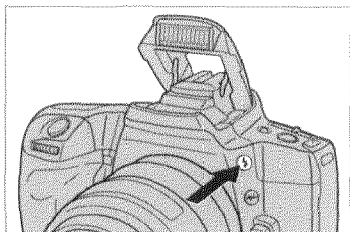


## WIRELESS / REMOTE RATIO CONTROL

In wireless / remote mode when ratio control is selected, the output of the off-camera flash and built-in flash combine to provide a 2:1 lighting ratio.

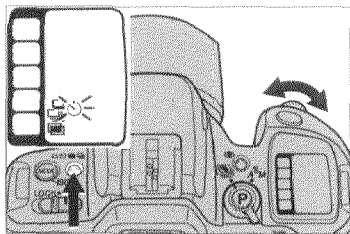



To use ratio control, press and hold the flash-control / aperture button, then press the shutter-release button all the way down to take the picture.

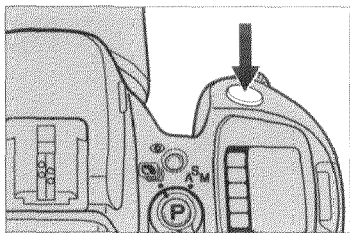
# **ADDITIONAL FEATURES**

## SELF-TIMER

The self-timer will delay release of the shutter for approximately 10 seconds after you press the shutter-release button giving you time to get in the picture.



1. Press and hold the self-timer / drive-mode button, then turn the control dial until the self-timer indicator  blinks.



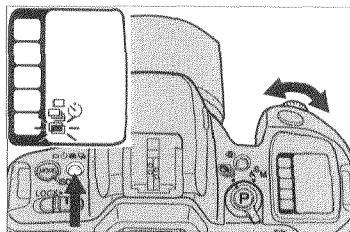
2. Compose the picture and press the shutter-release button all the way down to start the timer.
- The self-timer lamp on the front of the camera will blink until the shutter-releases.
  - Self-timer mode will automatically cancel after the exposure is made.


- **To cancel self-timer** before the shutter releases, slide the main switch to LOCK.
- If you are not looking through the viewfinder when you press the shutter-release button, attach the eyepiece cap (p. 42) to prevent light from entering through the eyepiece and affecting the exposure reading.

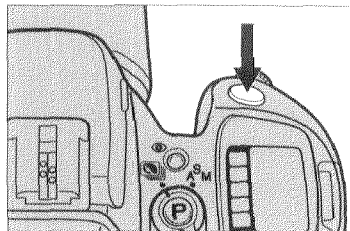
## DOUBLE EXPOSURE MODE



In double-exposure mode, two exposures are overlapped on the same frame.




1. Press and hold the self-timer / drive-mode button, then turn the control dial until the double-exposure indicator  blinks in the data panel.



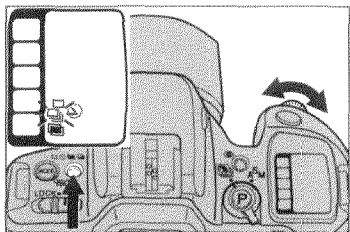
2. Compose your first picture and press the shutter-release button all the way down.
  - The frame counter blinks indicating that the first picture of the double exposure has been taken.


3. Compose your second picture and press the shutter-release button all the way down again.

- Double-exposure mode is automatically canceled after both exposures are made.
- To cancel the double-exposure mode before the second picture is taken, repeat the procedure so that the single-frame indicator  appears in the data panel.

## CONTINUOUS-DRIVE MODE

In this mode, the camera continuously takes pictures and advances the film as long as the shutter-release button is held down.



1. Press and hold the self-timer / drive-mode button, then turn the control dial until  blinks in the data panel.

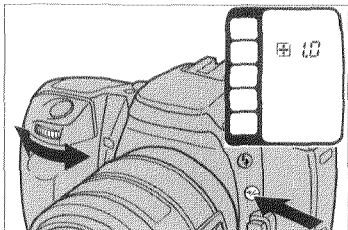
2. Press the shutter-release button down and hold.

- The camera continuously makes exposures and advances the film up to 1 frame per second.
- When flash is being used, the shutter will release only after the flash is charged.
- When the subject is moving, the shutter will release after the camera focuses the subject.

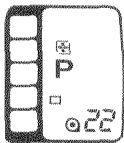
# EXPOSURE COMPENSATION

This function enables you to compensate exposure up to  $\pm 3$  EV in 1/2 EV increments in situations where the camera's metering system may not be able to determine accurate exposure. Increased exposure is recommended for scenes which are very bright, such as snow or beach scenes; similarly decreased exposure is recommended when the scene is composed of mostly darker tones like as shadow scene.

- Example photographs are shown in page 41.



1. Press and hold the exposure-compensation button, then turn the control dial until the compensation value you want appears in the data panel.



2. Release the exposure-compensation button to enter the number.
  - $\square$  or  $\square$  will remain in the data panels as a reminder that exposure compensation is set.

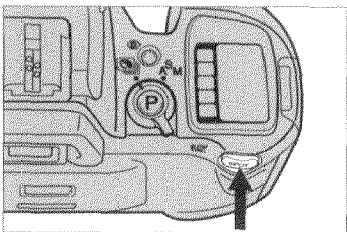
- To cancel exposure compensation, perform the above procedure and select 0.0.

# SPOT METERING

Spot metering should be used when you want to bias the exposure according to a very small section of the scene. The camera sets the exposure according to the brightness of the area inside the spot circle in the center of the viewfinder.




1. Center your subject inside the spot circle, and press the shutter-release button partway down to focus the subject.



2. Press and hold the spot button.
  - Exposure is locked as long as you are pressing the spot button.

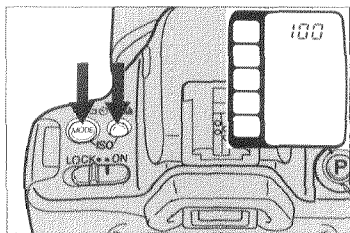


3. While continuing to hold the spot button, recompose the picture if needed, and press the shutter-release button all the way down to take a picture.

- Spot metering is available only when the flash is not being used. If you press the spot button while the flash-on indicator  appears, slow-shutter sync flash is set.

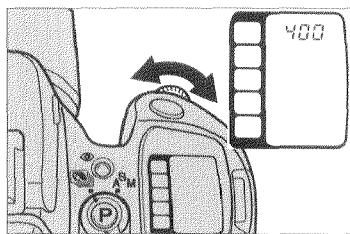
## SETTING THE FILM SPEED MANUALLY

You may manually set the film speed when you are using non-DX-coded film or when you want to override the camera's automatic setting. Film speeds can be set manually from ISO 6 to 6400 in 1/3 EV increments.



1. Press and hold the mode and drive-mode buttons.

- The film speed setting appears in the body data panel.

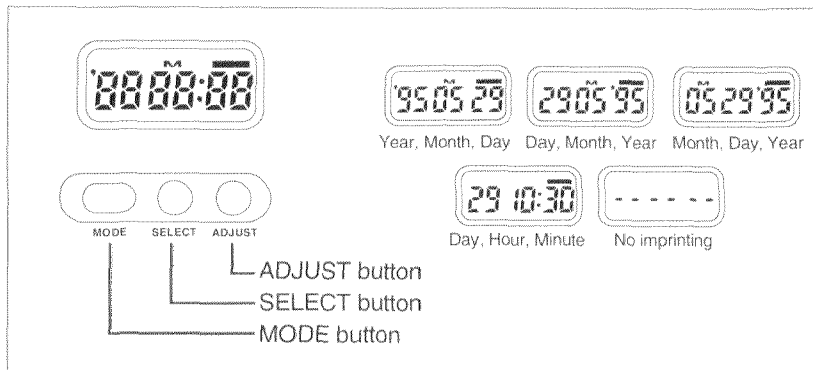


2. While continuing to hold the buttons down, turn the control dial to set the desired film speed.



# 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 calendar and quartz-controlled clock may be switched off when imprinting is not desired.

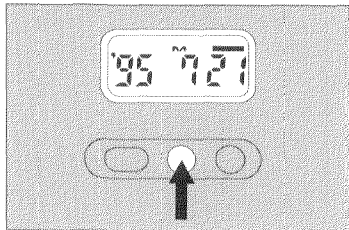
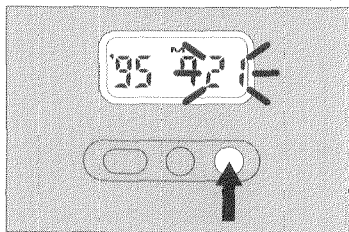
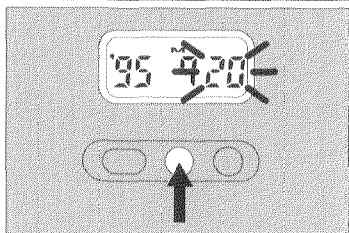
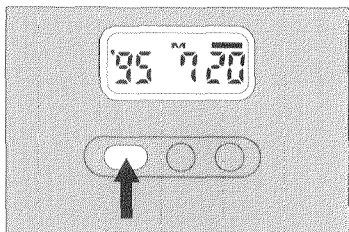


## DATA IMPRINTING

Press MODE button to select date or time imprinting.

- "M" will appear above the month.
- Imprinted data may be difficult to read if the printing area is bright, orange, or not uniform.
- Do not use the data back when temperatures exceed the operating temperature range of 0° to 50°C (32° to 122°F).

## SETTING DATA



1. Press the **MODE** button to choose either Date or Time mode.

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.

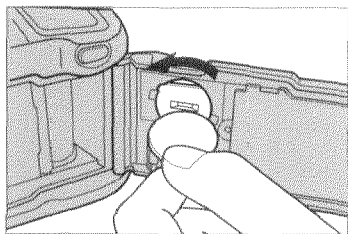
- The data will continue to change if the **ADJUST** button is held down.
- In time mode, pressing the adjust button while the colon (:) is blinking will reset the seconds counter to 00.

4. When all data is correct, press the **SELECT** button until the data stops blinking.

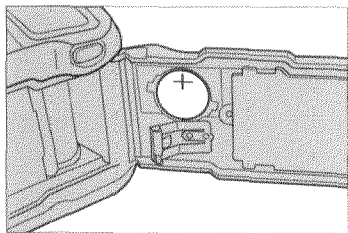
- " — " will appear in the display.

## 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.



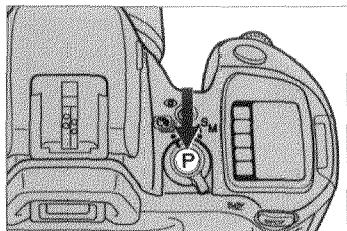
3. Remove the old battery and replace it with a new one; making sure that the + indicator is facing upward.
4. Replace the battery cover by turning clockwise. The time and date will have to be reset.
5. Reset the time and date.

### CAUTION

- Make sure there is no film in the camera before opening the back cover.
- Do not touch any other parts inside the camera other than the data back battery cover.

# APPENDIX

## PROGRAM-RESET BUTTON



The program-reset button is a quick way for you to return the camera to Full-Auto Operation. Whether the Command switch is set to a Subject Program mode or Creative Exposure mode, pressing the program-reset button will set the camera to the following:

<b>FUNCTION</b>	<b>P-MODE SETTING</b>
Exposure mode	P mode
Focus mode	Autofocus
Flash mode	Auto-on (if-raised)
Exposure compensation	$\pm 0$
Film-drive mode	Single-frame advance
Self-timer	Canceled
Wireless/Remote Flash	Canceled

- Red-eye reduction, manual film speed setting, and AF illuminator settings will not change.

## 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

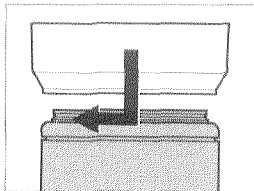
- All Minolta AF lenses can be used with this camera.
- Manual focus lenses (MD or MC) cannot be attached to this camera.
- See page 52 for lens shadowing when using the built-in flash.

#### Optional Lens Kit (35-70mm f/3.5-4.5)

Lens specifications	Construction:	7 element, 7 groups
	Zoom angle	63 - 34 degrees
	Min. focus distance:	0.5m
	Max. magnification:	0.15X (70mm, 0.5m)
	Aperture:	Min: 22-32, Max: 3.5-4.5
	Filter diameter:	49mm
	Dimensions:	68.5 x 63mm
	Weight:	210g

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

#### Optional lens hood



Fit the hood into the bayonet mount on the end of the lens barrel and turn the hood clockwise until it stops.

## FLASHES

- All Minolta i-, xi-, and HS-Series flash units can be used with this camera.
  - See the flash instruction manual for the flash range.
  - Red-eye reduction is not available with accessory flash units.
- 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

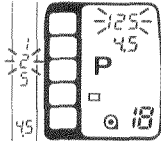
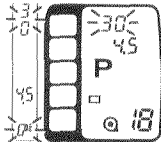
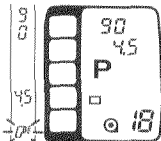
The following accessories cannot be used with this camera:

- Angle Finder
- Magnifier
- Control Grip CG-1100
- Data Receiver DR-1000
- Wireless Controller IR-1N

# TROUBLE SHOOTING

## CAMERA SHAKE WARNINGS

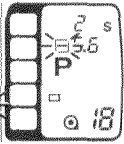
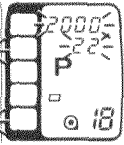
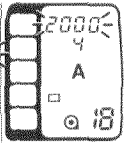
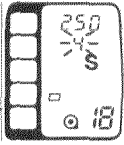
When the shutter speed display or flash-on indicator blinks, refer to this table to determine the possible cause.

Mode	Display	Meaning	Solution
P / A	 <p>Shutter speed blinks</p>	Shutter speed is too slow for the focal length of the lens you are using; camera shake will effect the picture.	Use a tripod or steady the camera.
P	 <p>Shutter speed and <math>\text{D}^{\text{fl}}</math> blinks</p>	Light level requires flash; camera shake will effect the picture.	Use flash or tripod, or steady the camera.
P	 <p><math>\text{D}^{\text{fl}}</math> blinks</p>	Subject is back-lit and flash is required.	Use flash.

- When subject program mode is set, these warnings are the same as those of P mode.




When the shutter speed and/or aperture display blink, or exposure-compensation indicator blinks, refer to this table to determine the possible cause.

Mode	Display	Cause	Action
P/ A/ S/ M	 <p>□ blinks</p>	Scene or subject brightness is beyond the camera's metering range.	In bright light, attach a neutral density (ND) filter, use film with a lower film speed, or reduce the overall brightness of your surroundings.
P	 <p>Shutter speed and aperture blink</p>	Light level is beyond the range of available shutter speeds and apertures.	In low light, select M mode and use a hand-held meter, use film with a higher film speed, or increase the brightness of your surroundings (i.e., use flash).
A	 <p>2000 or 30s blinks</p>	Required shutter speed is beyond the range of the camera.	Select a larger/smaller aperture until the display stops blinking.
S	 <p>Max or min aperture blinks</p>	Required aperture is beyond the range of the lens.	Select a faster/slower shutter speed until the display stops blinking.

## 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.

PROBLEM	CAUSE	SOLUTION	PAGE
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>	16
Autofocus does not work when shutter-release button pressed partway down	<ul style="list-style-type: none"><li>• Situation unsuitable for autofocus</li></ul>	<ul style="list-style-type: none"><li>• Use focus lock or manual focus</li></ul>	47, 48
	<ul style="list-style-type: none"><li>• Camera in manual focus</li></ul>	<ul style="list-style-type: none"><li>• Set autofocus mode</li></ul>	48
	<ul style="list-style-type: none"><li>• Subject too close</li></ul>	<ul style="list-style-type: none"><li>• Check minimum focus distance for your lens</li></ul>	—
Shutter cannot be released	<ul style="list-style-type: none"><li>• Focus cannot be confirmed</li></ul>	<ul style="list-style-type: none"><li>• Use focus lock or manual focus</li></ul>	47, 48
	<ul style="list-style-type: none"><li>• Camera is attached to telescope</li></ul>	<ul style="list-style-type: none"><li>• Contact a Minolta Service Facility for information</li></ul>	—
Flash fires when shutter-release button 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>	49

PROBLEM	CAUSE	SOLUTION	PAGE
Entire picture blurred	• Camera movement	• Hold camera steady and release shutter gently	19
	• Flash down in low light	• Use flash	51
	• <i>Low speed film used</i>	• Use film with a higher film speed	—
Flash picture too dark	• Subject beyond flash range	• Make sure subject is within flash range	52
	• Flash not charged	• Wait until  appears	24
Lower part of flash picture is dark	• Lens hood attached	• Remove lens hood	52
	• Lens is not suitable for use with built-in flash	• Use accessory flash	52
"HELP" appears in the data panel	• Camera operation malfunction	• Remove and reinstall the battery	16

# CARE AND STORAGE

## 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.
- 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:** 35mm single-lens-reflex (SLR) camera with micro-processor control of autofocus (AF) and autoexposure (AE)

**Lens Mount:** Minolta A-type bayonet mount

**AF System:** Minolta's through-the-lens (TTL) phase-detection system with one CCD line sensor; Continuous AF/focus lock selected automatically according to subject movement; Predictive and manual focus control with electronic confirmation; Sensitivity: EV -1 to 18 (ISO 100)

**AF Illuminator:** Built-in flash type; automatically activated in low-light/low-contrast conditions; Range: 1 - 5 m (3.3-16ft.)

**Metering:** Through-the-lens (TTL), 8-segment honeycomb pattern silicon photocell (SPC); Second SPC for TTL flash metering; Metering range: EV 1 to 20 (ISO 100, f/1.4 lens); Spot metering range: EV 4 to 20; Spot metering dimensions: 5.5mm diameter

**Shutter:** Electronically controlled, vertical traverse focal-plane type; Range: 1/2000 - 30 sec.; Flash sync speed: 1/90 sec. (1/45 when wireless / remote flash control is set)

**Built-In Flash:** Built-in, retractable with TTL control; Guide number: 12 in meters at ISO 100; Coverage for 28mm focal length; Recycling Time: approx. 2 sec.; Red-eye reduction pre-flash available; When flash is up, it fires automatically in low-light / backlit (P, Portrait, Landscape), fires automatically in low light (Close-up, Sports), always fires (Night portrait, A, S, M); When flash is down it does not fire.

**Viewfinder:** Roof mirror type; Field of view: 90%; Magnification: 0.75X (with 50mm lens at infinity); -1 diopter

**Film Transport:** Automatic advance to first frame; Single-frame advance; Continuous advance up to 1 frames/sec.; Automatic rewind; Manual start of automatic rewind possible

**Film Speed Setting:** Automatic setting for DX-coded films ISO 25 to 5000; Manual setting from ISO 6 to 6400 in 1/3 stop increments; Non-DX-coded film is set to the previous film speed; ISO 25 to 1000 is recommended for flash pictures

**Battery:** One 6-volt 2CR5 lithium battery; One 3-volt CR2025 lithium battery for Quartz Data Back model

**Battery Performance (approximately):**

<u>Flash Use</u>	<u>20°C (68°F)</u>	<u>-20°C (-4°F)</u>
0%	45 rolls	15 rolls
50%	20 rolls	10 rolls
100%	13 rolls	5 rolls

- Based on the following test conditions: 24 exposure roll of film; fresh battery; AF 35-70mm f/3.5-4.5 lens; autofocus from infinity to minimum focus distance and back 3 times; shutter-release button held partway down for 10 seconds before shutter release.
- Battery performance with a 36 exposure roll is reduced by approximately 1/3.
- If more operations are performed during use, battery performance will be slightly lower. To maximize battery performance, slide the main switch to LOCK when you are not using the camera.

**Dimensions:** 147(W) x 92.5(H) x 66.5(D)mm (5-13/16 x 3-5/8 x 2-5/8 in.);  
Date model: 147 x 92.5 x 67.5mm (5-13/16 x 3-5/8 x 2-11/16 in.)

**Weight:** 400g (14-1/8 oz.); Date model: 405g (14-5/16 oz.) (without batteries)

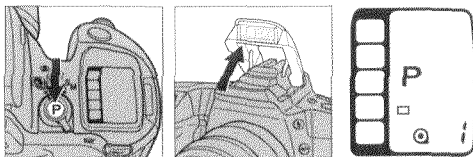
Specifications and accessories are based on the latest information available at the time of printing and are subject to change without notice.



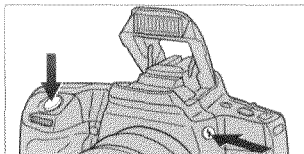


# QUICK REFERENCE GUIDE

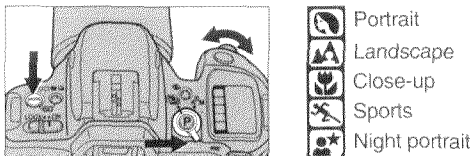
Set Full-Auto modo



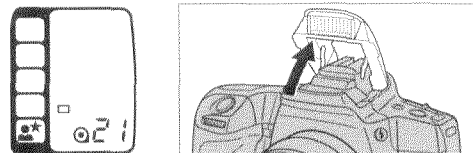
Fire flash manually in Full-Auto mode



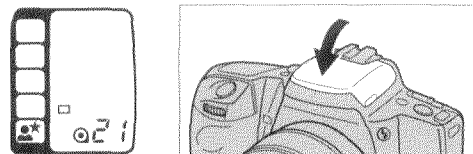
Select a Subject Program mode



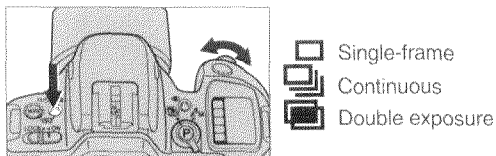
Photograph night portrait



Photograph night scene

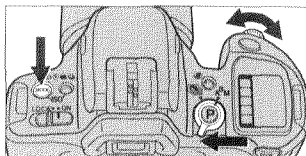


Select self-timer / Continuous drive / Double exposure

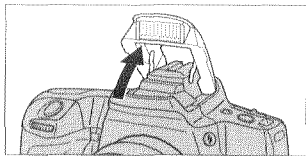


# DYNAX 500Si SUPER

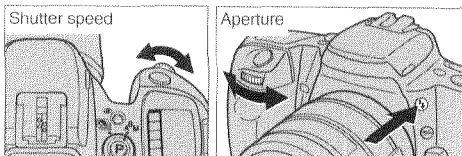
Set A/S/M mode



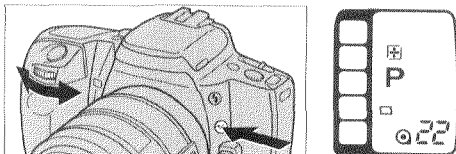
Fire flash in A/S/M mode



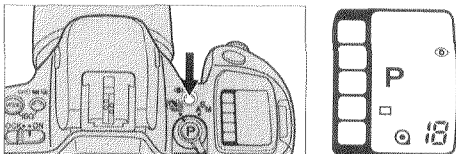
Select shutter speed / aperture in M mode



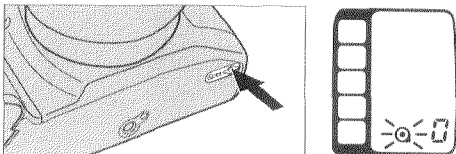
Set exposure compensation



Reduce red-eye effect in flash picture



Start manual rewind



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 meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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