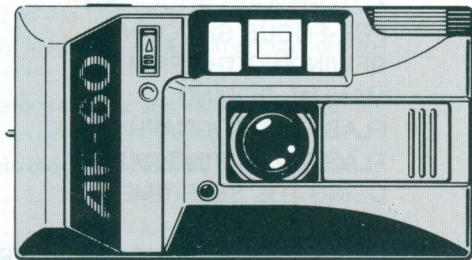


RICOH

OWNER'S MANUAL

COMPACT CAMERA AF-60



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CONGRATULATIONS!

You have just purchased a fine camera that will give you many years of picture-taking pleasure. The AF-60 camera is designed to make 35 mm photography as easy as taking pictures with a conventional 110 pocket camera.

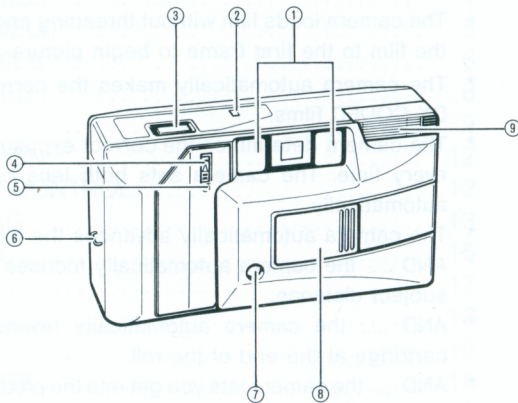
- ★ The camera loads film without threading and it automatically advances the film to the first frame to begin picture-taking.
- ★ The camera automatically makes the correct film speed setting with DX-CODED films.
- ★ The camera determines the correct exposure for sharp, clear pictures every time. The camera sets both lens opening and shutter speed automatically.
- ★ The camera automatically advances the film for the next picture.
- ★ AND the camera automatically focuses for the correct camera-to-subject distance.
- ★ AND the camera automatically rewinds the film back into the cartridge at the end of the roll.
- ★ AND the camera lets you get into the picture too, by using the built-in self-timer.

Before using your AF-60 camera:

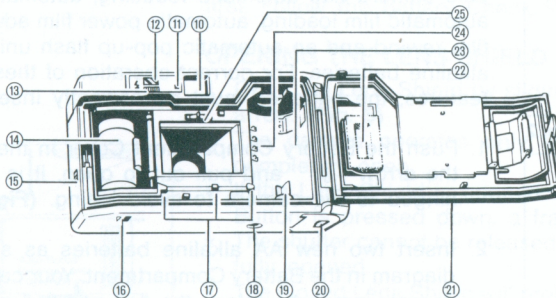
Please read this instruction booklet carefully and familiarize yourself with the camera and its features. Picture-taking is easy if you know your camera well.

DESCRIPTION OF PARTS

1. Auto-Focus Windows
2. Film Counter
3. Shutter Release Button
4. Self-Timer Switch
5. Self-Timer LED
6. Strap Eyelet
7. Photocell
8. Lens Shield
9. Flash Unit



- | | |
|----------------------------------|-------------------------------|
| 10. Viewfinder Eyepiece | 18. Tripod Socket |
| 11. AF Monitor/Too Close Warning | 19. Film Rewind Shaft |
| 12. Film Advance/Rewind Monitor | 20. Battery Compartment Cover |
| 13. Flash Ready Lamp | 21. Back Cover |
| 14. Film Take-up Spool | 22. Film Loaded Window |
| 15. Back Cover Release Button | 23. Film Chamber |
| 16. Manual Film Rewind Switch | 24. DX-CODE Film Contacts |
| 17. Film Guides | 25. Sprocket |



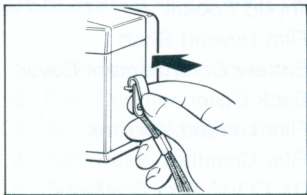


Fig.1

ATTACHING THE STRAP

Hook the strap into the eyelet on the camera body. **(Fig. 1)**

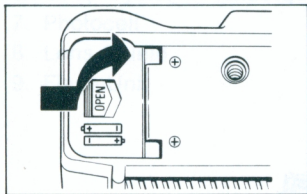


Fig. 2

HOW TO OPERATE THE CAMERA

INSERTING THE BATTERIES

This camera has automatic focusing, automatic exposure, automatic film loading, automatic power film advance, power film rewind and an automatic pop-up flash unit. It uses AA alkaline batteries. For correct operation of these automatic features, the batteries must be correctly inserted.

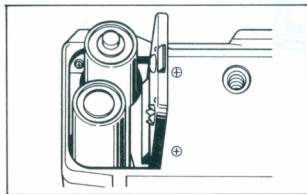


Fig. 3

1. Push the Battery Compartment Cover in the direction of the arrow  and pull out to open. It is permanently hinged to the camera to avoid losing. **(Fig. 2)**
2. Insert two new AA alkaline batteries as shown in the diagram in the Battery Compartment. Your camera will not operate properly unless the "+" and "-" ends of each battery are in the correct position. **(Fig. 3)**

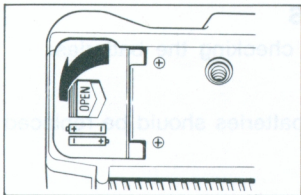


Fig. 4

3. Close the Battery Compartment Cover by pushing in the direction of the arrow. **(Fig. 4)**

- ★ Do not use nickel cadmium (rechargeable) batteries.
- ★ When the camera is not used for a long period of time, remove the batteries.
- ★ The camera will NOT operate if:
 - A) The batteries are inserted incorrectly.
 - B) The batteries are dead or low.
 - C) You failed to insert the batteries.

If the camera does not operate, always check your batteries first. Follow the Battery Check Procedure on page 6.

OPENING THE LENS SHIELD

1. Open the Lens Shield by sliding it in the direction of the arrow. **(Fig. 5)**

- ★ The camera operates only when the Lens Shield is completely open.
- ★ If the Lens Shield is opened while the Shutter Release Button is pressed down, a frame will be exposed.
- ★ The shutter cannot be released unless the Lens Shield is fully opened.
- ★ The closed Lens Shield will protect the camera lens when not in use.

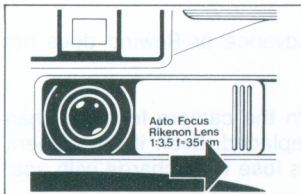


Fig. 5

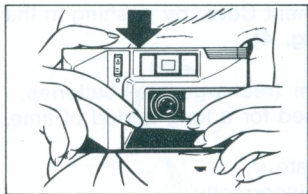


Fig. 6

CHECKING THE BATTERIES

Open the Lens Shield before checking the batteries.

1. In the following cases, the batteries should be replaced with new ones.

- ★ When you cover the Photocell with your finger and press the Shutter Release Button halfway down, the Flash Unit does not pop up. **(Fig. 6)**
- ★ When the Shutter cannot be released with the Lens Shield opened.
- ★ When the Flash Ready Lamp takes more than 30 seconds to light up.
- ★ When the motorized Film Advance or Rewind does not operate.
- ★ If the batteries have been in the camera for more than one year, they should be replaced. Even if the camera has not been used, batteries lose their charge with age.

- ★ Generally, in cold conditions, the voltage of the batteries decreases and in some cases, the camera may not operate correctly. In these cases, either warm up the batteries or keep a spare set warm in your pocket, ready to insert just before shooting.

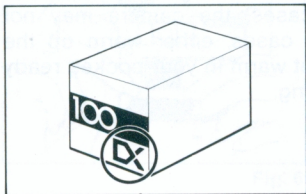


Fig. 7

SETTING THE FILM SPEED

- ★ The camera is designed for automatic use with a film with DX-CODE. The DX is indicated on the outer packaging of the film and on the film cartridge. **(Fig. 7)**
- ★ Setting the film speed is not necessary. The camera automatically makes the correct film speed setting.
- ★ If the film cartridge you are using does not have DX-CODING, the camera assumes a setting of ISO 100. Film that does not have the DX-CODE and is not ISO 100 speed may not be properly exposed.

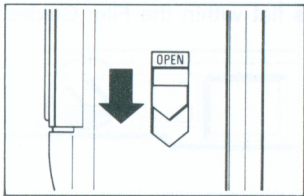


Fig. 8

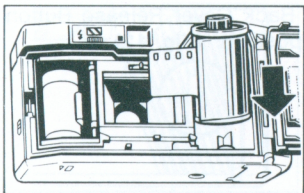


Fig. 9

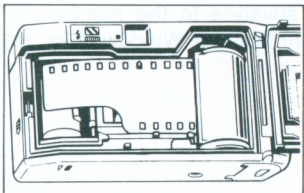


Fig. 10

LOADING THE FILM

Always load the film in the shade. Avoid direct sunlight.

1. Push the Back Cover Release Button down in the direction of the arrow “▼” to open the Back Cover. **(Fig. 8)**

2. Insert the film cartridge in the Film Chamber, with the protruding end toward the top of the camera and push it in gently. **(Fig. 9)**

3. Pull out the film leader (loose end of film) and place it over the Film Take-up Spool. **(Fig. 10)**

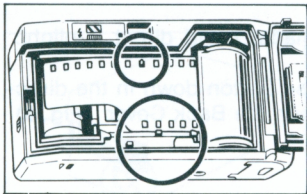


Fig. 11

4. Make sure that the film lies flat within the Film Guides. **(Fig. 11)**

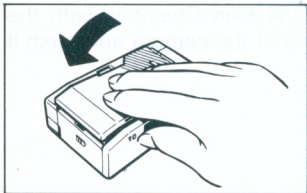


Fig. 12

5. Close the Back Cover. The Back Cover Release Button snaps back to its original position. **(Fig. 12)**

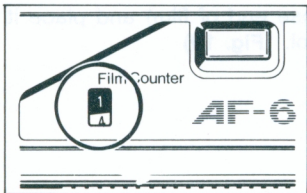


Fig. 13

6. The film will automatically advance to the number "1" position, indicated in the Film Counter Window. **(Fig. 13)**

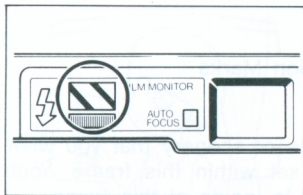


Fig. 14

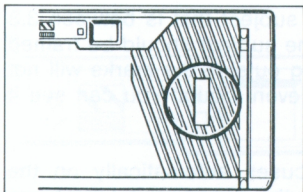


Fig. 15

7. If the Film Advance/Rewind Monitor rotates rapidly, then the film is advancing correctly. If the monitor does not rotate, the film has not advanced correctly, so open the Back Cover and reload the film. **(Fig. 14)**

★ If the film cartridge is not inserted correctly, the Back Cover will not close.

★ The Film Check Window shows if there is a film cartridge in the camera. **(Fig. 15)**

★ As you take pictures, the Film Counter Window will show which number picture is to be taken next. If it shows “20” on a 24 exposure roll of film, you know that you have five shots remaining.

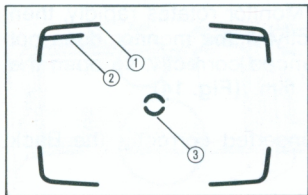


Fig. 16

VIEWFINDER INFORMATION

- ① Field of View Frame
- ② Close-up (parallax) Correction Marks
- ③ Auto-Focus Frame

1. Field of View Frame

The subject, such as people or scenery that you wish to photograph, should be set within this frame. Your photos will show only what is inside of this frame.

2. Close-up Correction Marks

When taking a picture of a subject that is between 3.3 and 4 ft from the camera, the subject should be framed within these marks. Anything outside the marks will not be included in the picture, even though you can see it through the Viewfinder.

3. Auto-Focus Frame

The auto-focus system focuses automatically on the subject that appears within the Auto-Focus Frame.

(Fig. 16)

AUTOMATIC EXPOSURE CONTROL

Exposure is automatically controlled by the electronically programmed shutter from F/3.5 at 1/30 second to F/16 at 1/500 second. The proper combination of the F-stop (lens opening) and the shutter speed is automatically selected when you press the Shutter Release Button. You do not have to worry about any exposure settings... It's already programmed for you!

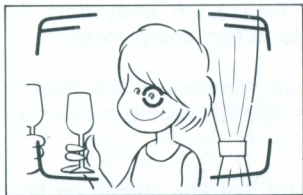


Fig. 17

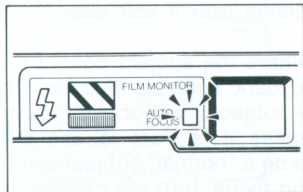


Fig. 18

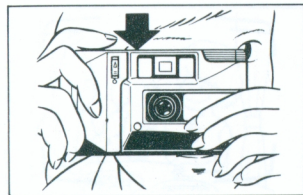


Fig. 19

AUTO-FOCUS SHOOTING

1. Set the main subject within the Auto-Focus Frame in the center of the Viewfinder. **(Fig. 17)**
2. When you press the Shutter Release Button halfway, the AF Monitor will light up to indicate the subject is in focus. If the AF Monitor blinks, you should move back a little, as the camera is too close to the subject. **(Fig. 18)**
3. If the AF Monitor glows steadily, press the Shutter Release Button all the way down to take the picture. As soon as one picture is taken, the film is advanced automatically, ready for the next shot. **(Fig. 19)**

Note: Depress the Shutter Release Button slowly to ensure correct operation of the auto-focus system. Depressing the Shutter Release Button is really a two-step process. The first step (halfway down) is the camera setting the proper focus. This happens when the AF Monitor lights up. The second step (all the way down) is the actual taking of the picture.

- ★ For subjects that are less than 3.3 ft away from the camera, it is not possible to obtain sharp focus.
- ★ Do not cover the Auto-Focus Windows at the front of the camera accidentally, as this will result in incorrect focusing.
- ★ The Auto-Focus Windows and the lens should be kept clean for the Auto-Focus mechanism to work correctly. If they get dirty, wipe them gently with a soft cloth.
- ★ There may be rare cases where the subject cannot be well-focused. (For instance, dark subjects that do not reflect the light well, glossy subjects, or subjects taken through glass.) In these cases it is best to use the pre-focus to "lock" the focus on a "normal" subject at the same distance. While holding focus, turn the camera to the original subject and shoot.

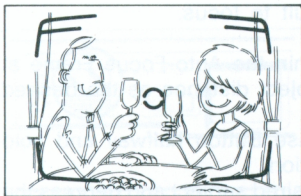


Fig. 20



Fig. 21



Fig. 22

PRE-FOCUS SHOOTING

Shoot with pre-focus (1) when the subject cannot be set within the Auto-Focus Frame with your desired composition, or (2) when the subject is difficult to focus on.

1. When the subject is outside the Auto-Focus Frame.

- A. If you want to photograph two people, there may be cases where neither of them can be set within the Auto-Focus Frame in the center of the Viewfinder. If the shutter is released under this condition, only the background will be in focus and the people, who are the main subject, will be out-of-focus. **(Fig. 20)**
- B. Move the camera so that one of the people is within the Auto-Focus Frame. Press the Shutter Release Button halfway so that the AF Monitor lights up and hold your finger in that position on the Shutter Release Button. **(Fig. 21)**
- C. Return the camera to its former position, while holding the Shutter Release Button halfway down, so that both people are in the Field of View. Frame again, then press the Shutter Release Button fully to take the picture. **(Fig. 22)**

2. When the subject is difficult to focus.

- A. Set another subject within the Auto-Focus Frame at the same camera-to-subject distance as the desired subject.
- B. Press the Shutter Release Button halfway and hold your finger in that position.
- C. Aim the camera at the desired subject and depress the Shutter Release Button fully to take the picture.

When you remove your finger from the Shutter Release Button, the pre-focused condition is cleared, so you can pre-focus again as many times as you wish.



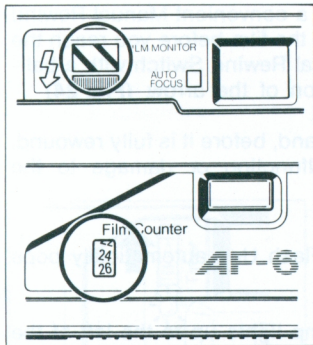


Fig. 23

REWINDING THE FILM

When you reach the end of the roll and all pictures on the roll of film are exposed, the camera will automatically rewind the film. During rewinding, the Film Advance/Rewind Monitor rotates, indicating proper rewinding. Also the Film Counter will run backwards. **(Fig. 23)**

1. When the film is completely rewound, the motor will stop automatically and "S" is seen in the Film Counter.
 2. Push the Back Cover Release Button down to open the Back Cover and remove the Film Cartridge for processing.
- ★ If battery voltage is low, the motor may stop during rewinding. Change the batteries immediately, as they are probably dead.
 - ★ Never open the Back Cover until the "S" has appeared in the Film Counter Window. The film would be exposed to the light and the pictures would be ruined.
 - ★ You can close the Lens Shield when the film is being rewound.

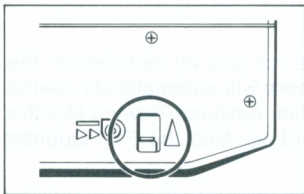


Fig. 24

MANUAL REWIND

Your camera is equipped with a convenient Manual Rewind Switch. If you desire to rewind the film before you reach the end of the roll, slide the Manual Rewind Switch with a ball-point pen, etc., in the direction of the arrow. **(Fig. 24)**

- ★ Never pull out the film, by hand, before it is fully rewound. This may result in a malfunction or damage to the camera. **(Fig. 25)**



Fig. 25

FLASH PHOTOGRAPHY

When flash is required, the Flash Unit automatically pops up into the vertical position.

1. When the Flash Ready Lamp lights up to the left of the Viewfinder frame, the flash is ready for use. **(Fig. 26)**
2. Press the Shutter Release Button gently all the way down.
3. After use, push the Flash Unit back to its former position. The Flash is automatically switched off.

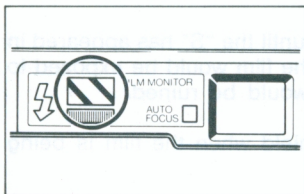


Fig. 26

FLASH SHOOTING RANGE

Shooting Range: 3.3—13.1 ft ISO 100

3.3—19.7 ft ISO 200 over

- ★ Be sure to push the Flash down when you are finished with flash photography. The flash keeps consuming battery power when switched on.

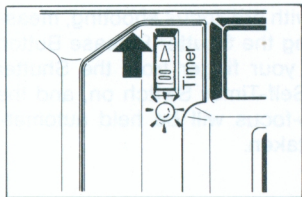


Fig. 27-A

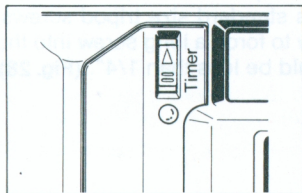


Fig. 27-B

- ★ If you keep the Shutter Release Button pressed halfway down before the Flash Ready Lamp comes on, the Flash will not be charged.
- ★ Be careful not to place your finger in front of the Flash Unit.
- ★ If the Shutter Release Button is pressed before the Flash Ready Lamp lights up, the shutter will not be released.
- ★ The Flash can be used as a supplementary fill-in light source for daytime photography to help eliminate shadows. Cover the Photocell with your hand and press the Shutter Release Button halfway. Then the Flash Unit pops up. Uncover the photocell and take the picture.

USING THE SELF-TIMER

This feature allows you to get into your own picture by allowing the camera to take the picture by itself.

1. Place the camera on a tripod or other firm support.
2. Slide the Self-Timer Switch fully in the direction of the arrow and the Self-Timer LED on the front of the camera blinks. **(Fig. 27-A, 27-B)** The picture will be taken in approximately 10 seconds. Two seconds before the Shutter is released, the flashing frequency of the LED will increase, giving you or your subject a visual signal that the shutter is about to be released.

- ★ If you want to cancel the self-timer once it has started, close the Lens Shield.
- ★ When using the self-timer with flash photography, put the Self-Timer Switch on after the Flash Ready Lamp is lit. (When the surrounding light is not sufficient, the Flash Unit pops up immediately after the Self-Timer Switch is activated.)
- ★ When using the self-timer with pre-focus shooting, measure the distance by pressing the Shutter Release Button halfway. Without removing your finger from the Shutter Release Button, slide the Self-Timer Switch on, and the self-timer will operate. Pre-focus will be held automatically until the picture is taken.

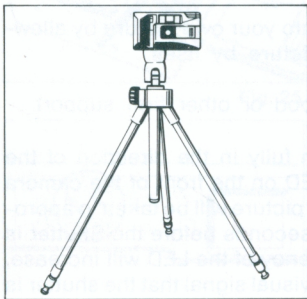


Fig. 28

USE OF TRIPOD

Your camera is provided with a tripod socket on the bottom of the camera. This socket fits standard size tripod screws. When using a tripod, do not try to force a long screw into the socket. The screw length should be less than 1/4". **(Fig. 28)**

PROPER CARE OF YOUR CAMERA

- ★ Never touch the Lens or Auto-Focus Windows with your fingers. If the Lens and/or Windows are dirty, either use a blower to blow the dust away or wipe it gently with a soft cloth.
- ★ Do not use chemically-treated eyeglass tissues to clean the lens.
- ★ Camera malfunctions can be caused by shock, humidity, salt air, etc. After using the camera at the beach or in places that use chemicals, clean it carefully.
- ★ Take care not to expose your camera to sudden changes in temperature, as this may cause a camera malfunction.
- ★ Do not expose your camera for a long period of time to extremely high temperatures, such as in a closed car in summer or on a beach, as this may cause a malfunction.
- ★ Do not place the camera near equipment that has strong magnetism, such as a television set or radio.
- ★ Remove the batteries before storing the camera, and keep it in a place free of dust and humidity.
- ★ Do not attempt to disassemble or repair your camera yourself. If service is necessary, bring it to the nearest Sears store.

Specifications

Type:	35mm lens shutter type with Automatic Focusing
Lens:	35mm F3.5 lens, 4 elements, 3 groups
Focusing:	Automatic focusing with pre-focus facility; shooting distance range 3.3ft. — infinity; distance less than 3.3ft.: out of focus warning LED blinks
Shutter:	Programmed AE type electronic shutter, 1/30 — 1/500 sec.
Self-Timer:	Built-in electronic type. Operating delay of approx. 10 sec.
Viewfinder:	Albada type bright-frame viewfinder. Magnification 0.47X, Field of view 84%
Viewfinder Information:	Field of View Frame, Parallax Correction Mark, Auto Focus Frame
Exposure	
Coupling:	Range EV8.6 — EV17 (ISO 100)
Film Speed Range:	ISO 100 — 1000 with the DX-CODE system. Without DX film, limited to ISO 100.
Film Advance:	Electric motor with Film Transport Monitor. Automatic 1st frame setting.
Film Rewind:	Automatic film rewind at the end of film
Film Loading:	RICOH Auto-Load system
Exposure Counter:	Additive, automatically resets to zero when the camera back is opened
Built-in Flash:	Automatic pop-up electronic flash in dim light. Guide Number 33 (in feet) with ISO 100 film. Exposure adjustment through flashmatic system.

Flash Recycling

Time:

About 7 seconds

Number of Shots

Possible:

With new alkaline batteries (under normal temperature of 20°C) without using the flash unit: more than 70 rolls of 36 exposure film; when using the flash unit repeatedly; more than 7 rolls of 36 exposure film

Power Source:

2 AA size alkaline batteries.

Other Features:

Flash Ready Light, Film Loaded Window, AF Monitoring Lamp

Dimensions:

4-5/8(W)x2-9/16(H)x1-3/4(D) in.

Weight:

8.29 oz. (without batteries)

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