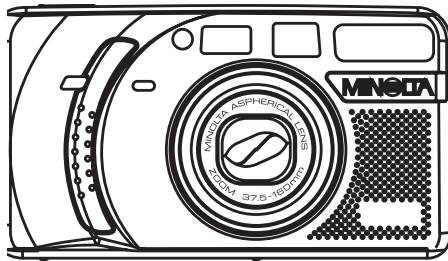


MINOLTA

The essentials of imaging

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zoom 160c

E INSTRUCTION MANUAL

CONTENTS

Thank you for your purchasing this Minolta camera. Before using your new camera, please take the time to read through this instruction manual for it contains important information on the use and care of your camera.

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FOR PROPER AND SAFE USE

Read and understand all warnings and cautions before using this product.

WARNING

Using batteries improperly can cause them to leak harmful solutions, overheat, or explode which may damage property or cause personal injury. Do not ignore the following warnings:

- Only use the batteries specified in this instruction manual.
- Do not install the batteries with the polarity (+/–) reversed.
- Do not use batteries which show wear or damage.
- Do not expose batteries to fire, high temperatures, water, or moisture.
- Do not attempt to recharge, short, or disassemble batteries.
- Do not store batteries near or in metallic products.
- Do not use leaking batteries. If fluid from the batteries enters your eye, immediately rinse the eye with plenty of fresh water and contact a doctor. If fluid from the batteries makes contact with your skin or clothing, wash the area thoroughly with water.

- Tape over lithium battery contacts to avoid short-circuiting during disposal; always follow local regulations for battery disposal.
- Do not disassemble this product. Electric shock may cause injury if a high voltage circuit inside the product is touched. Take the product to a Minolta Service Facility when repairs are required.
- Immediately remove the batteries and discontinue use if the camera is dropped or subjected to an impact in which the interior, especially the flash unit, is exposed. The flash has a high voltage circuit which may cause an electric shock resulting in injury. The continued use of a damaged product or part may cause injuries.
- Keep batteries or small parts that could be swallowed away from infants. Contact a doctor immediately if an object is swallowed.
- Store this product out of reach of children. Be careful when around children, not to harm them with the product or parts.

FOR PROPER AND SAFE USE

- Do not fire the flash directly into the eyes. It may damage eyesight.
- Do not fire the flash at vehicle operators. It may cause a distraction or temporary blindness which may lead to an accident.
- Do not look directly at the sun or strong light sources through the viewfinder. It may damage your eyesight or cause blindness.
- Do not expose this product to liquids or operate this product with wet hands. If liquid enters the product, immediately remove the batteries and discontinue use. The continued use of a product exposed to liquids may cause damage or inquiry through fire or electric shock.
- Do not use the product near inflammable gases or liquids such as gasoline, benzene, or paint thinner. Do not use inflammable products such as alcohol, benzene, or paint thinner to clean the product. The use of inflammable cleaners and solvents may cause an explosion or fire.
- If the product emits a strange odor, heat, or smoke, discontinue use. Immediately remove the batteries taking care not to burn yourself. The continued use of a damaged product or part may cause injuries.

- Take the product to a Minolta Service Facility when repairs are required.

CAUTION

- Do not use or store the product in a hot or humid environment such as the glove compartment or trunk of a car. It may damage the product and batteries which may result in burns or injuries caused by heat, fire, explosion, or leaking battery fluid.
- If batteries are leaking, discontinue use of the product.
- The lens retracts when the camera is turned off or the auto-power-off function is activated. Touching the lens barrel while it is retracting may cause injury.
- Do not fire the flash while it is in contact with people or objects. The flash unit discharges a large amount of energy which may cause burns.

FOR PROPER AND SAFE USE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

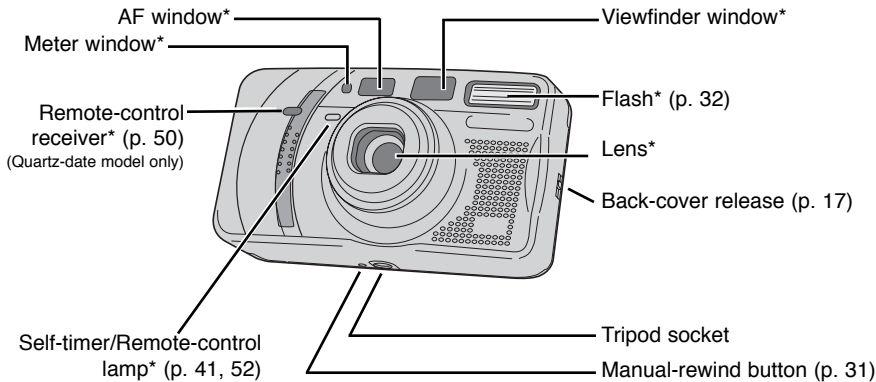
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

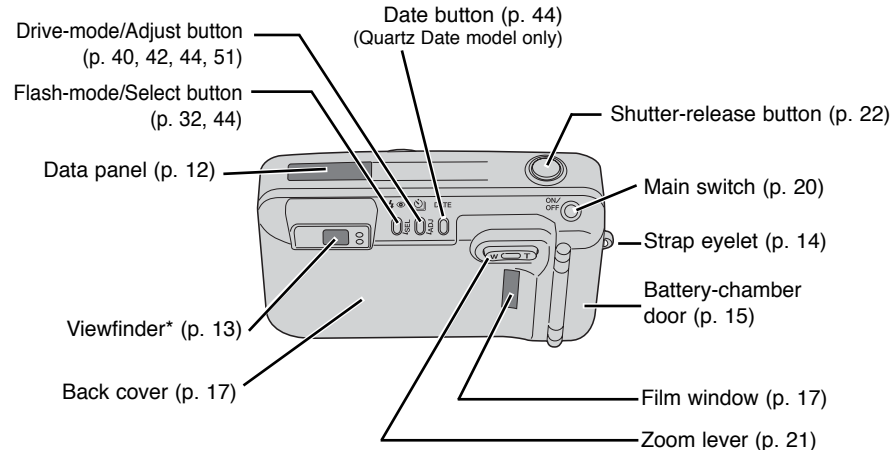


This mark on your camera certifies that this camera meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for Conformité Européenne (European Conformity).

BODY The **quartz-date model** is illustrated.



* This camera is a sophisticated optical instrument. Care should be taken to keep these surfaces clean. Refer to the care and storage section at the back of this manual (p. 55).



DATA PANEL

All indicators are displayed for clarity.

Date/Time display (p. 44)
(Quartz-Date model only)

Battery-condition indicator (p. 16)

Remote-control indicator (p. 51)
(Quartz-date model only)

Frame counter (p. 19)

Film-transport signals (p. 19)

Cartridge mark (p. 30)

Flash-mode indicators (p. 32)

-  Autoflash
-  Autoflash with red-eye reduction
-  Fill-flash
-  Flash cancel
-  Night Portrait (with red-eye reduction)

Continuous-advance indicator (p. 42)

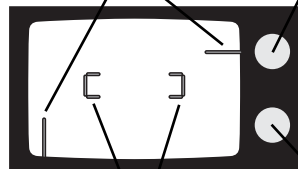
Self-timer indicator (p. 40)

VIEWFINDER

Close-framing guides (p. 28)

Focus lamp (green)

With the shutter-release button pressed partway down -
Glow: focus confirmed
Blinks rapidly: subject is too close
Blinks slowly: focus not confirmed (p. 26)

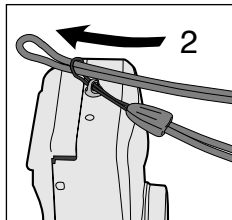
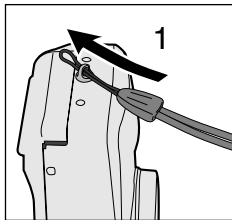


Focus frames

Flash lamp (orange)

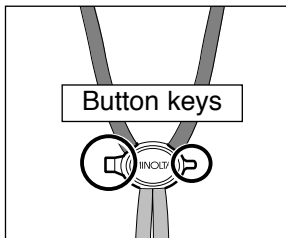
With the shutter-release button pressed partway down -
Glow: flash is charged and ready
Blinks rapidly: flash charging
Blinks slowly: camera-shake warning

ATTACHING THE CAMERA STRAP



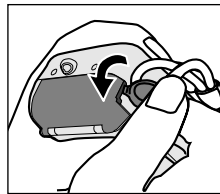
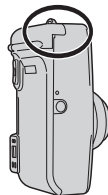
1. Pass the small loop of the strap through the strap eyelet on the camera.

2. Pass the the other end of the strap through the small loop and tighten.



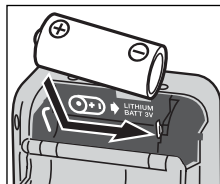
- Button keys are attached to the strap. Use the larger key to open the battery-chamber door, and the smaller key to push the manual-rewind button.

INSERTING THE BATTERY



The camera uses one 3-volt CR123A or DL123A lithium battery.

1. Open the battery-chamber door using the larger button key on the camera strap.

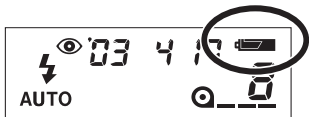


2. Insert the battery. The positive and negative battery terminals should be orientated as illustrated on the diagram in the battery chamber. Snap the door closed.

- Quartz-date model: after installing the battery, the date and time must be set, see page 46.
- When changing batteries, always turn the camera off.

BATTERY-CONDITION INDICATOR

Each time the camera is turned on, an indicator will appear on the data panel to indicate the power status of the battery.



The indicator briefly appears. Power is sufficient for all camera operations.

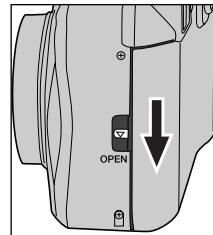
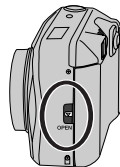


The indicator blinks. Power is sufficient for camera operation, but the battery must be replaced soon.



The indicator blinks and no other indicators are displayed on the data panel. The shutter will not release. Replace the battery immediately.

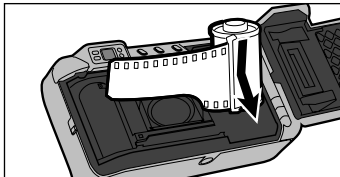
LOADING THE FILM



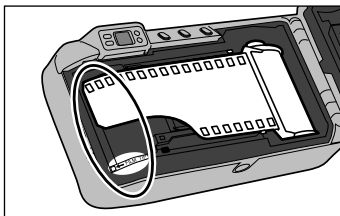
1. Slide the back-cover release down to open the back cover.

- Before opening the back cover, look through the film window to confirm that film is not currently loaded.

- If the back cover does not open, turn the camera off and on to release the film-chamber lock.
- Use only DX-coded 35mm film rated between ISO 25 and 3200.
- Do not use Polaroid instant 35mm film. Winding problems may result.
- ISO 400 film is recommended for best results.
- Always load and unload the film in subdued light.

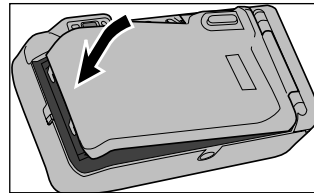
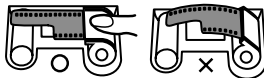


2. Place the film cartridge into the film chamber.



3. Extend the film leader to the film-tip mark. The film must lay flat.

- If the film tip extends beyond the index mark, push the excess film back into the cartridge.

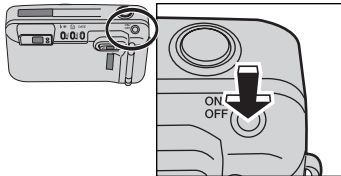


4. Close the back cover.

- The film automatically advances to the first frame and “1” appears in the data-panel frame counter.
- If the film has been loaded improperly, “0” will blink on the frame counter and the shutter will not release. Open the back cover and repeat the loading procedure.
- Once the film is loaded, the battery-chamber lock will engage preventing the back cover from being accidentally opened until the film is rewound.

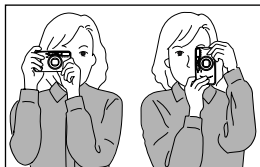
FULLY AUTOMATIC OPERATION

BASIC OPERATION



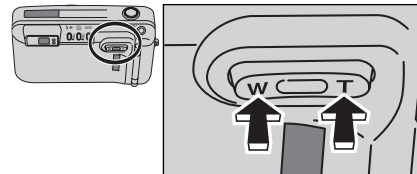
1. Press the main switch to turn the camera on.

- To conserve battery power, the auto-power-off function will turn the camera off eight minutes after the last operation.
- Do not obstruct or hold the lens barrel.



2. Hold the camera steadily. Do not cover the flash, lens, AF window, or Meter window with your fingers.

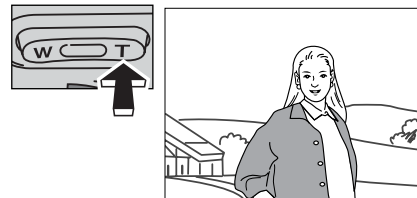
- For vertically framed pictures, turn the camera so the flash is to the top.



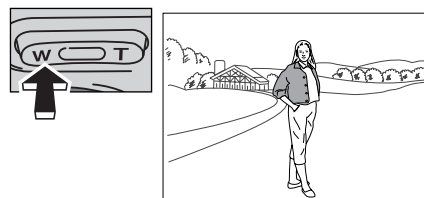
3. Look through the viewfinder and press the zoom lever to zoom the lens.

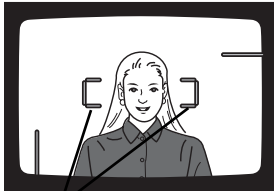
- The viewfinder will adjust to match the lens' field of view.

T(elephoto): zoom in



W(ide angle): zoom out





Focus frames

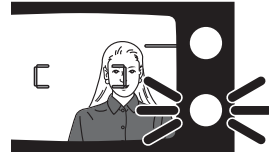
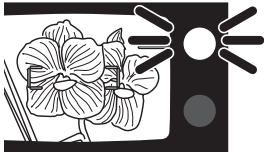
4. Place the subject within the focus frame and press the shutter-release button partway down.

- The status of the AF system and flash are indicated by the lamps next to the viewfinder.



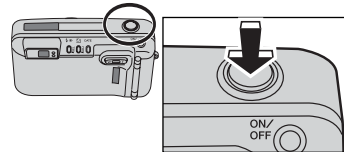
Focus lamp (green)

- Glow : focus confirmed
- Blinks rapidly : subject is too close
- Blinks slowly : focus not confirmed (p. 26)



Flash lamp (orange)

- Glow : flash is charged and ready
- Blinks rapidly : flash charging
- Blinks slowly : camera-shake warning



5. When the green focus lamp glows, press the shutter-release button all the way down to take the picture.

- Press the shutter-release button with slow, steady pressure.
- The film automatically advances to the next frame.
- Always turn the camera off after use.

FOCUS LOCK

The focus-lock function allows the camera to be focused on a certain subject and then the picture can be recomposed to arrange the subject at a different position within the image area.



1. With subject in the focus frame, press and hold the shutter-release button partway down.

- If the green focus lamp glows steadily the focus is locked. If the focus lamp blinks, repeat the operation.



2. Without lifting your finger, recompose the image in the viewfinder. Press the shutter-release button all the way down to take picture.

- The focus lock is canceled when the shutter button is released.

FOCUSING RANGE

BASIC OPERATION

The subject must be within the focusing range of the camera. The minimum focusing distance varies with the focal length of the lens.

Wide-angle (37.5 mm)	Telephoto (160 mm)
60 cm - ∞ (2.0 ft - ∞)	95 cm - ∞ (3.1 ft - ∞)

If the subject is too close, the green focus lamp blinks rapidly and the shutter is locked. The subject must be beyond the minimum focusing distance. If the subject is extremely close, the green focus lamp may blink slowly and the shutter will release, but the focus will not be sharp.

SPECIAL FOCUSING SITUATIONS

The camera may not be able to focus in certain situations. At this time, the focus-lock function (p. 24) can be used to focus on an object at the same distance as your subject, and then the image can be recomposed to take the picture.

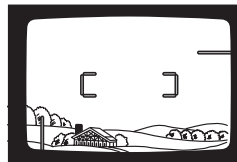


When your subject is near a very bright object or area.



When two subjects overlap in the focus frame.

BASIC OPERATION



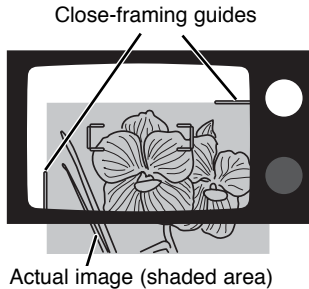
When a low-contrast area fills the focus frame.



When the subject is composed of a regular repeating pattern.

The green focus lamp will blink slowly to warn that focus cannot be confirmed. The shutter can be released and the focus will be set to infinity; when using the flash, the focus is set between 2.3 - 6.8m (7.5 - 22.3 ft.) depending on the focal length used. Under certain conditions with regular repeating patterns, the green focus lamp may blink rapidly and the shutter will be locked.

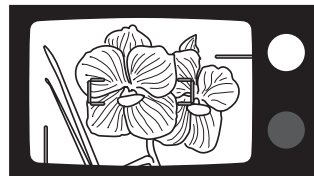
FOR CLOSER SUBJECTS



Because of parallax, the image seen in the viewfinder and the image recorded with the camera are not exactly the same. Parallax becomes significant with close subjects. Use close-framing guides to eliminate the effect of parallax.

If the subject is too close, the green focus lamp blinks rapidly and the shutter is locked. If the subject is extremely close, the green focus lamp may blink slowly and the shutter will release, but the focus will not be sharp.

BASIC OPERATION



1. With subject in the focus frame, press and hold the shutter release button partway down.

- The green focus lamp should glow to confirm the focus is locked.



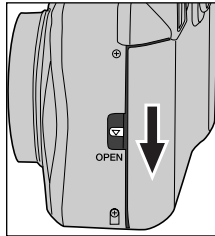
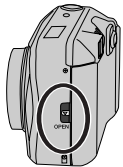
2. While pressing the shutter-release button partway down, recompose the picture.

3. Press the shutter-release button all the way down to take the picture.

The camera automatically rewinds the film after the last exposure is taken.



When the cartridge mark blinks on the data panel, the film has been rewound. Open the back cover and remove the film.

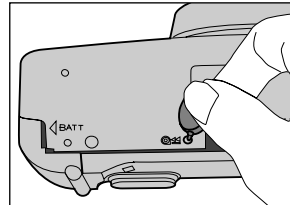


- The film-chamber lock is released during rewind. Do not open the back cover until the cartridge mark blinks on the data panel. Never force the back of the camera open.

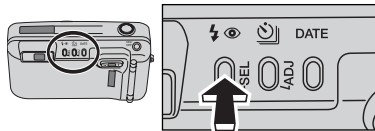
- If the rewind motor stops before the film has been completely rewound, all the indicators on the data panel will blink. Remove and insert the battery.
- Although more pictures than specified on the film package may be taken, the film processor may only print the number specified on the film cartridge.

MANUAL REWIND

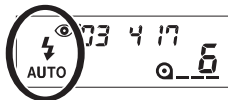
The film can be rewound before the roll is finished.



Gently press the manual-rewind button using the small button key on the strap (p. 14).



Press the flash-mode button until the desired flash-mode indicator appears on the data panel.



The following flash modes can be selected:



Autoflash (p. 35)



Autoflash with red-eye reduction (p. 36)



Fill-flash (p. 37)



Flash cancel (p. 38)



Night portrait (p. 39)

- When the camera is turned off, the fill-flash, flash cancel, or night portrait mode will be reset to autoflash or autoflash with red-eye reduction, whichever of the two modes was set last.

FLASH RANGE

The flash range depends on the film speed and focal length in use. Because of the optical system, the flash range is not the same at the lens' wide-angle position as it is at the telephoto position. To ensure proper exposure, the subject must be within the flash range.

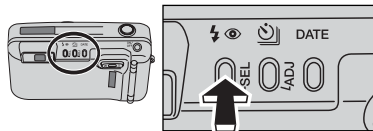
Focal length Film speed	37.5 mm	160 mm
ISO100	0.6 - 4.6 m (2.0 - 15.1 ft)	0.95 - 2.0 m (3.1 - 6.6 ft)
ISO400	0.6 - 9.2 m (2.0 - 30.2 ft)	0.95 - 4.0 m (3.1 - 13.2 ft)

The distances are based on use with color negative film.

AUTOFLASH

ADVANCED OPERATION

The flash will fire automatically in low-light or back-lit situations.

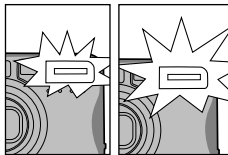


Press the flash-mode button until the autoflash indicator appears on the data panel to set the flash mode.



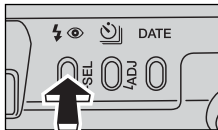
- When the orange flash lamp blinks quickly, the flash is charging. The shutter cannot be released until the flash is charged; the orange flash lamp will glow.

AUTOFLASH WITH RED-EYE REDUCTION



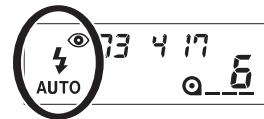
Pre-flash Main flash

The flash will fire a few short bursts before the main flash burst to reduce red-eye; an effect caused by light reflected from the retina. Used in low-light condition when taking photographs of people or animals, the pre-flashes contract the pupils of the subject's eyes. The flash will fire automatically in low-light or back-lit situations.



Press the flash-mode button until the autoflash-with-red-eye-reduction indicator appears on the data panel to set the flash mode.

- Warn your subject not to move until all the flash bursts have ended.

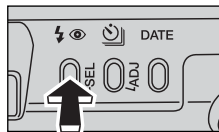


FILL-FLASH

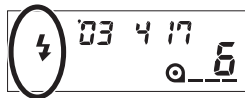
ADVANCED OPERATION



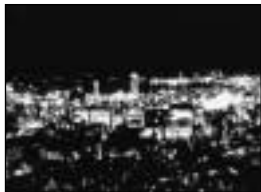
The flash fires with each exposure regardless of the amount of ambient light. Fill-flash can be used to reduce harsh shadows caused by strong direct light or sunshine.



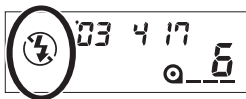
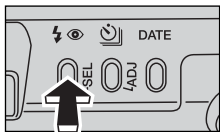
Press the flash-mode button until the fill-flash indicator appears on the data panel to set the flash mode.



FLASH CANCEL



The flash will not fire in this mode. Use flash cancel when flash photography is prohibited, natural light is desired to illuminate the subject, or the subject is beyond the flash range. The camera-shake warning may appear in this mode.



Press the flash-mode button until the flash-cancel indicator appears on the data panel to set the flash mode.

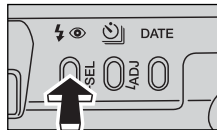
- The orange flash lamp may blink slowly as a camera-shake warning. Camera shake is a slight blurring of the image caused by slight hand motions during long exposures. To eliminate camera shake, use the flash or place the camera on a tripod.

NIGHT PORTRAIT

ADVANCED OPERATION



In night-portrait mode, the camera balances the flash and existing light exposure so you can take beautiful portraits at sunset or at night. The flash will fire with each exposure regardless of the amount of ambient light. Red-eye reduction is used with the night-portrait mode.

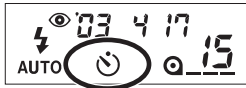
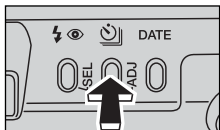


Press the flash-mode button until the night-portrait indicator appears on the data panel to set the flash mode.

- Warn your subject not to move after the flash burst as the shutter may still be open for the background exposure. Because of long exposure times, the use of a tripod is recommended

SELF-TIMER

The self-timer is used for taking self-portraits. The self-timer delays release of the shutter for approximately 10 seconds after the shutter-release button is pressed.

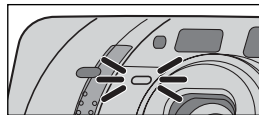


1. With the camera on a tripod, press the drive-mode button until the self-timer indicator appears on the data panel.

2. Frame the subject as described in the manual.

- Focus lock can be used (P. 24).

ADVANCED OPERATION



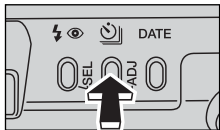
3. Press the shutter-release button all the way down to begin the countdown.

- The self-timer indicator will blink on the data panel. The self-timer lamp on the front of the camera will blink slowly during the countdown, then rapidly just before the shutter is released.

- To cancel the self-timer, press the drive-mode button again or turn the camera off.
- Self-timer is automatically canceled after the shutter is released.



In this mode, the camera continuously takes pictures as long as the shutter-release button is held down. The camera will take one picture every 2.2 seconds. When the flash is used, the rate may be slower because the flash must recharge between frames.



1. Press the drive-mode button until the continuous-advance indicator appears on the data panel.



2. Frame the subject as described in the manual.

3. Press the shutter-release button all the way down and hold to begin taking pictures.

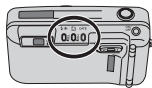
- Focus will be adjusted between exposures.

- Continuous advance remains in effect until the drive mode is reset.

The quartz-date model has date and time imprinting and remote-control operation.

DATE AND TIME IMPRINTING

The imprinting feature enables the date or time to be printed onto the lower-right portion of the picture. The date is recorded as the film is advanced to the next frame. The last picture on the roll may not be imprinted. The calendar is programmed through the year 2099.



BUTTONS FOR THE DATE FUNCTION

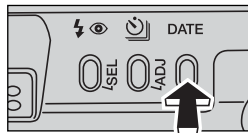


Select button

Adjust button

Date button

IMPRINTING THE DATE OR TIME



Press the date button to select the date imprinting format.

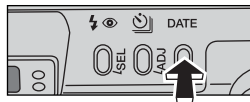
- The display will change as follows:



- If the date/time display is blinking, the calendar and clock need to be reset (p. 46). No information will be imprinted until the date and time are entered.

SETTING THE DATE OR TIME

Note: the date and time must be reset each time the battery is replaced.



1. Turn the camera on. Press the date button until "SEt" appears on the data panel.

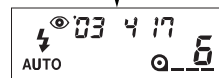
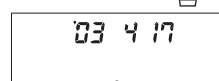
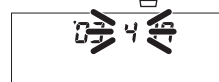


2. Press the select (SEL) button until the item to be adjusted blinks.

- Each time the select button is pressed, the next item on the calendar and clock blinks. The sequence is:



YY → MM → DD → hh → mm → The display stops blinking



3. Press the adjust (ADJ) button or zoom lever to change the blinking item.

- The numerals continues to change as long as the button is held down.
- Pressing the W side of the zoom lever counts down, the T side counts up.

4. Repeat steps 2 and 3 until all items in the date and time display are correct.

5. Press the date button to set the date and time.

- The camera will return to the shooting mode automatically after five seconds. Pressing the date button again or pressing the shutter-release button partway down will also return the camera to the shooting mode.

FOR OWNERS OF THE QUARTZ-DATE MODEL

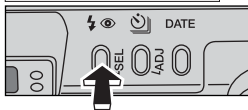
ADVANCED OPERATION

- Pressing the select (SEL) button until the date/time display stops blinking can also set the calendar and clock.

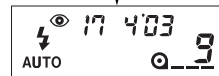
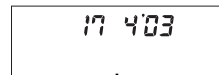
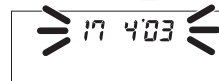
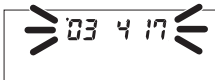
CHANGING THE DATE FORMAT



- Press the date button until “SEt” appears on the data panel.



- Press and hold the select (SEL) button for more than 2 seconds until all items on the date display blink.



- Press the adjust (ADJ) button or zoom lever to change the display format.

- The date format changes as follows:
`Y M D → M D`Y → D M`Y

- Press the date button to set the date format.

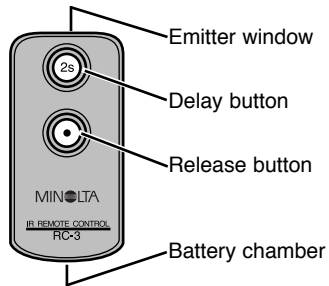
- The camera will return to the shooting mode automatically after five seconds. Pressing the date button again or pressing the shutter-release button partway down will also return the camera to the shooting mode.
- Pressing the select (SEL) button until the date/time display stops blinking can also set the date format.

REMOTE CONTROL OPERATION

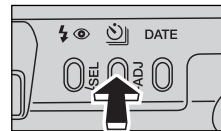
The quartz-date model can be controlled by the IR remote control RC-3 (sold separately). The remote control allows remote camera operation up to 5 meters (16.5 feet) away.

- Focus lock cannot be used with the IR remote control.

NAMES OF PARTS

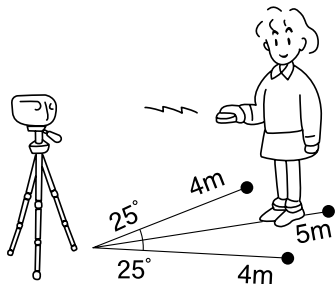


TAKING PICTURES USING THE REMOTE CONTROL



1. Place the camera on a tripod. Point the camera so that the subject is within in the focus frames.

2. Press the drive-mode button until the remote-control indicator appears on the data panel.

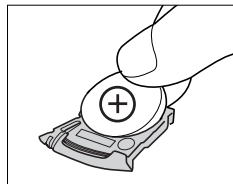
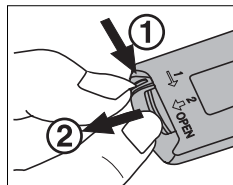


3. Point the remote control toward the front of the camera and press either the release button (•) or the delay button (2s) to take the picture.

- If the release button (•) is pressed, the self-timer/remote-control lamp on the front of the camera will blink once before the picture is taken. If the delay button (2s) is pressed, the lamp will blink for two seconds before the picture is taken.

- To save power, the camera automatically shuts down if the shutter is not released in approximately 8 minutes.
- Under fluorescent or extremely bright lighting, or with backlit subjects, the remote control may not operate or the effective distance may be reduced.
- The remote control mode will remain in effect after the picture has been taken. Press the drive-mode button to reset the drive mode, or turn the camera off.

CHANGING THE REMOTE-CONTROL BATTERY



The remote control uses a 3V lithium battery (CR2032). When pressing the remote-control buttons does not release the shutter, the battery needs to be replaced. The supplied battery should be sufficient for approximately ten years of operation.

1. Pull out the battery chamber as shown and remove the old battery.
2. Insert a new battery into the battery chamber with the positive (+) pole up.
3. Slide the battery chamber into the remote control.

MINOLTA HISTORY

On February 20th, 1962, John Glenn became the first American to orbit the Earth. On board his Friendship 7 spacecraft was a Minolta Hi-matic camera to record that historic event. The 4 hour, 55 minute, and 23 second flight orbited the Earth three times at an average speed of 28,000 kph (17,500 mph).

Mr. Glenn visited our Sakai camera factory in Japan on May 24th, 1963 to plant a palm tree to celebrate the occasion. The palm tree is still in the courtyard of the factory and stands over eight meters tall (26ft).

The camera? It was not lost. It is on display at the Smithsonian Institution's National Air and Space Museum in Washington D.C. This and other objects from John Glenn's Friendship 7 Mercury flight can be found in gallery 210, "Apollo to the Moon."



CARE AND STORAGE

OPERATING TEMPERATURE AND CONDITIONS

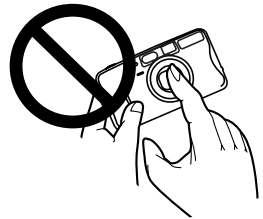
- This camera is designed for use from -10 to 40°C (14 to 104°F).
- Never leave the camera where it may be subjected to extreme temperatures such as in the glove compartment of a car.
- At colder temperatures, the data panel response time will be slow. At higher temperatures, the display will temporarily darken, but will be restored when the temperature normalizes.
- Never subject the camera to extreme humidity.
- To prevent condensation from forming, place the camera in a sealed plastic bag when bringing it from a cold environment into a warm one. Allow it to come to room temperature before removing it from the bag.



- When photographing in cold weather, it is recommend that you keep the camera and spare batteries inside your coat to keep them warm when you are not shooting. Cold batteries will regain some of their charge when they warm up.
- This camera is not waterproof, dust-proof, or sand-proof. Care should be taken when using of this camera near water or the beach to protect it from damage caused by water, dust, or sand. Protect the camera from moisture or splashes, especially saltwater spray. Be extremely careful to protect the interior and exterior of the camera and its accessories from sand.

CLEANING

- Keep the AF window clean to ensure accurate focus.
- If the camera body is dirty, gently wipe it clean with a soft, clean, dry cloth.
- To clean the lens surface, first brush away any dust or sand then, if necessary, moisten a lens tissue with lens cleaning fluid and gently wipe the lens in a circular motion, starting from the center.
- Never place lens fluid directly on the lens.
- Never touch the lens surface with your fingers.
- Never use alcohol or solvents to clean the camera.



STORAGE

When storing the camera for extended periods, please follow these guidelines:

- Store the camera in a cool, dry, well-ventilated area away from dust and chemicals. For very long periods, place the camera in an airtight container with a silica gel drying agent.
- After prolonged storage, always check the camera's operation to make sure it is functioning properly.

BEFORE IMPORTANT EVENTS

- Check camera operation carefully and take test photographs. Purchase a spare battery.
- Minolta is not responsible for any loss which may occur due to an equipment malfunction.

CAMERA ERROR

If all the indicators on the data panel blink, or the data panel is blank and the camera will not function with a recently installed battery, remove and reinsert the battery. If the camera does not resume normal operation, or the camera malfunctions repeatedly, contact an authorized Minolta Service Facility.

QUESTIONS AND SERVICE

- If you have questions about your camera, contact your local camera dealer or write to the Minolta distributor in your area.
- Before shipping your camera for repair, please contact an authorized Minolta Service Facility for details.

Camera Type:	35mm lens-shutter camera
Lens:	37.5-160mm f/5.4 - 12.4 lens 6 elements in 6 groups
Focusing Range:	(W): 0.6m - ∞ (2.0 ft - ∞) (T): 0.95m - ∞ (3.1 ft - ∞)
Film Speed:	Settings Automatic for DX-coded film. Non-DX coded film set to ISO100. Range ISO 25 to 3200
Metering Range	Wide: Ev 3 - 17
(ISO 100):	Tele: Ev 4.1 - 17
Shutter Speed:	10 - 1/500 sec.
Flash Range	Wide: 0.6 - 4.6 m (2.0 - 15.1 ft.)
(ISO 100):	Tele: 0.95 - 2.0 m (3.1 - 6.6 ft.)
Battery:	One 3-volt CR123A lithium battery Battery-condition indication: 3-stage indication Battery performance: approx. 14 rolls based on Minolta's standard test method using 24-exposure rolls with flash for 50% of the exposures.

Viewfinder:	Magnification: 0.37X - 1.46X Field of View: 85% (at 3m) Eye-relief: 17.3mm from the viewfinder frame
Dimensions:	110.5 x 60.5 x 46.5 mm 4.4 x 2.4 x 1.8 in
Weight:	190g (6.7 oz.) without battery

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

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