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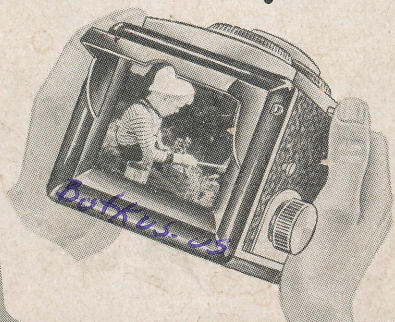
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REFLEX I

INSTRUCTION BOOK

the Picture you **SEE**
is the Picture you **GET**



PHO-TAK CORP., 17 N. Loomis, Chicago 7, Illinois



REFLEX I

Your REFLEX I is a metal camera with a large brilliant picture image screen that enables you to see the complete picture *before* you take it. It is a "ready to use" camera that has a flash shutter which permits indoor and outdoor picture taking with either black and white or color film.

Your REFLEX I uses standard size 620 *film*. Each roll of 620 film will make 12 exposures—size $2\frac{1}{4}$ " x $2\frac{1}{4}$ ".

The following pages contain information to help you use and enjoy your REFLEX I Camera. If you use it and care for it as instructed, it will give you great "picture taking" pleasure for years to come.



**Precision-engineered cameras
and photographic equipment**

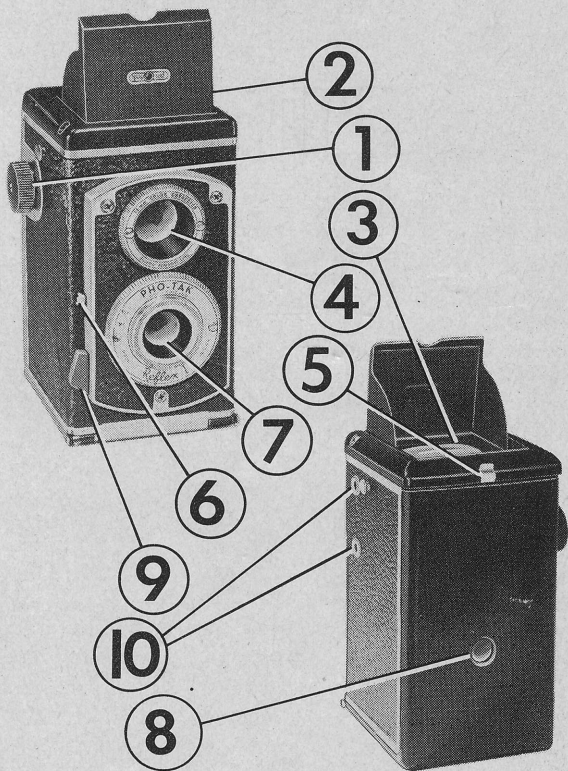


Fig. 1

- | | |
|--------------------------|-------------------------------|
| 1. Winding Knob | 7. Taking Lens |
| 2. Viewfinder Hood | 8. Film Window |
| 3. Picture Image Screen | 9. Shutter Release Lever |
| 4. Viewing Lens | 10. Flash Contact Receptacles |
| 5. Film Door Lock | |
| 6. Shutter Control Lever | |

1. LOADING THE CAMERA

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This camera has been designed to provide a simple and easy method for loading your film rapidly and securely. Always remember that film should be loaded in dim light. Care should be taken to see that the film does not unroll loosely during the loading process. Such a condition will cause fogging of the film and spoiled pictures.

A. To load, press the film door lock (No 5, Fig. 1) in toward the camera and when the back cover is slightly open, swing the back cover **DOWNWARD**. (See arrows in Fig. 2.)

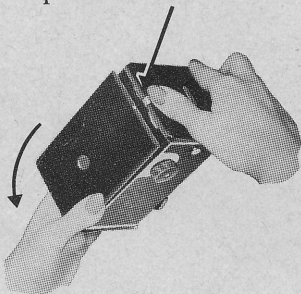


Fig. 2.

B. Hold camera upside down and swing film holder up and out (dotted lines in Fig. 3). Spread ends of film holder enough so that roll of film fits between the two locating pins. Push film holder back into film well and pull up 2 or 3 inches of the film paper (as shown in Fig. 3).

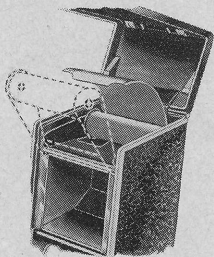


Fig. 3

C. Now pull the start of the film paper (see Fig. 4) until you have sufficient film paper (colored side up) to permit your threading it into the larger slot of the "take-up" spool at the top of the camera.

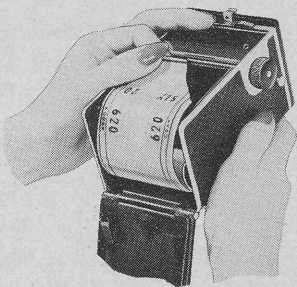
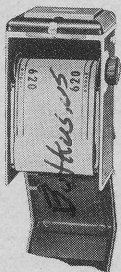


Fig. 4,



D. Now turn the winding knob (No. 1, Fig. 1) clockwise for two or three turns to securely anchor the paper into the "Take Up" Spool. Make sure the paper is securely held onto the spool and is winding straight before closing the Camera Back.

When closing the back, *be sure* the pin on the camera back locks shut in the film door lock. (See Fig. 5.)

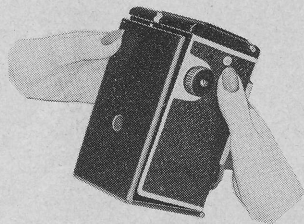


Fig. 5.

E. Now you are ready to wind film into place for the first picture. Turn winding knob (clock-wise) until Figure 1 appears centered under red film window in back of camera. You are now ready to take the first picture. Repeat this procedure for each succeeding picture number. (See Fig. 6.)



Fig. 6.

NOTE. For black and white pictures use No. 620 film (12 exposures to roll). For color, use No. 620 Kodacolor (9 exposures to roll). Use Kodacolor Daylite for outdoor snaps and Kodacolor Type A for indoor snaps.

2. TAKING THE PICTURE

A. Set the shutter for all snapshots or flash pictures by moving shutter control lever (No. 6, Fig. 1) to position marked "INST."

B. The "TIME" position is used only when taking pictures indoors without the flash attachment or outdoors when there is very little light. To take pictures under these conditions it is necessary to hold the camera in a very secure position while exposure is being made. Press Shutter Release Lever and hold down the required time for exposure. (See Fig. 7.)

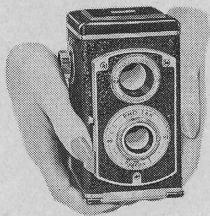


Fig. 7.

C. Open the viewfinder hood (No. 2, Fig. 1) by inserting thumb in opening provided and lifting hood to upright position. (See Fig. 8.) The scene in the picture image screen (No. 3, Fig. 1) will be the same as the picture on the film. (See Fig. 9.)



Fig. 8.

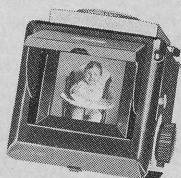


Fig. 9.



Fig. 10

D. Hold the camera steady, using both hands at waist level, (higher or lower for special effects), and adjust the direction of the camera until you see in the picture image screen the image you want in your finished picture. Now press the shutter release lever, (No. 9, Fig. 1), toward the lens with a *slow, smooth* action until the shutter "clicks." Fig. 10 shows correct picture taking position.

NOTE. Be sure camera is held steady and does not move while you press shutter release lever, as any movement when the shutter is open will blur the picture.

3. REMOVING THE FILM

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A. After the last picture on a roll of film has been taken, (No. 12 in the red window), turn the winding knob clockwise until the end of the colored protecting paper on the film roll passes the film window and is completely wound onto the "Take Up" Spool.

B. Open the back of the camera under dim light and lift film spool out of camera. (Fig. 11.) Fold the end of the protective paper under and fasten it with the gummed sticker. Now remove the empty spool from under the film holder spring and place it in winding position at top of camera. You are now ready to reload camera.

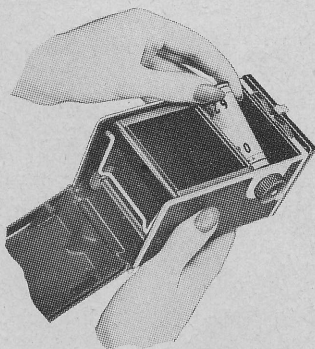


Fig. 11.

CAUTION. Be sure film roll, when out of camera or when loading and unloading, is kept in tightly wound position at all times, as any light getting onto film will fog the film and spoil your pictures.

4. TAKING FLASH PICTURES

Your REFLEX I Camera has built-in synchronization and requires no special adjustments for taking flash pictures through use of the REFLEX I FLASH ATTACHMENT.

This Flash Attachment uses bayonet base type flash bulbs. It operates from two standard size "C" dry cell batteries, or a standard flash pack for "long life" as is available for this size attachment.

The built-in "Test Lite" on the back of the Flash Attachment handle is for your convenience in checking for "short circuit" and for telling you at all times the condition of your batteries. It uses a standard flashlight bulb which is replaceable.

The high quality polished reflector is designed to give you full value of your "flash".

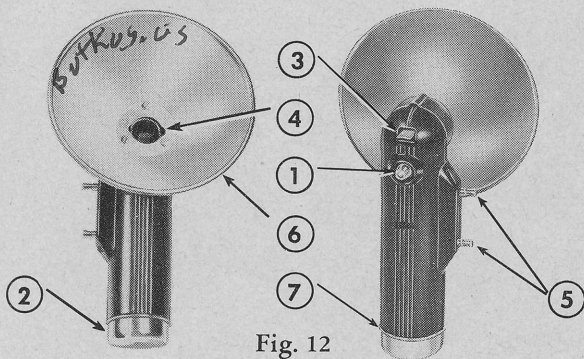


Fig. 12

1. Test Lite
2. Battery Cap
3. Bulb Ejector Lever
4. Flash Bulb Receptacle

5. Flash Contact Pins
6. Reflector
7. Contact Ring

INSERTING BATTERIES

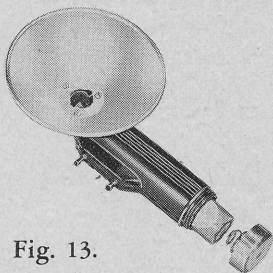


Fig. 13.

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A. Unscrew the battery cap, (No. 2, Fig. 12), at bottom of flash attachment handle and insert two size "C" flashlight batteries. Be sure batteries are fresh. When flash attachment is not being used, it is suggested you remove batteries to insure longer life. (See Fig. 13.)

After batteries are put in, screw cap back onto plastic handle. **BE SURE THAT IT IS ON TIGHT AND THAT UPPER EDGE OF METAL CAP IS BEARING FIRMLY AGAINST CONTACT RING** (No. 7, Fig. 12). Like an ordinary flashlight, unless your battery cap is screwed on tight, you are apt not to have good contact with batteries.

ATTACHING FLASH UNIT TO CAMERA

B. Attach your REFLEX I FLASH ATTACHMENT to the camera by inserting the two FLASH CONTACT PINS (No. 5, Fig. 12) into the flash contact receptacles (No. 10, Fig. 1), on the side of the camera. Push pins in all the way until flash attachment is bearing on the side of the camera. (See Fig. 14.)

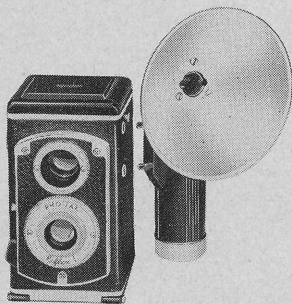


Fig. 14.

INSERTING FLASH BULBS

C. To insert flash bulb into Flash Bulb Receptacle (No. 4, Fig. 12), turn bulb until bayonet pins on sides of flash bulb align with notches cut out in center opening of reflector. Bayonet pins will thus pass through reflector and into flash bulb receptacle of attachment. Bulb will now snap into place and will be held firmly until ejected by Bulb Ejector Mechanism.

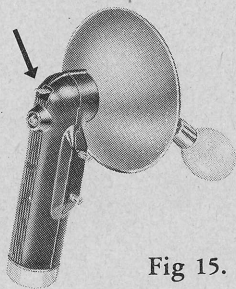


Fig 15.

D. To eject bulbs after flashing, hold flash attachment with face of reflector away from you and press Bulb Ejector Lever (No. 3, Fig. 12) on back of flash attachment handle. Bulb will be automatically ejected and your flash attachment is ready for loading with fresh bulb. (See Fig 15.)

PHO-TAK "TEST LITE" on your Reflex Flash Attachment will automatically light up any time that there is a short in the flashing circuit of your flash attachment or your camera. Should the light be on when the flash attachment is not attached to the camera, you will know that the short is in the flash attachment. Should the light come on only when the flash attachment is attached to the camera, you will recognize the short circuit as being in the camera. When the short circuit is corrected, the Test Lite will go off. (No. 1, Fig. 12.)

To check the condition of the batteries in your flash attachment, touch any metal object to both flash contact pins (No. 5, Fig. 10), on the flash attachment. This will light the Test-Lite. If the light glows weakly, you will recognize your batteries as being weak, and if the Test-Lite fails to glow, it will indicate that the batteries are too weak and should be replaced.

CAUTION:

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1. When making the above test for batteries be sure that there is no flash bulb in the attachment, as it will be discharged when you make contact between the two flash contact pins.
2. If for any reason the Test-Lite is "on", indicating a short in the circuit of either attachment or camera—DON'T INSERT A FLASH BULB until short is found and corrected and Test-Lite goes off. A bulb inserted when a short circuit is present will discharge immediately upon insertion.
3. Be sure shutter control lever is at "INST."
4. Be sure base of flash bulb is clean. If in doubt, rub base lightly across any slightly abrasive surface, such as cement, plaster, etc., to clean.
5. Most batteries have a shelf life of 6 months and must, under normal limited useage, be replaced after this time.
6. Insert flash bulb after flash attachment has been plugged into camera.
7. Eject bulbs with the bulb ejector lever.
8. Keep a firm grip on BOTH camera and flash attachment when being used together.

With proper care and use, the REFLEX I Camera will serve you well and efficiently for many thousands of pictures.

REFLEX I FLASH CHART

Film	Flash Lamps			No. 5B (Blue)
	SM SF	No. 5	No. 25	
Kodak Verichrome Ansco Plenachrome.	5-7 ft.	6-10 ft.	8-14 ft.	
Kodak Plus X Ansco Supreme	5-8 ft.	7-12 ft.	9-15 ft.	
Kodak Super XX Ansco Superpan Press	5-10 ft.	10-16 ft.	12-20 ft.	
Kodacolor (Type A) (Indoor)	Under *3½ ft.	*4-6 ft.	5-7 ft.	
Kodacolor (Daylight) (Outdoor)				Under *4½ ft.

*Use portrait attachment for distances under 5 feet.

FILM

If you are going to take pictures out-of-doors on a fairly bright day or flash pictures indoors, orthochromatic type films such as Plenachrome and Verichrome are satisfactory. If your picture will be taken on a fairly dull day or if your flash pictures are going to be made at some distance, use the fast panchromatic type film such as Super XX or Super Pan Press. For color pictures in bright sunlight, use Kodacolor Daylight film, or indoors by photoflash bulbs, use Kodacolor Type A film.

Your Reflex I uses size 620 film and takes 12 exposures 2¼" x 2¼".

DOUBLE EXPOSURE

Be sure to wind film to the next exposure after snapping each picture.

BLURRED PICTURES

Hold your camera steady. Be extra careful when pressing shutter release so as not to jar the camera.

"CUT OFF" PICTURES

Aim your camera at the center of the subject you are photographing and be sure you are not too close. Don't change the position of the camera after you have looked in the viewfinder. In taking close-ups or portraits, allow a little extra space in your view finder above the subject's head to compensate for difference in position of the viewfinder and lens.

TILTED PICTURES

Hold camera level—don't tilt camera at angle.

FOGGED FILM

Don't aim your camera directly at a strong light or the sun. Use a lens hood or shade the lens with your hand. Don't load the camera with film in direct sunlight and be sure that the film is tightly wound. Use the same care when unloading the camera. Avoid using out-dated film.

UNSATISFACTORY FLASH PICTURES

Don't stand too close to subject. Be sure batteries are inserted properly and are fresh. See that all contact points are clean. (Wet the top of the base of the bulb with your tongue to increase electrical contact.) Bulb must be held firmly. Be sure batteries are fresh.

REFLEX I ACCESSORIES

REFLEX I FLASH ATTACHMENT \$4.95

Your Reflex I Camera has built-in synchronization and only requires the Reflex I Flash Attachment for taking flash pictures.

REFLEX I CARRYING CASE \$4.95

Protect your Reflex I Camera with this specially designed cowhide leather case that permits use of the camera and flash attachment without removal from the case.

REFLEX I FILTER-PORTRAIT LENS KIT \$4.95

Consists of:

1. Sunshade-filter holder for shielding the lens from direct sunlight.
2. Yellow filter for pronounced cloud effects.
3. Portrait lens for taking close-up pictures and portraits under 5 feet.
4. Leather case for storing above lenses.