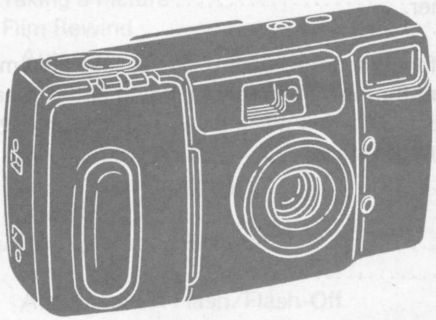
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RIVA ZOOM 70c
FREEDOM ZOOM 70c

[E] INSTRUCTION MANUAL



MINOLTA

Congratulations on purchasing this unique zoom-compact camera. Based on state-of-the-art compact lens design, it gives you the advantages of a zoom lens in an exceptionally lightweight camera body.

Apart from its 35-70mm zoom lens, the camera's other features include an autozoom system that you can activate simply by looking through the viewfinder, versatile flash control, and a self-timer.

Before using the camera, please take the time to read through this manual; doing so will enable you to take full advantage of its features, right from the start.

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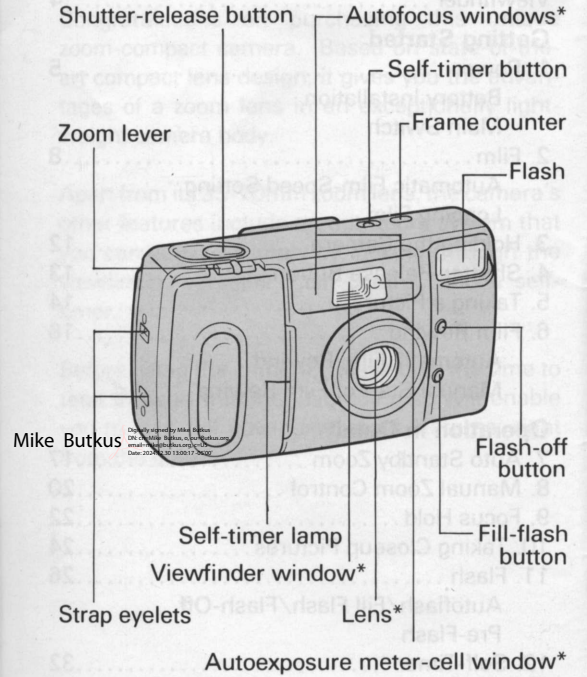
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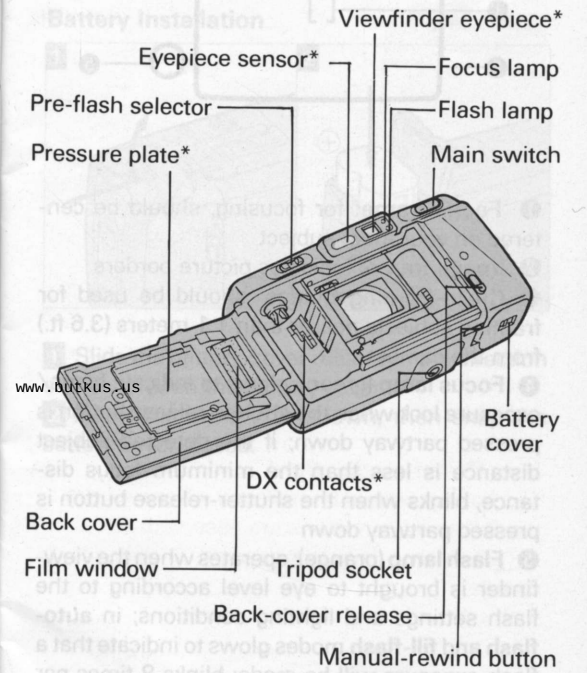
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NAMES OF PARTS



* Do not touch

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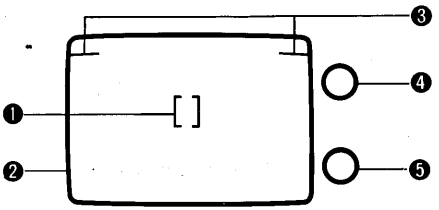
On-line camera manual library
This is the full text and images from the manual. This may take 3 full minutes for the PDF file to download.

If you find this manual useful, how about a donation of $3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you $7.50 for a electronic copy or $18.00 for a hard to read Xerox copy.

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VIEWFINDER



❶ **Focus frame:** for focusing, should be centered on your main subject

❷ **Image frame:** indicates picture borders

❸ **Close-framing guides:** should be used for framing subjects nearer than 1.1 meters (3.6 ft.) from the camera

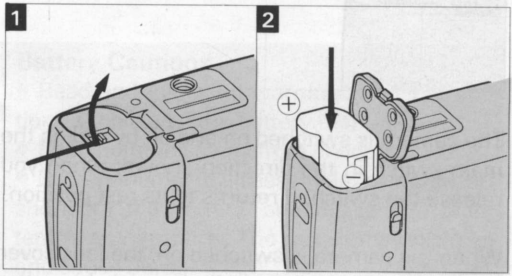
❹ **Focus lamp** (green): glows to indicate focus/exposure lock when the shutter-release button is pressed partway down; if the detected subject distance is less than the minimum focus distance, blinks when the shutter-release button is pressed partway down

❺ **Flash lamp** (orange): operates when the viewfinder is brought to eye level according to the flash settings and lighting conditions; in **auto-flash** and **fill-flash** modes glows to indicate that a flash exposure will be made; blinks 8 times per second (8 Hz) to indicate flash charging in progress; when **flash-off** is selected, blinks twice per second (2 Hz) to recommend use of flash

GETTING STARTED
1. POWER

Your Riva/Freedom Zoom 70c uses a six-volt lithium battery pack (Panasonic CR-P2P) that supplies power for all camera operations.

Battery Installation



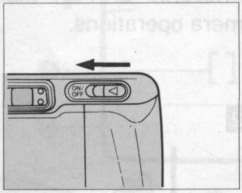
1 Slide the battery-cover release in the direction shown to open the battery cover.

2 Insert the battery as shown, then snap the battery cover closed.

If necessary, wipe the battery terminals with a dry cloth to ensure proper contact.

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Main Switch



The camera is switched on and off by sliding the main switch in the direction shown; when you release the switch, it returns to its rest position.

When the camera is switched on, the lens cover opens automatically; similarly, switching the camera off automatically closes the lens cover. The shutter remains locked when the camera is switched off.

Low Battery Indications

The battery should be replaced whenever any of the following conditions are observed:

- The flash takes longer than 6 seconds to charge.
- Shutter will not release.

Auto Power Off

To conserve power, the camera automatically shuts itself off if not operated for approximately three minutes. To resume operation, simply slide the main switch.

Battery Cautions

- Read and follow all warnings and instructions supplied by the battery manufacturer.
- Keep batteries away from children.
- Do not attempt to disassemble, recharge, or short out the battery, or subject it to high temperatures or fire. The battery may explode and cause burns.

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2. FILM

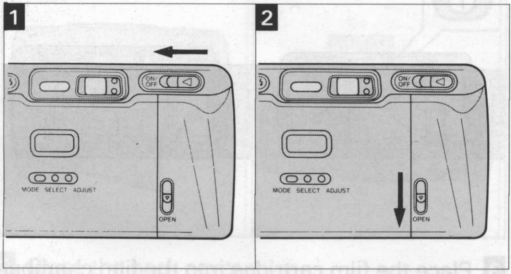
Automatic Film Speed Setting

Only 35mm film can be used in this camera. We recommend use of ISO 100 to 400 DX-coded negative film, or ISO 100 or 400 slide film.

Film speed is automatically set to ISO 100 for DX-coded films rated slower than ISO 400, or to ISO 400 for DX-coded films rated ISO 400 or faster; when film cartridge without DX-coding are loaded, the film speed will be set to ISO 100.

- 72-exposure cartridges, and Polaroid instant 35mm films cannot be used.
- If you insert the battery after loading film, the film will not advance. Make sure to load the battery prior to loading film.

Loading Film

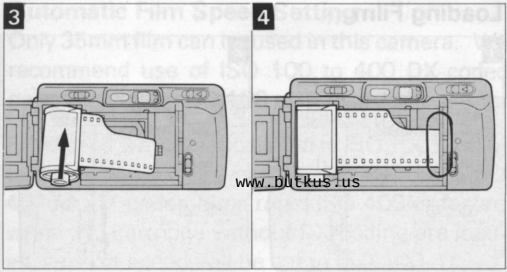


1 Slide the main switch to turn the camera on.

2 Use the back-cover release to open the back cover, as shown.

- Before opening the back cover, check that **0** is displayed in the frame counter; if not, film is already loaded and the camera should not be opened. The type of film loaded can be verified by checking the film window. (Refer to p.16 for instructions on rewinding an unfinished roll of film.)
- Load film in subdued light, or at least shaded from direct sunlight.

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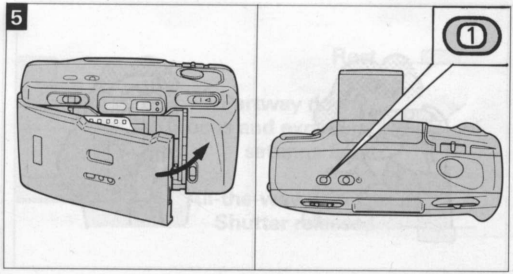


3 Place the film cartridge into the film chamber as shown.

4 Lay the film flat between the guide rails and extend the tip of the film over the take-up drum to the film mark.

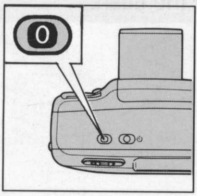


- Make sure the tip of the film is shaped correctly; otherwise, the film may not wind properly.
- If the film extends too far, gently push the excess back into the cartridge.



5 Close the back cover.

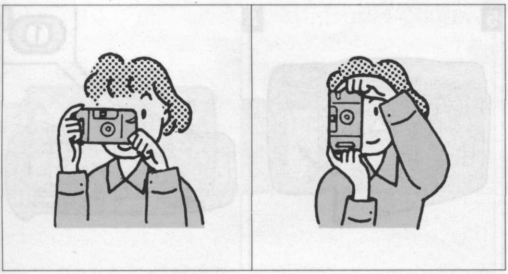
The film will advance automatically to the first frame. When **1** appears in the frame counter, the camera is ready for taking pictures.



If the film is incorrectly loaded, the frame counter will remain at **0**. Open the back cover and repeat steps 2 to 5.

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3. HOLDING THE CAMERA



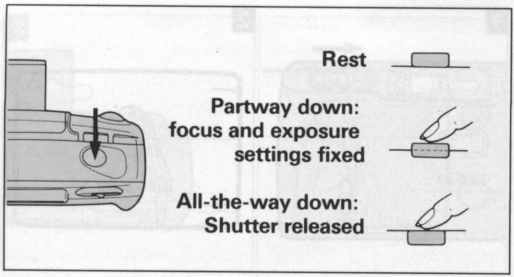
To obtain sharp, blur-free photos, hold the camera as still as possible and steady it against your face or body. To take pictures, press the shutter-release button gently with a slow, steady squeeze — never a quick jab.

Two recommended ways of holding the camera are shown here. For vertically framed pictures, make sure to hold the camera so that the flash is on top.



When taking pictures, be sure to keep your fingers clear of the flash.

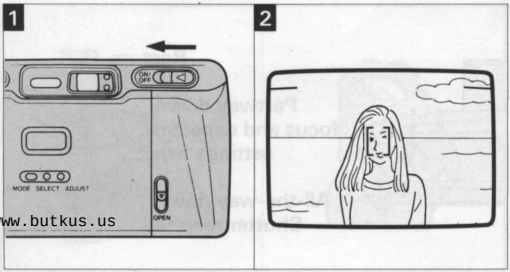
4. SHUTTER-RELEASE BUTTON



In describing camera operation, this manual refers to two shutter-release-button operating positions: a pre-release "partway-down" position that can be used to memorize current focus and exposure settings (see Focus Hold, p.22), and an "all-the-way" down position that triggers the shutter-release sequence. Both operating positions, as well as the rest position, are illustrated above.

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5. TAKING A PICTURE



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This section provides a basic description of camera operation, enough to get you started taking pictures. A more complete explanation, as well as information on optional features, can be found in **Operation in Detail**.

1 Slide the main switch to turn the camera **ON**.

2 Looking through the viewfinder, center the focus frame on your subject.

- When you look through the viewfinder the lens zooms automatically, based on your subject's distance from the camera. Refer to p.17 for details on ASZ operation.
- If ambient lighting conditions require the use of flash, the orange flash lamp will glow when the camera is brought to eye level, and flash will fire when the picture is taken. Refer to p.26 for details on flash operation.



3 Press the shutter-release button partway down so that the focus lamp glows, then all-the-way down to take the picture.

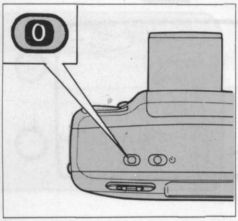
After you take a picture the film is automatically advanced and the frame counter increases by one.

- The camera's minimum focus distance is 0.7 meters (2.3 feet). Be sure to check that your subject is not closer than the applicable minimum focusing distance. Refer to p.24 for additional information on taking closeup pictures.
- When done taking pictures, be sure to switch the camera off to conserve battery power.

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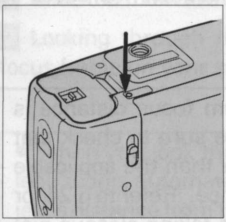
6. FILM REWIND

Automatic Film Rewind



After the last frame on the roll is exposed, automatic film rewind begins. When rewind is complete, the motor shuts off and **0** is displayed in the frame counter. Open the back cover and remove the film.

Manual Start of Film Rewind



You can also rewind a roll of film before the last picture is taken. To start film rewind manually, use a ballpoint pen or similar object to press the manual-rewind button located on the bottom of the camera.

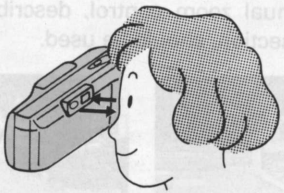
OPERATION IN DETAIL
7. AUTO STANDBY ZOOM (ASZ)

When you switch the power on and look through the viewfinder, the camera automatically measures the distance to your subject and sets a zoom position based on that distance. ASZ is the system that integrates these functions.

Eye Start Operation

Automatic zoom control is activated by an eyepiece sensor located beside the viewfinder eyepiece. Whenever the sensor detects an object closer than approximately 10cm (3-15/16 in.), automatic zoom control is switched on.

- When detection by the eyepiece sensor is interrupted following an exposure, the zoom position is automatically reset to 35mm; ASZ operation will resume immediately when the camera is brought to eye level.
- If you rest the camera following ASZ operation without taking a picture, the current lens position remains set.



ASZ's automatic zoom control is switched on by an eyepiece sensor that detects when you look through the viewfinder.

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Automatic Zoom Control

By automatically adjusting the zoom position when you look through the viewfinder, ASZ saves time in setting up a picture. The zoom position set is based on subject distance, which is rapidly calculated by the AF system when the camera is brought to eye level. In many cases the ASZ zoom setting will be just right for your subject, and all that remains is to press the shutter-release button down to take the picture.





ASZ's zoom control is based on subject distance.

At other times, you may want to use a zoom position other than that set by ASZ, and for these cases manual zoom control, described in the following section, should be used.



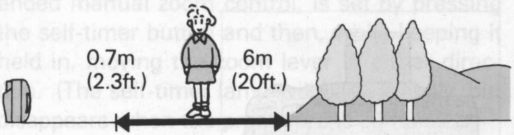
35mm



70mm

ASZ Working Range

ASZ's working range is approximately 0.7-6m (2.3-20ft.); for subjects within this range, a distance-based zoom position will be automatically set when you frame the subject in the viewfinder. When the camera-subject distance is greater than 6m (20ft.), the lens focal length will be set to the tele position (70mm).



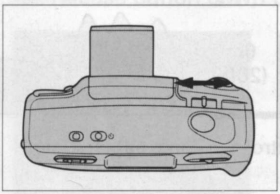
Out of range ASZ control Zoom set to 70mm

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8. MANUAL ZOOM CONTROL

Should you want to control the zoom setting yourself, two options for power-assisted manual zoom control are available: one-shot override, convenient if you want to override ASZ just occasionally, and fixed override, which cancels ASZ for the duration of the current operating cycle—i.e., until the camera is switched off.

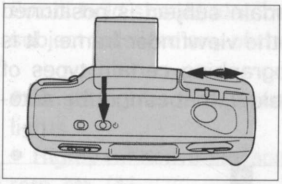
One-Shot Override



Operating manual zoom control is easy. Press the zoom lever to the left to zoom the lens towards its wide position (35mm), or to the right to zoom towards the tele end (70mm). When the scene is framed as you like, press the shutter-release button down to take the picture as you would otherwise.

One shot override of ASZ lasts only as long as detection by the eyepiece sensor is not interrupted; once the camera is rested so that detection by the eyepiece sensor is interrupted, ASZ is reset and automatic zoom control resumes when you next look through the viewfinder.

Fixed Override



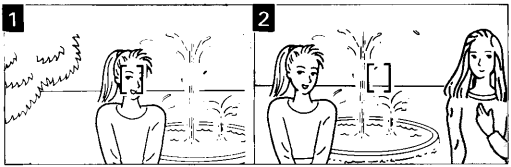
Fixed override, which provides you with open-ended manual zoom control, is set by pressing the self-timer button and then, while keeping it held in, moving the zoom lever in either direction. (The self-timer lamp will blink initially, but disappears when the procedure is completed.)

With manual control set, the lens can be zoomed by pressing the zoom lever in either direction, as described above for one-shot mode, the difference being that the zoom position you select will remain set from frame to frame unless you decide to change it. Once selected, fixed override remains set until the camera is switched off; when you turn the camera on again, ASZ operation resumes.

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9. FOCUS HOLD

Focus hold enables you to adapt autofocus for situations where your main subject is positioned outside the center of the viewfinder frame. It is also useful for photographing certain types of subjects, described below, that cannot be autofocused directly.



Off-Center Subjects

1 Center the focus frame on your subject, then press the shutter-release button partway down so that the focus lamp glows.

2 Keeping the shutter-release button held partway down so that the focus lamp continues to glow, recompose the frame as desired and then press all-the-way down to take the picture.

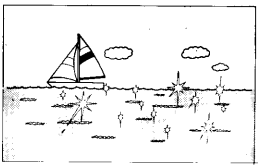
- While the focus lamp glows, current focus and exposure settings are fixed.
- Focus hold is easily canceled by removing your finger from the shutter-release button.

Focusing in Special Situations

Focus hold should also be used whenever your subject falls into any of the following categories:

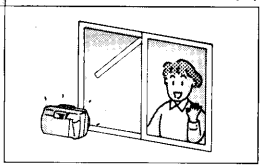
- Bright light sources such as the sun or neon lights
- Highly reflective surfaces such as water, mirrors, etc. (A)
- Flame, fireworks, etc.
- Dark objects and surfaces with low reflectance
- Objects behind glass, bars, or other such partitions (B)
- Objects significantly smaller than the focus frame as seen through the viewfinder

In such cases, use focus hold to set the focus distance on another object at the same distance from the camera as your subject.



(A)

(B)

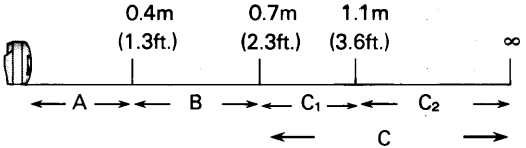


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10. TAKING CLOSEUP PICTURES

Your Riva/Freedom Zoom 70c enables you to take pictures of subjects as near as 0.7m (2.3ft.) from the camera.

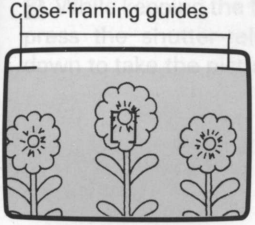
Closeup operation is illustrated in the diagram below.



A: Although ASZ operates and the shutter can be released, pictures taken in this range will **not be in focus**.

B: This region is just below the camera's near focusing distance; whenever the camera detects a subject within this range, the focus lamp blinks and the shutter remains locked. You will be able to resume operation by increasing the camera-subject distance so that it falls within region C.

C: This region indicates the camera's operating range, extending from infinity down to the near focusing distance, within which the camera can give you sharply focused pictures. This region is further subdivided into regions C_1 and C_2. Within region C_2, operation is as usual; for subjects within region C_1, you should compose your subject in the viewfinder using the close-framing guides.



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11. FLASH

Autoflash

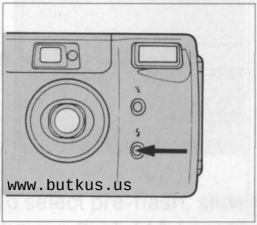
When you look through the viewfinder, the metering system evaluates the ambient lighting. In cases where it determines that flash is needed, it will be fired automatically when the picture is taken.

In such cases, if the flash is not already charged at the time you look through the viewfinder, the flash lamp blinks at 8 times per second and the shutter locks; briefly remove your finger from the shutter-release button, wait a moment for the flash lamp to glow, then resume operation.

The fill-flash and flash-off buttons and pre-flash selector enable you to tailor flash operation to suit a variety of photographic situations.

Fill Flash

Fill flash can be used for improved results in cases where autoflash doesn't operate due to a high, overall light level. Such situations include those in which your subject is framed against a bright background — an illuminated window, opposing sunlight, or brilliant snow or sand. For situations like these, fill flash is effective since it allows you to balance the exposure of your subject with the relatively brighter background.



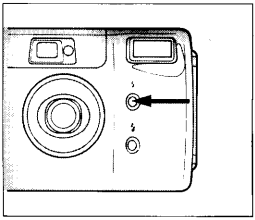
1. Press and hold the fill-flash button.
2. While keeping the fill-flash button held down, press the shutter-release button all the way down to take the picture.

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Flash-Off

In certain situations non-flash photography may be preferred— for instance, when photographing twilight scenes, or if taking pictures inside a museum.

When flash-off mode is selected, the flash remains off regardless of the ambient lighting. In cases where the metering system judges that flash should be used, the flash lamp blinks at 2Hz when you frame the subject in the viewfinder.



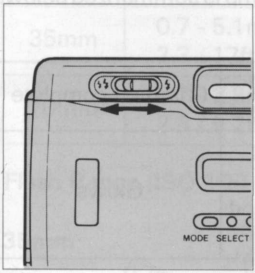
1 Press and hold the flash-off button.

2 While keeping the flash-off button held down, press the shutter release button all the way down to take the picture.

When flash-off mode is selected, shutter speed will be slower; use of tripod is recommended.

Pre-Flash

When pre-flash is selected, a low level flash burst is fired just before each flash picture. By causing the diameter of your subject's pupils to narrow before the actual exposure, pre-flash reduces the appearance of red-eye in the picture.



To select pre-flash, slide the pre-flash selector to the pre-flash (ϟϟ) position.

To cancel pre-flash, slide the pre-flash selector back to the normal (ϟ) position.

After pre-flash is fired, the self-timer lamp will immediately blink for about 0.7 second to indicate that the actual flash picture will be exposed next.

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Flash Lamp

Unlike the focus lamp, which operates only when pressure is applied to the shutter-release button, the flash lamp operates automatically when you look through the viewfinder. Depending on lighting conditions, flash settings, and charge status, the flash lamp remains dark, glows, or blinks. Operation of the flash lamp is summarized below.

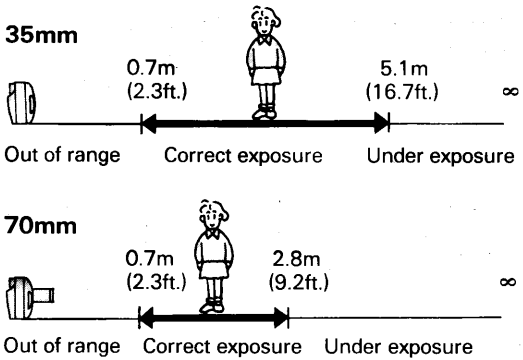
	During charge	Charging complete
Autoflash (when flash fires) or Fill flash	Blinks at 8 times per second	Glows
Autoflash (when flash doesn't fire)	Remains dark	
Flash-off	Blinks twice per second when use of flash is recommended	

Flash Range

Flash range will vary with both the lens zoom setting and the speed of the film in use. The table below shows the flash range for ISO 100 and 400 speed films with the lens at wide and tele positions.

	ISO 100	ISO 400
35mm	0.7 - 5.1m 2.3 - 17ft.	0.7 - 10m 2.3 - 34ft.
70mm	0.7 - 2.8m 2.3 - 9.2ft.	0.7 - 5.6m 2.3 - 18ft.

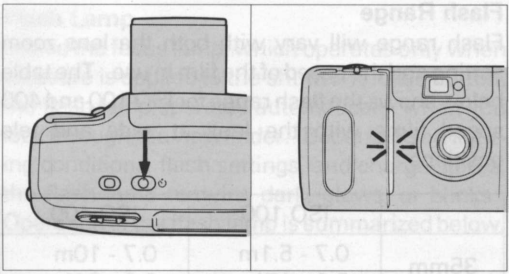
Flash Range (ISO 100 film)



When taking flash pictures, be sure to check that your subject is within range of the flash.

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12. SELF-TIMER



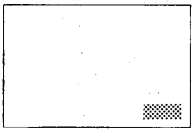
To set a ten-second delay in shutter release, press the self-timer button so that the self-timer lamp on the front of the camera blinks at varying intervals. Frame your subject in the viewfinder as desired, then press the shutter-release button down in the usual way to take the picture. The self-timer lamp will begin blinking at 2 Hz (2 times per second) to indicate operation, and the picture will be taken about ten seconds later.

- Selecting self-timer operation sets a temporary cancellation of ASZ. Once self-timer operation is set, use the zoom lever to frame the scene as desired. After the picture is taken, ASZ is automatically restored.
- To cancel the self-timer prior to pressing the shutter-release button, press the self-timer button a second time. To cancel the self-timer once the shutter-release button has been pressed, but before the picture has been taken, switch the camera off.

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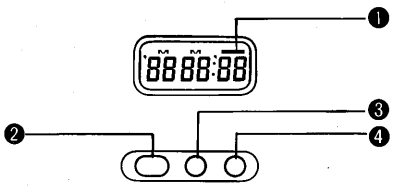
FOR OWNERS OF THE QUARTZ DATA BACK MODEL

The data back enables you to record the date, in a choice of three year/month/day formats, or time (day/hour/minute) directly onto the film. It features a quartz clock and automatic calendar through the year 2019, and automatically controls the imprint exposure according to the camera's film-speed setting. With the camera held horizontally, the data is recorded onto the lower right portion of the image; in the vertical format, imprinting occurs on the lower left portion of the image.

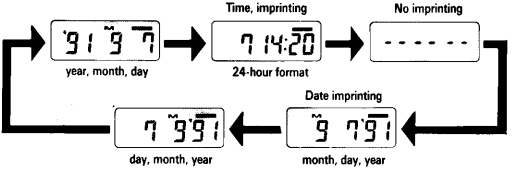


Names of Parts

❶ Print indicator
❷ MODE button
❸ SELECT button
❹ ADJUST button



Mode Selection



Setting Data

Use the **SELECT** button to move between different parts of the displayed data. With the date displayed, pressing the **SELECT** button in succession causes the settings for year, month, and then day to blink. In time mode, pressing the **SELECT** button successively causes the hour, minute, and then the colon to blink. The **ADJUST** button is used to change the blinking display. In time mode, pressing the **ADJUST** button while the colon is blinking synchronizes the seconds counter to 00.

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Data Imprinting

Press the **MODE** button to select the desired data imprint mode, then take the picture. Following exposure, the print indicator blinks in the data panel for approximately two seconds to confirm imprinting.

- The imprinted data may be difficult to read if the subject area over which it is superimposed is bright or non-uniform.
- Legibility of the imprinted data may vary somewhat with film type.
- Size and position of the imprinted data may vary somewhat depending on the processing facility.

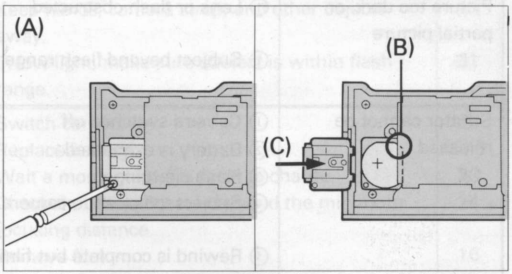
Care and Storage

This unit is designed for use between 0 and 40°C (32 and 104°F). At temperatures above or below this range, LCD and imprinted data may become difficult to read. Even higher temperatures may cause the LCD to temporarily blacken.

Battery Replacement

A single 3V lithium (CR2025 or equivalent) battery that is supplied with the data back supplies power for the clock, liquid crystal display, and data imprinter. When the data back's display dims or becomes difficult to read, the battery should be replaced.

Warning: Keep batteries away from children.



To replace the battery: Remove the battery cover by turning the attaching screw with a small Philips screwdriver (A). Take out the old battery by pressing the marked part of the battery surface (B) with a ball-point pen or similar object, then insert a fresh one so that its plus side (+) faces up. Reinsert the battery cover (C) and fasten with the attaching screw. Following battery replacement, reset the date and time.

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TROUBLE SHOOTING

Problem	Cause
Entire picture blurred	① Camera movement
Subject out of focus	① Autofocus windows obstructed ② Subject too close to camera ③ Focus frame not on main subject ④ Special focusing situation
Picture foggy or has blurry areas	① Dirty Lens
Picture too dark, or partial picture	① Lens or flash obstructed ② Subject beyond flash range
Shutter cannot be released	① Camera switched off ② Battery is exhausted ③ Flash charging ④ Subject too close to camera ⑤ Rewind is complete but film cartridge remains in the camera ⑥ Circuit fault
ASZ does not function	① Self-timer operation set ② Override set

Solution	Page
① Hold camera steady and release shutter gently.	13
① Keep hands, camera strap, and other objects away. ② Check that the subject is beyond the minimum focusing distance. ③ Use focus hold. ④ Use focus hold on another subject that is an equal distance away.	13 24 22 23
① Clean lens as explained in Care and Storage section.	40
① Keep hands, camera strap, and other objects away. ② In low light, make sure subject is within flash range.	13 31
① Switch camera on. ② Replace battery. ③ Wait a moment for the flash to charge. ④ Check that the subject is beyond the minimum focusing distance. ⑤ Remove film. ⑥ Remove and reinstall the battery.	6 5, 6 30 24 16 5
① Cancel operation as needed. ② Restore ASZ as explained in section 8.	32 21

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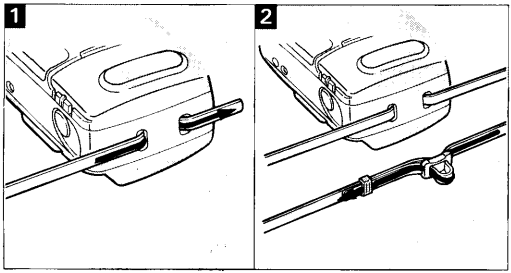
CARE AND STORAGE

- If the lens becomes dirty, clean it gently with a lens brush. If necessary, moisten a sheet of lens tissue with one drop of lens-cleaning fluid and gently wipe the lens. Never touch the lens surface with your fingers.
- Never use alcohol or chemical solvents on the camera body. If it is dirty, wipe it gently with a soft, clean, dry cloth.
- Never subject the camera to shock, high heat, or humidity. Be particularly careful not to leave it in the glove compartment or other places in motor vehicles where it may be subjected to high temperatures.
- Entry of sand, salt, or other grit may cause costly or irreparable damage to the camera. Use extra care when taking pictures at the beach.
- This camera is designed for use between -10 and 40°C (14 to 104°F).
- Using the camera at very low temperatures impairs its performance. In cold weather, carry the camera inside your coat to keep it warm. Do not transfer the camera directly from an extremely cold to warm area, since condensation may form inside and prevent normal operation.
- Do not let the camera get wet. Water seepage could result in costly or irreparable damage to internal parts.

- When not in use, keep the camera in a cool, dry place away from dust and chemicals. For extended storage we recommend that you place the camera in an airtight container with a drying agent such as silica gel.
- This camera contains high-voltage circuits. Do not attempt to disassemble or repair it yourself.
- If you have questions about your camera, contact your local camera dealer. For more information write to the Minolta distributor or subsidiary in your area (addresses listed at the back of this manual).
- To assure prompt service, please contact an authorized Minolta Service Center before shipping your camera for repairs.

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ATTACHING THE NECKSTRAP



Attach the supplied neckstrap to the camera's strap eyelets as illustrated above.

TECHNICAL DETAILS

Type: 35mm autofocus lens-shutter camera
Lens: 35-70mm f/3.5-6.5 power zoom lens
Autofocus System: Infrared type with cancelable focus hold; range: 0.7m (2.3ft.) to infinity
Zoom Control: Sensor-activated Auto Standby Zoom (ASZ) sets a zoom position based on subject distance; zoom lever for manual override
Metering System: Center-weighted metering; programmed autoexposure; range (ISO 100): EV 5.5 to 17 (1/4 sec. at f/3.5 to 1/250 sec. at f/22) at 35mm setting, EV 7.5 to 17 (1/4 sec. at f/6.5 to 1/250 sec. at f/22) at 70mm setting
Flash System: Cancelable automatic flash with shutter lock during flash charge; fill flash selectable; with pre-flash control selected, a low-power pre-exposure flash burst is given approximately 0.75 secs., before each flash exposure; recycling time: 3 sec
Film Speed: Automatically set to ISO 100 for DX-coded films rated slower than ISO 400, or to ISO 400 for DX-coded films rated ISO 400 or faster; ISO 100 set for films withut DX-coding
Viewfinder: Real-image type with focus frame, close-framing guides; magnification: 0.42X at 35mm, 0.75X at 70mm; image area: 85% coverage; eyepiece LED lamps show focus and flash status

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Controls: Main switch; zoom lever for powered manual zoom; fill-flash button; flash-off button; pre-flash selector; self-timer button; manual rewind button; focus and exposure settings fixed when shutter-release button is held partway down

Film Transport: Automatic threading, auto advance to first frame, auto winding, auto rewind and auto rewind stop; rewind button for manual start of rewind

Self-Timer: 10-sec. shutter-release delay; operation indicated by blinking LED on front of camera

Power: 6V lithium battery pack (Panasonic CR-P2P) powers camera operation; shutter remains locked when battery is exhausted

Battery Performance: Approximately 30 rolls (based on Minolta's standard test method, using 24-exposure film with flash on 50% of the exposures)

Dimensions: 125(W) X 66.5(H) X 50.5*(D)mm
(4-15/16 X 2-5/8 X 2 in.)
*QD model: 51mm (D)

Weight (without battery): 265g (9-3/8 oz.)
QD model: 273g (9-5/8 oz.)

Specifications are based on the latest information available at the time of printing and are subject to change without notice.



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