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back to my "Orphancameras" manuals /flash and light meter site

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The large manuals are split only for easy download size.

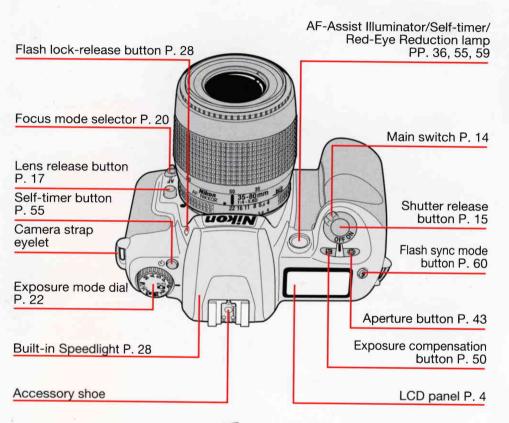
Nikon

QUARTZ DATE

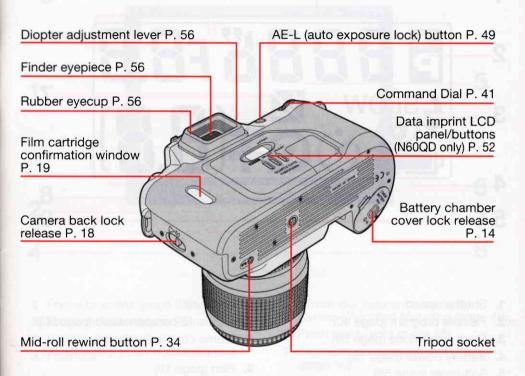
**INSTRUCTION MANUAL** 



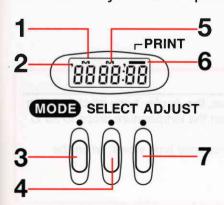
# **Nomenclature**





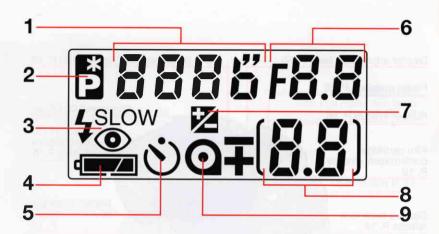


## N60QD only: Data imprint LCD/buttons



- 1. Date/time display LCD
- 2. ': Year indicator
- **3.** MODE button: Push to select one of five available displays.
- SELECT button: Push to select date/time to be adjusted.
- 5. M: Month indicator
- 6. Data imprint indicator: Blinks approx. 2 sec. when data is imprinted.
- 7. ADJUST button: Push to adjust date/time.

## **LCD/Viewfinder Displays**

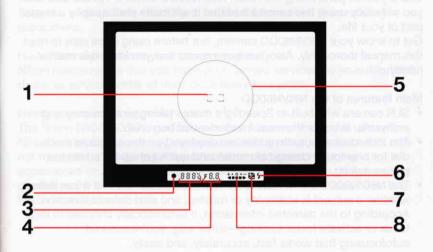


- 1. Shutter speed
- 2. Flexible program (page 40)
- 3. Flash sync mode (page 59)
- 4. Battery power (page 15)
- 5. Self-timer (page 55)

- 6. Aperture
- 7. Exposure compensation (page 50)
- 8. Frame counter/exposure compensation value (page 19, 50)
- 9. Film (page 19)

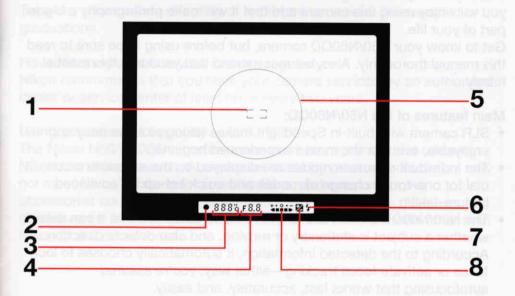
#### **About LCD**

- At high temperatures of 60°C (140°F) or above, the display turns black, making it impossible to read. It returns to normal when the temperature drops to 20°C (68°F).
- At temperatures below freezing, the LCD's response time slows; when the temperature rises, it returns to normal.



- 1. Focus brackets (page 25)
- 2. Focus indicator (page 25)
- 3. Shutter speed
- 4. Aperture

- 5. 12mm-dia. reference circle for Center-Weighted Metering (page 48)
- 6. Flash ready-light (page 28)
- 7. Exposure compensation mark (page 50)
- 8. Electronic analog display (page 43)



- 1. Focus brackets (page 25)
- 2. Focus indicator (page 25)
- 3. Shutter speed
- 4. Aperture

- **5.** 12mm-dia. reference circle for Center-Weighted Metering (page 48)
- 6. Flash ready-light (page 28)
- 7. Exposure compensation mark (page 50)
- 8. Electronic analog display (page 43)

## Introduction

Thank you for purchasing the Nikon N60/N60QD camera. We are sure that you will enjoy using this camera and that it will make photography a bigger part of your life.

Get to know your N60/N60QD camera, but before using it, be sure to read this manual thoroughly. Also, we recommend that you keep this manual handy.

#### Main features of the N60/N60QD:

- SLR camera with built-in Speedlight makes taking pictures easy and enjoyable, even for the most inexperienced beginner.
- The individual exposure modes are displayed on the exposure mode dial for one-touch change of modes and quick set-up for advanced picture-taking.
- The N60/N60QD's new Auto-Servo AF is so advanced that it can detect
  whether a subject is stationary or moving, and also detects direction.
  According to the detected information, it automatically chooses to lock
  focus or activate focus tracking—either way, you're assured
  autofocusing that works fast, accurately, and easily.

#### Take trial shots

Take trial shots before shooting at important occasions like wedding or graduations.

#### Have Nikon spot check your camera regularly

Nikon recommends that you have your camera serviced by an authorized dealer or service center at least once every two years.

#### Using your camera correctly

The Nikon N60/N60QD's performance has been optimized for use with Nikon brand accessories. Accessories made by other manufacturers may not meet Nikon's criteria for specifications, and nonconforming accessories could damage the N60/N60QD's components. Nikon cannot guarantee the N60/N60QD's performance when it is used with other than Nikon brand accessories.

## **Contents**

The "Basic Operation" section introduces battery, lens, film, focusing, exposure and shooting in basic steps for easy picture-taking even for SLR camera beginners.

"Detailed Operation" explains each function, from lens to exposure, in detail, in approximately the same order as the steps in the "Basic Operation" section. After becoming familiar with basic shooting, refer to the detailed explanation of each operation/function to step up to advanced shooting that requires more advanced techniques.

"Flash Photography" introduces flash photography using the N60/N60QD's builtin Speedlight and optional Speedlight in the dark, as well as other flash-shooting situations in bright conditions.

Please read this manual thoroughly and carefully to get the most out of your Nikon N60/N60QD.

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#### **Detailed Operation**

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Mark

# **BASIC OPERATION**

This section guides you through basic operations with the camera set to mode.

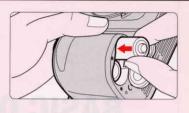
#### Settings are as follows:

Attached lens	D-type AF Nikkor
Focus mode	Autofocus
Exposure mode	(General-Purpose Progam)
Exposure metering	3D Matrix Metering*
Built-in Speedlight	Normal sync*

<sup>\*</sup>Automatically set when exposure mode is set to 4...

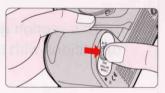
# **Install Batteries and Check Battery Power**

Use two CR123A or DL123Atype lithium batteries with this camera. (Other batteries cannot be used.)

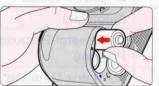


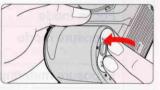
1.1 Turn off the main switch and open the battery chamber cover.





Insert batteries with the "+" and "-" ends positioned as marked inside the battery chamber cover, then firmly close the battery chamber cover.





 Incorrect positioning of ⊕ and ⊖ poles may cause damage to the camera.

#### Check points

- ☐ Keep the batteries out of children's reach. If swallowed, contact a doctor immediately. (For "Notes on Batteries", see page 69.)
- ☐ When replacing batteries, be sure to turn the main switch off and replace both batteries at the same time. Always use fresh batteries of the same brand.
- □ We recommend that you take spare batteries with you, especially when traveling, since the batteries used may be difficult to obtain in some areas.

# Turn on the main switch and confirm battery power with the indication.





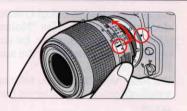
- Shutter speed and aperture indications in the LCD panel and viewfinder automatically turn off 5 sec. after turning the main switch on and camera is left unused.
- Battery power
  - appears: Sufficient battery power.
  - $\blacksquare$  appears: Batteries are nearing exhaustion. Have a fresh set ready.
  - blinks: Batteries are exhausted. Replace batteries. (No indication
    - appears in the viewfinder and shutter locks.)

# Lightly press the shutter release button to activate the exposure meter.





 Lightly pressing the shutter release button reactivates the exposure meter and shutter speed and aperture indications in the LCD panel and viewfinder. The indications automatically turn off 5 sec. after you remove your finger from the shutter release button. Mount the lens to the camera body and set the lens' aperture to its minimum setting (largest fnumber) for automatic operation.



2.1

Turn the main switch off and mount lens to the camera body.





- Position lens in the camera's bayonet mount so that the mounting indexes on lens and camera body are aligned, then twist lens counterclockwise until it locks into place. (Be sure not to touch the lens release button.)
- When the lens is not attached or when a non-CPU lens is attached and the main switch is turned on, F-- blinks in the LCD panel and viewfinder and the shutter cannot be released. (F-- does not blink and shutter can be released when the exposure mode is set to manual.)

2.2

Set the lens' aperture to its minimum and lock.





 When the lens is not set to its minimum aperture setting and the main switch is turned on, FEE blinks in the LCD panel and viewfinder and the shutter cannot be released.

#### ☑ Check points

- ☐ Use D-type AF Nikkor lens to utilize all the functions of this camera. (See page 32 for Lens Compatibility.)
- ☐ Make sure to turn the main switch off when attaching/detaching the lens.
- $\hfill \square$  When attaching the lens, take care not to press the lens release button.
- $\hfill\square$  When attaching/detaching the lens, make sure to avoid direct sunlight.

## 2.3

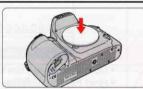
#### Detaching the lens.



• Push and hold the lens release button, then turn the lens clockwise.

#### When camera is left unattended without lens

When you leave the camera unattended without a lens attached, be sure to attach the supplied body cap, or optional body cap BF-1A. (BF-1 body cap cannot be used.)



## **Load Film**

3

Use a DX-coded film. Film speed is set automatically (ISO25-5000).

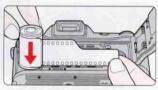
When the camera is turned on, film is loaded and the camera back is closed, the film automatically advances to the first frame.



3.1

Turn on the main switch, then open the camera back and insert film.

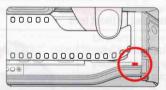


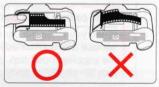


• Insert from the bottom of the film cartridge.

3.2

Pull film leader out to red index mark.





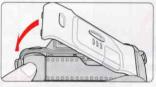
- Do not insert the film leader beyond the red index mark.
- Hold the film cartridge and ensure film is properly positioned with no slack.

#### Check points

- ☐ Only DX-coded film can be used with this camera. When film other than DX-coded film is inserted, ② blinks and £ appears on the LCD panel.
- ☐ Shutter curtains are very thin. Make sure not to touch the shutter curtains with your finger or film leader.
- ☐ Film load can be confirmed on the LCD panel.
- ☐ When changing film outdoors, avoid direct sunlight.

# 3.3

Gently close the camera back until the lock release snaps closed. Film automatically advances to first frame.





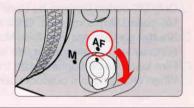
- When Q and ; appear on the LCD panel, the film has advanced to the first frame.
- When Err and Q blink on the LCD panel, film is not properly installed.
   Open the camera back again and reload film.
- Film is automatically rewound when the film reaches the end of the roll. (See page 27.)
- Number of available exposures of the film roll can be checked through the film cartridge confirmation window.

#### NOTE: Loading/removing film

Shutter curtains are very thin. Make sure not to touch the shutter curtains with your finger or film leader.

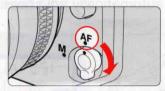


When the focus mode selector is set to AF (autofocus), the camera focuses automatically.



4.1

#### Set the focus mode selector to AF (autofocus).



- Make sure to turn the focus mode selector until it clicks into position.
- To focus, lightly press the shutter release button. (See page 24.)

4.2

# Situations where autofocus may not work as expected:

- Autofocus may not work as expected in the following situations. In such situations, focus on a different subject located at the same distance, use focus lock (page 38) then recompose.
- When you are unable to perform focus lock, set the focus mode selector to M (manual) and focus manually using the clear matte field.

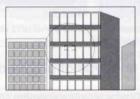
#### Check points

- Do not attempt to rotate the lens' focus ring manually with the focus mode set to AF.
- □ With the focus mode set at AF, the shutter cannot be released when the subject is out of focus. For details on focus mode, see page 36.



#### Low contrast scenes

For example, where the subject is wearing the same color clothing as a wall or other background.



#### Patterned subject or scene

For example, building windows.



# Scenes with the subject located at different distance within the focus brackets

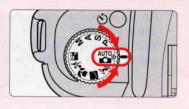
For example, when shooting an animal inside a cage or a person in a forest.



#### Scenes in which there is pronounced difference in brightness within the focus brackets

For example, when the sun is in the background and your main subject is in shadow.

With the exposure mode set to (General-Purpose Program), the camera will automatically control your exposure.



# 5.1

#### Set the exposure mode dial to 2.





 Shutter speed and aperture appear in the LCD panel and viewfinder when shutter release button is lightly pressed.

# 5.2

#### About exposure mode and type of program

Symbol	Exposure mode/ Type of program	Characteristics/shooting situations				
AUTO	General-Purpose Program P. 39	The easiest exposure mode for general shooting. Suitable for portraits and other general pictures, or when you want to take pictures first-hand.				
Р	Auto-Multi Program P. 40	Camera controls exposure automatically, while allowing you to make other settings, such as Flexible Program or exposure compensation.				
S	Shutter-Priority Auto P. 41	You set your desired shutter speed, and the camera selects the correct aperture. You car "stop" the motion of a moving subject with a fast shutter speed or create blur with a slower speed.				

#### ✓ Check points

- ☐ Ten exposure modes are available with this camera. Five types of Vari-Programs enable you to easily choose proper exposure controls in various shooting situations.
  - See step 5.2 for the summary of each exposure mode and each reference page for the operating instructions and details.

Symbol Exposure mode/ Type of program			Characteristics/shooting situations				
A		Aperture-Priority Auto P. 42	You set the desired aperture, and based on that, the camera selects the correct shutter speed. Lets you determine the depth of the in-focus area; near and far subjects can be sharply focused or the background can be blurred.				
r	VI	Manual P. 43-44	Shutter speed and aperture are set manually. Suited to situations where it is difficult to attain your desired effect with other exposure modes.				
	芝	Portrait Program P. 46	Use this program to take portraits. With a shallow depth of field (in-focus area), it creates a blurred background to accentuate your main subject.				
_		Landscape Program P. 46	Use this program to take pictures of distant scenes. With a deep depth of field, the overall landscape will be sharply focused.				
Vari-Program	*	Close-Up Program P. 46	Use this program to take up-close pictures With a shallow depth of field, your close-ups will be taken with an artistically blurred background.				
Var	*	Sport Program P. 47	Use this program to take sports pictures. Using a fast shutter speed, it freezes the motion of fast-moving subjects to create exciting action photos.				
	Æ	Night Scene Program P. 47	Use this program in the evening or at night. Even a very dark subject will be exposed so it captures the beauty of all the light available in your night scene.				

6

Lightly pressing the shutter release button automatically focuses the camera on the subject and when the subject is in focus, causes • to appear in the viewfinder.



6.1

#### Hold the camera properly.





- Keep your elbow propped against your body for support.
- Stand with one foot forward a half step and keep your upper body still.
- Grasp the camera handgrip with your right hand and use your left hand to cradle the camera (or lens).

#### Camera shake and shutter speed

Preventing camera shake is crucial when taking photographs. In general, you should set the shutter speed faster than '1/focal length of your lens' sec. (Example: when using a 50mm lens, set the shutter speed faster than 1/50 sec.) Use of a tripod is recommended for shooting at slower shutter speeds.

#### **NOTE: Composing frame**

The frame coverage of the finder of this camera is approximately 90% of the actual exposed frame on the film. Therefore, the actual exposed frame is somewhat larger than the image you see through the viewfinder. Note that the edges of a negative film are partially cropped by most labs.

#### Check points

- ☐ Diopter adjustment (page 56) is available to enable you to see through the viewfinder more clearly.
- ☐ To take a picture of a off-center subject, use focus lock (page 38).
- ☐ For N60QD only: Date or time can be imprinted on your photos/negatives (page 52).

# 6.2 Compose frame and focus by lightly pressing the shutter release button.





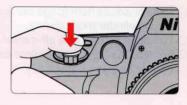
- Center the focus brackets on your subject and lightly press the shutter release button. The camera focuses automatically and focus indicator • appears or blinks.
  - appears: Subject is in focus. Automatically tracks moving subject.
  - blinks: Unable to focus with autofocus.

When the subject is dark, the camera's AF-Assist Illuminator is activated to achieve correct focus. For details on focusing, see page 36.

- To take a picture of a subject outside the focus brackets, use focus lock (page 38).
- In situations where autofocus may not work as expected, see page 20.

## **Confirm Indications in Viewfinder and Release Shutter**

Confirm that ● (focus indicator) appears in the viewfinder, then release the shutter by slowly and fully depressing the shutter release button.



# 7.1 Confirm indications in the viewfinder while lightly pressing the shutter release button.

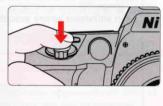




- When 4 (ready-light indication) blinks, use the built-in Speedlight. (See page 28/58.)
- If a warning indication appears in the viewfinder, see page 70.

# 7.2 Confirm focus indicator • appears without blinking and slowly depress the shutter release button.





 After shutter is released, the film automatically advances to the next frame and the next shot can be taken.

#### Check points

- ☐ Focus, shutter speed and aperture can be confirmed in the viewfinder. If any other indications appear, see page 70.
- When you reach the end of the film roll, the film starts to rewind automatically.
- ☐ For mid-roll rewind, see page 34.
- ☐ For self-timer operation, see page 55.

# 7.3 Film starts to rewind automatically when film reaches the end of the roll.



- When you reach the end of the film roll, the film starts to rewind automatically. Q appears in the LCD panel during film rewind and the frame counter counts backwards until rewind is complete. Pictures taken on frames beyond the indicated number of the exposures for the film roll may be discarded due to development procedures.
- 7.4 Confirm film is completely rewound, then remove film cartridge.



• Film is completely rewound when the frame counter shows "ξ" and Q blinks. Open the camera back away from sunlight and remove the film cartridge by tilting it to one side. If the shutter release button is depressed when rewound film is still in the camera back, "Q" blinks. Remove film cartridge.

8

If 4 (ready-light indication) blinks in the viewfinder when you lightly press the shutter release button, use the built-in Speedlight.



8.1

Press the Speedlight lock-release button to release the Speedlight.



- As soon as the Speedlight is released it starts recharging, and when the Speedlight is ready to fire 4 appears without blinking in the viewfinder (when the camera's meter is on).
- To close the Speedlight, press gently until it clicks shut. (To conserve power, keep the Speedlight closed when it is not in use.)

#### **Matrix Balanced Fill-Flash**

Matrix Balanced Fill-Flash enables proper evaluation of exposure for the main subject and background, and ensures adequate flash output. (For details, see page 58.)

#### **NOTE: Continuous use of built-in Speedlight**

After continuous use of the built-in Speedlight, it may stop firing to protect the firing tube. Wait for a while before using the Speedlight again.

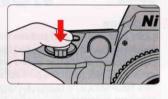
#### Check points

- ☐ The built-in Speedlight offers an angle of coverage of 28mm lens with a guide number of 15/49 (ISO100, m/ft.).
- ☐ Using a CPU lens enables to perform Matrix Balanced Fill-Flash shooting. (For details, see page 58.)
- ☐ Be sure to remove (or store) the lens hood before flash shooting.
- Some zoom lenses have limitations using Speedlight and may cause vignetting. (For details, see page 61.)

# 8.2

# Confirm 4 in viewfinder, then compose, focus and take the picture.





- \$ blinks in the viewfinder approx. 3 sec. after full flash output. If this happens, under exposure may have occurred. Check the flash shooting distance range (page 58) and shoot again.
- Normal Sync flash mode is introduced in this section. Flash with Red-Eye Reduction, which reduces the "red-eye" effect with a person or animal, and Slow Sync flash, which brings out the background details, are also available. For details, see page 59.
- With dark subjects (within 0.5m to 3m or 1.6 to 9.8 ft.), the camera's AF-Assist Illuminator (page 36) is automatically activated to guide autofocus.

# **About Focus and Exposure**

Focus, exposure and metering system are important factors for taking pictures. Knowing the characteristics of each factor helps you widen your photographic expression.

#### Focus and depth of field

When focusing, depth of field should be considered. Depth of field is the zone of sharpest focus in front of and behind the subject on which the lens is focused. It varies according to shooting distance, focal length and, above all, aperture. Smaller apertures (larger f-numbers) will produce a deeper depth of field where the background and foreground become sharper; larger apertures (smaller f-numbers) will produce a shallower depth of field where the background becomes blurred.

#### Exposure

Light from the subject passes through the lens and is sensed by the film. Light reaching the film is controlled by the shutter speed and aperture. The proper combination of shutter speed and aperture for subject brightness and film sensitivity results in the correct exposure.

The N60/N60QD's General-Purpose Program, Auto-Multi Program and Vari-Program automatically control shutter speed and aperture. In Shutter-Priority Auto exposure mode, you can manually set shutter speed and the camera automatically sets the proper aperture. In Aperture-Priority Auto exposure mode, you can manually set aperture and the camera automatically sets the proper shutter speed. In Manual exposure mode, you manually set both shutter speed and aperture.

#### Metering System

As the proper combination of shutter speed and aperture for correct exposure is determined according to subject brightness and film sensitivity, measuring subject brightness is very important.

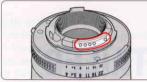
In general, brightness inside the viewfinder is not uniform. The N60/N60QD provides two metering systems: Matrix Metering and Center-Weighted Metering. With Matrix Metering, data on scene brightness is detected by the six-segment Matrix sensor. With Center-Weighted Metering, most of the meter's sensitivity is concentrated on the 12mm-diameter center circle in the viewfinder. (With D-type AF Nikkor lenses, the N60/N60QD camera performs 3D Matrix Metering. See page 48.)

# DETAILED OPERATION

This section features detailed descriptions of all camera functions — including lens, film, focus, exposure and others.

## **Lens Compatibility**

Use a CPU lens (except IX-Nikkor) with this camera. D-type AF lenses give you access to all available functions.







D-type AF Nikkor

#### When a non-CPU lens is attached

• Usable exposure modes are limited.

A non-CPU lens can be used only when the exposure mode is set to M (manual). (Shutter cannot be released with other modes.) With a non-CPU lens, the exposure meter cannot be activated and the aperture cannot be set using the aperture button and Command Dial. F-- appears in place of the aperture indication in the LCD panel and viewfinder; set/confirm aperture using the lens' aperture ring.

#### CAUTION: Nikkor lenses that cannot be attached to the N60/N60QD

The following Nikkor lenses cannot be attached to the N60/N60QD (camera body or lens may be damaged):

- AF Teleconverter TC-16A
- Non-Al lenses
- 400mm f/4.5 and 600mm f/5.6 with Focusing Unit AU-1
- Fisheye 6mm f/5.6 and Fisheye OP 10mm f/5.6
- ED 180-600mm f/8 (No. 174166 or smaller)
- ED 360-1200mm f/11 (No. 174087 or smaller)
- 200-600mm f/9.5 (No. 300490 or smaller)
- 80mm f/2.8, 200mm f/3.5 and TC-16 Teleconverter for F3AF
- PC 28mm f/4 (No. 180900 or smaller)
- PC 35mm f/2.8 (No. 906200 or smaller)
- Reflex 1000mm f/11 (No. 142361 to 143000)
- Reflex 2000mm f/11 (No. 200310 or smaller)
- Medical-Nikkor 200mm f/5.6 (can be used in combination with Sync Terminal Adapter AS-15.)

#### Types of CPU lenses and other usable lenses

Mode		Focus mode			Exposure mode		Metering system		
Lens		,	Manual with electronic rangefinder	Manual	Any mode other than M	М	Matrix		
		Autofocus					3D 6- segment	6- segment	Center- Weighted*1
	D-type AF Nikkor	0	0	0	0	0	0		0
	AF-S, AF-I Nikkor	_	0	0	0	0	0	_	0
Nikkor*2	PC Micro 85mm f/2.8D*3	_	○*4	0	_	0	_		0
¥	AF-I Teleconverter	_	<b>○*</b> 5	0	0	0	0	_	0
CPU	Non-D-type AF Nikkor (except AF Nikkor for F3AF)	0	0	0	0	0	_	0	0
	Al-P Nikkor	_	○*6	0	0	0		0	0
	Al-S or Al type Nikkor, Series-E, Al-modified Nikkor		○*6	0	_	△*8	_	_	
	Medical-Nikkor 120mm f/4	_	0	0	_	△*8		_	_
0r*7	Reflex-Nikkor	_	_	0		△*8	_	_	_
達	PC Nikkor	_	○*9	0	_	△*8		_	_
Non-CPU Nikkor*7	Al-S or Al type Teleconverters	_	○*5	0	_	△*8		_	
Nor	Bellows Focusing Attachment PB-6, K Ring Set (K1, 3, 4&5)		<b>_*</b> 5	0	. —	△*8			_
	Auto Extension Rings (PK-11A, PK-12, PK-13 and PN-11)	_	<b>○*</b> 5	0	_	△*8	_	_	

<sup>\*1</sup> Metering system automatically switches to Center-Weighted Metering when the exposure mode is set to M or when you use the Auto Exposure Lock function.

<sup>\*2</sup> IX-Nikkor lenses cannot be attached.

<sup>\*3</sup> The camera's exposure metering and flash control system do not work properly when shifting and/or tilting the lens, or when using an aperture other than the maximum aperture.

<sup>\*4</sup> Without shifting and/or tilting the lens.

<sup>\*5</sup> With maximum effective aperture of f/5.6 or faster.

<sup>\*6</sup> With maximum aperture of f/5.6 or faster.

<sup>\*7</sup> Some lenses cannot be attached. (See page 32.)

<sup>\*8</sup> The shutter can be released but the electronic analog display cannot be used.

<sup>\*9</sup> Without shifting.

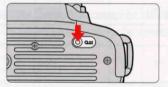
#### Film

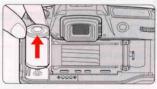
Confirming an automatically set film speed



• To confirm the automatically set film speed of your loaded DX-coded film, press the ❷ and ⑤ buttons simultaneously. Note that pressing the ❷ and ⑤ buttons for more than 2 sec. resets some of the functions. (For "Two-Button Reset", see page 57.)

#### Mid-roll rewind





 To rewind film at mid-roll, press the as (mid-roll rewind) button with a pointed object. When film is completely rewound, ξ appears and a blinks in the LCD panel. Open the camera back and remove the film cartridge. In case film does not start to rewind or film rewind stops at mid-roll



• When battery power is very low, or in low temperatures, film may not start rewinding or film rewind may stop at mid-roll, and Q and Err will blink in the LCD panel. In this case, turn off the main switch, change batteries, then turn on the main switch to rewind film again.

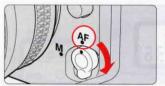
#### Film advance mode



• Film advance mode is normally set to single-frame shooting, where the film is advanced one frame after you release the shutter. <u>Selecting Sport Program automatically switches the film advance mode to continuous shooting, where the shutter is continuously released and the film continues to advance (approx. 1 frame/sec.) for as long as the shutter release button remains depressed.</u>

## **Focus Mode**

#### Autofocus





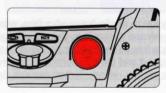
 With the focus mode selector set to AF, lightly pressing the shutter release button automatically focuses the camera on the subject and causes ● to appear in the viewfinder.

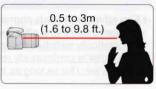
#### Auto-Servo AF:

Camera automatically chooses Single Servo AF or Continuous Servo AF operation according to the subject status, i.e. stationary or moving (including directional information).

- 1. Single Servo AF: Once focused on a subject, focus is locked.
- Continuous Servo AF: The camera continuously focuses on a moving subject.
- When Sport Program is selected, the camera automatically switches to Continuous Servo AF and the camera continuously focuses on the subject.
- In either case, the shutter will not be released until the subject is in focus and 
  appears in the viewfinder.

#### AF-Assist Illuminator





- The AF-Assist Illuminator provides the necessary illumination to focus on dark subjects. The camera activates the AF-Assist Illuminator in the following conditions:
  - When a AF Nikkor lens is attached, the focus mode is set to AF, and the subject is dark.
  - 2. When exposure mode is not set to Landscape or Sport Program.

The AF-Assist Illuminator is activated automatically and cannot be canceled. It is effective for lenses with a focal length of 24mm to 200mm, and the effective focus distance is 0.5 to 3m (1.6 to 9.8 ft.).

#### **NOTE: Continuous use of AF-Assist Illuminator**

After continuous use of the AF-Assist Illuminator, it may stop emitting light to protect the firing tube. Wait for a while before using the Illuminator again.

#### AF-Assist Illuminator with optional Speedlight

When an optional Speedlight with the AF-Assist Illuminator is attached and TTL Auto Flash is selected, the AF-Assist Illuminator on the Speedlight unit emits light. See page 62 for "Usable Optiona! Speedlights".

#### Manual focus





 Set the focus mode selector to M. Look through the viewfinder and rotate the lens focusing ring until the image appears sharp on the clear matte field in the viewfinder. The shutter can be released whether or not the subject is in focus, and ● does not appear in the viewfinder.

Use Manual focus in situations where autofocus may not work as expected (page 20) or lens other than AF Nikkor (page 32) is attached.

#### **Electronic Rangefinder**

Lightly pressing the shutter release button and rotating the lens focusing ring activates the Electronic Rangefinder to indicate the focus status in the viewfinder. When the subject is in focus, • appears in the viewfinder. In manual focus, shutter can be released anytime. The Electronic Rangefinder works with most Nikkor lenses (including AF Nikkors when operated manually) having a maximum aperture of f/5.6 or faster.

### **Focus Lock**

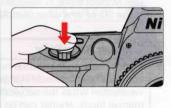
- Focus Lock proves useful in autofocus shooting when you want to capture off-center subject. It is also effective in situations where autofocus may not work as expected (page 20).
  - Position the focus brackets on the subject and lightly press the shutter release button.





- • appears when the subject is in focus. The focus remains locked as long as the shutter release button is lightly pressed.
- Focus Lock cannot be used when the exposure mode is set to Sport Program.
- When you want to lock focus on a stationary subject that has been moving and tracked with Continuous Servo AF (changed to Single Servo AF from Continuous Servo AF), remove your finger from the shutter release button once and focus again.
- 2 Confirm focus indicator then (while keeping shutter release button lightly pressed) recompose and shoot.





 After you have locked the focus, do not change the camera-to-subject distance. If you keep the shutter release button lightly pressed after releasing the shutter, the shutter can be released repeatedly with the same focusing.

# **Shooting in Each Exposure Mode**

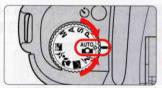
#### : General-Purpose Program

Simplest exposure mode with this camera. The camera automatically controls your exposure. Recommended for beginner SLR camera users.

For available mode combinations, see page 64.



Set the exposure mode dial to 4.



 With exposure mode set to ☆, other modes are set as follows: Exposure metering: Matrix (page 48)

Flash: Normal sync

Flexible Program, Exposure compensation and Slow Sync flash cannot be used.

#### Confirm focus indicator ● and shoot.

- When the subject is too dark or too bright, one of the following warning indications will appear in the viewfinder or LCD panel.
  - H 1: Use ND filter.
  - Lo: Use Speedlight.

# Difference between 👛 (General-Purpose Program) and P (Auto-Multi Program)

Although exposure controls are the same, with Auto-Multi Program, you can select functions such as Flexible Program (page 40), exposure compensation (page 50) or Slow Sync (page 59) flash for more flexible shooting.

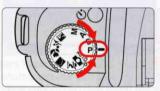
## **Shooting in Each Exposure Mode—continued**

#### P: Auto-Multi Program

The camera automatically controls your exposure to achieve a correct exposure in any shooting situation. For more complex shooting, use Flexible Program (below) or exposure compensation (page 50). For other available mode combinations, see page 64.



Set the exposure mode dial to P.



#### Confirm focus indicator ● and shoot.

- When the subject is too dark or bright, one of the following warning indications will appear in the viewfinder or LCD panel.
  - X 1: Use ND filter.
  - La: Use Speedlight.

#### **NOTE: Flexible Program**

In Auto-Multi Program, by rotating the Command Dial you can change the combination of shutter speed and aperture while maintaining a correct exposure. With this function, you can shoot in Auto-Multi Program as though shooting in Shutter-Priority Auto or



Aperture-Priority Auto. 2 appears in the LCD panel when the Flexible Program is used. To cancel the Flexible Program, reset the shutter speed-aperture combination to the original value, change the exposure mode, turn off the main switch, or use the built-in Speedlight (page 28) or perform Two-Button Reset (page 57).

#### S: Shutter-Priority Auto

Enables you to manually set your desired shutter speed (30-1/2000 sec.); the camera automatically selects the proper aperture to provide a correct exposure. With high shutter speeds, you can freeze the motion of a fast-moving subject; with slower speeds, you can create a motion effect. For available mode combinations, see page 64.



1 Set the exposure mode dial to S and set the shutter speed (30-1/2000 sec.) with the Command Dial.





#### Confirm focus indicator ● and shoot.

- When the subject is too dark or bright, one of the following warning indications will appear in the LCD panel or viewfinder.
  - X 1: Select higher shutter speed. If the warning indication still remains on, use ND filter.
  - La: Select a slower shutter speed. If the warning indication still remains on, use Speedlight.
- When -- blinks in the LCD panel and viewfinder, shutter speed is set to Long Time Exposure. Change the shutter speed from Long Time Exposure. For Long Time Exposure, see page 44.

## **Shooting in Each Exposure Mode—continued**

#### A: Aperture-Priority Auto

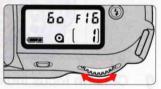
Enables you to set your desired aperture manually. The camera automatically selects a suitable shutter speed to give you a correct exposure. By varying the aperture, and thus controlling the depth of field, you can make the background and foreground sharper, or blur the background. In flash photography, varying the aperture changes the flash shooting distance.



For available mode combinations, see page 64.

Set the exposure mode dial to A, then set the aperture using the Command Dial.





# 2 Confirm focus indicator • in the viewfinder and shoot.

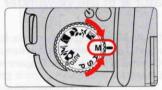
- When the subject is too dark or too bright, one of the following warnings will appear in the viewfinder or LCD panel.
  - H 1: Select smaller aperture (larger f-number). If the warning indication persists, use an ND filter.
  - Lo: Select larger aperture (smaller f-number). If the warning indication persists, use the Speedlight.

#### M: Manual

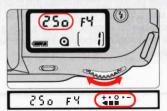
Enables you to set both shutter speed and aperture manually. You can produce various creative effects by adjusting the exposure. Long Time Exposure, which allows shutter speeds greater than 30 sec., is also possible in this mode. For other available mode combinations, see page 64.

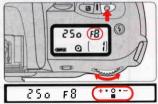


1 Set the exposure mode dial to M and compose.



- Metering system automatically switches to Center-Weighted from Matrix in Manual exposure mode. (Page 48.)
- 2 Set the shutter speed and aperture and confirm by looking at the electronic analog display in the viewfinder.





- Set the shutter speed (30-1/2000 sec.) by rotating the Command Dial.
- These functions can be set independently.

## **Shooting in Each Exposure Mode—continued**

#### Electronic analog display

The electronic analog display in the viewfinder indicates the difference between the selected exposure (shutter speed and aperture), and the correct exposure. Not available with Long Time Exposure.

Correct exposure or ±0.5EV + • • • -Under -0.5EV to -1.5EV + • • -Over +1.5EV + • • -

# 3 Confirm focus indicator ● in the viewfinder and shoot.

 A Non-CPU lens works only with Manual exposure mode. However, the camera's meter will be disabled. Furthermore, the aperture cannot be set with the button and the Command Dial. Use lens' aperture ring. See page 32 on "Lens Compatibility".

#### **Long Time Exposure**

This function is useful for shooting nighttime scenes or stars. Select Long Time Exposure (of more than 30 sec.) by rotating the Command Dial until -- appears in the viewfinder and LCD panel. Pressing the shutter release button once opens the shutter (LCD indications will turn off). Press the shutter release button again to close the shutter. Camera shake can be reduced by using the self-timer (page 55) and tripod. Continuous exposure is possible for approx. 15 hours with a fresh set of lithium batteries. Note that continuous exposure time is reduced when shooting in low temperatures.