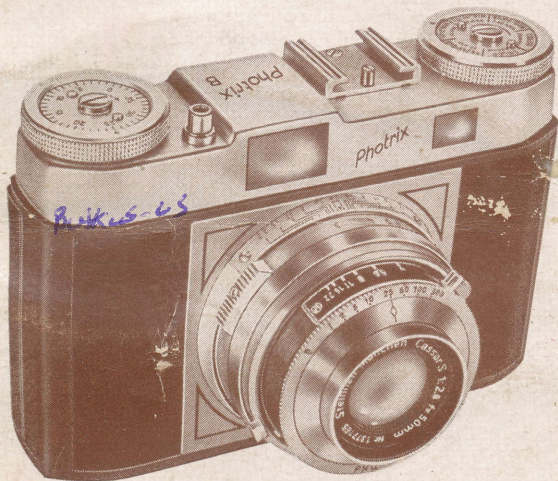



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Photrix B

MONTGOMERY WARD



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PRONTOR-SVS

Shutter

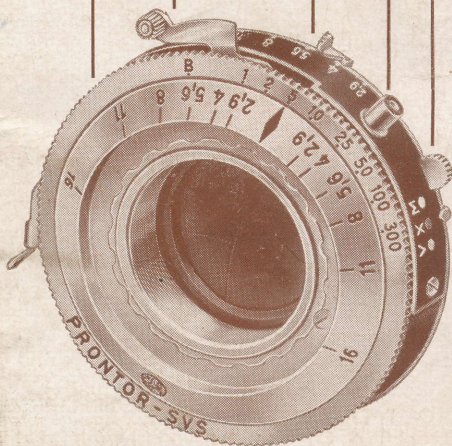
Speed Setting Ring

Cocking Lever

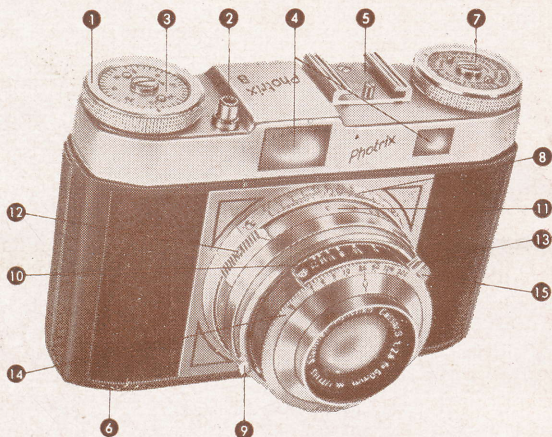
Diaphragm Setting Lever

Flash
Contact Socket

Synchro
Switch Lever



Photrix B PARTS



- | | |
|---|---|
| 1. Winding knob | 8. Depth of focus scale |
| 2. Body release button and cable release contact | 9. Lens opening control |
| 3. Film counter dial | 10. Lens opening scale |
| 4. View and range finder | 11. Focusing scale |
| 5. Accessory clip | 12. Focusing ring |
| 6. Release for double exposure and rewinding (Bottom of base of camera) | 13. Flash setting |
| 7. Rewinding knob and film indicator | 14. Shutter setting ring |
| | 15. Synchro switch lever MX-adjustment and self timer |

SPREAD OUT THIS DOUBLE PAGE AND
HAVE THE CONTROLS OF YOUR PHOTRIX B VISIBLE
WHILE YOU READ THIS BOOK

INTRODUCING THE *Photrix B*

Your Photrix B camera is a precision 35 MM camera made to give you years of excellent service. Its accurately calibrated rangefinder is coupled to the lens for perfect picture taking - automatically shows you when the picture is correctly focused. It is convenient to use and will produce top quality pictures.

Before using the camera, we suggest that you become thoroughly familiar with its many features.

Take time to read the following instructions carefully. Once the various operations of the camera become automatic, you will receive fullest enjoyment from its use.

LOADING THE CAMERA

Your Photrix B camera uses standard 20 or 36 exposure 35 MM black and white or color film. To open the camera, pull out the rewind knob (7) to its limit and turn left as indicated by the arrow, until back of camera opens and can be easily removed. Insert film cartridge well beneath rewind knob, so it engages the prongs of the knob. The empty spool at the winding knob end of the camera is the take-up spool on which the film is wound. Turn winding-knob (1) in direction of arrow until slot of the take-up spool is toward you. If the winder will not turn, press shutter release button (2). This releases the double exposure prevention device and permits you to turn the winder. Draw film across back of camera and insert in slot. Turn winding knob in direction of arrow until film perforations are engaged with sprockets. Replace camera back. (Use slight pressure and it clicks in locked position). Turn film winding knob in direction of arrow until it stops. Then press shutter release button (2) and turn film winding knob again until it stops. Repeat once again - the film is now in position to shoot your first picture.

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FILM COUNTER DIAL

Set red dot at "0" on film counter dial (3). By winding the film after each exposure, the film counter is automatically advanced and the dial indicates the number of exposures which have been taken.

FILM LOAD INDICATOR

The film load indicator disc (7) helps you remember what type of film is in the camera. Set the red dot according to the ASA speed or type of film you are using.

LENS OPENING

The red dot above the lens opening scale marks the correct lens opening. Turn the lens opening scale ring lever (9) until the red dot appears above the desired lens opening. This scale shows stops from $f=2,9$ to $f=22$. The largest lens opening is $f=2,9$ (lets in the most light), for use when shooting in poor light. $f=22$ is the smallest lens opening (lets in the least light) and gives maximum depth of field - or the longest distance from nearest to furthest point of sharp focus.

SHUTTER SPEED

Your Photrix shutter has speeds from 1 to $1/300$ second plus bulb. On the scale 1 equals one second, 2 equals $1/2$ second, 5 equals $1/5$ second, 10 equals $1/10$ second etc. Turn shutter setting ring (14) until desired speed is indicated. There is a distinct relationship between shutter speeds and f/stops. A change to a larger f/stop lets you use a faster shutter speed an vice versa.

FOR EXAMPLE: The average s-etting for color film shot in bright sunlight is $1/50$ at $f=6,3$. Equivalent settings, giving the same exposure are $1/25$ at $f=8$ and $1/100$ at $f=5,6$.

In general you should use fast shutter speeds and large f/stops to stop action, while sacrificing depth of field. When depth is important, use slow shutter speeds (plus a tripod at $1/25$ and slower and small f/stops).

"B" is the setting for long exposures. The shutter stays open as long as release (2) is held down. For a long exposure setting, the camera should be mounted on a tripod and a cable release should be used to minimize camera movement.

Consult the exposure information included with your film. This is a dependable guide for correctly exposed pictures.

THE RANGEFINDER - VIEWFINDER

Your Photrix rangefinder and viewfinder are combined in a single viewing window for convenience. The coupled rangefinder is a superimposed image type. As you look through it you see, in the center, a light square area containing a double image. Focus on vertical objects, whenever possible. Focus the lens by turning the focusing ring (12) until the double images coincide and the camera is in focus. If you have difficulty seeing the double image, look through the viewfinder and cover the small window with your finger. Continue looking through viewfinder and uncover the window. The lighter area containing the double image will now be more distinct.

DEPTH OF FOCUS SCALE

The depth of focus scale (8) indicates the near and far limits of area of sharp focus for any combination of shutter opening and subject distance. This area is known as the depth of focus.

The depth of focus scale has two sets of lens opening numbers, one set on each side of the red focusing self pointer. These numbers indicate on the focusing scale (11) the near and far limits of sharp focus. You will notice that as lens opening is decreased and as subject distance is increased, the depth of focus increases.

FOR EXAMPLE:

If you are using a $f=11$ lens opening and the camera is focused on a subject at 9 feet, read the distances opposite the $f=11$ numbers on both sides of the focusing scale pointer. These distances, 7 feet and 14 feet, indicate the near and far distances of sharp focus. If you are using a $f=16$ lens opening and the camera is focused on a subject at 15 feet, read the distances 7 feet and infinity opposite the $f=16$ numbers on both sides of the focusing scale pointer. These distances again show the near and far limits of focus for this particular combination of lens opening and subject distance.

DOUBLE EXPOSURE

Your Photrix B camera has a double exposure prevention which prevents you from taking another picture until you have

wound the film to the next frame - that is, you cannot press the shutter release knob until you have turned the film winder knob. This prevents accidental double exposures. However, if you want to make an intentional double exposure for a trick shot, or, if a flash bulb fails to operate, push in the release for double exposure **(6)** and keep depressed while turning the winding knob. Your camera will now make a double exposure.

PRONTOR - SVS SHUTTER

The Photrix B has the new, convenient Prontor - SVS shutter. It is simple in use, wholly reliable in operation and is designed to function effectively with electronic flash and all types of flash lamps, using any desired shutter speed. It also has a built-in self timer, so you can take your own picture. Choice of method of exposure is exclusively controlled by the Synchro Switch lever **(15)**, the pointer of which controls the three settings, M, X or V.

TO TAKE FLASH SHOTS:

1. When using wire-filled lamps (called class M), like General Electric No. 5, 6, 11 or 22; or Sylvania Press 40, Nr. 8 or 25; select correct shutter speed, and set the Synchro Switch lever **(15)** on the M setting.

When using gas-filled bulbs (called Class F), like General Electric's SM or Sylvania's SF; set shutter speeds of $\frac{1}{100}$ or slower and set the Synchro Switch lever **(15)** on the X-setting.

When using zero-delay electronic flash, use any shutter speed, and set the Synchro Switch lever **(15)** on the X-setting.

FLASH EXPOSURE GUIDE

Type Lamp	Shutter Speed	Indoor Kodachrome (Type A)	Verichrome Plenachrome Sensachrome	Plus x Supreme	Super xx Superpan Press
SM or SF	$1/25$ - $1/50$	60	70	80	110
# 5,25 or 0	$1/25$	110	130	140	200
	$1/50$	100	120	130	180
	$1/100$	90	110	120	160
	$1/200$	70	80	90	130
# 11 or 40	$1/25$	130	160	170	240
	$1/50$	110	130	140	200
	$1/100$	105	120	130	180
	$1/200$	80	95	105	150

How to use the above guide: For example, the guide number for A = 5 bulb using Verichrome film and $1/25$ th shutter speed is **130**. If the camera-to-subject distance is 10 feet, divide 130 by 10, which is 13. Use the f stop closest to 13, or in this case f/11. For additional information see the outside of your flash lamp carton

Depth of focus table

F 1:2,8 f=50 (mm)

Focus- sing Scale	F e e t							
	3	4	5	6	9	14	25	∞
2,8	2,93- 3,08	3,87- 4,14	4,79- 5,23	5,69- 6,34	8,30- 9,83	12,3- 16,2	20,1- 33,2	100- ∞
4	2,90- 3,11	3,81- 4,21	4,70- 5,34	5,56- 6,51	8,03- 10,2	11,7- 17,3	18,5- 38,7	70,0- ∞
5,6	2,86- 3,16	3,74- 4,30	4,59- 5,49	5,41- 6,74	7,70- 10,8	11,0- 19,2	16,7- 50,	50,0- ∞
8	2,80- 3,23	3,64- 4,44	4,43- 5,74	5,19- 7,12	7,25- 11,9	10,1- 22,9	14,7- 86,0	35,1- ∞
11	2,74- 3,33	3,52- 4,64	4,25- 6,08	4,94- 7,66	6,76- 13,5	9,16- 30,1	12,7- ∞	25,6- ∞
16	2,63- 3,50	3,34- 5,00	3,99- 6,75	4,58- 8,79	6,08- 17,6	7,93- 63,6	10,4- ∞	17,7- ∞
22	2,52- 3,74	3,15- 5,54	3,71- 7,78	4,21- 10,7	5,43- 27,8	6,84- ∞	8,60- ∞	12,8- ∞

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