8		9d.		
7 × 5		6/8	8/4	1/–	7/6	8/9
7½ × 5		7/8	9/6	1/–		
8½ × 6½	5/2	10/4	12/6	1/–	11/6	13/–
10 × 8	8/6	17/–	21/6	1/3	18/9	21/–
12 × 10	12/6	25/–	31/3	1/9	26/–	29/–
15 × 12	22/1	44/2	57/6	2/6	42/6	48/–
Cm.						
4½ × 6		1/4	2/–	4d.		
4½ × 10·7		1/8	2/6	4d.		
6 × 9		1/8	3/–	4d.		
6½ × 9	11d.	1/8	2/6	4d.		
8 × 12	1/7	3/–	3/9	4d.		
9 × 12	1/7	3/–	4/2	6d.		
10 × 15	2/2	4/2	5/10	9d.		
13 × 18		6/8	8/9	1/–	7/6	8/9
18 × 24		12/6	15/–	1/3	13/6	15/9

Prices of other sizes on application.

LANTERN PLATES 3¼ × 3¼ (N)

		Per doz.
BARNET.	C.G., black tone. Cold tone	2/3
CRITERION.	Mezzotone	2/3
ILFORD .	ALPHA, warm tone. SPECIAL, black or sepia tone	2/3
ILLINGWORTH.	SLOGAS, gaslight. SPECIAL, black tone	2/3
IMPERIAL.	SPECIAL, black tone. GASLIGHT, warm tone	2/3
PAGET.	GRAVURA, black to red tone. RAPID, black tone. SLOW, warm tone	2/3
WELLINGTON.	S.C.P., black to red tone. LANTERN, black tone	2/3

TRANSPARENCY PLATES 45 × 107 mm. (N)

ILFORD, IMPERIAL, WELLINGTON .. .. 1/8 Extra Thin .. 2/-

PAPERS AND POSTCARDS (P)

SUPPLIED IN ALL MAKES AND SURFACES

BROMIDE PAPERS

WELLINGTON. Ordinary, Platino-Matt, Cream Crayon, Chamois, Carbon, Bromoil, Mezzotint.
ILFORD. Ordinary, Carbon, W.B.
IMPERIAL. Rough, Matt, Semi-Matt, Glossy.
ILLINGWORTH. Ordinary, Platino-Matt, Zelvo, Ivory Matt, Glossy.
BARNET. Ordinary, Platino-Matt, Enamel. Cream Crayon, Bromoil, Lustra Matt.

GASLIGHT PAPERS

PAGET. Glossy, Matt, Satin.
S.C.P. Matt, Glossy, Soft Art, Soft Glossy, Vigorous Art, Vigorous Glossy. Carbon, Normal, Vigorous. Matt, Glossy, Semi-Matt.
SLOGAS. Matt, Glossy, Satin (Vigorous or Soft). Medium in grosses only.
BAR-GAS. As above.
GRAVURA. As above.

Inches	6d. PKTS. Sheets	1/- PKTS. Sheets
2¾ × 1¾	22	—
2½ × 2½	16	—
3½ × 2½	12	—
3½ × 3½	8	—
4½ × 2¾	8	17
4¼ × 3¼	8	17
5 × 4	—	11
5½ × 3½	—	12

Inches	1/- PKTS. Sheets	Sheets 6
6 × 4¼	9	--
6½ × 4¾	7	--
8½ × 6½	—	1/4
10 × 8	—	1/11
12 × 10	—	2/10
15 × 12	—	4/3
18 × 15	—	6/4

SELF-TONING PAPERS

COLLODION—SELTONA, ILLINGWORTH, PAGET, KOSMOS, GEVAERT.
GELATINO-CHLORIDE—ILFORD INTONA, IMPERIAL, ENITONE, BARTONA.

Inches	COLLODION PAPER 6d. PKTS. Sheets	COLLODION PAPER 1/- PKTS. Sheets	GELATINO-CHLORIDE PAPER 6d. PKTS. Sheets	GELATINO-CHLORIDE PAPER 1/- PKTS. Sheets
2¾ × 1¾	16	—	22	—
2½ × 2½	12	—	17	—
3½ × 2½	9	20	12	—
4½ × 2¾	7	16	9	18
4¼ × 3¼	6	14	8	17
5 × 3	—	12	—	15
5 × 4	—	9	—	11
5½ × 3½	—	9	—	12
6 × 4¼	—	7	—	9
6½ × 4¾	—	6	—	7

P.O.P. (PRINTING-OUT) PAPERS

ILFORD, IMPERIAL, WELLINGTON, BARNET, ILLINGWORTH, PAGET.

Inches	6d. PKTS. Sheets	1/- PKTS. Sheets	Inches	6d. PKTS. Sheets	1/- PKTS. Sheets
2¾ × 1¾	24	—	4¼ × 3¼	9	18
2½ × 2½	18	—	5 × 4	—	15
3½ × 2½	14	—	5½ × 3½	—	15
3½ × 3½	10	—	6 × 4¼	—	12
4½ × 2¾	10	20	5½ × 4¾	—	10

POSTCARDS

5½ in. × 3½ in. or 4¼ in. × 3¼ in. sizes.
BARNET, ILFORD, ILLINGWORTH, IMPERIAL, PAGET, WELLINGTON.

	Per pkt. 9	Per pkt. 100
Bromide and Gaslight	1/-	8/-
Self-Toning, Collodion (Wellington & Paget only)	1/- (8)	11/-
,, Gelatino-Chloride	1/-	10/6
P.O.P.	1/- (10)	9/6

ENSIGN FILM-SLIDES

(SAFETY FILM)

A NEW IDEA WHICH PUTS SUMMER SUNSHINE INTO YOUR SNAPSHOTS IN WINTER

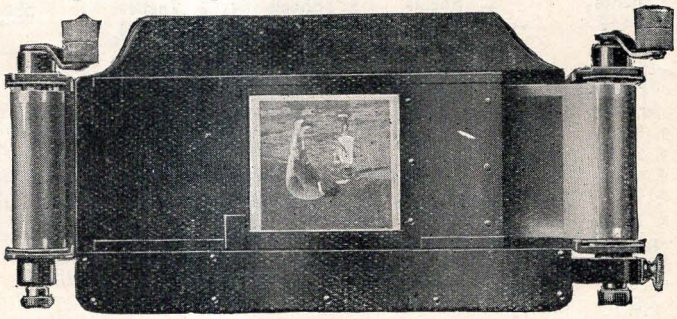
ENSIGN Film-Slides are your snapshots printed in positive on a strip of film for showing in any projection lantern. It hardly costs you any more to have your snapshots printed as Ensign Film-Slides than as ordinary prints, and nothing like as much as an enlargement. But see how different they look when screened a hundred times as large, infinitely brighter, and with all the contrasts of the summer sunshine! Every detail is faithfully enlarged to a size all can see and enjoy at the same-time.

Have your snapshots printed as Film-Slides and really enjoy them all the year round. The size of the picture on the film is $2\frac{1}{8}$ in. $\times$ $2\frac{1}{8}$ in., and Film-Slides can be made direct from the popular $3\frac{1}{4}$ in. $\times$ $2\frac{1}{4}$ in. film, by contact.

HOW TO SHOW FILM-SLIDES

To show Ensign Film-Slides all you need is an ordinary lantern, the Ensign Film-Slide Carrier, and a screen (a light wall will serve this purpose if no screen is available). Manipulation is extraordinarily simple; you just load the lantern in rather the same way as you load a roll-film camera, and then wind each successive picture into position.

THE ENSIGN FILM-SLIDE CARRIER



ENSIGN FILM-SLIDES

ENSIGN FILM-SLIDES FOR EDUCATIONAL PURPOSES

ENSIGN Film-Slides are ideal for teaching. At a minimum cost, sets of pictures, diagrams, drawings, plans, etc., can be produced, and shown with an ease and simplicity which hitherto has been unobtainable.

Not only are Ensign Film-Slides extremely cheap to produce, but they are extremely portable. A roll of 24 pictures only weighs 1 ounce, and can be sent through the post for 1½d. with absolute safety.

HOW TO GET FILM SLIDES PRINTED

Select the negatives and put them in the order in which you wish the pictures to appear on the roll. A series of snapshots of the same subject in different positions should be arranged to give correct continuity.

When you have arranged these to your satisfaction, number each negative, pass them to your photographic dealer, who will send them to The Ensign Snapshot Service to be printed.

Prices

(O)

Six Ensign Film-Slides, printed on one roll, complete with winding bobbin, ready for use in the lantern **3/6**

Extra pictures (on same roll) .. each **6d.**

Note.—The maximum number of Film-Slides which can be accommodated on one spool is 24.

FILM-SLIDE CARRIER

For use in any lantern taking Beard's Eclipse Carrier **£1 5 0**

SAFETY FILM (POSITIVE)

Perlength of 6 ft. packed in tin ready for printing **3/6**

This is sufficient for 24 pictures $2\frac{1}{8} \times 2\frac{1}{8}$ in., allowing adequate spacing and a length at each end for loading and rewinding.

The Ensign film-slide carrier in use

ROSS

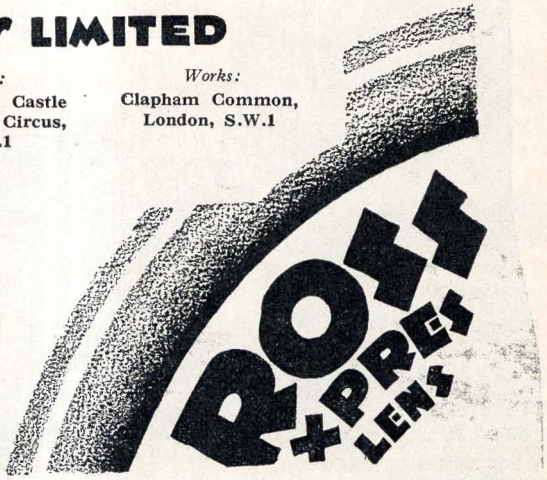
THE LENS THAT NEVER "LETS YOU DOWN"

The quality of Ross Lenses is of such a high standard that it is quite safe to claim that they will never let you down. Whatever the subject or the conditions, a Ross Lens will give you the absolute best that can be obtained. With a Ross there will be no wasted opportunities, no wasted materials, but invariably a much better result than you thought possible. The Xpres f/1.9, f/2.9 and f/3.5 series are becoming as world famous as the favourite Xpres f/4.5, which is admittedly the finest lens of its type, and can be recommended for every purpose where quality with speed are essential.

ROSS LIMITED

Showrooms:
13 & 14 Great Castle Street, Oxford Circus, London, W.1

Works:
Clapham Common, London, S.W.1



IMPERIAL
PLATES, FILMS AND PAPERS

REG TRADE MARK

Wherever Photography is practised

This Symbol

denotes the highest achievement in the manufacture of materials which ensure perfect pictures.

The Finest EXHIBITION PRINTS depend largely on the quality of the negative. IMPERIAL PLATES, ROLL FILMS and FILM PACKS ensure negatives pre-eminent in every essential for success.

IMPERIAL PAPERS are made to reveal all the good qualities of the negative.

The IMPERIAL DRY PLATE CO. LTD

CRICKLEWOOD, LONDON, N.W.2

Some Plates favoured by amateurs who know.

IMPERIAL ECLIPSE AND ECLIPSE ORTHO

H. & D. 850 and H. & D. 650.
For "Snaps" in Dull Weather as well as Bright.

IMPERIAL SPECIAL RAPID

Ortho and Non-Ortho. Exceptional suitability for Snapshots and Time Exposures.

IMPERIAL N.F.

(Non-Filter).
H. & D. 250 and New Series H. & D. 450.
An emulsion incorporating a Light Filter. Compare results.

IMPERIAL PANCHROMATIC

Unusually sensitive to all colours. Manipulation easy with D.S. Backing.

The choice of the Roll-Film enthusiast.

IMPERIAL ROLL FILMS

Ensure every possible advantage–Highest Speed, Orthochromatic, Non-Curling. Quick Development.

IMPERIAL BROMIDE PAPER

Cream & White Base. Uniformly rapid and very reliable. A better paper for contacts or enlargements is not possible.

IMPERIAL GASLIGHT PAPER

Vigorous, Normal, Soft. Ideal for Holiday "Snaps."
Surfaces glossy, semi-matt and matt.

IF YOU want to be certain of good results—stick to

BARNET

PLATES, PAPERS & FILMS

They are the finest on the market and you can use them with absolute confidence—no matter what the subject. The following are some of the popular BARNET Products.

BARNET ROLL FILMS. Orthochromatic and made in sizes to fit all roll film cameras.

SELF-SCREEN PLATE. For the hand and stand camera. Highly Orthochromatic.

SUPER-SPEED ORTHO. For high-speed work.

BAR-GAS. (Barnet Gaslight Paper). Best for all snapshots—plate or film negatives.

BROMIDES :—Cream Crayon, Platino-Matt, Ordinary, Bromoil etc.

VERONA (Chloro Bromide). BAR-TONA.

Elliott & Sons, Ltd., Barnet, Herts.

THE

DALLMEYER "SNAPSHOT" CAMERA

Nothing to Learn
Nothing to Forget

Results of professional standard can be obtained by users without any knowledge of photography.

Photographs can be taken under practically any conditions with but the simplest adjustment which occupies but two or three seconds.

The Camera is fitted with the famous Dallmeyer $f/6$ Anastigmat Lens, neat, compact, weighs but 11 oz., and can be carried in the coat pocket. Takes standard $3\frac{1}{4} \times 2\frac{1}{4}$ Film Packs, 6 or 12 exposure.

Price £5 . 5 . 0

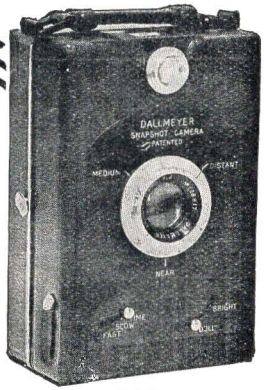
Complete in Morocco leather carrying case.

The DeLUXE MODEL

incorporates all the excellent features of the standard model, but is provided with many refinements, and a finish that gives it the appearance of a camera costing twice the price, being leather-covered, fitted with carrying handle and auto-catch for releasing back for inserting film pack. Fitted with brilliant finder, and when closed a special lip joint renders it dust-proof.

Price £8 . 8 . 0

Complete in Velvet-lined Pig-skin Case.



★

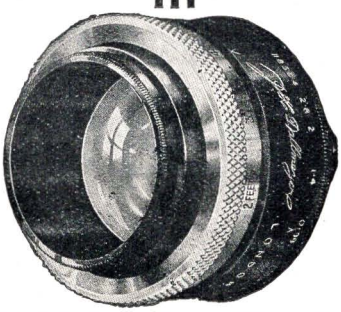
The NEW DALLMEYER $f/0.99$ LENS

represents one of the greatest inventions in the history of cinematography and is designed for use on Amateur Cine Cameras employing 16 mm. sub-standard film.

Cinematography is possible all the year round as the enormous aperture of $f/0{\cdot}99$ is 1,200 per cent faster than an $f/3{\cdot}5$.

Supplied in Micrometer Focusing Mount with Iris Diaphragm ready to screw into the ordinary Lens socket of the Ensign "Autokinecam."

Also supplied for use on "Filmo" "Victor," and other Amateur Cine Cameras.



J. H. DALLMEYER LTD., 31 MORTIMER STREET, W.1

WORKS:—HIGH ROAD, WILLESDEN. N.W.10

For Clear Sparkling Snaps

insist on

Illingworth's

ROLL FILMS

Clear pictures. Pictures that **ask** to be enlarged. Pictures that bring back the scene to you vividly because of the wonderful **detail.**

Have such pictures—merely by saying "Illingworth's" when you buy a film. Illingworth's are specially made to help you when the conditions and lighting are against you.

The Fast Film in the Bright Blue Box fits all Cameras.

THOMAS ILLINGWORTH & CO. LTD.

Park Royal, Willesden Junction, N.W.10.

In thousands of cameras all over the world the

ALDIS

ANASTIGMAT LENS

is daily proving itself unsurpassed in uniform excellence and reliability

ALDIS BROS.

Makers of Quality Lenses

SPARKHILL :: BIRMINGHAM

INDEX

Page

Adapters, Film-Pack .. 49
Albums, Photo 91-99
,, Film Storage .. 82
Aprons, Developing .. 87
Attachments, Portrait .. 52
,, Tripod .. 53
Autokinecam Cine Camera 58-59

Backgrounds 87
Bags Changing 55
,, Focussing .. 55
Ball and Socket Heads .. 54
Binding, Passe-Partout .. 100
Books, Blotting .. 89
Boxes, Negative .. 82
Brushes 89

Cameras —
All-Distance, Box .. 6-7
,, ,, Pocket 8-10
Box 3
Cadet 32
Cameo 33-35
Carbine No. 3 .. 11
,, ,, 4 Florentine Bronze .. 23
Carbine No. 5 .. 12-13
,, ,, 6 Florentine .. 24
,, ,, 7 .. 14-16
,, ,, 10 .. 17
,, ,, 12 .. 18-19
,, ,, 12 Florentine 25
,, ,, 14 .. 18-19
Cine, Autokinecam .. 58-59
De Luxe Reflex .. 44-45
Duo-Ensign 4-5
Ensign 3 and 3A .. 20-22
Field 46-47
Junior Box Ensign .. 2
Pressman Reflex .. 38-39
Roll Film Reflex .. 31
Sanderson 36-37
Special Reflex .. 40-41
,, ,, Tropical 42-43
Speed Film Reflex .. 28-30
Tropical Roll Film Reflex 26-27
Vest Pocket 32
Caps, Lens 74
Carriers, Plate 49
Cases, Carrying .. 50-51
,, Extendo Tripod . 54
Chemicals .. 105-107
Cinematograph
,, Accessories 61, 67
,, Camera .. 58-59
,, Film .. 60
,, Projector . 62-66
Clips, Film 89
Clocks, Dark-Room .. 77
Cloths, Focussing .. 55
Colours, Marshall .. 84
Composing Rule .. 88
Condensers 74

Page

Crushmeter 83
Cut Films 108

Dark-room Lamps .. 76-77
Developing Outfits .. 87
Developing Tanks .. 78
Dishes 79, 80
Distance Gauge .. 56
Draining Racks .. 81
Drying Frame 81

Easels, Enlarging .. 74
Enlargers 69-73
Ensign Film .. 108-109
Exposure Meters .. 75
Extendo Tripod Case .. 54

Ferrotype Plates .. 83
Film Editor 67
Film-pack Adapters .. 49
Film Packs 108
Film-Slides .. 112-113
Films, Flat Cut .. 108
Films, Roll .. 108-109
Filters, Colour and Sky 52
Finders, View 56
Flashlight Apparatus .. 85
Focussing Screens .. 49, 74
Frames, Passe-Partout 101-102
,, Printing .. 81
Funnels 81

Glasses, Focussing .. 55
Globes, Non-actinic .. 77
Gloves, Developing .. 87

Hoods, Lens 55
Humicases 67

Illuminants 73

Jugs, Graduated .. 81

Lamps, Dark-Room .. 76-77
,, Flash 85
Lantern Plates 110
Lens Cleaner 56
,, Cleaning Tissue .. 56
Lenses, Cine 60
,, Supplementary 52
Levels, Spirit 56

Magnesium Ribbon .. 85
Magnifiers, Focussing .. 55
Masks, Printing .. 86
Measures 81
Mounting Corners .. 100
,, Stamps .. 100
,, Tissue .. 83
Mounts .. 103-104
Mount Struts 100

Page

Negative Albums and Boxes 82
Negatives, Border .. 86
,, Cloud .. 86

Oil, Burning 77
Ozaphane Flexible Slides 84

Passe-Partout Frames 101-102
,, Sundries 100
Panoram Head 54
Papers 111
Pins, Dark-Room .. 89
Plateholders 49
Plates 110
Portrait Attachments .. 52
Posometer 75
Postcards 111
Postcard Holder .. 74
Primuslite Outfit .. 73
Print Dryers 81
,, Glazers 83
Projector, Cine .. 62-66
Publications 90

Racks, Draining .. 81
Releases, Shutter .. 56
Retouching Accessories 85
Roll Films .. 108-109

Scales 83
Screens, Focussing .. 49, 74
Sheaths, Cut Film .. 49
Shutters 48
"Silent Sixteen" Cine Projector 62-66
Squeegees 83
Stand, Projector .. 67
Supplementary Lenses 52

Tablet Crusher .. 83
Tanks, Developing .. 78
Thermometers 87
Titling Outfits 88
Title Maker 61
Trident Weight 79
Trimmers 88
Tripod Case 54
Tripod Cycle Clips .. 53
Tripods 60
Tripod Screws 55
Troughs, Porcelain .. 80
Twinlite Outfit .. 73

View Finders 56
Vignetters 87

Washers 80

For Better Pictures—read

"SNAPSHOTS" *2d. monthly. From your Photo Dealer*

P.L.H., BRADFORD. 9522

ILFORD

MANUFACTURES

have an unrivalled reputation of over fifty years and constant attention is given to maintaining their high standard of excellence.

ILFORD PANCHROMATIC PLATES and FILMS are sensitive to ALL colours and their panchromatic qualities are superior to all others. Their high speed and general excellence are unrivalled. H. and D. 400.

ALSO ILFORD SOFT GRADATION PANCHROMATIC PLATES, H. and D. 700 to Daylight; 2000 H. and D. to Half-Watt Light.

"PANCHROMATISM." The wonderful Ilford Booklet explains their use, as also that of the Ilford Colour Filters. Price 6d.; post-free in the United Kingdom, 8d.

ILFORD GOLDEN ISO-ZENITH PLATES, H.&D.1400 **The fastest in the world.** Colour-sensitive. Fine gradation.

ILFORD AUTO-FILTER PLATES, H. & D. 400 are the best for all-round general work. They are colour-sensitive but do not require a colour filter. Of easy manipulation.

INTONA, the Ilford Self-Toning Paper, gives the most perfect prints, ranging from brown to purple with hypo only. The easiest and best of all self-toning papers.

ILFORD ROLL FILMS, for all subjects, all weathers, and all climates, the film of British manufacture in the cheerful red carton, of very high speed and great latitude, made in sizes to fit all roll-film cameras. Popular sizes also supplied in Panchromatic Roll Film.

FILM PACKS supplied with ordinary and Panchromatic Film.

The Ilford Roll-film booklet is called "The Lure of the Camera, or Timely Tips for Snapshots." Get a free copy, also one of the complete Ilford Price List.

REGISTERED TRADE MARK

ILFORD, Limited,

ILFORD, LONDON, ENGLAND.

Ilford Plate and Intona Pamphlets post-free.

ENSIGN

FILM

FOR QUALITY, DEFINITION, SPEED & TONE VALUES