


INSTRUCTION BOOK



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NOMENCLATURE

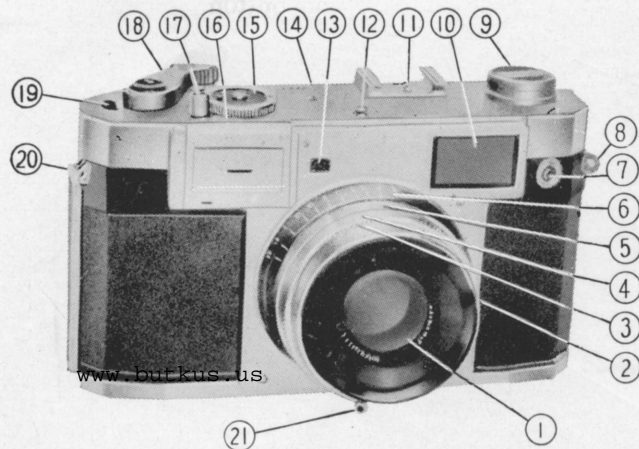


Fig. 1

- ① Lens
- ② MX flash terminal changing lever
- ③ Shutter speed indicator
- ④ F-stop indicator
- ⑤ Depth of field scale
- ⑥ Distance scale
- ⑦ Flash synchronizer terminal
- ⑧ Shoulder strap retainer rings
- ⑨ Film rewinding knob
- ⑩ View finder window
- ⑪ Accessory shoe
- ⑫ Exclusive meter amplifier joint
- ⑬ Range finder window
- ⑭ Zero adjustment screw
- ⑮ Light meter dial
- ⑯ Built-in light meter
- ⑰ Shutter release button
- ⑱ Film winding lever
- ⑲ Exposure counter
- ⑳ Back lid release lever
- ㉑ Self-timer lever

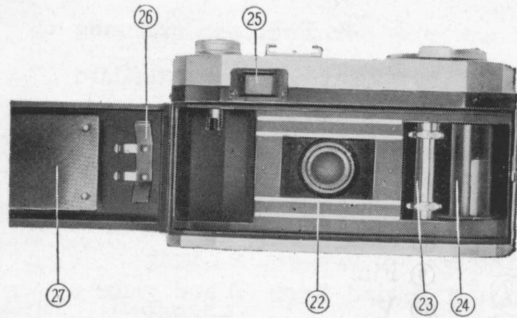


Fig. 2

- ②② Guide rail
- ②③ Sprocket
- ②④ Spool
- ②⑤ Eyepiece for combined range and view finder
- ②⑥ Film cartridge supporter
- ②⑦ Film pressure plate

- ②⑧ Tripod holding screw
- ②⑨ Rewind button

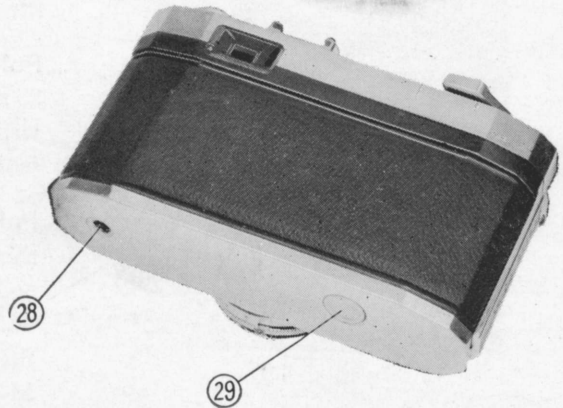


Fig. 3

FILM LOADING

The New ROYAL 35-M accepts any standard 35 mm cartridge in either 20 or 36 exposure roll.

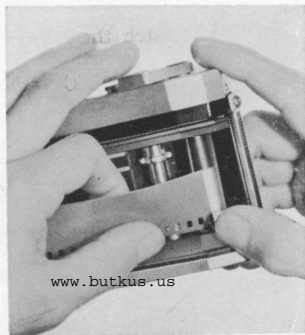


Fig. 4

1. Pull out the back lid release lever ⑳ and lift the back lid.
2. Pull up the rewind knob ⑨ and place a 35 mm film cartridge in the film chamber with the protruding end of the cartridge facing down. Reinsert the rewind knob.
3. Pull out enough film to reach across to the winding spool and insert the narrow end of the film into the clip ㉔ of the winding spool. At the same time, secure the perforated edges into the sprocket ㉓. Move the film advance lever ㉑ a few short strokes to be sure the perforations mesh with the sprocket. When this is secure, close the rear lid.

4. At this time, the exposure counting indicator ⑱ will show "S." Now move the rapid wind lever as far forward as possible and push the shutter release button. Repeat the process. The third winding will indicate number 1 on the exposure counting indicator.
5. Turn the ASA indicator on the light meter dial ⑮ to match the ASA rating number of the loaded film.

Remarks :

- ★ Because the shutter mechanism of the ROYAL 35-M guards against double exposures, it is necessary that the shutter button be pressed each time the film is advanced. The shutter button also cannot be released unless the film winding lever is returned to its original position.
- ★ While winding the film, note that the rewind knob turns counter-clockwise. If this action does not occur, the film is not meshed in the sprocket—reopen the lid and reset the film.

For example in case of ASA 100:

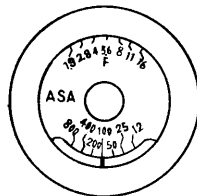


Fig. 5

TAKING THE PICTURE

The shutter speed and lens opening regulates the amount of light reaching the film. The smaller numbers on the F-stop dial represents larger lens opening. By turning the F-stop dial to the next larger number, the size of the lens opening is reduced by one-half of previous lens opening.

The correct combination between the shutter speed and F-stop can be attained by the use of the built-in light meter.

By directing the light meter to the subject, the reflective intensity of light can be determined readily.

The correct brightness can be measured in the following way:

1. By closing the multi-filter flap when the subject is bright.
2. By opening the multi-filter flap (push the side button) when the light conditions are dim.

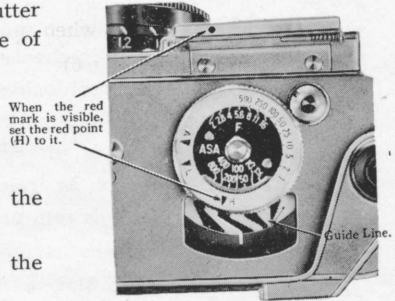


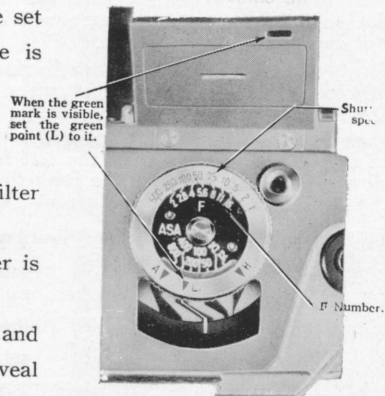
Fig. 6

3. By attaching the amplifier to the accessory shoe with the multi-filter flap open for extra dim conditions.

The arrow of the light meter dial ⑮ must be set to the guide line to which the meter needle is pointed.

1. Use the red arrow (H) when multi-filter flap is closed (Fig. 6).
2. Use the green arrow (L) when multi-filter flap is open (Fig. 7).
3. Use the black arrow (A) when amplifier is used.

When this is accomplished, the shutter speed and F-stop readings on the light meter dial will reveal all possible combinations such as $1/250$ sec at F : 2, $1/50$ sec at F : 4 as revealed in figure 7. Now set the aperture according to this reading.



FOCUSING THE CAMERA

Grasp the camera as illustrated in figures 8 and 9 and sight the subject matter through the viewfinder-rangefinder eyepiece (25). That portion within the golden frame will be within the scope of the photograph.

Further, encircled part by near distance adjusting mark can be photographed, when 80 cm or shortest distance is taken by you. (Fig. 10)

Note that a double image appears in the center of the field of vision. With the left forefinger, slowly turn the knob of the rangefinder until the double image is superimposed. When this



Fig. 8



Fig. 9

is accomplished, the camera is ready for photographing. Hold the camera steady with both hands and slowly release the shutter button. Repeat the afore-mentioned process for different settings. This operation can be accomplished very swiftly and accurately by the automatic mechanisms incorporated in the new ROYAL 35-M such as the synchronized view and rangefinder, rapid winding lever, and the built-in light meter.

Remarks :

- ★ Once the shutter button is released, the button remains in the down position until the film is wound again.
- ★ The film winding lever must be moved as far forward as possible so as to prevent imperfect winding.

UNLOADING THE FILM

When the exposure counter dial shows that all frames have been exposed, lift the rewinding knob handle ⑨. While pressing the rewind button ⑳, crank the rewind knob in the direction of the arrow. Do not rewind the film too rapidly as it may cause scratches on the film.

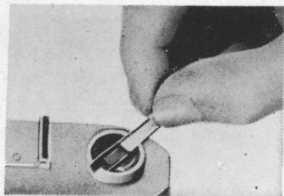


Fig. 11

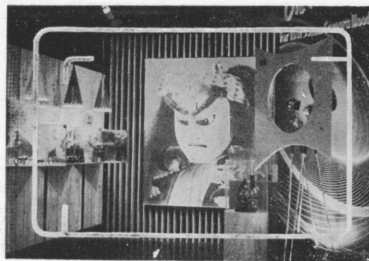


Fig. 10

When a marked degree of resistance occurs, turn the rewind knob a few more times thus assuring that all the film is returned into the cartridge. Now open the rear lid, lift the rewinding knob and take out the cartridge.

HOW TO USE THE BUILT-IN LIGHT METER

The built-in light meter of the ROYAL 35-M measures the amount of light reflecting from the subject towards the camera. Theoretically it is enough to face the multfilter towards the subject from the camera position. However in practice, the correct exposure reading cannot be obtained without considering the light reflecting from the background, the sky, and the ground in addition to those from the subject.

CLOSE UPS :

Take the meter about four inches from the person to be photographed and take readings for the hair, face, and clothing. Set the dial to the average reading thus obtained. Be careful so as not to cast your own shadow over the subject.

GENERAL SCENERY :

When reading the light value of outdoor scenes, it is recommended that the meter be pointed slightly downward so as to exclude the light entering from the sky. This will reduce the exposure time slightly and will improve the tonal quality of the picture.

For open sceneries such as far off mountains, reduce the shutter speed by one-half for reason that the contrast of the object is reduced by the dispersed light from the horizon.

PEOPLE ON BEACHES OR SNOW:

When photographing people on beaches or snow, double the exposure time as read on the meter so as to compensate for the strong reflecting light of the surroundings. This need not be done for closeups.

COLOR PHOTOGRAPHY:

There is essentially no difference between black and white and color photography. Set the ASA index on the light meter and measure the light value of the subject carefully as color films have less latitude than do black and white films.

PHOTOGRAPHING IN EXTRA DIM CONDITIONS:

If the meter needle does not swing over even with the amplifier attached, point the meter directly to the source of light. Now set the shutter speed at ten times the meter reading. For instance, with a reading of 1/10 sec at F:5.6, set the shutter speed at 1 sec using F:5.6.

ZERO ADJUSTMENT SCREW:

When the meter needle slips from the zero position even when the multi-filter baffle is completely covered, turn the adjustment screw either left or right until the needle is set on zero.

FLASH PHOTOGRAPHING

Insert the flash gun cord into the terminal ⑦ of the camera. The flash attachment can be used fixed to the camera or separately on a tripod. Select the correct terminal of the MX flash terminal changing lever ② which corresponds to the flash lamp being used. Synchronized photographing can be accomplished in the shutter speed range as illustrated in the diagram. On the flash photographing, the exposure time is decided by the burning time of the flash bulb. Therefore the exposure is regulated by opening the iris in relation to the distance between the flash bulb and the object. The relation between distance and lens opening is decided by the guide number (distance \times F number) on the flash bulb carton. When the self-timer is used, only the X terminal can be used.

Synchronized Speed Range

	X	M
Speed light	All Speed	—
F Class Bulb	1~1/50 sec.	—
M Class Bulb	1~1/25 sec.	1/25~1/500 sec.

SELF-TIMER: When the terminal changing lever has been set at X, and the self-timer lever ②① has been depressed, push the shutter release button. The shutter will click in 8 seconds.

CABLE RELEASE: Screw in the plug type cable release cord on the upper part of the shutter release button.

FILTER AND HOOD: Use either the 40.5 mm filter screw-in frame or the 42 mm cover frame and the 42 mm hood cover frame.

TRIPOD: Screw in the male screw on the top of the tripod into the bottom of the camera. This can be done with the camera in its case.

STRAP: When the camera is carried without the case, attach the shoulder strap to the retainer rings ⑧ on both sides of the camera.

DEPTH OF FIELD: When the subject to be photographed is brought into focus, there will be some range, both in front of and behind the main subject which can be photographed. The sharpness of these images depends directly on the aperture setting. This range of sharpness is known as the depth of field.

The following formula can be applied to the depth of field:



Fig. 12

1. The greater the distance, the greater the depth of field.
2. The smaller the F-stop, the greater the depth of field.
3. The depth of field behind the subject is greater than that in front of the subject.

The depth of field scale ⑤ shows this relationship. For example, if the distance between the camera and subject is 2 m (6 feet 6 inches) and the aperture setting is F:8, the depth of field will be from 1.6 m (5 feet 3 inches) to 2.7 m (9 feet). When it is desired to obliterate images in front of and behind the focused subject, open the F-stop to a smaller number.

HANDLING THE CAMERA

The ROYAL 35-M is a precision instrument and should be handled with care.

1. Do not handle with dirty hands, or put in contact with harmful matters such as salt, acid, or oil.

Do not expose camera to sand or salt water.

3. Do not touch the lens with the fingers. When lens is soiled, wipe lightly with lens paper and alcohol.

4. Do not expose the camera to extreme temperatures.
5. When storing the camera, wipe off all fingerprints and replace the lens cap.
Discharge the shutter release button so as not to cause undue strain on the shutter spring.
6. Do not tamper with the mechanisms—should the camera need adjustments, take it to a camera repair shop.

10 FEATURES OF THE ROYAL 35-M

1. Needle sharp Tominor lens.
2. Reputed COPAL 1/500 sec shutter with self-timer and MX flash terminal.
3. Bright viewfinder with 0.8 magnification.
4. Built-in Sekonic light meter.
5. Synchronized rangefinder effective to 0.8 m (31 inches).
6. Single stroke film winding lever with automatic shutter cocking mechanism.
7. Shutter release button with film wind indicator.
8. Automatic return film counter.
9. Crank-type film rewind knob.
10. All indicators visible from top of camera.

ROYAL CAMERA CO., LTD.

Srinted in Japan