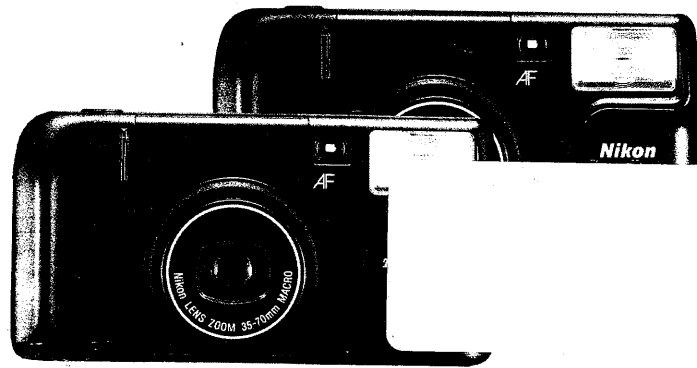


Nikon

Zoom@Touch 400

Zoom@Touch 400 QUARTZ DATE



FOR USA

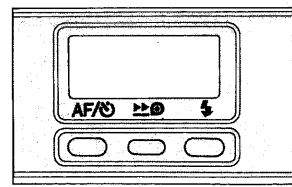
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

"This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications set forth in Part 15 of the FCC Rules. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver."

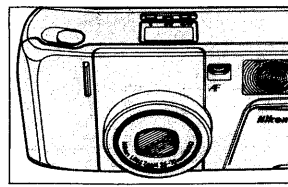
No reproduction in any form of this manual, in whole or in part (except for brief quotation in critical articles or reviews), may be made without written authorization from NIKON CORPORATION.

NIKON CORPORATION

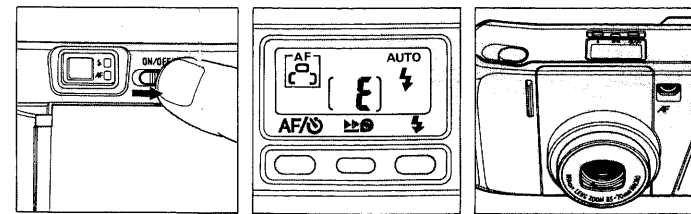
FUJI BLDG., 2-3, MARUNOUCHI 3-CHOME, CHIYODA-KU, TOKYO 100, JAPAN
PHONE: 81-3-3214-5311 **TELEX:** NIKON J22601 **FAX:** 81-3-3201-5856
 Printed in Japan 9&031-GO05 (S160)



To turn camera off: Slide power switch again. LCD panel turns off and lens retracts. To save power, the LCD automatically turns off approximately 3



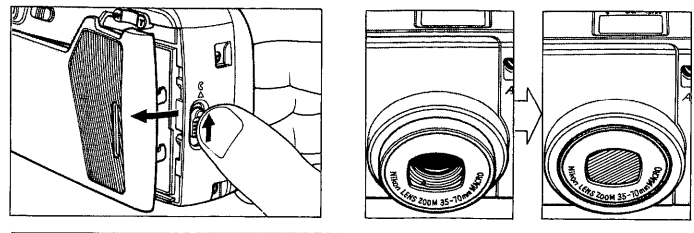
minutes after you press the shutter release button. To make it reappear, lightly press the button again.



CHECKING BATTERY POWER

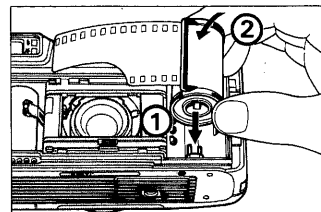
Slide power switch to turn camera on. The lens cover automatically opens, lens adjusts to 35mm wideangle position, and E and auto flash indicator appear in the LCD panel. If

battery is exhausted or has been incorrectly installed, no indication appears.

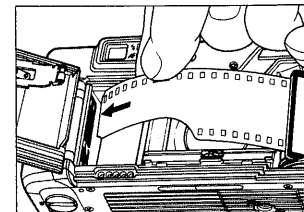


1. Slide the camera back lock-release lever up to open the camera back. The camera automatically turns off and lens retracts.

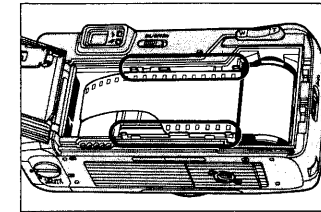
Avoid loading/unloading film in direct sunlight.



2. Position the hole in the bottom of the film cartridge over the film rewind fork and slip film cartridge into the chamber.



3. Pull film leader across to the red film leader position index.

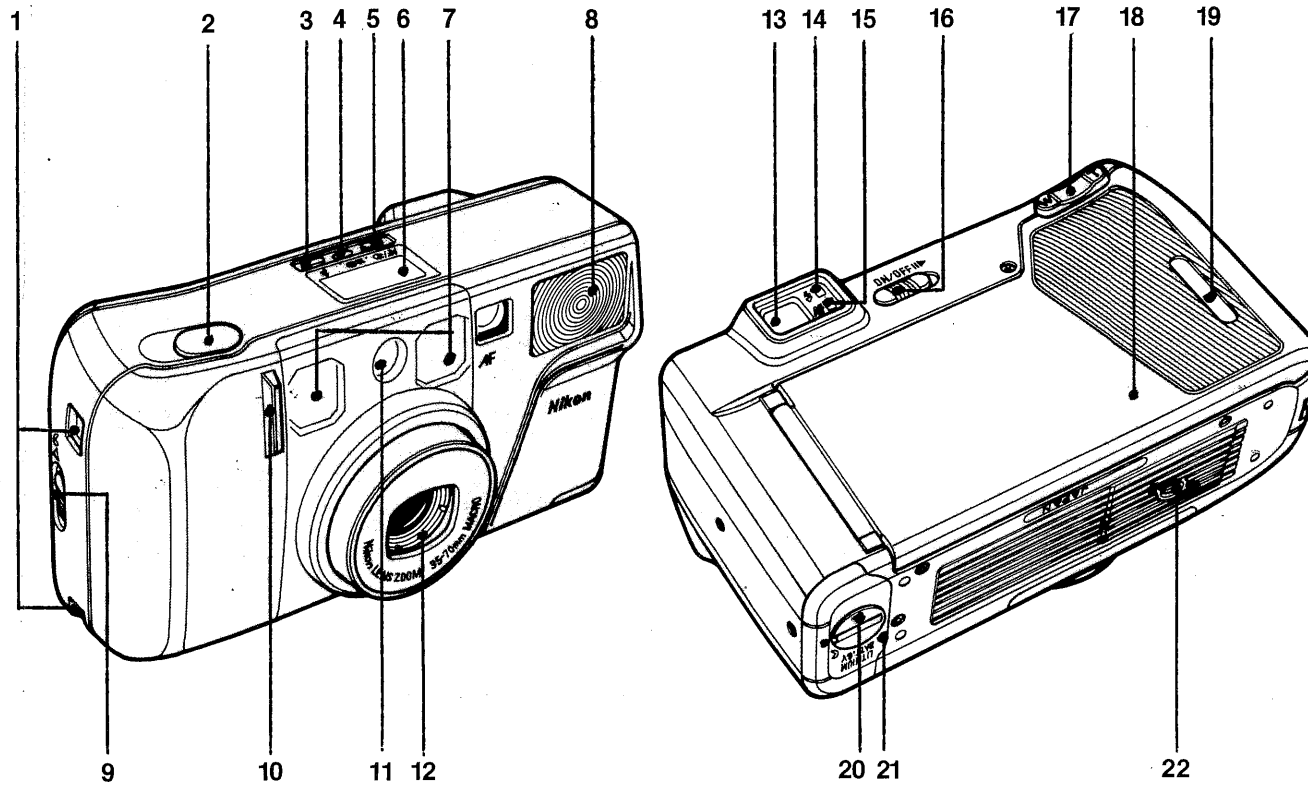


4. Make sure film is located between the film guides and there is no slack.

DX-coded film in use	Film speed to be set
ISO 64, 80	ISO 64
ISO 100, 125, 160	ISO 100
ISO 200, 250, 320	ISO 200
ISO 400, 500, 640	ISO 400
ISO 800, 1000, 1250	ISO 1000
ISO 1600	ISO 1600

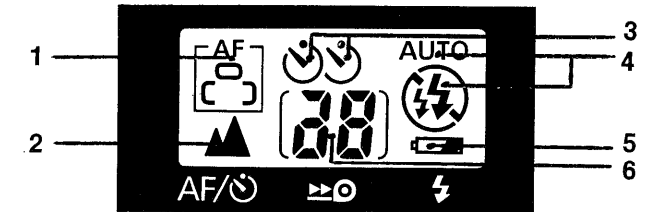
With other film in the usable film speed range (i.e., ISO 125, ISO 250, etc.), the film speed is automatically set to the nearest speed, as shown in the chart.

• We generally recommend DX-coded ISO 200 or 400 film. If you intend to enlarge your photos, use film with a lower ISO speed.



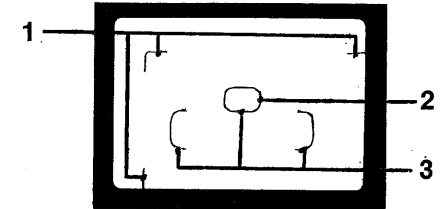
NOMENCLATURE

- | | | | |
|---------------------------------|-----------------------------------|---------------------------------|----------------------------------------|
| 1. Neckstrap slot | 7. Autofocus windows | 13. Viewfinder eyepiece | 19. Film cartridge confirmation window |
| 2. Shutter release button | 8. Flash | 14. Flash ready-light LED (red) | 20. Battery chamber lid lock |
| 3. Flash mode button | 9. Camera back lock-release lever | 15. Focus indicator LED (green) | 21. Battery chamber lid |
| 4. Mid-roll rewind button | 10. Self-timer indicator lamp | 16. Power switch | 22. Tripod socket |
| 5. Focus mode/self-timer button | 11. Auto exposure metering window | 17. Zoom button | |
| 6. Multi-function LCD | 12. Lens | 18. Camera back | |



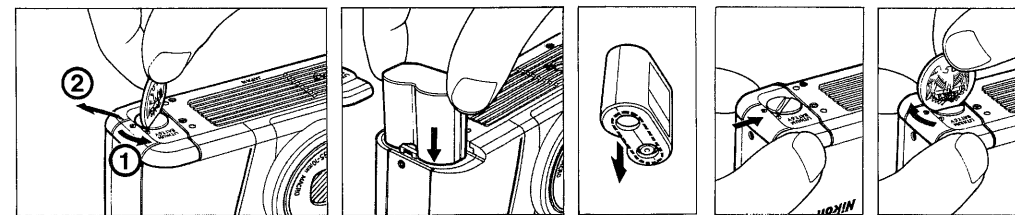
LCD panel

- | | |
|----------------------------------|-----------------------------------------|
| 1. Autofocus (AF) mode indicator | 4. Flash mode indicator |
| 2. Infinity Focus indicator | 5. Insufficient battery power indicator |
| 3. Self-timer indicator | 6. Frame counter |



Viewfinder information

- | | |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1. Parallax compensation marks for close-up shooting at a distance of 0.65m (approx. 2.1ft.) to 1m (approx. 3.3ft) | 2. Autofocus frame mark for Spot autofocus |
| | 3. Autofocus frame marks for Carefree autofocus |



INSTALLING BATTERY

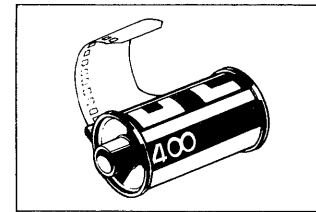
- To open the battery chamber lid, turn the battery chamber lid lock from to with a coin.
- Install one 6V lithium battery pack (Duracell DL223A, Panasonic CR-P2 or equivalent) with the terminals facing downward.
- To close chamber, place lid on top of battery pack, push down, then slide into position and lock with coin.

Checking battery power while shooting

There are two ways to check weak battery power while shooting:

- The blinking battery indicator appears in the LCD panel
- The film advance speed or flash recycling time becomes noticeably slower.

In both cases, replace battery with a new one.
Note: Changing the battery with the film already loaded will automatically cause the film to advance by one frame.

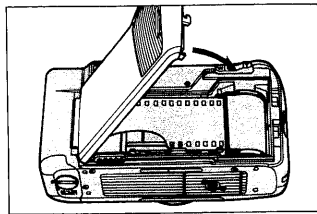


The usable film speed range for DX-coded film is ISO 64 to 1600. With ISO 64, 100, 200, 400, 1000 and 1600 film, the camera is automatically set to the exact film speed.

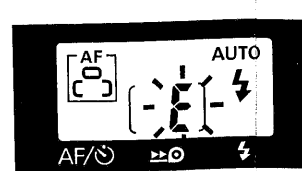
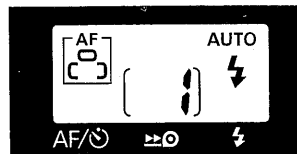
For color slide film
 Most color negative films have good exposure latitude, and the appropriate settings shown will yield good results. Slide film does not have broad exposure latitude; use only DX-coded ISO 64, 100, 200, 400, or 1000 color slide film.

LOADING FILM

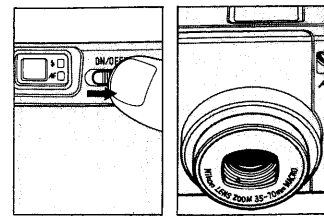
Use only DX bar-coded film. With non-DX-coded film, film speed is automatically set to ISO 100.



5. Close camera back. LCD becomes visible to confirm automatic film advance to frame 1. After 8 seconds, it automatically turns off.

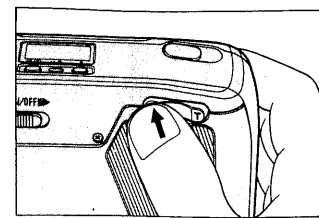


If film is not properly installed, E blinks in the LCD panel. Reload film.



SHOOTING

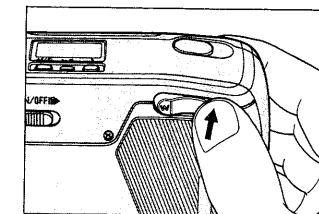
1. Slide power switch to turn camera on. Lens cover automatically opens and lens moves to the 35mm wideangle position.



2. Look in viewfinder and adjust zoom setting to the desired image size.



To widen the view, making the subjects appear smaller, press the "W" side of the zoom button.



To narrow view, making the subjects appear larger, press the "T" side.

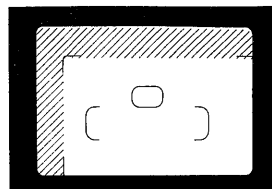


Make sure the lens is free to move in and out while you are pressing the zoom button. If the lens' movement is impeded, to protect its mechanism, the lens will stop moving and the LCD indicator(s) starts blinking. Pressing any button automatically turns the camera off. To resume normal operation, switch the camera on.



Guide to zooming
At the 35mm focal length setting, the picture angle is wider. This wideangle setting is suitable for group portraits and landscapes.

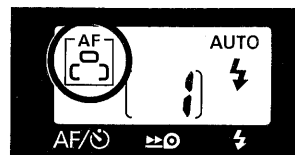
At the 70mm focal length setting, the picture angle is narrower. This telephoto setting is good for portraiture or when you can't get close to your subject. Be sure to hold the camera firmly to prevent camera shake.



When shooting from 0.65m (approx. 2.1ft.) to 1m (approx. 3.3ft.), make sure your subject is framed within the parallax compensation marks.



3. Look through viewfinder and position autofocus frame marks on the main subject.



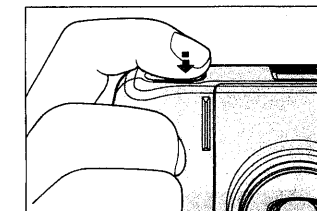
Carefree Autofocus
Carefree Autofocus is always activated when the camera is turned on. Confirm that Carefree Autofocus mode indicator is shown on the LCD panel.



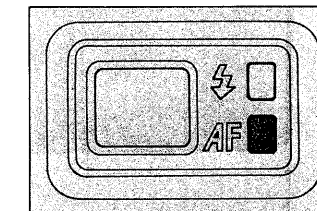
Carefree Autofocus calculates the camera-to-subject distance by metering three positions instantaneously via three infrared beams. The mechanism does not simply choose the closest distance among

the three, but considers the difference between the three positions. As the three-beam layout is triangular, the system functions even when the camera is held vertically.

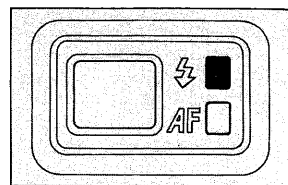
Carefree Autofocus assures in-focus pictures with virtually any subject.



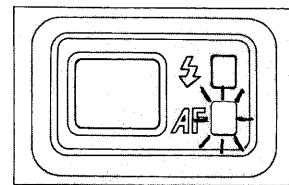
4. Lightly press shutter release button, and confirm green focus indicator LED lights up. Once green focus indicator LED lights up, focus is locked for the distance of the sub-



ject you selected as long as you continue to lightly press the shutter release button. This lets you reposition your subject anywhere in the picture frame while maintaining focus.

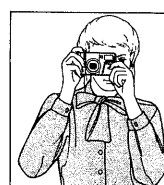


If red LED (flash ready-light) lights up:
This means that the light is low and the built-in flash will automatically fire when you depress shutter release button.

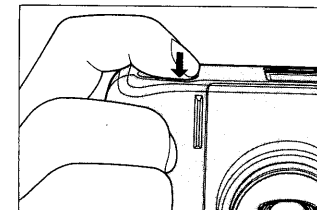
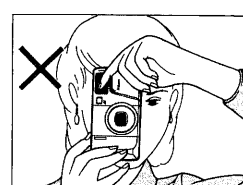
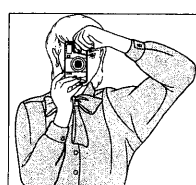


If green focus indicator LED blinks:
Subject is too near. Remove finger from shutter release button, move farther from subject, then lightly press button again and confirm green light is not blinking.

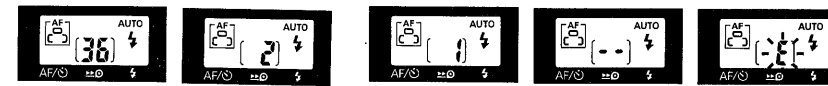
With ISO 100 or slower film in flash photography, if subject is too far, the green LED also blinks indicating that subject is beyond auto flash shooting range.



Basic handling
Be sure not to block the lens, autofocus window, or built-in flash with your finger or the camera strap.



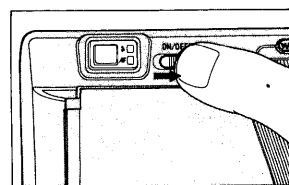
5. Fully depress shutter release button to take the picture. Film automatically advances by one frame.



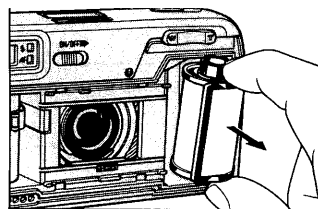
FILM REWINDING

1. When film reaches end of roll, lens retracts, lens cover closes, and film automatically starts rewinding. The frame counter counts backwards until rewind

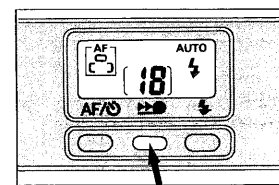
ends, then automatically stops. Check LCD panel to confirm E blinks. Blinking E remains for approx. 8 sec., then all LCD indicators turn off.



To interrupt film rewind:
During ceremonies, in the theater, or in other situations where rewind noise may not be welcome, you can temporarily stop rewind. Slide spring-locked power switch to the right and hold it there. Film rewind resumes when you remove your finger from the switch, which automatically springs back to the left.



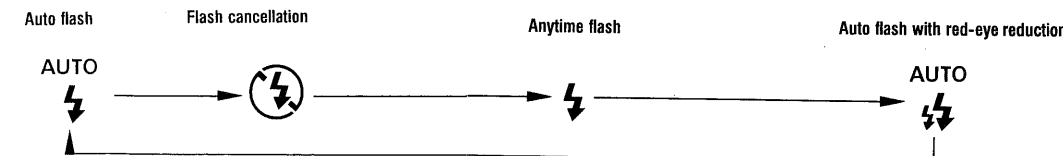
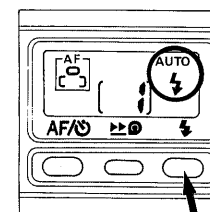
2. Open camera back and remove film cartridge.



To rewind film before you reach the end of film roll:
Push mid-roll rewind button with a pointed object.

To save battery power:
If you leave the camera with the power switch on, the lens will automatically retract to the 35mm focal length setting, without closing, and the LCD panel automatically turns off after approx. 3 minutes. To close the lens for protection against dust, etc., switch power off.

PHOTOGRAPHIC TECHNIQUES



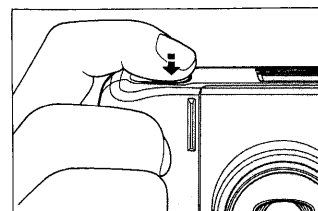
ADVANCED SMART FLASH

When camera power is first turned on, auto flash mode is always activated with the mark appearing on the LCD panel. Press the flash

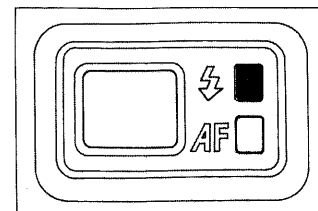
mode button to sequentially change the flash operation, as shown above:

After you select flash cancellation or anytime flash and take one shot, auto flash is automatically reactivated.

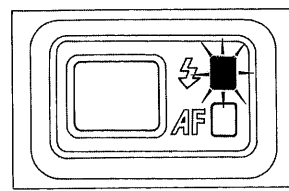
Turning power off, opening or closing camera back, and changing battery also resets flash mode to Auto Flash.



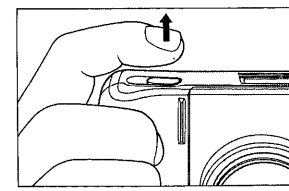
Auto flash mode
In this mode, the flash fires automatically when available light is insufficient. In such a situation, if you lightly press the shutter



release button, the red flash ready-light LED will light up, indicating the flash is set to fire. To take the picture, depress the shutter release button.



If red flash ready-light LED blinks:
Flash is not sufficiently charged, and the shutter release button cannot be fully depressed to take the picture.



Remove your finger from the shutter release button and wait a few seconds. Then lightly press the button again.

Unit: m (ft.)

ISO film speed	35 mm zoom setting	70 mm zoom setting
100	0.65 - 6.0 (2.1 - 19.7)	0.65 - 3.5 (2.1 - 11.5)
200	0.65 - 8.5 (2.1 - 27.9)	0.65 - 5.0 (2.1 - 16.4)
400	0.65 - 12.0 (2.1 - 39.4)	0.65 - 7.0 (2.1 - 23.0)
1000	0.65 - 18.9 (2.1 - 62.0)	0.65 - 11.0 (2.1 - 36.1)
1600	0.65 - 24.0 (2.1 - 78.7)	0.65 - 14.0 (2.1 - 45.9)

Before taking a flash picture, make sure subject is within the flash shooting range for the film speed in use (see table). The green focus indicator LED blinks if the subject is too close or if it is beyond the flash shooting

range. Note that overexposure may occur if you take pictures within 1m (approx. 3.3ft.) of the subject with film rated ISO 1000 or higher.

For color slide films
The table indicates the flash shooting range for *print* film. Maximum shooting range for ISO 64 color slide film is 3m (9.8 ft.) at 35mm zoom setting or 2m (6.6 ft.) at 70mm zoom setting.



Without flash



With flash

Fill-flash operation
In situations where your subject is dark and standing in front of a bright background (i.e., subject in front of bright

window), the built-in flash also automatically fires to brighten the subject with fill-in lighting, thus preventing underexposure.

• To cancel fill-flash (i.e., you want the dark-subject-against-bright-background effect), press the flash mode button once and confirm Flash-Cancel mark appears

• The Anytime Flash mode gives you fill-flash literally anytime you want it, independent of any of the camera's automatic functions.

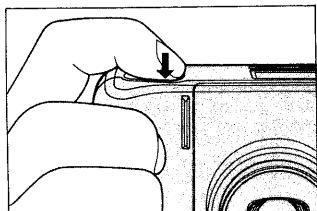


To improve background exposure—Slow sync flash photography: If you take a picture of a subject using the Auto Flash at a relatively close distance, the subject will appear bright and well exposed, but the



background is usually very dark, almost black. To improve background exposure, use Anytime Flash. Although the slowest shutter speed for Auto Flash is approximately 1/30 sec.,

when using Anytime Flash mode the shutter speed can be controlled to speeds as slow as approximately 1/4 sec., thus allowing better exposure for both the main flash-illuminated subject and the darker ambient-light-illuminated subject. Since the shutter speed will be relatively slow we recommend using a tripod to hold the camera steady, or brace the camera against some steady object like a wall.

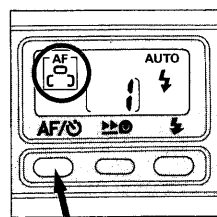


Once set, the red-eye reduction mode stays on until you turn it off. Taking the picture or turning the power switch off will not automatically cancel red-eye reduction mode. To cancel this mode,

press the flash mode button once so the mark for Auto Flash without red-eye reduction appears in the LCD panel.

To ensure the best reduction of red-eye, make sure of the following:
• Subjects should look directly at the camera.
• Subjects with poor vision should wear corrective eyeglasses or contact lenses.

• For indoor shooting, make the room as bright as possible.
• Use the lens' wideangle position at a close shooting distance.
Red-eye tends to be more pronounced with children and cannot be as effectively reduced.



FOCUS

Switching camera power on automatically activates Carefree Autofocus with mark appearing in the LCD panel. Press focus mode button to sequentially change focus

Carefree Autofocus



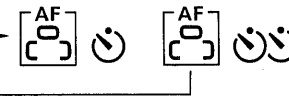
Spot Autofocus



Infinity Focus



Self-timer operation



operation as shown above:
Carefree Autofocus: Assures consistently in-focus pictures for most subjects and situations.

Spot Autofocus: Focus restricted to central focus frames. Use when in-focus image cannot be obtained with Carefree Autofocus.

Infinity Focus: Focus is locked at infinity. Use to shoot landscapes, or distant scenes through glass or window panel. Flash is automatically canceled.

After you select Spot Autofocus, Infinity Focus or self-timer operation and take one shot, Carefree Autofocus is automatically reactivated. Turning camera off automatically resets focus mode to Carefree Autofocus.



Special focusing situations
The following subjects may be too difficult to focus:
a. Subjects too small to fully cover the autofocus frame marks
b. Subjects behind glass

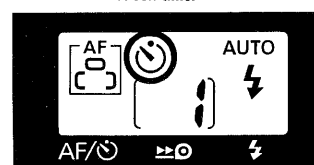
c. Dark subjects with no reflection
d. Glossy, light-reflecting surfaces, such as shiny cars or water
e. Subjects without solid content (i.e., candle flame, fireworks, etc.)

In cases shown on previous page, use the following procedure:
1. Press focus mode button once to activate Spot Autofocus.
2. Center the frame mark for Spot Autofocus on another object at the same distance

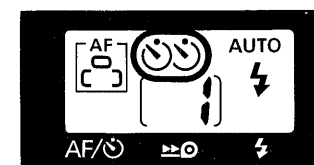
from the camera, and lightly press the shutter release button.
3. Lock focus by keeping finger on button, then go back to your original subject.
4. Fully depress shutter release button to take the picture.

Focus lock (described here) can also be used in Carefree Autofocus mode.

One-shot self-timer



Two-shot self-timer



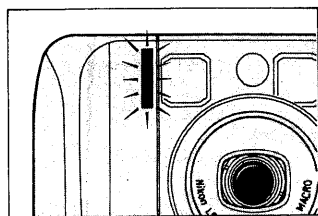
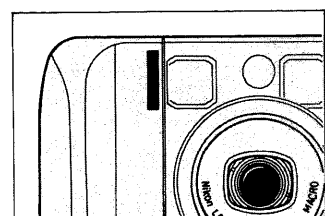
SELF-TIMER OPERATION

When using the self-timer, you will probably want to place the camera on a tripod or some secure flat surface. For operation:

1. Press focus-mode/self-timer button three times for one-shot self-timer, four times for two-shot self-timer operation.

2. Carefree Autofocus always activates in self-timer operation. Position autofocus frame marks on the subject.

3. Lightly press the shutter release button and confirm green focus indicator LED lights up.

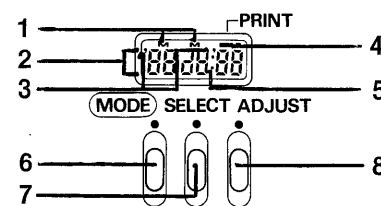


**In flash photography, note that the self-timer will not operate until the flash is fully charged.*

• To cancel self-timer operation after depressing shutter release button, turn the camera off.
• After the shot or two shots are taken, self-timer operation is automatically cancelled and the self-timer indicator disappears.

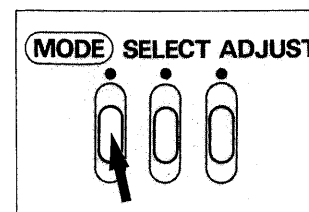
4. Fully depress shutter release button. The self-timer indicator lamp turns on, and after approx. 10 sec., focus and exposure are locked, then the shutter is released. Approx. 3 sec. before the

shutter is released, the indicator lamp starts blinking.
For two-shot self-timer: Film automatically advances after the first shot, and the second exposure is taken after approx. 5 sec.*



DATA IMPRINTING FUNCTION
(for TW ZOOM 35-70 Quartz Date / Zoom Touch 400 Quartz Date)

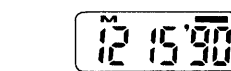
- 1. Month indicator
- 2. LCD imprint data
- 3. Year indicator
- 4. Data imprint indicator
- 5. Time indicator colon
- 6. MODE button
- 7. SELECT button
- 8. ADJUST button



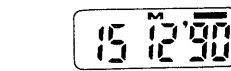
Setting data and time

1. Push MODE button to select one of the five available displays. With each push of the MODE button, the display changes in the following order:

Zoom Touch 400 Quartz Date



Month / Day / Year display



Day / Month / Year display



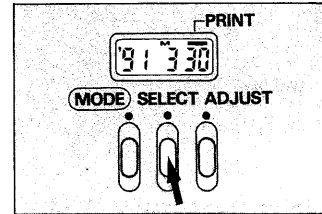
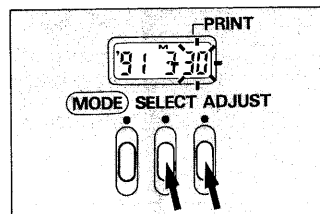
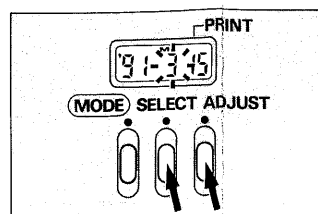
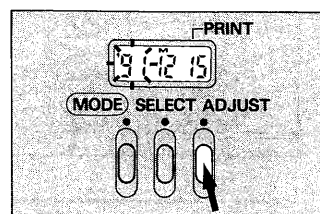
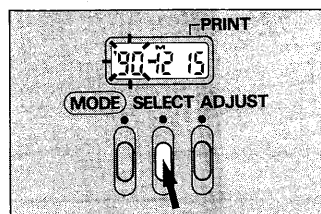
Year / Month / Day display



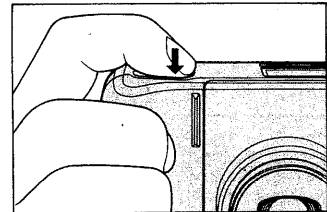
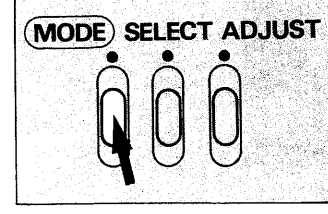
Day / Hour / Minute display



No imprint display



For Day/Hour/Minute display: To leave adjust mode, push SELECT button while the time indicator colon is blinking.



2. For example, to set March 30, 1991, choose Year/Month/Day display.
 • To set the day, choose display other than Day/Hour/Minute. With Day/Hour/Minute display, only time can be set.

Set the year. Push SELECT button so year section starts blinking indicating that it can be adjusted. Push ADJUST button to set the year.

3. Set the month. Push SELECT button so month section starts blinking, then push ADJUST button to set the correct month.

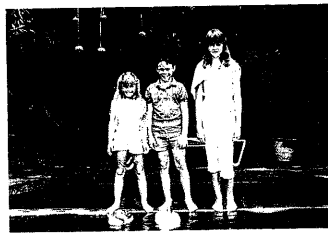
4. Set the day. Push SELECT button so day section starts blinking, then push ADJUST button to set the correct day.

5. To leave adjust mode and confirm your correct display, push SELECT button while the day display is blinking. The newly adjusted data and data imprint indicator — appears without blinking. This indicator bar always appears except when "No imprint" display is selected.

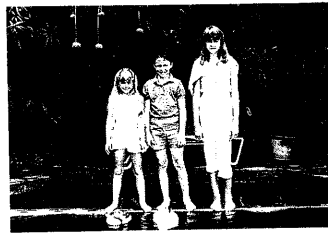
Imprint data
 1. Select your desired display by pushing MODE button and confirm date and time are correctly set.

2. Depress the shutter release button to take picture with imprinted data. To confirm data is imprinted, check to make sure data imprint indicator —

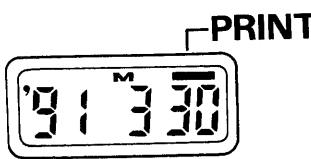
Imprinted data



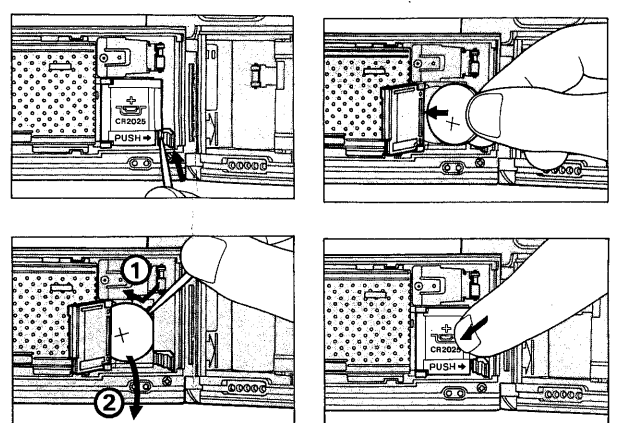
Year/Month/Day display



Day/Hour/Minute display

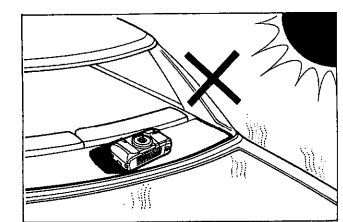


blinks for approx. 2 sec. Immediately after taking the picture.



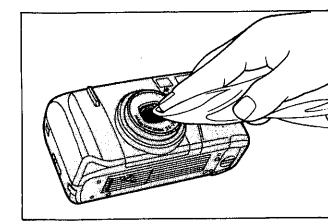
Replacing lithium battery for data imprint function
 1. Push the lock-release lever to open the battery chamber lid.
 2. Remove used battery.
 3. Insert new battery.
 4. To close, push the lid down until it snaps into place.

MISCELLANEOUS

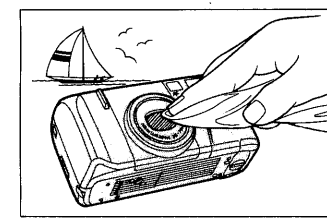


CAMERA CARE TIPS

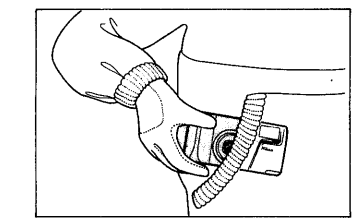
1. Do not leave camera in an excessively hot place; store in a cool and dry place.



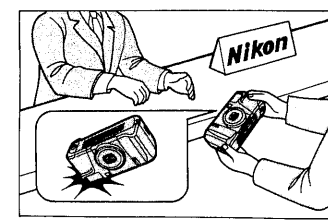
2. Clean all lens surfaces, including the autofocus window, with a soft, clean cloth.



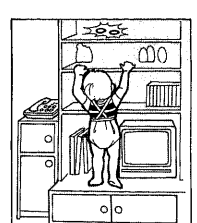
3. Avoid taking pictures in the rain or salt water spray.



4. Battery power weakens in extremely low temperatures; use new batteries and keep camera warm. Sudden extreme temperature changes may cause internal condensation that could damage the camera.

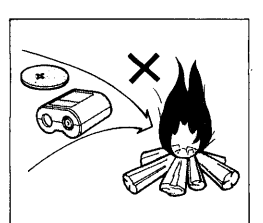


5. If camera malfunctions, take it to an authorized Nikon dealer or service center.

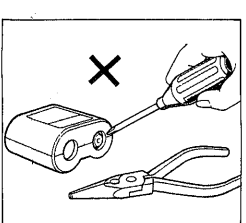


ABOUT BATTERIES

1. Keep batteries out of children's reach. If swallowed, call a doctor immediately.
 2. Never throw used batteries into a fire.



3. Never short-circuit, disassemble, heat or attempt to charge batteries.



When not using camera, turn power switch off. Do not store camera in camera case with the power switched on, as the shutter release button may be depressed inadvertently—and stay this way—resulting in battery drain and possible damage to the camera.

SPECIFICATIONS

Type of camera	35mm compact camera with Nikon Zoom 35mm f/4 ~ 70mm f/7.6 lens
Picture format	24mm x 36mm (standard 35mm format)
Lens	35mm f/4 ~ 70mm f/7.6; 6 elements in 5 groups
Lens cover	Opens/closes automatically with power switch ON/OFF
Shooting distance	0.65m (approx. 2.1ft.) ~ infinity; 1m (approx. 3.3ft.) ~ infinity in Flash-Cancel mode
Film speed setting	DX-coded film automatically set to ISO 64, 100, 200, 400, 1000 or 1600
Shutter	Programmed electronic shutter; also serves as diaphragm blades
Viewfinder	Real-image viewfinder; 0.45X ~ 0.83X magnification automatically selected and set by motor; finder coverage (at 3m or approx. 9ft.) approx. 83%
Focusing	Three focus modes provided—Carefree Autofocus, Spot Autofocus and Infinity Focus: Carefree Autofocus detects camera-to-subject distance by measuring three positions instantaneously via three infrared beams; Spot Autofocus detects focus in central focus frames; Infinity Focus locks focus at infinity
Focus lock	Focus is locked as long as shutter release button is lightly pressed in Carefree Autofocus and Spot Autofocus
Zoom control	Via pressing zoom button; W side for zoom out or T side for zoom in
Auto exposure range	EV4 ~ EV16 at 35mm setting or EV5.9 ~ EV16 at 70mm setting (ISO 100)/EV6 ~ EV17 at 35mm and 70mm settings (ISO 400)
Controlled aperture	1/4 ~ 1/22 at 35mm setting or f/7.6 ~ 1/43.3 at 70mm setting
Film operation	Fully automatic loading, advance and rewind; film advances by one frame after each shot; mid-roll rewind via button provided; auto rewind at end of film roll; temporary interruption of film rewind possible
Frame counter	Additive type; counts back during film rewind
Self-timer	Set by focus mode/self-timer button and activated by depressing shutter release button; one-shot or two-shot operation selectable; cancellable
Built-in flash	Four modes provided—Auto Flash, Flash Cancel, Anytime Flash and Auto Flash with red-eye reduction
LCD panel	Shows frame counter, AF mode indicator, Infinity Focus indicator, flash mode indicator, insufficient battery power indicator
Battery life	Approx. 30 rolls of 24-exposure film or 20 rolls of 36-exposure film with 50% flash
Power source	Lithium battery pack (Duracell DL223A 6V or Panasonic CR-P2 6V)
Dimensions (W x H x D)	TW ZOOM 35-70/Zoom Touch 400: Approx. 143.2 x 73.2 x 52.0mm or 5.6 x 2.9 x 2.0 in. TW ZOOM 35-70 Quartz Date/Zoom Touch 400 Quartz Date: Approx. 143.2 x 73.2 x 54.4mm or 5.6 x 2.9 x 2.1 in.
Weight (without battery)	TW ZOOM 35-70/Zoom Touch 400: Approx. 360g or 12.7 oz TW ZOOM 35-70 Quartz Date/Zoom Touch 400 Quartz Date: Approx. 370g or 13.1 oz

For data back function (TW ZOOM 35-70 Quartz Date/Zoom Touch 400 Quartz Date)

Data imprint functions	Month/Day/Year, Day/Month/Year, Year/Month/Day, Day/Hour/Minute, No imprint are selectable; 24-hour built-in clock with timing accuracy within ±90 seconds a month at normal temperatures
Power source	One 3V lithium (CR2025) battery

Specifications and design are subject to change without notice.

TROUBLESHOOTING

Trouble	Check this	Cause and Remedy
Shutter cannot be released.	Lens cover is closed.	Camera not turned on. Slide power switch to turn camera on.
	Battery indicator blinks in the LCD panel, or no indication appears in the LCD panel when lens cover is opened.	Battery power is low or exhausted. Replace with a new battery.
	E blinks in the LCD panel.	Film is not properly installed. Reload film.
	Red flash ready-light LED blinks when you lightly press shutter release button.	Flash is being charged. Wait for a while and lightly press the button again.
Flash does not fire.	Focus mode is set at Infinity Focus.	Flash cannot be used in Infinity Focus mode. Set to another focus mode.
	Flash cancellation is selected.	Set to another flash mode.
In-focus picture cannot be obtained.	Subject out of autofocus frame marks.	Make sure to position autofocus frame marks on subject.
	Subject closer than 0.65m (approx. 2.1ft.)	Make sure to shoot subject at least 0.65m (2.1ft) or farther away.
	Autofocus windows are clean.	If windows are dirty, wipe gently with a soft cloth.
	Camera steady while shooting.	If the camera shakes during shooting, picture blur may occur. Make sure to hold camera steady and gently depress shutter release.
Picture comes out too light or dark.	Non-DX-coded film used.	Film speed is automatically set to ISO 100 with non-DX-code film. Do not use non-DX-coded film of film speed other than ISO 100.
	Subject located at the proper distance for flash shooting.	Make sure subject is within the specified flash shooting distance range.