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Instructions for Using

PaX-35

We are glad you decided on a Pax-35, and congratulate you on your choice.

The Pax-35 is the result of years of experience in the camera industry and is also a product of close collaboration between science and industry.

We hope you will be greatly satisfied with your Pax-35, a camera that combines durability, beauty, and precision.

Tatsuo. Mino
PRESIDENT

YAMATO CAMERA INDUSTRY CO., LTD.

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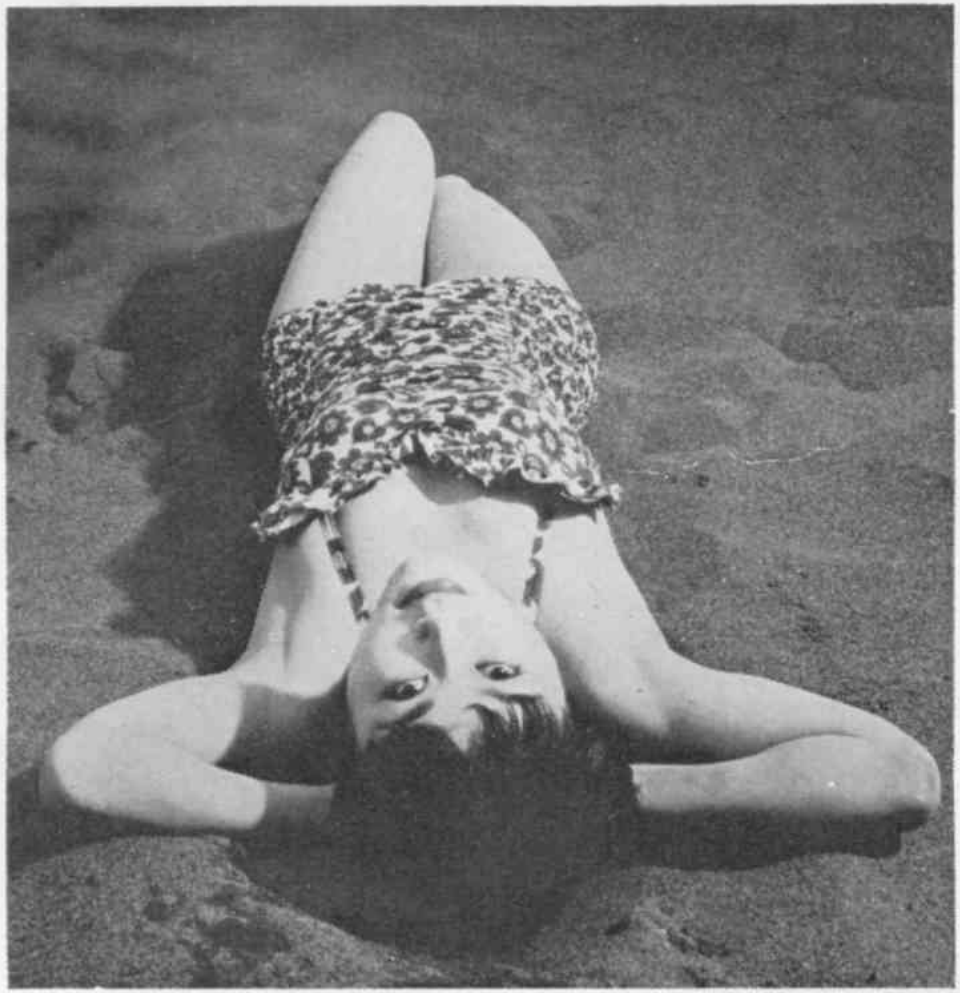


General Introduction of Pax-35

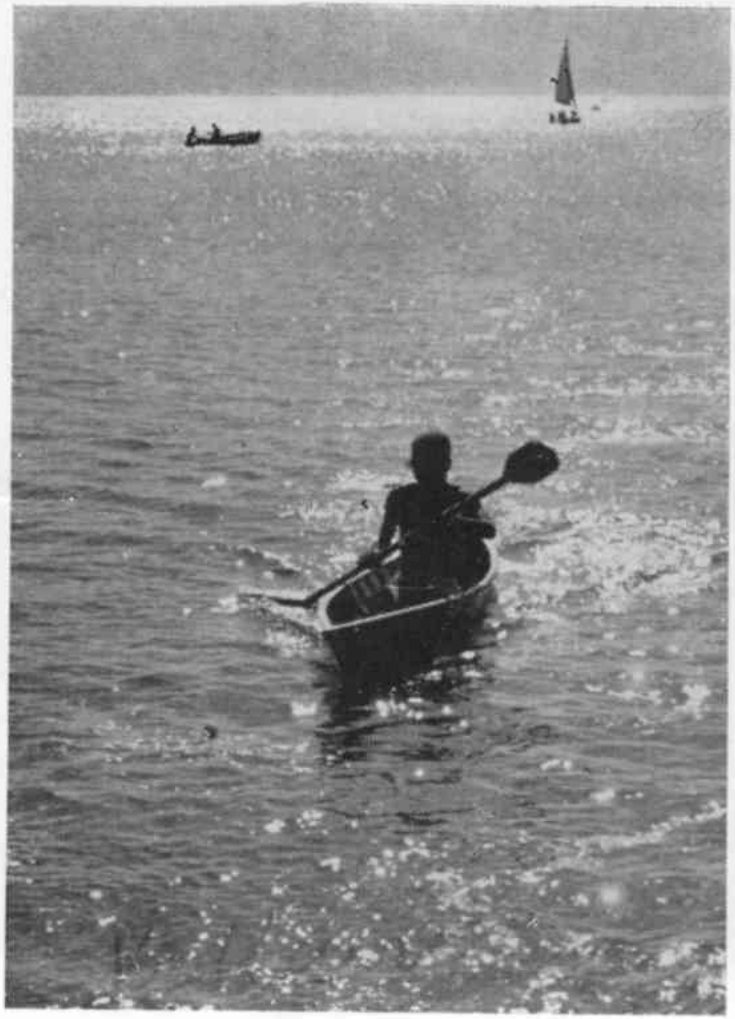
Simple to Use !
Remarkable Results !

• The Pax-35 is the outstanding miniature camera in its field.

All controls are simple to operate, yet the camera has such versatility as will meet the requirements of exacting photographers.

• The most important thing on a camera is its lens. The Pax-35 lens is the coated "LUMINOR" 45 mm. f : 3.5 which has excellent depth of focus, unequalled brilliant definition, and is highly color corrected. When using color film you will be convinced of the exceptional quality of this lens.

• The Pax-35 is equipped with a coupled range-finder making it unnecessary to estimate distances.
Guess work is eliminated and with every picture you can be certain of exact focusing.



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• The detachable back of the Pax-35 allows you to change the film in a few moments and makes it easy to clean and inspect the inside of the camera.

• A locking lever is located on the body to prevent accidental opening.

• A perfect German Compur type flash terminal is built in which fits all up-to-date flash guns.

• The high quality of the Pax-35 is guaranteed against defects in workmanship for one year from date of purchase.

• Before loading the camera with film, read the following instructions carefully.

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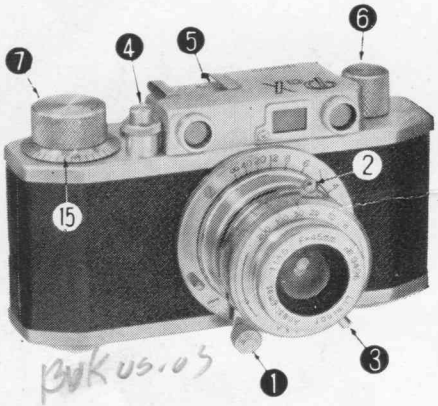
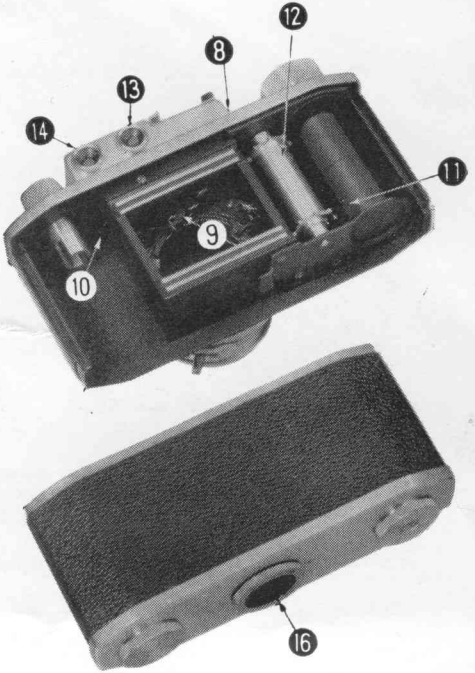


1. Focusing lever
2. Cocking lever
3. Flash terminal
4. Release button
5. Accessory clip
6. Rewinding knob
7. Winding knob
8. Rewinding button
9. } Screws for adjusting range-
10. } finder

11. Film take-up spool
12. Sprocket wheel
13. View-finder eye piece
14. Range-finder eye piece
15. Film counter dial
16. Locking lever



Technical Details of Pax-35

Lens :	" LUMINOR " Anastigmat, 45 mm. f : 3.5 Coated and Color Corrected
Shutter :	Speeds B. (1/10, 1/25, 1/50, 1/100, 1/300 sec.) F type Flash synchronization
Focusing :	Helical type
Film :	35 mm standard cartridge.
Picture Size :	24 mm × 36 mm
Dimensions :	4 ½" long and 2 ½" high, 0.94 lbs. in weight.

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How to Use Pax-35

1. Loading the Camera

(Do not load film in direct sunlight.)

1. To open the camera, turn the lock lever (16) on the bottom of camera from "L" (lock) to "O" (open) in the direction of the arrow, and slide the back of camera slowly towards the bottom for about one inch. Then slide camera back off of body.

2. Pax-35 takes standard 35mm daylight loading film. Place the loaded film cartridge in the film chamber. Pull out the film leader about 4 inches from the cartridge, towards the film take-up spool at opposite side. Insert the leader into slit in film take-up spool. (See Fig. 1)

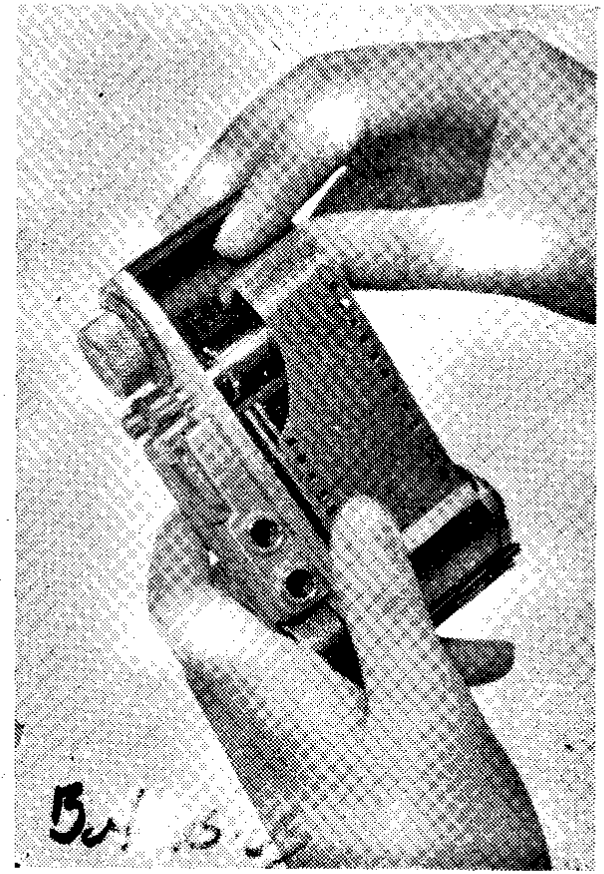

Fig. 1.

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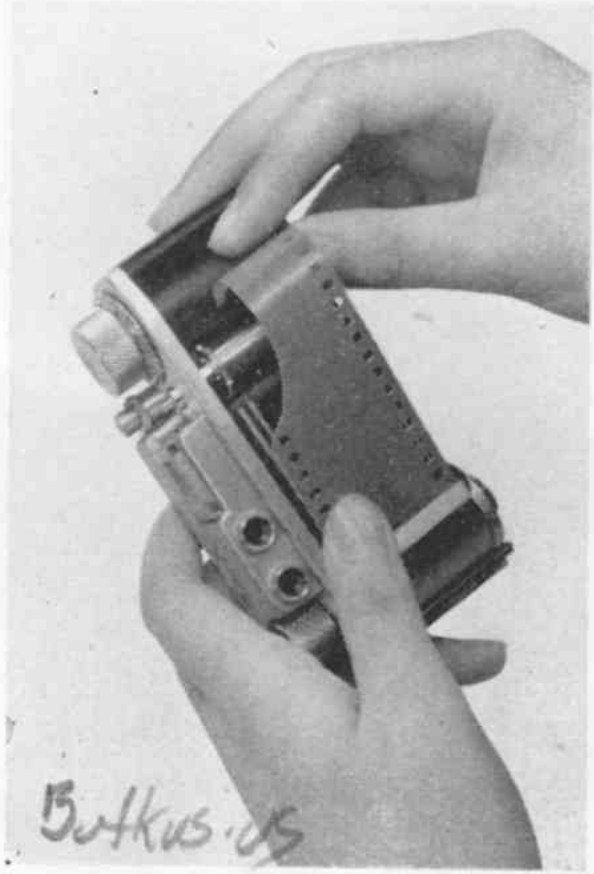

Fig. 1.

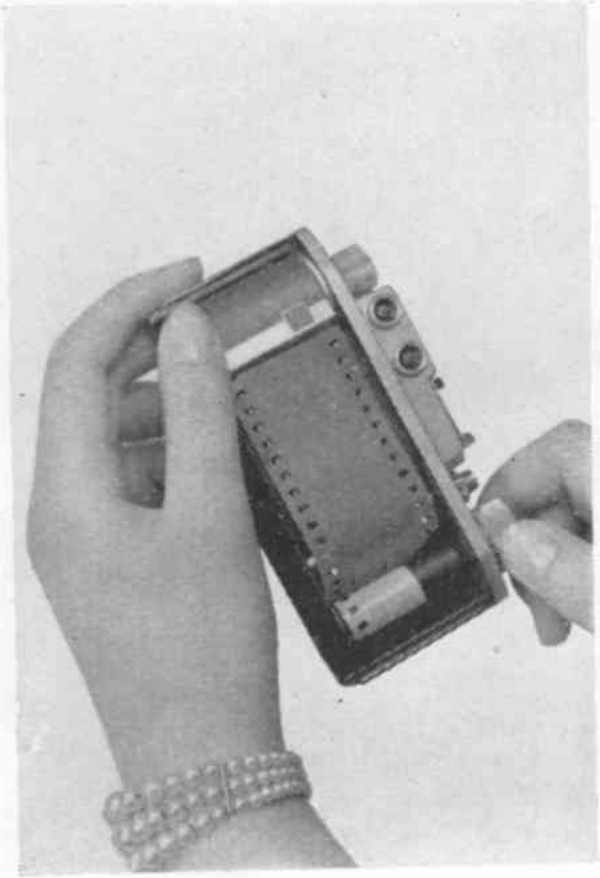

Fig. 2.

3. Turn the film winding knob (7) slowly in the direction of arrow marked on the knob until the sprocket wheel (12) securely engages the perforations in the film margin. (See Fig. 2)

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4. After the film is properly loaded, slide the back of camera into its former place with a slight downward pressure of the right thumb. The camera back is now securely in place. (See Fig. 3)

Next, turn the lock lever (16) on the bottom from "O" to "L".

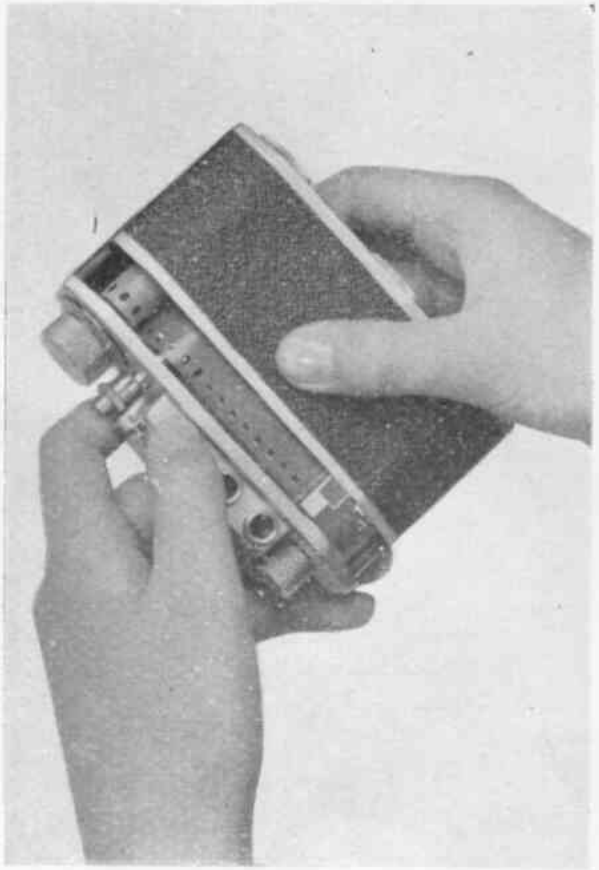

Fig. 3.

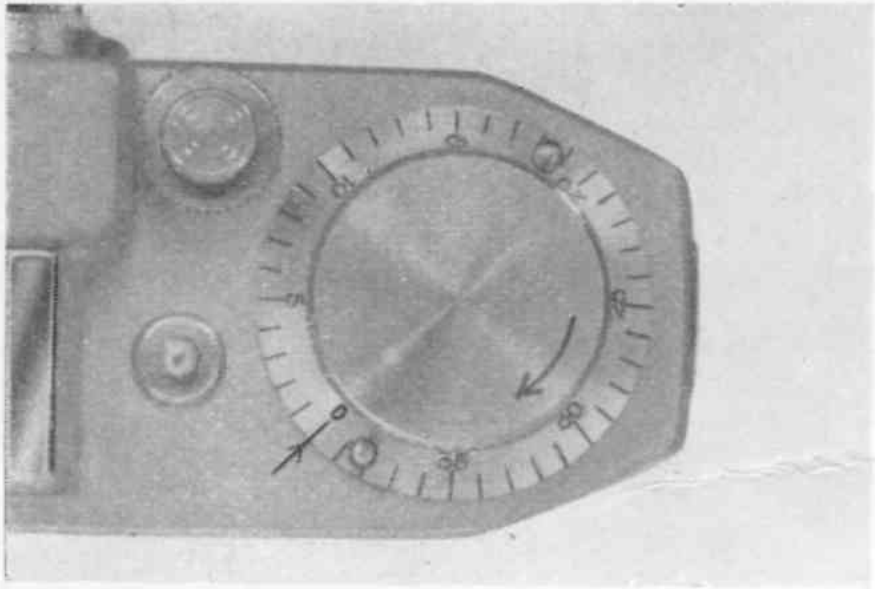

Fig. 4.

5. Press the shutter release button and turn the winding knob (7) until it stops. Release the shutter again and repeat this operation two more times.

6. Align "O" (zero) on the film counter dial (15) with marker. (See Fig. 4)

Now you are ready to take your first picture.

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II. Taking Pictures

1. Focusing with range-finder

Place your right eye at the range-finder eye piece (14), and aim at the subject. In the center of the field of the finder, you see a circular area in which there is a double image of the subject.

By moving the focusing lever (1) with index finger of the left hand the two images can be made to merge into one. (See Fig. 5 and 6)

The lens is now in perfect focus.

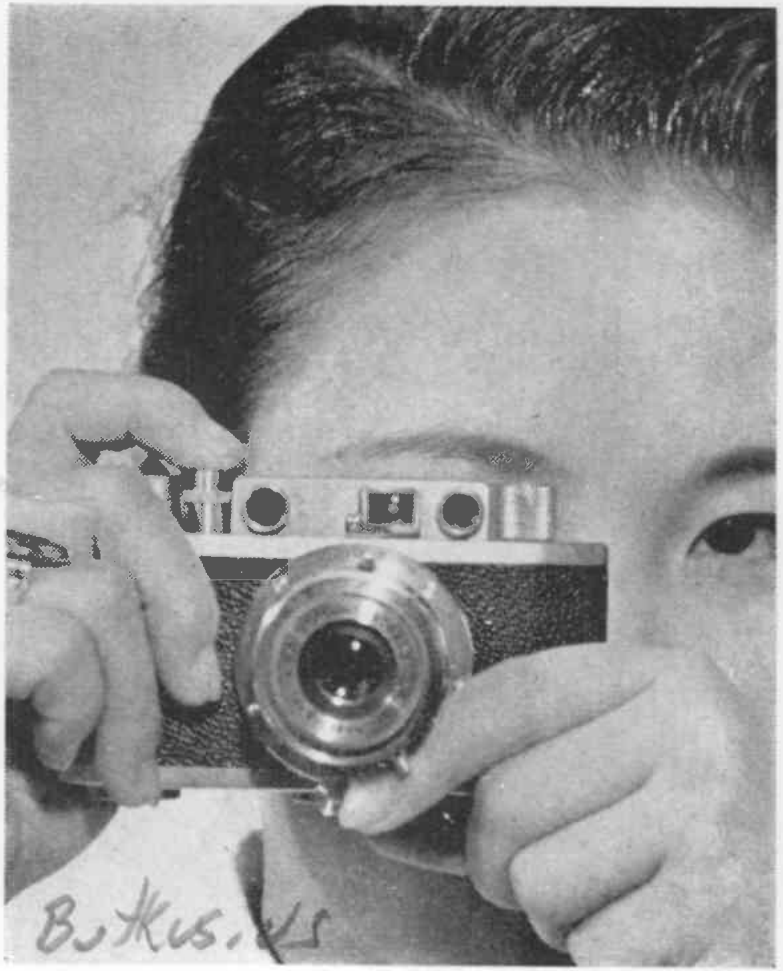

Fig. 5.

Fig. 6.

2. Setting shutter

After determining correct shutter speed and lens opening, move the shutter speed dial to the proper setting and set lens at correct lens opening. Then cock the shutter by pushing down the shutter cocking lever (2) to left.

3. Holding the camera and releasing the shutter.

a. The Pax-35 should be held firmly but not rigidly in both hands, as shown in Fig. 7. Care should be taken to prevent movement of the camera while pressing the release button. Press elbow to body for added support.

b. Push the shutter release button (4), using steady even pressure, with your index finger. To make upright pictures the Pax-35 may be held as shown in Fig. 8 and 9.

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Fig. 7.

Fig. 8.

Fig. 9.

III. Removing the Exposed Film

After entire roll of film has been exposed, the film winding knob will not turn further. Do not force it beyond this point. Now the film must be rewound into the original cartridge from the take-up spool.

Press the rewinding button (8), and pull up the rewinding knob (6). Turn the rewinding knob until the entire film has been completely rewound into the cartridge. (See Fig. 10)

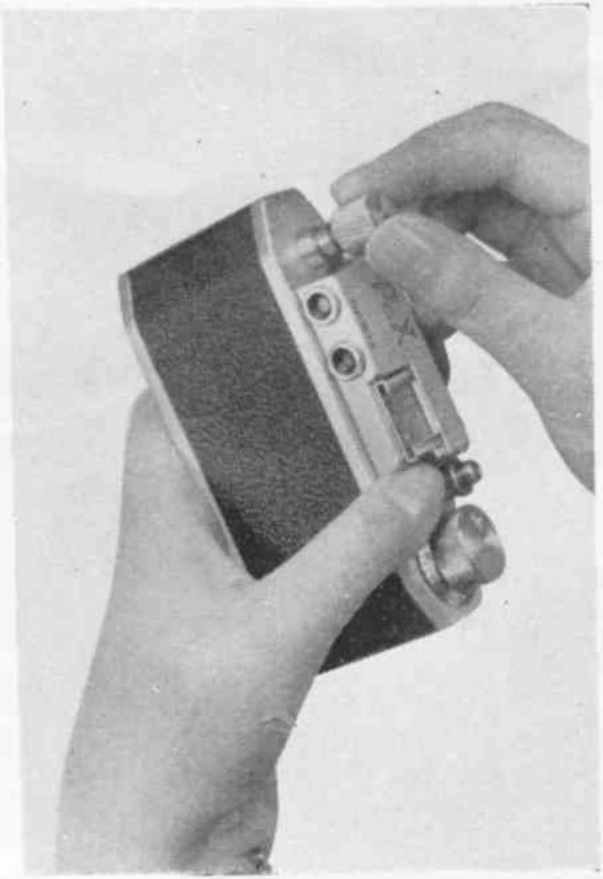

Fig. 10.

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SMALL ACCESSORIES

1. Filters

Your Pax-35 lens will give you pictures of excellent sharpness ; but the mood of the picture can often be improved by using filters.

Yellow filters help to bring out the clouds and are a "must" for snow scenes and scenes at sea shore.

Green filters lighten red color and will bring out greens in landscapes. Also recommended for out-door portraits.

With the Pax-35 you may use any slip-on type filter which is 28.5 mm in diameter. Screw-on type filters 20.0 mm size may also be used.

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2. Lens hoods

Lens hoods are valuable lens accessories and should be used whenever possible. They prevent stray light from intering the lens and give pictures that crisp look. Care should be taken to use a large enough lens hood on your Pax-35. Using one too small may cause the corners to be cut off of the picture.

Candid Photography

Due to its compactness the Pax-35 is admirably suited for the field in which miniature cameras excel. That is candid photography.

You can photograph people in the streets without their knowledge, take them in natural positions, with natural expressions, doing things that are characteristic of them.

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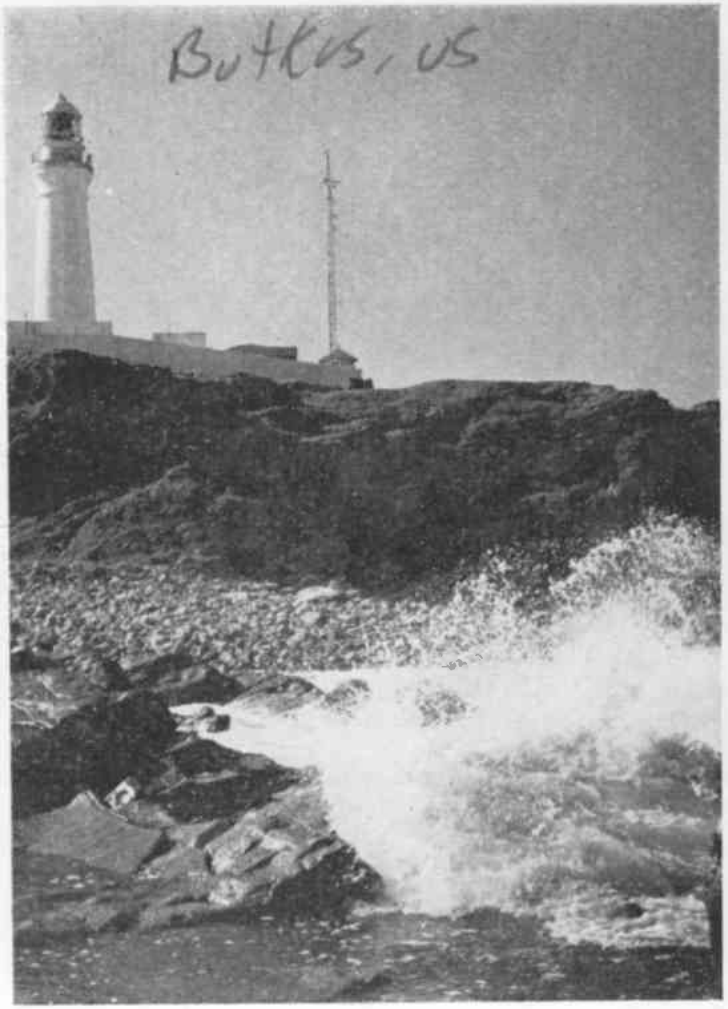
Out-door Pictures

In taking out-door pictures there are three things to watch out for : bald skies, flat lighting, and incorrect exposure.

(1) Bald skies are easily corrected by the use of an appropriate filter or by the use of proper film which will darken the skies without the use of any filter. Don't forget that overexposure will cancel out the effect of a filter, while a slight underexposure will take the place of one.

(2) Flat lighting can be overcome by avoiding the middle of the day for picture taking.

(3) The best way to avoid incorrect exposure is to use a photoelectric exposure meter. The danger with most out-door shots, especially landscapes and distant scenes, is overexposure.



Flash Photography

Your Pax-35 is equipped with built-in synchronization to meet almost every purpose. Flash photography is, under many conditions, the only way in which natural, unposed pictures can be made. For indoor sports, such as basket ball, boxing, wrestling, etc. synchro flash photography is ideal. It is also suited for photographing the baby, children and animals, catching their unpredictable activities, protecting them against uncomfortable heat and glare of photofloods.

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Synchro photography in sunlight is also useful. Direct sunlight or strong backlight usually casts large shadow areas over the features of the subject. Proper flash technic will solve this problem, by throwing enough additional light into these areas to brighten up the shadows.

Calculating exposure for flash.

Determining correct exposure for flash is very simple. With a given flashbulb and a given film speed, the distance in feet (from subject to flash) multiplied by the stop number equals a constant factor.

This factor system has been worked out by the manufacturers of flashbulbs, who in their exposure guides provide factor numbers (usually referred to as Guide Number) for all bulbs.

As an example of how it works, let us assume that you have decided to use a flashbulb with a Guide Number of 80 and placed your camera 10 feet from the subject. By dividing 10 (the distance in feet) into 80 (the Guide Number) you get 8 (or F/8), the correct lens opening to use.

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Selecting flashbulbs for your Pax-35

There are three general classes of flashbulbs, F (Fast) class, M (Medium) class and F. P. (Focal Plane) class.

The Pax-35 Camera has been designed to use F class bulbs. With F bulbs (such as No. SS or SM) it is possible to take flash pictures at all shutter speeds.

Use of M class bulbs with the Pax-35 is also possible. However, when using M bulbs (such as Press No. 5 or Press No. 25) flash pictures should only be made at 1/25 of a second.

F. P. bulbs (such as No. 6 or No. 22) are designed for use with Focal Plane Shutter Cameras, and are not recommended for use with the Pax-35.

Step by step procedure for flash pictures

- Focus Pax-35 on subject with range-finder.
- Read off the distance to the subject.
- Set shutter speed.
- Calculate the lens stop using the flashbulb Guide Number and set the lens.
- Insert flashbulb and take the picture.

To avoid misfire

(1) Batteries should always be fresh and when not in use, removed from flashgun.

(2) The socket of flashgun and flashbulb bases must be clean to prevent oxidization.

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Portraiture

Lighting the subject, proper background, posing the subject, focusing, correct exposure are the major factors when making portraits either out-doors or indoors.

Out-door portraits are easier to make than those made indoors. The lighting is better, natural backgrounds may be used, the subject is posed with less strain and it is easier to see image through the finder.

To make good portraits, you need soft, and diffused lighting. Light must not be so strong and harsh as to make the eyes strain or blink. The direct sunlight often produces altogether too much contrast. The sun should be at one side and the subject should look at right angles to it.

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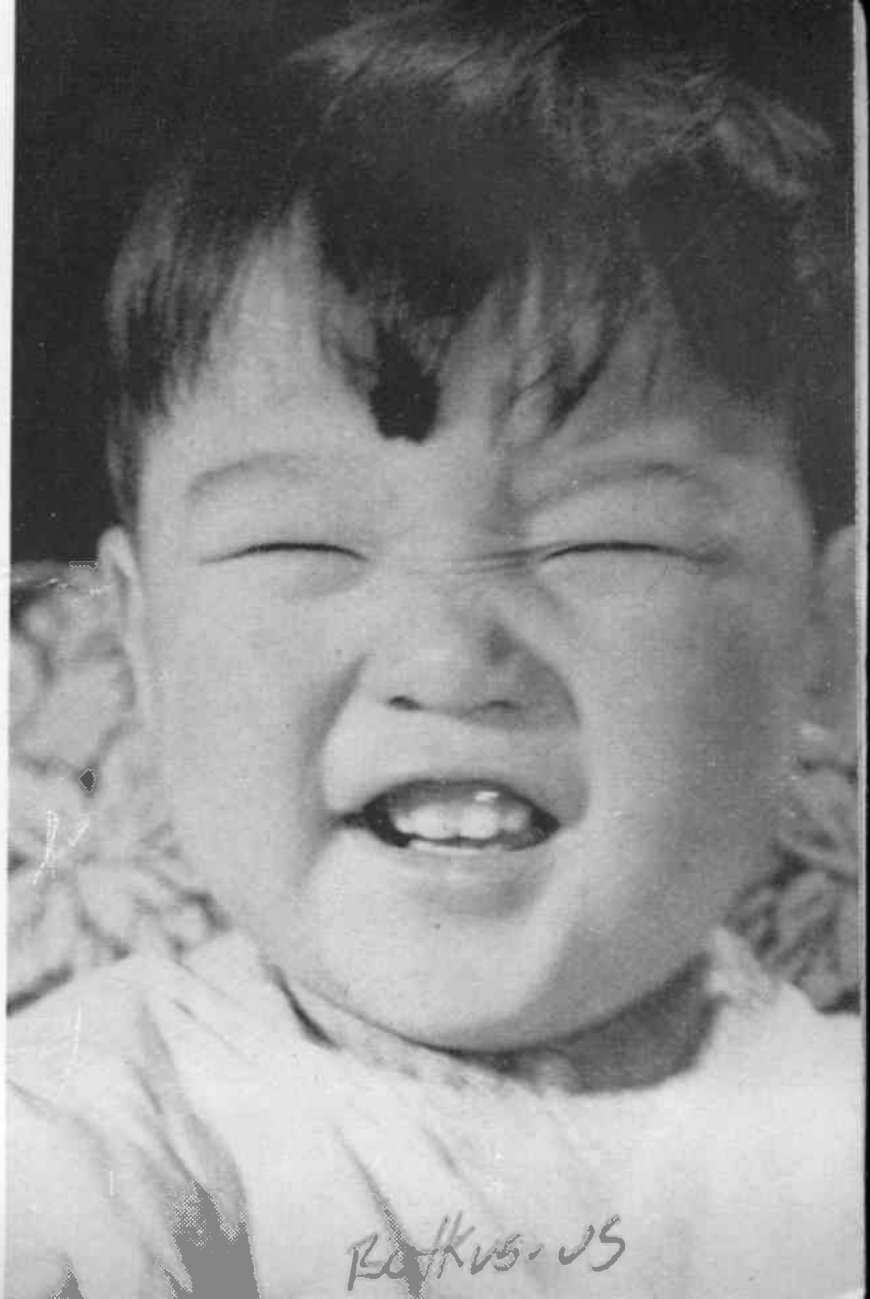
To make a good likeness of a person, the pose should be a perfectly natural one. Focus on the eyes and when you have them sharp the other parts of the image will also be in focus.



Color Photography

You can take color pictures with your Pax-35.

Correct exposure is critical when you use color film, because the exposure latitude of color film is very limited. The use of a photoelectric exposure meter is recommended.

When taking color picture with flash, you must use special blue flashbulbs.

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Proper Care for your Pax-35

a. Keep your camera always in a dry place when not in use. It is best to keep it safely enclosed in a moisture-proof box or case.

b. Do not leave your camera unused with the shutter cocked as this may weaken the shutter spring.

c. Periodically clean the camera body with a soft brush to remove dust or dirt.

d. Keep lens surface spotless with proper tools. (soft brush or lens tissues.)

How to adjust the range-finder

When you find anything wrong with the range-finder, put the distance lever on the mark of infinity (∞), and turn the adjusting screws (9) and (10) slightly with a small screw driver so as to make the image to merge into one completely.

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YAMATO CAMERA INDUSTRY CO., LTD.

(YAMATO KOKI KOGYO CO., LTD.)

55, HIGASHI 4-CHOME, MAGOME-CHO

OTA-KU, TOKYO, JAPAN