

THE EASIEST WAY TO BECOME EXPERT IN PHOTOGRAPHY

ALL YOUR SHOTS WILL TURN INTO THRILLING PICTURES

In illustrated magazines you may often see reproductions of various scenes of daily life, interesting shots both from workshops, sport fields and happy holiday resorts. You admire the perfection of landscape pictures, coloured mood sceneries, pictures of popular persons, charming children and, last but not least, interesting close-ups of various objects.

Most likely you secretly long to possess a camera which would enable you to collect and preserve visual impressions of beauty with similar success...

Well, fulfilment of your longing is within reach.

Choose the



FLEXARET IVa, the modern reflex camera



and the result will be an agreeable surprise.









WHY A FLEXARET IVa?

BECAUSE

it is a camera designed both for surprisingly quick success of the beginner, for expert work in the field of amateur photography and for high-quality work of the professional photographer.

BECAUSE

it is a universal camera suitable for any kind of photographic work. It enables shots of landscapes to be made with the same perfection as portraits, sporting snapshots, close-ups of small objects, or industrial and scientific photographs.

BECAUSE

the photographed object is easily focused on the ground glass screen so that you see exactly what the picture will really contain.

BECAUSE

this camera shows the most modern constructional features which enlarge its range of utilization and make its operation simply automatic.

BECAUSE

the FLEXARET IVa keeps abreast with the most expensive photographic cameras.

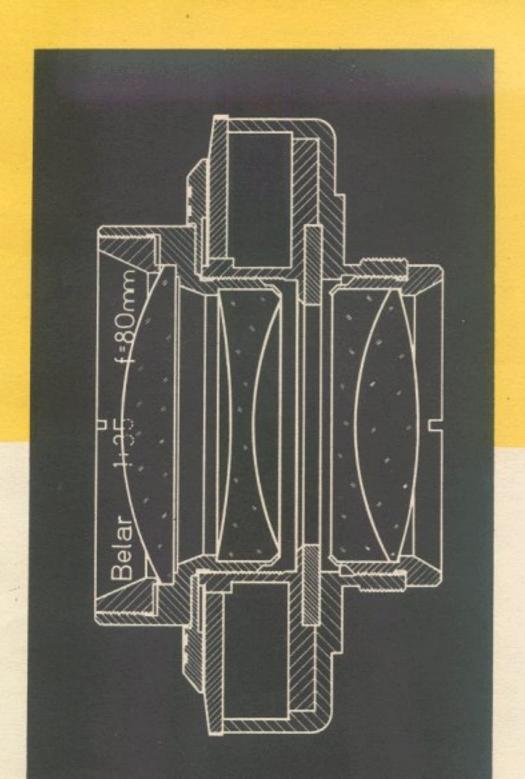
BECAUSE

also you will be satisfied with this camera!

THE FLEXARET IVa AS SEEN FROM A SHORT DISTANCE AND ITS NUMEROUS ADVANTAGES.

Precision optics.

The FLEXARET IVa is a twin-lens camera. The taking lens is a BELAR four-glass anastigmat f 3.5, F = 80 mm with focusing from ∞ to 1 m. The viewing lens is a three-glass anastigmat f 3.0, F = 80 mm, its high speed ensuring a brilliant image on the screen. The smaller depth of focus of this lens facilitates perfect focusing. Both of the two objectives are coated.

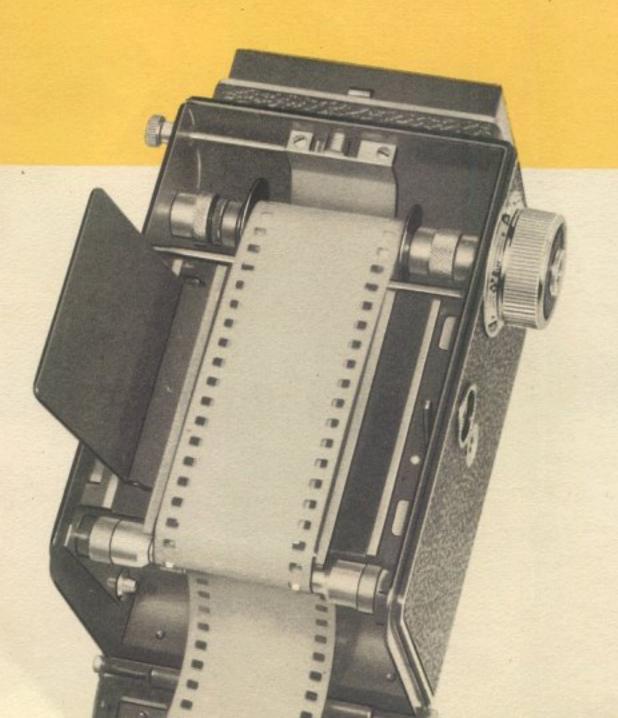


Welcome News: The FLEXARET IVa can also be used with a 35-mm cine film!

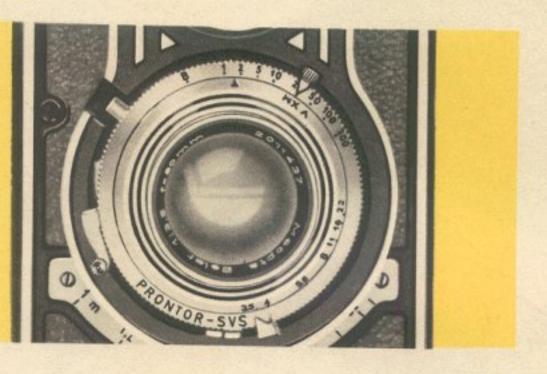
Its ingenious design enables the camera to be used for two different sizes of film, i. e. either 6 X 6 cm roll film B2 for 12 pictures or a 35-mm perforated cine film, standard packing in magazines, enabling 36 pictures 24 X 36 mm in size to be made. Cine film in magazines of different types, e. g. magazines without spools (AGFA-KARAT-FILM) for 12 pictures 24 X 36 mm in size, however, can also be employed.

The camera can be easily adapted for a cine film. The film guide is simply inserted into the camera and set up the two extension pivots on to the upper spool pivots. The film can be wound up either on a 35-mm standard spool or on a spool inserted into a standard magazine. The film need not be rewound on the original magazine.

When using cine film it is essential, when focusing, to place the image within the limits of the rectangle marked on the screen.







Shutter with delayed action.

The shutter — usually a type PRONTOR SVS — incorporates a flashlight synchronizer for various kinds of flashlights, and, in addition, a delayed action mechanism for all exposure times except for the »B« position which is used for time exposures.

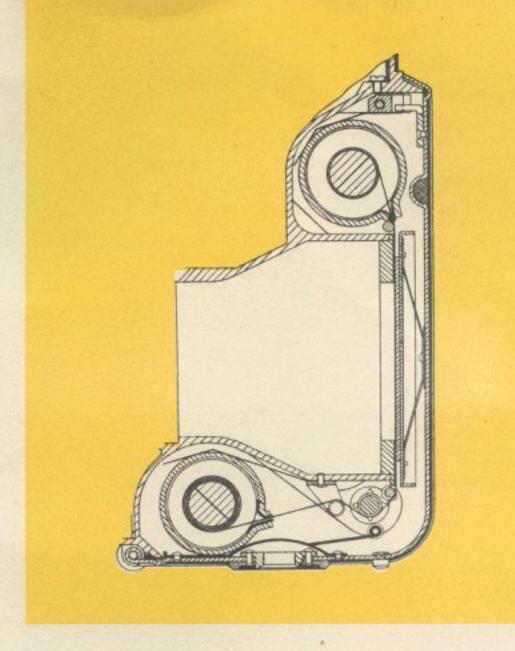
When making shots with delayed action, first set the change-over lever of the shutter to the position marked »V«. Then press down the release lever. The

exposure takes place after about six seconds have elapsed.

The mechanism for cocking the shutter, setting the exposure time and stopping down the lens are mounted on the shutter, whereas the release lever and the thread nipple for the wire release — which is used for time exposures only — are to be found on the camera body.

Exposure time and aperture control.

The type PRONTOR SVS shutter is provided with figures which indicate the length of exposure time. The figure *1* indicates one second, the figure *2* corresponds to 1/2 second, *5* 1/5 second, etc. up to *300* which corresponds to 1/300 second, this being the shortest exposure time used with this camera. The amount of light which is allowed to pass through the objective can be varied by stopping down the lens. The scale of the aperture control carries the following stop numbers: 3.5 - 4 - 5.6 - 8 - 11 - 16 - 22. These stop numbers have been chosen so that the stop number 3.5 corresponds to the lens aperture fully open and stopping down to the next higher number always results in halving the amount of light passing through the lens at the preceeding step, i. e. doubling the exposure time.



Indicator of kind and sensitivity of film.

The rewind knob can be turned in clockwise direction only, providing that the spool with the negative film has been loaded correctly. The knob has been designed to enable a visual marking to be made of the kind and sensitivity of the film used. This constructional detail prevents the mechanism from being handled after the camera has been loaded and closed; as a result, the marking is reliable.



Automatic safeguard of double-exposures.

The release lever and the thread nipple of the wire release are interlocked by means of a special protective mechanism preventing a further exposure from being made on the negative which has been already exposed. This equipment represents a further valuable advantage, since it prevents pictures from being spoiled in which the photographer probably is most interested.

As long as the exposed negative frame is not advanced, the shutter action

remains interlocked.

Furthermore, the negative cannot be advanced without being exposed, which is another considerable advantage of the camera.

The rewind knob and the release lever are interlocked against double-exposure and the advancing of non-exposed film also when using a 35-mm cine film. When using the camera for trick shots, however, the repeated exposure can be effected on the shutter itself.

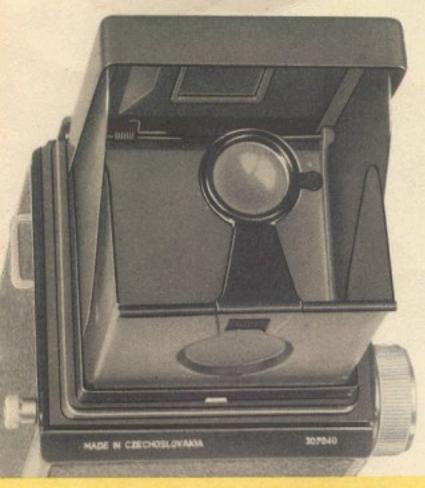
Automatic film counter.

The numbers of exposures 1 to 12 are indicated automatically by means of the film counter which is automatically set to zero when the camera back is opened (when loading the camera).

For indicating the number of exposures made on a 35-mm cine film the camera is equipped with and additional counter indicating tens of exposures. The total







Focusing.

By merely tilting off the lid the folding hood over the ground glass screen is unfolded, the hood incorporating a full screen magnifier which facilitates accurate focusing. The focusing proper is effected by means of a focusing lever, both the taking and the viewing lens being moved simultaneously.

Due to the high speed of the viewing lens the image seen on the fine-grain ground glass screen is perfectly bright, thus enabling easy and accurate focusing. After having finished photographing, tilt down the cover lid of the folding hood. As a result the latter is automatically folded and the lid snaps in.

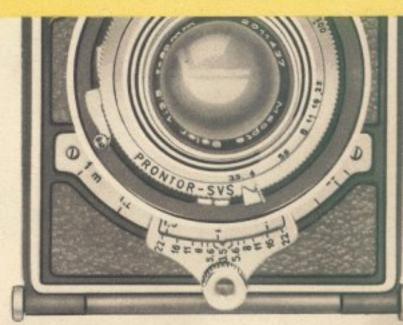
Distance scale.

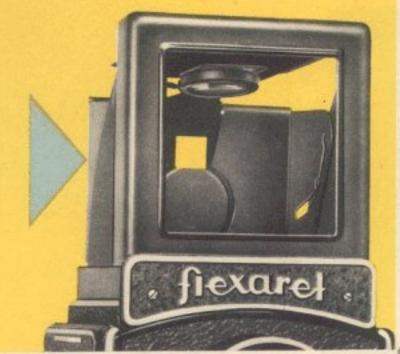
When mobile objects are to be photographed which cannot be focused on the screen, the focusing distance is determined by estimation. According to the estimated distance the focusing lever is set on the distance scale against the number corresponding with the estimated value. The scale numbers indicate the distance either in metres or in feet. An object at an infinite distance is marked with the sign ∞ or with the abbreviation INF (i. e. infinity).

Depth of focus.

Every objective reproduces sharply not only the objects located in the focusing plane, but also objects situated in front of and behind this plane. This phenomenon is called "depth of focus", it being the larger the more the lens is stopped down.

The FLEXARET IVa camera is equipped with a depth-of-focus scale engraved on the focusing lever proper. This is very convenient since it is possible – after having focused – to read off immediately the two distances within which the photographed object will be sharply reproduced.

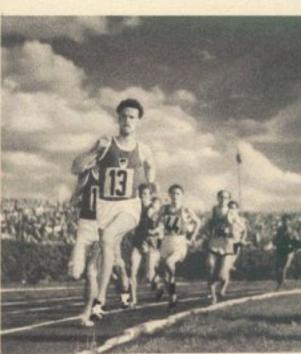




Open frame finder.

When taking rapid sporting snapshots or when photographing in a lying position, it is convenient to use the open frame finder. This is formed by depressing the flap of the viewfinder lid and swinging off the magnifier.





When using a 35-mm cine film, only the inner tiltable front part of the viewfinder is swung off.



TABLE I. - FLASHLIGHT EXPOSURES

(This table applies to PRONTOR SVS shutters.)

Type of flashlight	Producer and type		Position of change-over lever and shutter speed		
			M - yellow	X - red	
		Χo			
		F1	-	1 - 1/25 sec.	
	Osram	F2			
		X - P	-	1 - 1/50 sec.	
	General Electric	SM		1 - 1/100 sec.	
Flashlight bulbs with metal foil or wire	Wabash — Sylvania	SF		7 - 1/100 sec.	
		FP3	1/50 and 1/100 sec.	1 - 1/25 sec.	
	Philips	F P 14			
		F P 25			
		F P 60			
	Osram	50			
		S 1		1 — 1/25 sec.	
		52			
nq ;	General Electric	No 5	1/50 - 1/300 sec.		
ght		No 11			
shii		No 22			
Fla		Press 25			
		Press 40			
	Wabash – Sylvania	Press 50			
	Sylvania	No 0			
		No 2			
	Philips	F P 100			
	General Electric	No 50	1/25 - 1/50 sec.	1 - 1/10 sec.	
	Wabash — Sylvania	No 3			
Electronic flashlight tubes	All makes and types		-	1 - 1/300 sec	

Easy operation

Control of all actions before exposure is extremely quick and easy without crossing the hands. The photographer holds the camera with both hands, thus ensuring its stability. The release lever is actuated by the thumb of the right hand, the focusing lever by the forefinger of the left hand.

ACCESSORIES

The accessories of the FLEXARET IVa Reflex Camera comprise: an eveready leather case with a strap for carrying in the hand or over the shoulder:



a sunshade, 30 mm in diameter, for slipping on the taking lens. When photographing against the sunlight the sunshade prevents direct sunrays from entering the objective, thus eliminating reflection;

a set of colour filters made of optical glass tinted in the material. The filters are accurately ground and polished. They are fitted with mounts for slipping or to the taking lens.

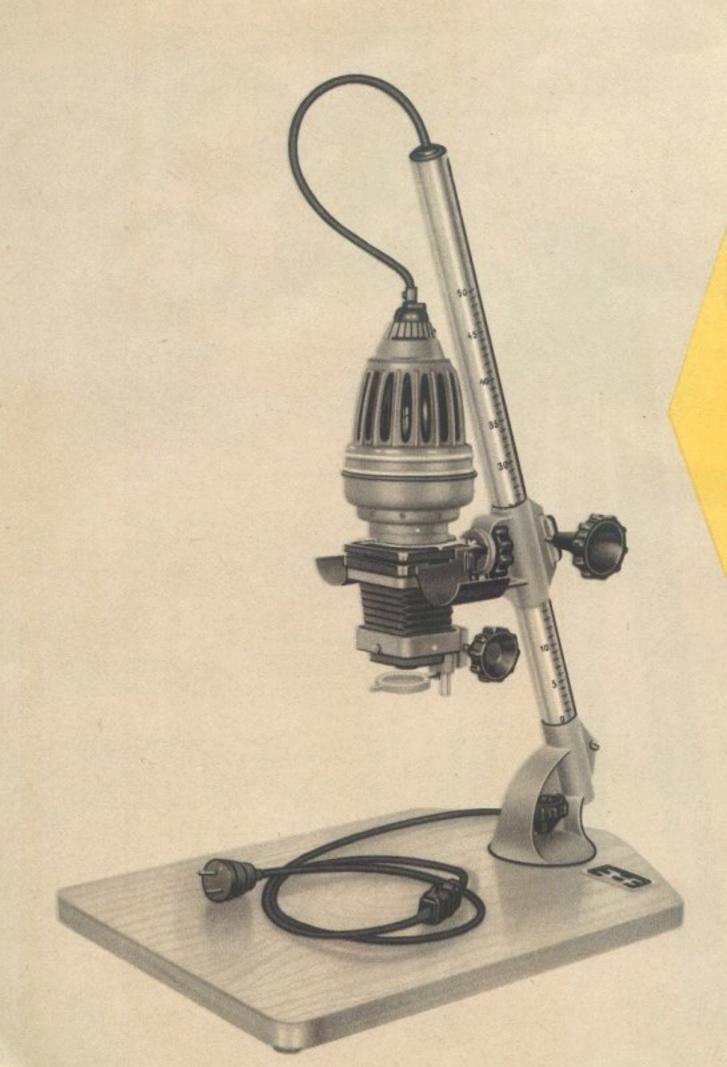


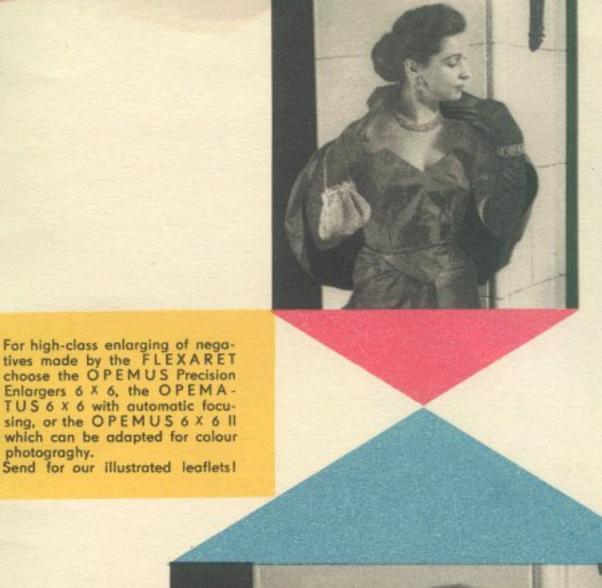


COLOUR FILTERS AND THEIR APPLICATION

	Colour		Expe	posure prolongation with material		
Type of filter	pe of filter and density Application		ortho	ortho- panchro	panchro	infra
G 1	Yellow- bright	Universal filter for accentuating contrasts, Improves reproduction of summer clouds, brightens teint.	2×	1,5×	1,5×	1
G 2	Yellow- medium	For correct transfer of colours on to ortho-material. For photographing land-scapes, snow and clouds.	3×	2×	2×	-
G 3	Yellow- dark (orange)	For photographing hazy horizonts, re- producing of paintings and national costumes. Accentuates vivid colours of nature.	4×	3×	3×	1
GGR 1	Yellow- green	For correct transfer of colours on to ortho- and panchro-material. Pictures of landscapes, clouds, snow, flowers, national costumes.	3×	2×	2×	-
GR 1	Green	For correct transfer of colours on to panchro-material in day-light, Eliminates fading of lips on portrait exposures.	4×	3×	3×	-
B 1	Bright- blue	For correct transfer of colours on to panchro-material in artificial light. Eliminates fading of lips on portrait exposures.	1	-	2×	-
R 1	Red	For photographing hazy horizons. Moody pictures on panchro- and infra-material.	1	10×	6×	10×
UV	Almost colour- less	Essential for photographing in mountains and in high altitudes for damping the effect of ultraviolet rays. In lowlands in winter with sunlit snow.	-	-	-	-









Some good tips for beginners.

Possessing a FLEXARET IVa Reflex Camera, you will be soon initiated into the art of photography, providing, however, you always observe the following four principles:



GOOD COMPOSITION OF THE IMAGE ON THE SCREEN ACCURATE FOCUSING PROPER STOPPING DOWN OF THE LENS SUITABLE EXPOSURE TIME

A good composition of the image will be learned by experience; you will easily get accustomed to focusing accurately. For ascertaining the conditions of light on photographing and consequently for determining the proper stop number and the accurate exposure time, use a dependable exposimeter or make use of the following Table:

melopla Hexaret

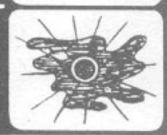
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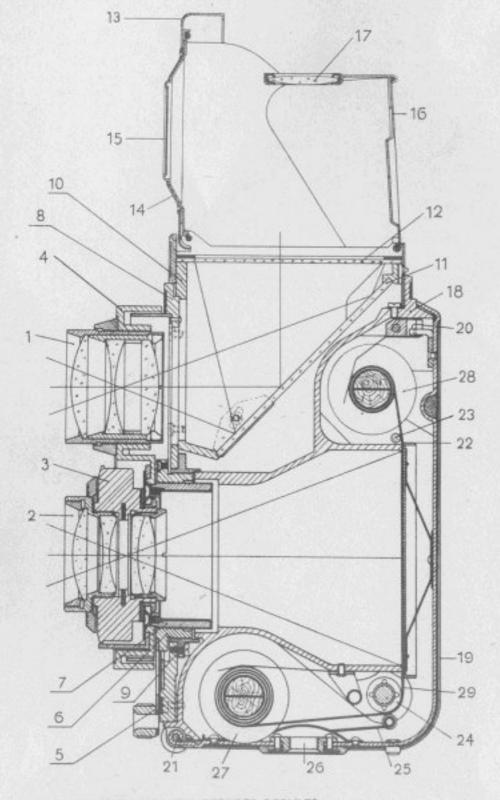
17/10° DIN 32 ASA						DIN BO ASA
3.5	_	_	300	100	25	5.6
5.6	_	300	100	50	10	8
8	300	100	50	25	5	11
11	100	50	25	10	2	16
16	50	25	10 %	5	1	22
					>X:	

10/10° DIN = 6 ASA

13/10° DIN = 12 ASA







THUS YOU WILL ACHIEVE PERFECT RESULTS.

All details concerning the FLEXARET IVo Reflex Camera are to be found in the Operating instructions supplied with the apparatus.

FLEXARET IV a SEMI-AUTOMATIC REFLEX CAMERA

- 1. Viewing lens, f/3, F=80 mm, three-glass anastigmat.
- Taking lens, BELAR f/3.5, F=80 mm, four-glass three-elements asymmetric anastigmat.
- Central shutter, PRONTOR SVS, adjustable to B-time and snapshot exposures from 1 to 1/300 sec.
- 4. Lens carrier.
- 5. Focusing lever with depth of focus scale.
- 6. Focusing nut (attached to the focusing lever).
- 7. Focusing screw (rigidly attached to the lens carrier).
- Carrying plate (independent part carrying the focusing nut in a threaded mount and the folding hood frame).
- 9. Threaded mount for fixing the focusing nut.
- 10. Folding hood frame.
- 11. Folding hood mirror.
- 12. Folding hood ground glass screen.
- 13. Folding hood front wall.
- Open frame finder mask for 6×6 cm size.
- 15. Open frame finder mask for 24×36 mm size.
- 16. Folding hood rear wall (with opening of the open frame finder).
- 17. Magnifier in swing-off holder.
- 18. Camera body proper, made from an aluminium alloy die casting.
- 19. Camera rear lid.
- 20. Rear lid lock.
- 21. Rear lid hinge.
- 22. Pressure plate.
- 23. Upper film roller.
- 24. Measuring sprocket.
- 25. Spring-loaded film-holding device.
- 26. Tripod nut.
- 27. Spool with film.
- 28. Wind-up spool.
- 29. 6×9 film (B2) with backing paper.