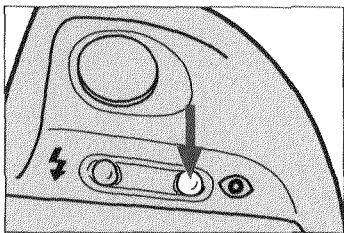

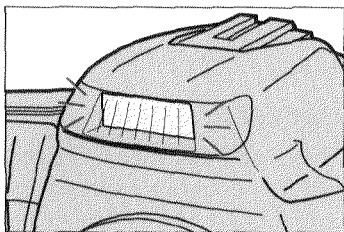


# RED-EYE REDUCTION

When photographing people or animals at night or in low-light situations, the effect called "Red-eye" may occur due to the flash reflecting off the inside of the subject's eyes. To reduce this effect and produce more natural and beautiful pictures, use the red-eye reduction mode with the built-in flash.



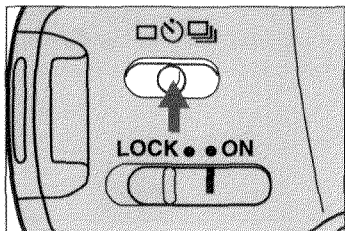
1. Press the Red-eye reduction button so that the red-eye reduction indicator  appears in the data panel.




2. Warn your subject that the flash will fire a series of short flash bursts just before the picture is taken.

# SELF-TIMER

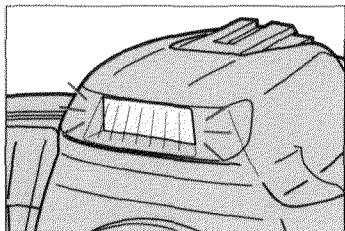
The self-timer will delay the shutter-release for 10 seconds after the shutter-release button is pressed all-the-way down, this allows you time to get in the picture.



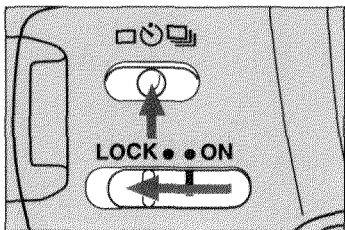
1. Press the drive-mode/self-timer button until the self-timer symbol  appears in the data panel.

2. Compose the picture.

- If your subject is off center, use focus lock (p. 22) to focus on your subject.



3. Press the shutter-release button all the way down to activate the self-timer. The flash will fire three short bursts just before the picture is taken unless the flash is off. The self-timer mode will automatically cancel after the exposure is made.

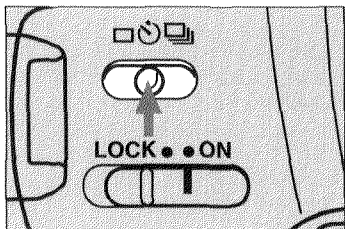


**To cancel self-timer** once it has been activated, slide the main switch to LOCK or press the drive-mode/self-timer button again.

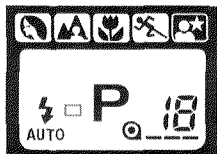
- If you are not looking through the viewfinder when you press the shutter-release button, attach the eyepiece cap (p. 9) to prevent light from entering through the eyepiece and affecting the exposure reading.

# DRIVE MODE SELECTION

Your camera has both single-frame and continuous-frame advance. In single-frame mode, the camera takes one exposure and automatically advances the film for the next exposure. In continuous film advance, the camera continues to take photographs up to one frame per second for as long as the shutter-release button is pressed all the way down. When using this mode with moving subjects the camera continues to make focus adjustments between exposures so actual frame rate will vary depending on the speed of the subject.



Repeatedly press the drive-mode/self-timer button until the desired drive-mode appears in the display panel.



Single-frame drive

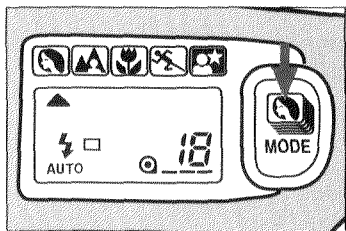


Continuous-frame drive

# **SUBJECT PROGRAM MODES**

# SUBJECT PROGRAM SELECTION

Subject program selection allows you to choose five different subject program modes: Portrait, Landscape, Close-up, Sports and Night Portrait. These program modes allow you to tell the camera what type of picture you will be taking so that it may customize the exposure settings for that type of picture.



Press the subject program selector repeatedly until the desired subject program mode is indicated in the data panel.



**Portrait Mode**

Portrait photography



**Landscape Mode**

Scenic and Travel photography



**Close-up Mode**

Macro photography



**Sports Mode**

Sports and Action photography

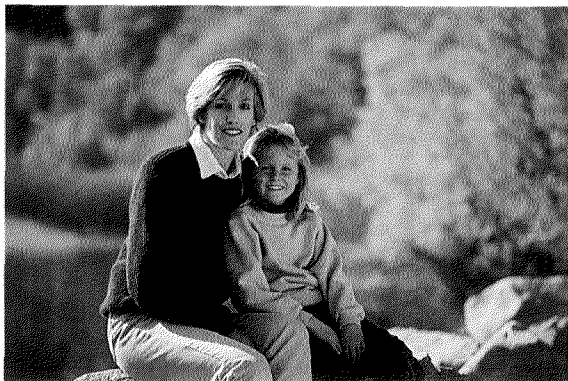


**Night Portrait Mode**

Night Portrait and Night Scene photography



## PORTRAIT MODE



Portrait mode is best suited for photographing people. Portrait photography benefits from a shallow depth of field (the distance in front and behind your subject which will appear in focus) which isolates the person from the background. In portrait mode the camera will adjust its settings to obtain this effect leaving you free to compose the picture and capture the perfect expression.

**Lens Tips:**

Use a mid-telephoto lens with a large aperture for best results.

**Flash Tips:**

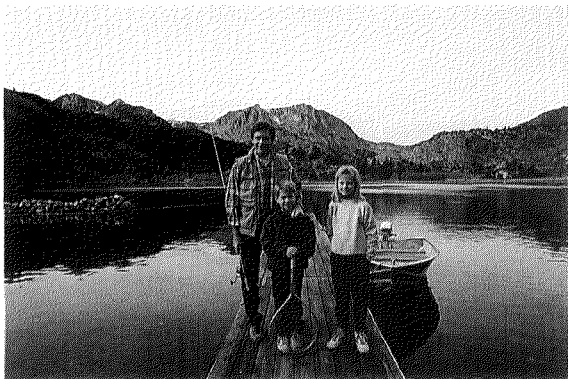
Use flash when your subject is backlit or when there are strong shadows across the face.

**Additional Tips:**

Lock focus on your subject's eyes and be ready to capture the perfect expression.



## LANDSCAPE MODE



Landscape mode is suited for photographing landscape, scenic or travel photographs. Landscape photography generally requires a large depth of field to make sure that everything is in focus. In Landscape mode the camera is automatically set to the smallest aperture possible while maintaining a shutter speed fast enough to prevent blur due to camera shake.

**Lens Tips:**

Use wide-angle lenses to create a feeling of depth in your picture.

**Flash Tips:**

Flash is only needed when there is a person in your photograph who is backlit or has strong shadows across the face.

**Additional Tips:**

Use a tripod to get sharp pictures, especially at slower shutter-speeds.



## CLOSE-UP MODE



Close-up mode is best suited for photographing small subjects such as flowers at close distances. Close-up photography requires accurate focusing, so it is recommended that you use focus lock or manual focus to make sure that main part of your subject is in sharp focus. In Close-up mode the camera will automatically set the best possible aperture and shutter speed for your subject.

**Lens Tips:**

Use one of Minolta's macro lenses or a macro-capable zoom lens.

**Flash Tips:**

Use the Macro Flash 1200AF Set.

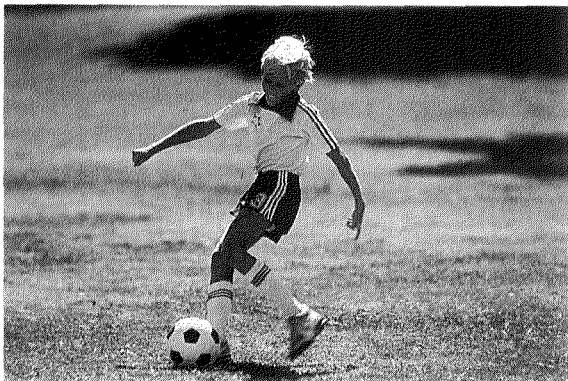
**Additional Tips:**

Accurate focus is very important, make sure that you focus on the main part of your subject. Use a tripod and the self-timer to reduce camera shake.





## SPORTS MODE



Sports mode is suited for photographing fast action events which require a fast shutter speed to stop the action. In Sports mode the camera automatically sets the fastest possible shutter speed and continuously adjusts the focus to track fast-moving subjects.

**Lens Tips:**

Use large aperture telephoto lenses which allow the camera to select faster shutter-speeds.

**Flash Tips:**

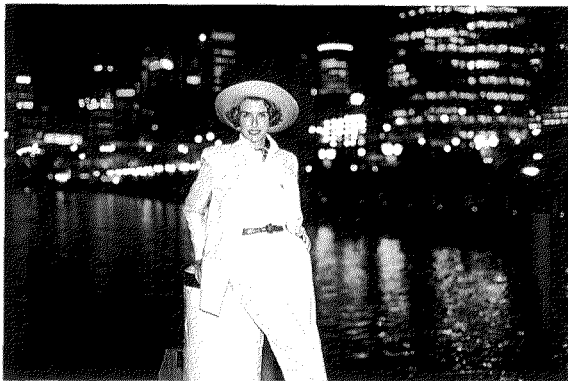
Using flash will only help if your subject is within the flash range. Powerful accessory flashes have longer ranges.

**Additional Tips:**

Use fast film (ISO 400 or higher) and keep the focus frame on your subject.



## NIGHT PORTRAIT MODE



Night Portrait mode is suited for portraits and scenic photography at night. Nighttime photography requires the camera to balance the camera's flash with the background. In this mode, the camera uses the largest aperture possible with a longer shutter speed which allows the background to appear in the photograph.

**Lens Tips:**

Lenses with larger apertures allow more background light in your picture.

**Flash Tips:**

Use flash when your subject is in front of your night scene. Flash is not needed if you are only photographing a night scene.

**Additional Tips:**

Focus on the main part of your subject and use a tripod.

# APPENDIX

# ACCESSORY INFORMATION

This camera is designed to work specifically with lenses, flash units, and other accessories manufactured and distributed by Minolta. We therefore caution that using incompatible accessories with this camera may result in unsatisfactory performance or damage to the camera and accessories.

## LENSES

- All Minolta AF lenses can be used with this camera.
- Manual focus lenses (MD or MC) cannot be attached to this camera.

### **Macro AF3X-1X Zoom lens:**

- Before attaching the lens to the camera, set any lens' magnification other than 1X.

## FLASHES

- All Minolta i-, xi-, and HS-Series flash units can be used with this camera.
- To use an AF-Series flash unit, Flash Shoe Adapter FS-1100 must be attached to the camera. When the flash is on, the flash will fire each time you take a picture. At no time will the flash's AF illuminator activate.
- X-Series flash units cannot be used.

## OTHER ACCESSORIES

- Creative Expansion Cards cannot be used.
- Angle Finder and Magnifier cannot be used.
- Close-up Diffuser CD-1000 cannot be used.

# OPTIONAL QUARTZ DATA BACK MODEL

For the owner of the Quartz Data Model, this camera is equipped with a Quartz Data Back which automatically imprints the date or time in the lower-right corner of the picture as a record of when the picture was taken. The bar in the quartz data back data panel will flash for 2 seconds after the picture is taken to indicate that the data was imprinted. The calendar and quartz-controlled clock may be switched off when imprinting is not desired.

The diagram illustrates the Quartz Data Back display formats and control buttons. At the top left, a large display shows '940900'. Below it, three buttons are labeled 'MODE', 'SELECT', and 'ADJUST'. A downward arrow points to the 'MODE' button. To the right, five smaller displays show different data imprinting formats: '940900' (Year, Month, Day), '0803:27' (Day, Hour, Minute), '-----' (No imprinting), '0809'94' (Day, Month, Year), and '0908'94' (Month, Day, Year).

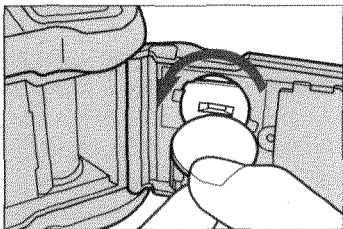
Press the **MODE** button to choose a data imprinting format.

## SETTING DATA

1. Press the **MODE** button to choose either Date or Time mode. M will appear above the month.
2. Use the **SELECT** button to move between different parts of the displayed data. The selected part will blink indicating it is the data to be changed.
3. Press the **ADJUST** button to change the data to the correct value. The data will continue to change if the **ADJUST** button is held down. In time mode, pressing the adjust button while the colon (:) is blinking will reset the seconds counter to 00. The seconds do not appear in the display.
4. When all data is correct, press the **SELECT** button until the data stops blinking.

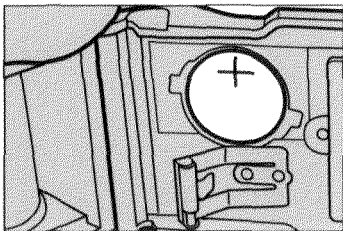
## REPLACING THE QUARTZ DATA BACK BATTERY

The data back uses a 3-volt lithium battery (CR2025). Change the battery when the imprinted data or data panel become dim.



1. Open the back cover by pressing the back cover release down.

2. Using a coin or screwdriver, remove the battery cover by turning counter-clockwise as shown.



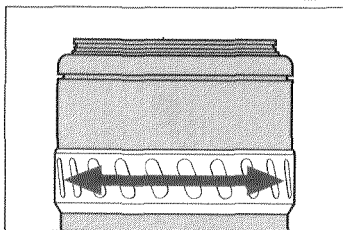
3. Remove the old battery and replace it with a new one; making sure that the + indicator is facing upward.

4. Replace the battery cover by turning clockwise. The time and date will have to be reset.

### CAUTION:

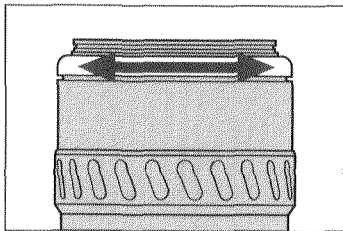
- Imprinted data may be difficult to read if the printing area is bright, orange, or not uniform.
- Make sure there is no film in the camera before opening the back cover.
- Keep batteries away from children.
- Do not touch any other parts inside the camera other than the data back battery cover.
- Do not use the data back when temperatures exceed the operating temperature range of 0° - 50°C (32° - 122°F).

## OPTIONAL LENS KIT (35-70mm f/3.5-4.5)



### Manual Zoom

Rotate the zooming ring clockwise or counter-clockwise to adjust the lens to the desired focal length for your picture.



### Manual Focus

Rotate the focusing ring clockwise or counter-clockwise to focus on the subject. The focus lock indicator will glow when the subject, within the focus frame, is in focus.

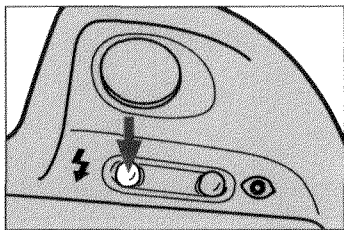
### AF 35-70mm LENS SPECIFICATIONS

<b>Construction:</b>	7 element, 7 groups
<b>Aperture:</b>	<b>min:</b> 22-27 <b>max:</b> 3.5-4.5
<b>Focal length:</b>	35-70mm
<b>Zoom angle:</b>	63 - 34 degrees
<b>Min. focus distance:</b>	0.5m at all focal lengths
<b>Max. magnification:</b>	0.15x (70mm, 0.5m)
<b>Filter diameter:</b>	49mm
<b>Dimensions:</b>	68.5mm x 63mm
<b>Weight:</b>	210g

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

## ACCESSORY FLASH CONTROL

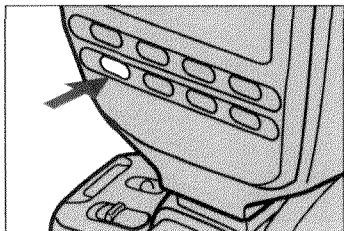
When using an accessory flash with your camera you may select any of the three flash modes: ON, OFF, AUTO as well as wireless flash. Please read the following instructions for selecting accessory flash modes:



### Using the Camera

Press the camera flash-mode button to select the desired mode: ON, OFF, AUTO.

- All information is transferred directly to accessory flash.



### Using the Flash

Press the flash ON/OFF button to select the desired mode: OFF, AUTO.

- ON mode may only be selected by the camera flash-mode button.
- Flash data is not transferred to the camera until the shutter-release button is pressed part-way down.

### Note:

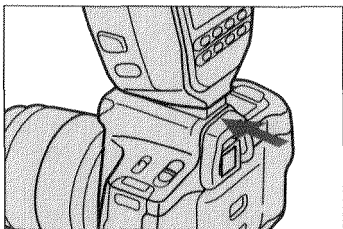
If you are using an AF-Series accessory flash unit and wish to cancel the flash, you must turn off both the accessory flash ON/OFF switch and built-in flash-mode button. The camera's flash-mode button cannot control the AF-Series accessory flash unit as it does with the newer accessory flash series.



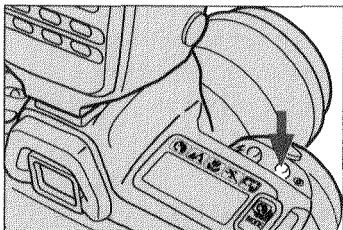
# WIRELESS/REMOTE FLASH

Wireless/Remote flash allows you to experiment with accessory flashes to create beautiful, unique, and exciting images without the hassle of accessory cords and adapters. Simply position the flash almost anywhere you want and the camera will do the rest. The camera's built-in flash sends out a coded flash burst that triggers the accessory flash to fire. When the proper exposure is reached another coded flash burst turns the accessory flash off.

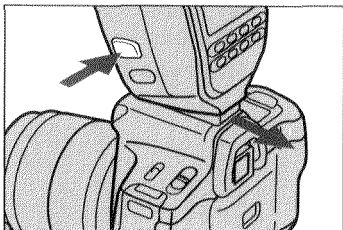
## USING WIRELESS/REMOTE FLASH



1. Attach the accessory flash (5400HS, 5400xi, or 3500xi) to the camera and turn both the flash and camera on.

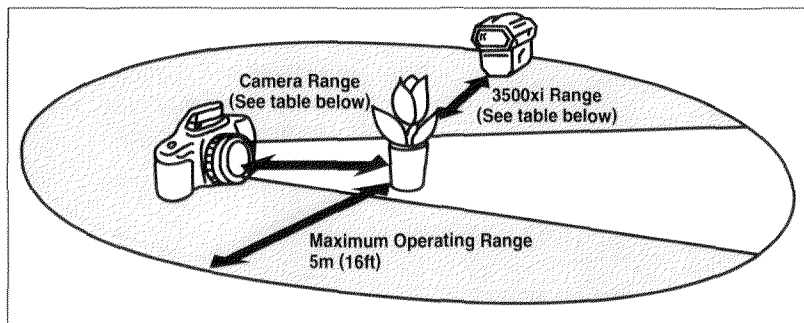


2. Press the red-eye reduction button - **WL** will appear in the data panel and the flash is now set for wireless /remote flash.



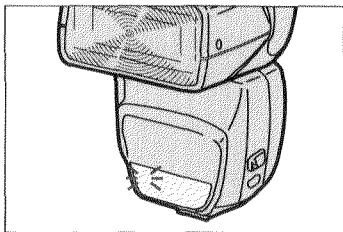
3. Remove the accessory flash. It is now ready to be positioned.

Use the information on this page to position your camera and 3500xi flash unit. If you are using a flash unit other than the 3500xi, refer to that flash manual. The camera to subject distance and the accessory flash unit to subject distance will vary depending on the speed of the film and the maximum aperture of the lens being used.

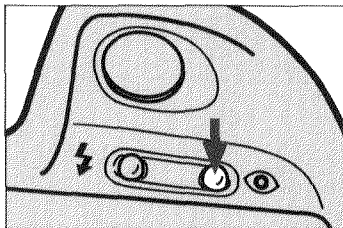


f#	CAMERA-SUBJECT DISTANCE m/ft		3500xi-SUBJECT DISTANCE m/ft	
	ISO 100	ISO 400	ISO 100	ISO 400
f/2.8	1.4-5m/4.6-16.4ft	2.8-5m/9.2-16.4ft	1-5m/3.3-16.4ft	2-5m/6.6-16.4ft
f/4	1-5m/3.3-16.4ft	2-5m/6.6-16.4ft	0.7-4.5m/2.3-14.4ft	1.4-5m/4.6-16.4ft
f/5.6	1-5m/3.3-16.4ft	1.4-5m/4.6-16.4ft	0.5-3.2m/1.6-10.6ft	1-5m/3.3-16.4ft

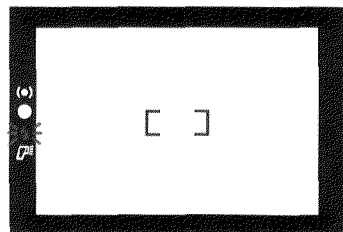
- The off-camera flash unit may not detect the control signals if it is behind the subject or if the AF illuminator is not pointing at the subject.



4. Wait for both the flashes to charge.
  - The accessory flash's AF illuminator will blink when the flash is fully charged.

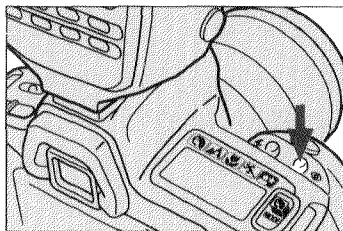


5. Press the red-eye reduction button to test fire the accessory flash. Again, wait for both flashes to charge.



6. Press the shutter-release button all-the-way down to take the picture.
  - The flash ready indicator will blink to confirm that the flash was sufficient for proper exposure.

## CANCELLING WIRELESS/REMOTE FLASH



Reattach the accessory flash to the camera and press the red-eye reduction button. The **WL** symbol will disappear and wireless/remote flash is cancelled.

# TROUBLE SHOOTING

Refer to this table to determine the cause of a problem you are experiencing with your camera. If the information does not cover the problem which you are experiencing or the condition continues, contact your nearest Minolta Service Facility.

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
Data panel indicators blink and/or camera does not function	<ul style="list-style-type: none"><li>• Camera operation malfunction</li></ul>	<ul style="list-style-type: none"><li>• Remove and reinstall the battery</li></ul>
No display in the data panel when the camera is switched ON	<ul style="list-style-type: none"><li>• Battery is exhausted</li></ul>	<ul style="list-style-type: none"><li>• Install a new battery</li></ul>
- appears in the data panel when the shutter-release button is pressed partway down	<ul style="list-style-type: none"><li>• Lens not attached correctly</li><li>• Contacts on camera and/or lens are dirty</li><li>• Camera is attached to telescope</li></ul>	<ul style="list-style-type: none"><li>• Reattach the lens</li><li>• Clean contacts</li><li>• Contact a Minolta Service Facility for information</li></ul>
Autofocus does not work when shutter-release button pressed part-way down	<ul style="list-style-type: none"><li>• Camera in manual focus</li><li>• Situation unsuitable for autofocus</li><li>• Subject too close</li></ul>	<ul style="list-style-type: none"><li>• Set autofocus mode</li><li>• Use focus lock or manual focus</li><li>• Check minimum focus distance for your lens</li></ul>
Flash fires when shutter release is pressed partway down	<ul style="list-style-type: none"><li>• AF illuminator is on</li></ul>	<ul style="list-style-type: none"><li>• Normal camera operation</li></ul>

# CARE AND STORAGE

## OPERATING TEMPERATURE AND CONDITIONS

- This camera is designed for use from -20° to 50°C (-4° to 122°F).
- Never leave your camera where it may be subjected to extreme temperatures such as 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 restore when the temperature normalizes.
- Never subject your camera to extreme humidity.
- To prevent condensation from forming, place the camera in a sealed plastic bag when bringing it from the cold exterior to a warm building. Allow it to come to room temperature before removing it from the bag.

## BATTERY CAUTIONS

- Read and follow all warnings and instructions supplied with the batteries.
- Keep batteries away from children.
- Do not subject the battery to high temperatures or fire; or attempt to disassemble, recharge or short-circuit it; the battery may explode causing severe burns.
- When photographing in cold weather, we 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.
- The low-battery symbol may appear even with a fresh battery depending on the storage conditions. To restore camera power, repeat turning the camera on and off.

## HANDLING CARE

- Do not touch or cover the flashtube and be sure to leave sufficient space around it during operation - it may become hot when the flash fires.
- Never subject the camera to shock, especially when transporting.
- This camera is not waterproof, dust-proof, or sand-proof; take care when using at the beach or near water - costly or irreparable damage to the camera may occur.
- This camera contains high-voltage circuits; do not attempt to disassemble or repair it.

## CLEANING

- If the camera or lens barrel is dirty, wipe it gently with a soft, clean, dry cloth. If it comes in contact with sand, gently blow away loose particles - wiping may scratch the surface.
- To clean the lens surface, first brush away any dust or sand and if necessary moisten a lens tissue with lens cleaning fluid and gently wipe the lens in a circular fashion from the center.
- Never place lens-fluid directly on the lens.
- Never touch the interior of the camera, especially the shutter and mirror. *Doing so may impair their alignment and movement.* Dust on the mirror will not affect the picture quality.
- Never use compressed air to clean the camera's interior, it may cause damage to sensitive interior parts.
- Never use organic solvents to clean the camera, especially the lens mount.
- Never touch the lens surface with your fingers.

## **STORAGE**

When storing your camera for extended periods of time, please follow these guidelines:

- Always attach the protective caps.
- Store in a cool, dry and well ventilated area away from dust and chemicals such as moth balls. For very long periods, place the camera and lens in an airtight container with a silica gel drying agent.
- Periodically release the camera's shutter to keep it operating properly.
- Before using after prolonged storage, always check the camera's operation to make sure that it is functioning properly.

## **BEFORE IMPORTANT EVENTS**

- Always check camera operation carefully or take test photographs.
- Minolta is not responsible for damages incurred by equipment malfunction.

## **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.

## TECHNICAL DETAILS

- Type:** Micro-processor controlled 35mm SLR with expert control of autofocus(AF) and autoexposure(AE).
- Lens Mount:** Minolta A-type bayonet mount, compatible with all Minolta AF lenses including AF Zoom xi and AF Power Zoom lenses.
- AF System:** Through-the-lens (TTL) phase-detection system with one CCD line sensor and AF Illuminator. Continuous AF/focus lock selected automatically according to subject movement; predictive and manual focus control with electronic confirmation. Sensitivity: EV -1 to 17 (ISO 100).
- Metering:** TTL, 8-segment honeycomb pattern silicon photocell (SPC); direct TTL flash metering. Programmed AE (P-Mode) exposure mode with 5 subject program modes: Portrait, Landscape, Close-up, Sports and Night Portrait. Sensitivity range: EV 1 - 20 (f/1.4).
- Shutter:** Electronically controlled, vertical traverse focal-plane type. Range: 1/2000 - 30 sec.
- Built-In Flash:** Guide Number: 12 (ISO 100); Coverage 28mm; Recycling Time: 2 sec. (according to Minolta's test method); Red-eye Reduction; Modes: ON,OFF,AUTO, auto flash in low-light or back-lit situations.
- Viewfinder:** Roof mirror type; 90% coverage; 0.75X magnification (50mm lens at infinity); -1 diopter (fixed)
- Self-timer:** 10 second delay of shutter release; flash fires three bursts just before the picture is taken.



**Film:** Automatic film transport, first frame setting, film advance and film rewind, manual film rewind switch. Continuous film advance at 1 frame per second. Film Speed Range: ISO 25-5000, ISO 25-1000 (w/flash) DX-coded film set automatically, Non-DX-coded film set to ISO 100.

**Power:** Camera: (1) 6-volt 2CR5 lithium battery;  
Power Indicator: 4-stage power indicator.  
Performance: Performance is based on Minolta's standard test method using 24-exposure roll film, AF 35-70mm f/3.5-4.5 lens, AF from infinity to minimum focus distance and back 3 times, shutter-release button held partway down for 10 seconds before each exposure.

Flash use	20°C (68°F)	-20°C (-4°F)
100%	15 rolls	5 rolls
50%	25 rolls	10 rolls
0%	70 rolls	25 rolls

Performance will vary depending on the number of operations performed during each exposure. For performance with 36-exposure rolls, reduce the above data by 1/3.

QD Back: (1) 3-volt CR2025 lithium battery.

**Dimensions:** 147 x 101 x 68mm (5<sup>13/16</sup> x 4 x 2<sup>11/16</sup>in)

Date model: 147 x 101 x 69mm (5<sup>13/16</sup> x 4 x 2<sup>3/4</sup>in)

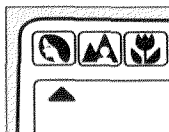
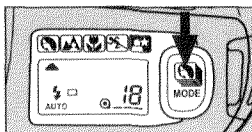
**Weight:** 380g (13.4oz) (body only)

Date model: 385g (13.6oz) (body only)

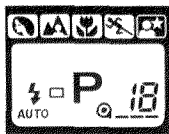
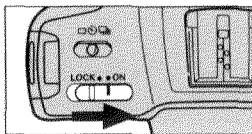
\*Specifications and accessories are based on the latest information available at the time of printing and are subject to change without notice.

# QUICK REFERENCE

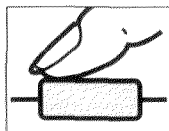
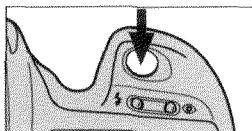
Select a Subject Program Mode



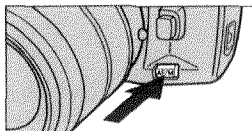
Re-set Full-Auto Mode



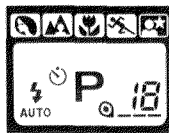
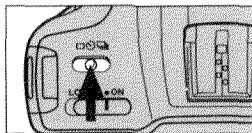
Lock Focus



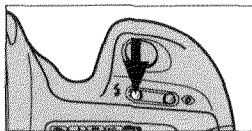
Focus Manually



Set Self-Timer



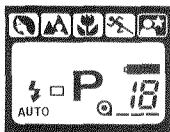
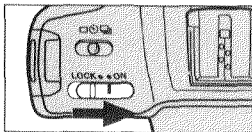
Set Fill-Flash



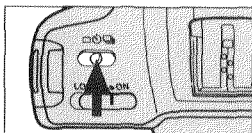
Cancel Flash



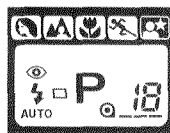
Check Battery



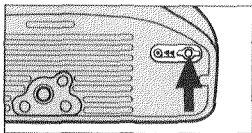
Change Drive Mode



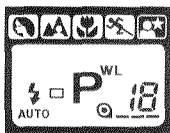
Set/Cancel red-Eye Reduction



Rewind Film



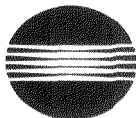
Set  
Wireless/Remote  
Flash



This device complies with Part 15 of the FCC Rules. Operation is subject to the following 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 digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.



# MINOLTA

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