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Nikon

N8008S

AF

INSTRUCTION MANUAL

Re Nikon N8008

Because instruction manuals for the N8008 camera are no longer available, we are taking the liberty of sending you a manual for the N8008s camera. The two cameras differ as follows:

1. The Spot Metering function referred to in this manual is not present on the N8008. Please disregard the references to this function that appear throughout the manual, particularly those on pages 2, 45-47, 65, 67, 74, 76, and 83.
2. The Focus Tracking function referred to on pages 2, 24-25, and 83 is also not present on the N8008. Please disregard these references when using the N8008.

NOMENCLATURE

Focusing ring

Lens (AF Zoom-Nikkor
35-70mm f/3.3-4.5)

Distance scale

Distance/focal length index line

Focal length scale

Zoom ring

Aperture indexes

Minimum aperture lock

Aperture ring

Aperture scale

Meter coupling ridge

CPU contacts

Self-timer indicator LED

CPU contacts

Handgrip

Meter coupling lever

Aperture coupling lever

Lens mounting index

Depth-of-field preview button

Remote control terminal

AFL (Autofocus Lock) button

Lens release button

Battery chamber

Lens release pin

Battery holder MS-7

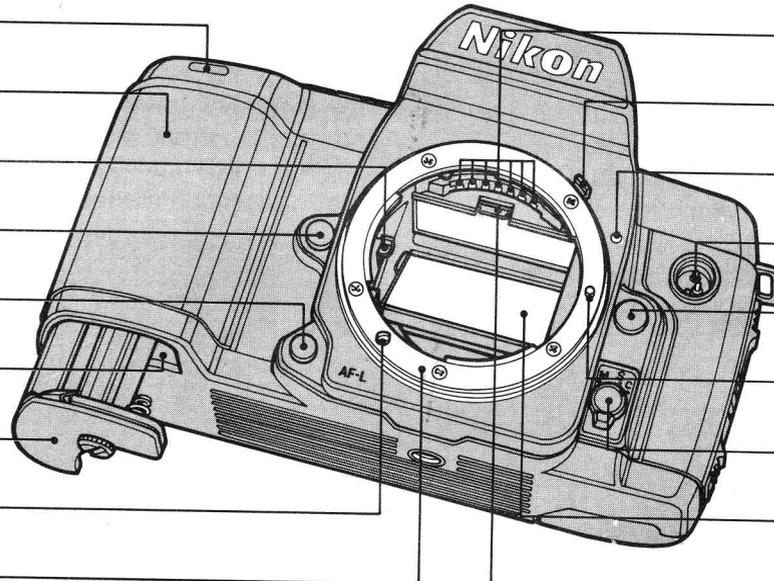
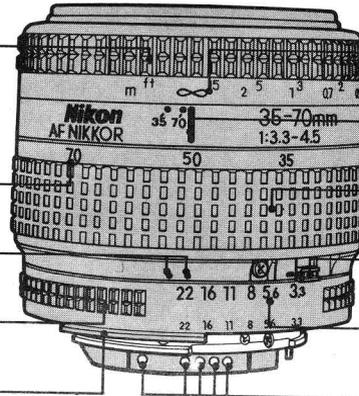
Focus mode selector

AF coupling

Reflex mirror

Lens mounting flange

Focusing screen release latch



LCD illumination window

Accessory shoe

Metering system selection button

Exposure mode button

Film speed button

Camera strap eyelet

Film advance mode button

Multiple exposure/
film rewind button

Film cartridge confirmation window

Self-timer button

Film rewind button

Exposure compensation button

Shutter release button

Power switch

Camera strap eyelet

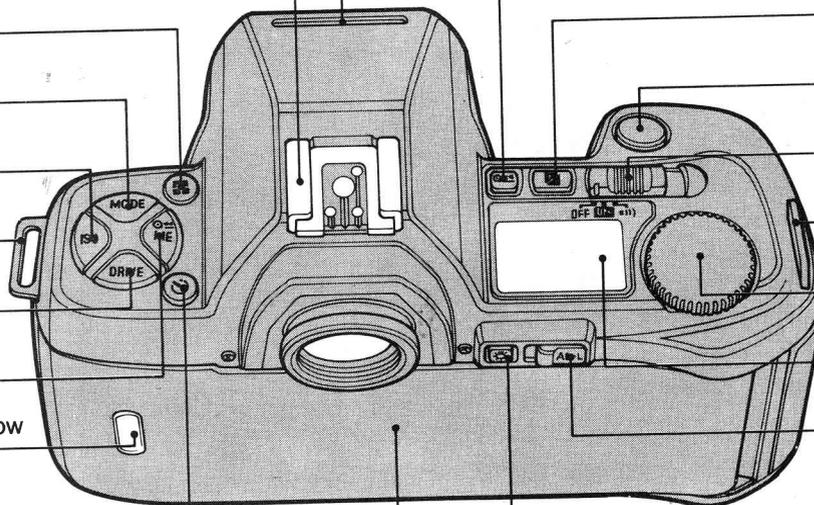
Command input control dial

LCD panel

AE (Auto Exposure) Lock lever

Viewfinder illumination button

Camera back



Eyepiece cover DK-8



Viewfinder eyepiece

Shutter curtains

Film rewind fork

Camera back lock releases

Film cartridge chamber

DX contacts

Data back contacts

Tripod socket

Film guide rails

Film take-up spool

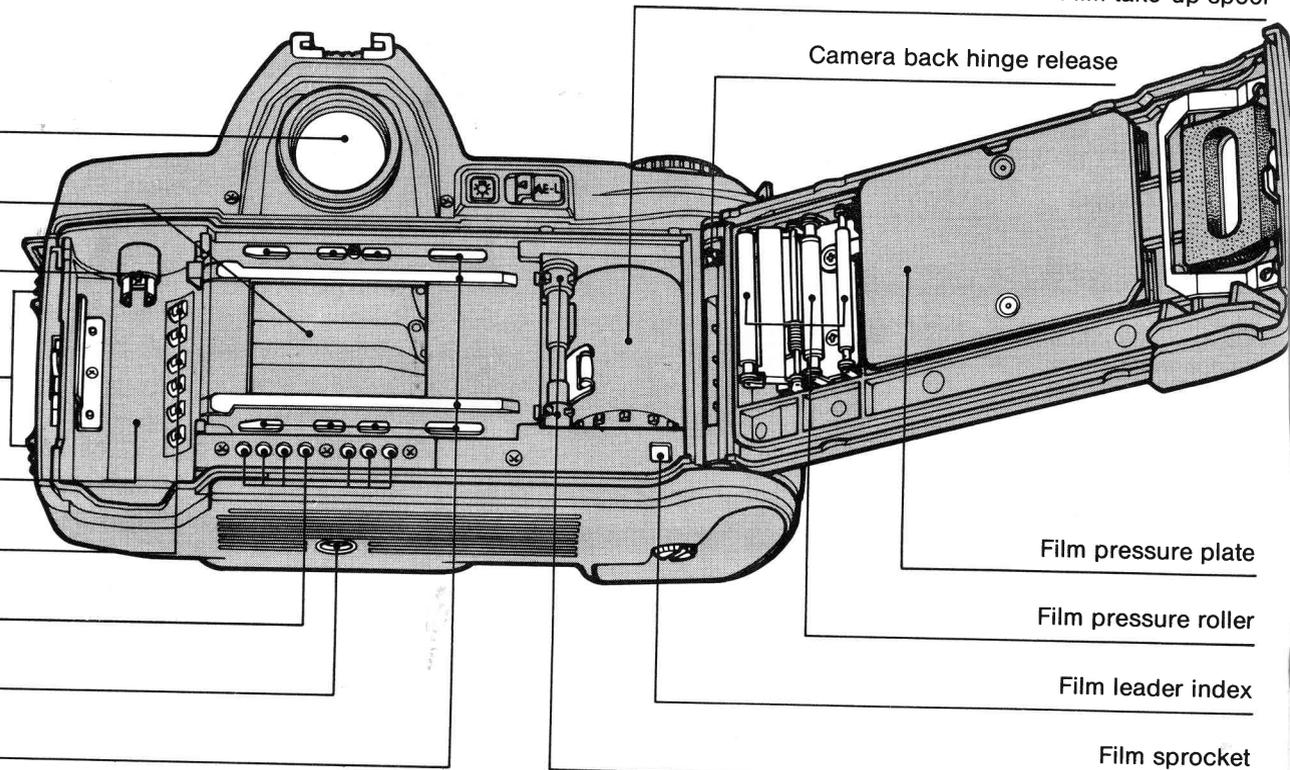
Camera back hinge release

Film pressure plate

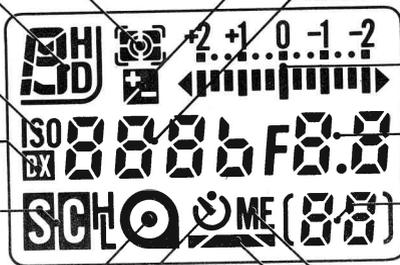
Film pressure roller

Film leader index

Film sprocket



LCD Panel



Metering system

Exposure mode

Film speed setting

DX-coded film speed setting

Film advance mode

Film installation

Self-timer

Exposure compensation

Shutter speeds/film speeds

Electronic analog display

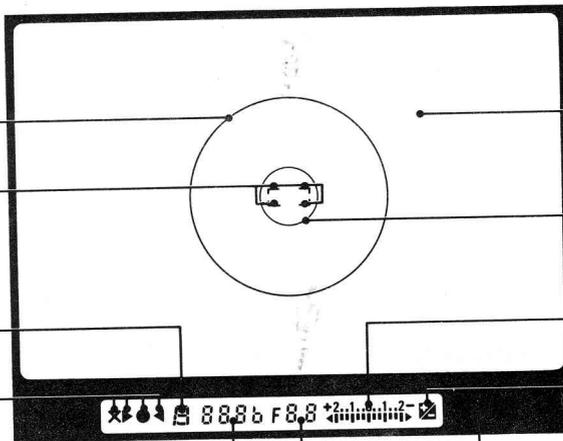
Aperture/exposure compensation value

Frame counter/self-timer duration/
number of multiple exposure

Multiple exposure

Film advance and rewind

Inside Viewfinder



Clear matte field

3.5mm-dia. reference circle

Electronic analog display

Exposure compensation mark

Ready-light LED

12mm-dia. reference circle

Focus brackets

Exposure mode

Focus indicators

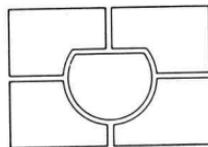
Shutter speeds/film speeds

Aperture/exposure compensation value

PHOTOGRAPHIC TECHNIQUES

EXPOSURE METERING SYSTEMS

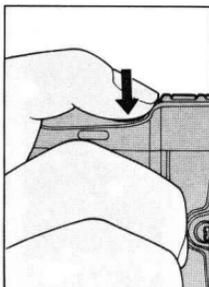
The Nikon N8008s provides three types of exposure metering systems — Matrix Metering, Center-Weighted Metering and Spot Metering.



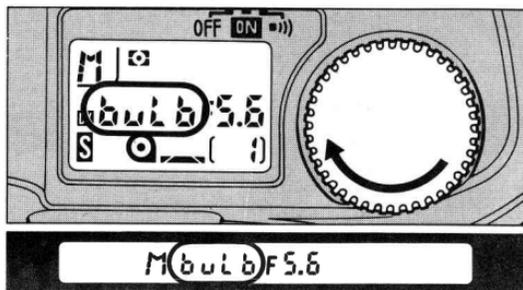
Matrix Metering

This system is ideally suited for quick operation and for the most dependable auto exposure control. It can also be used for manual metering and flash exposure control operation with any Nikon TTL Speedlight.

In Matrix Metering, the meter automatically provides the correct exposure of the main subject in virtually any lighting situation, without requiring manual exposure compensation. The Matrix Metering sensor determines scene brightness by dividing the scene into five areas, then analyzing each area for brightness and scene contrast.



5. Confirm correct exposure and fully depress shutter release button to take the picture.

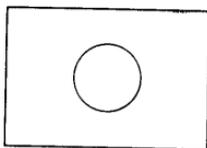


Bulb Setting

At Bulb setting, the shutter remains open as long as the shutter release button remains depressed. This setting can only be used in manual exposure mode. Rotate command dial clockwise until "bulb" appears.

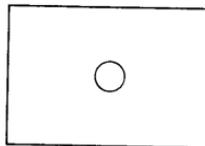
For lenses without a built-in CPU, "F--" appears where the aperture value is shown in the LCD panel and viewfinder.

With the bulb setting, changing the exposure mode to shutter-priority auto causes "bulb" to blink, and shutter is locked.



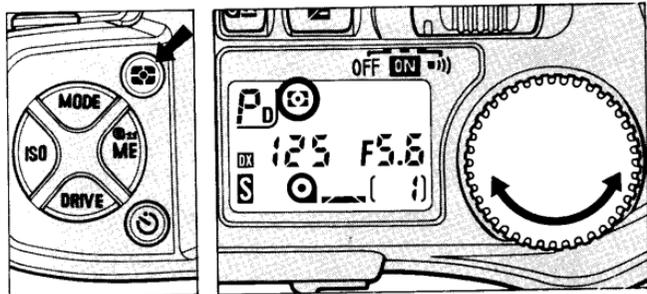
Center-Weighted Metering

Choose Center-Weighted Metering when you want to base exposure on either auto or manual exposure control for a centrally located subject. Selecting Center-Weighted Metering overrides Matrix Metering and concentrates 75% of the meter's sensitivity into the center of the viewfinder outlined by a 12mm-diameter circle.



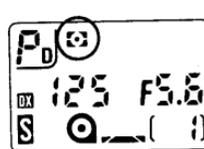
Spot Metering

For selective metering of tiny subjects or for advanced manual metering techniques, use Spot Metering. The area metered is represented by the approx. 3.5mm-diameter circle in the center of the viewfinder. This metering system is effective when precise measurement of a special portion of the subject is required.

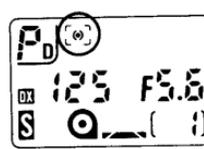


Metering System Setting

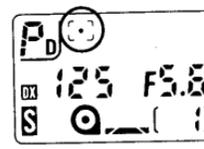
1. Slide main switch to ON.
2. While pressing metering system button, rotate command dial until your desired symbol –  for Matrix Metering,  for Center-Weighted Metering or  for Spot Metering appears in the LCD panel.



Matrix Metering

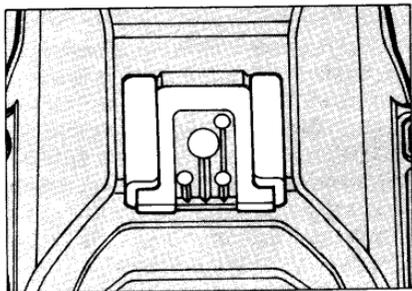


Center-Weighted
Metering



Spot Metering

For lenses without built-in CPU, the metering system is automatically set to Center-Weighted. If set to Matrix Metering,  blinks.



The Nikon N8008s's accessory shoe lets you directly mount a wide range of Nikon dedicated electronic Speedlights, including SB-24, SB-23, SB-22, SB-20, SB-18, SB-16B and SB-15. Each unit takes full advantage of the N8008s's built-in computer, which automatically synchronizes the camera's shutter and lens aperture to provide precisely controlled exposures. This means you can perform automatic balanced fill-flash in TTL mode in every flash shooting situation, for beautiful, naturally balanced foregrounds and backgrounds with a truly professional look. Automatic balanced fill-flash lets you choose any of the four different flash categories shown, matching your Speedlight TTL mode with the appropriate metering system and exposure mode.

		Speedlight setting	SB-24 at TTL 	SB-23/22/20/18/16B/15 at TTL	SB-24 at TTL 
Metering system	Exposure mode				
Matrix Metering	PD/P/PH/S/A	Matrix Balanced Fill-Flash			Standard TTL Flash
	M				
Center-Weighted Metering	PD/P/PH/S/A	Center-Weighted Fill-Flash			Standard TTL Flash
	M				
Spot Metering	PD/P/PH/S/A	Spot Fill-Flash			Standard TTL Flash
	M				

For details about Matrix Balanced Fill-Flash, Center-Weighted Fill-Flash and standard TTL flash, refer to the Nikon F-801/N8008 camera explanation in your Nikon Speedlight instruction manual.

Center-Weighted Fill-Flash

For flash photography in ordinary TTL, or to emphasize detailed background areas, use Center-Weighted Fill-Flash. In this mode, when value measured by center segment is within controlled shutter speed/aperture range, flash output compensation is automatically set 2/3 EV lower than standard TTL flash output, for natural fill-flash photography. (If the value is less than that of the controlled range, standard TTL flash without compensation is selected.)

Spot Fill-Flash

Automatic flash output compensation is performed in the same manner as in Center-Weighted Fill-Flash.

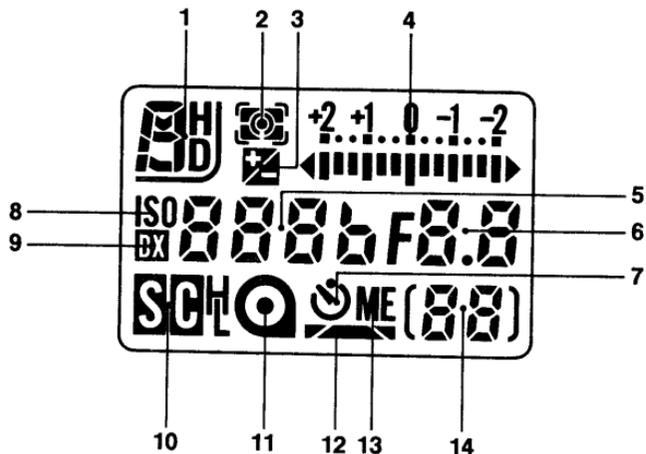
As the area measured is represented by the 3.5mm-diameter circle in the center of the viewfinder, Spot Fill-Flash is recommended when shooting a subject with high-contrast background and when you want to emphasize picture contrast. In this case, first measure exposure on the desired part of the background, recompose using auto exposure lock, and then shoot.

Standard TTL Flash

In this mode, although exposure for the background is metered by each metering system, flash output level is not determined automatically. However, you can manually select flash output compensation (on the SB-24) at levels from +1 to -3 EV, for greater personal creativity.

Nikon Speedlight SB-24 lets you take advantage of a special photographic technique called rear-curtain sync flash. For details, see page 72.

LCD INFORMATION



1 Exposure mode

- P** Dual Program
- S** Shutter-Priority Auto
- A** Aperture-Priority Auto
- M** Manual
- PH** High-speed Program
- P** Normal Program

2 Exposure metering system

- Matrix Metering
- Center-Weighted Metering
- Spot Metering

3 Exposure compensation

- In use
- Off

4 Electronic Analog Display

Examples:

Over +2EV

+2EV

±0EV

-2/3EV

Below -2EV

5 Shutter speeds

buLb-30"-15"-8"-4"-2"-1"-2-4-8-15-30-60-125-250-500-1000-2000-4000-8000

Alert indications

HI, Lo, Err

Film speeds

6-8-10-12-16-20-25-32-40-50-64-80-100-125-160-200-250-320-400-500-640-800-1000-1250-1600-2000-2500-3200-4000-5000-6400

LENSES

Nikon N8008s is designed for autofocus photography with AF Nikkor lenses (except AF-Nikkor lenses for F3AF). However, most other Nikon lenses can be used for standard photography according to the conditions listed in the following chart.

Lens Compatibility Chart

	Focusing		Exposure mode				Metering system		
	Autofocus	Manual with electronic rangefinder	Programmed Auto	Shutter-Priority Auto	Aperture-Priority Auto	Manual	Matrix Metering	Center-Weighted Metering	Spot Metering
AF Nikkor lenses (except AF Nikkor lenses for F3AF)	○	○	○	○	○	○	○	○	○
AI-P-type Nikkor lenses	○*1	○*2	○	○	○	○	○	○	○
AI- or AI-S-type Nikkor lenses	○*1	○*2	×	×	○	○	×	○	○
AI-modified Nikkor lenses	×	○*2	×	×	○	○	×	○	○
Medical-Nikkor 120mm f/4 IF	×	○	×	×	×	○*3	×	×	×
Reflex Nikkor lenses*	×	×	×	×	○*5	○*5	×	○	○
PC-Nikkor lenses#	×	×	×	×	○*6	○*7	×	○	○
Teleconverter TC-16A	○*8	×	×	×	○	○	×	○	○
AI- or AI-S-type Teleconverters (except TC-16A)	×	○*9	×	×	○	○	×	○	○
Bellows Focusing Attachment PB-6	×	○*9	×	×	○*10	○*10	×	○	○
K Ring Set (K1, K3, K4 and K5)**	×	○*9	×	×	○*11	○*11	×	○	○
Auto Extension Rings (PK-11A, 12, 13 and PN-11)***	×	○*9	×	×	○	○	×	○	○

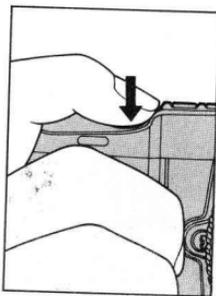
* Some lenses cannot be attached to the N8008s.

** K1 ring cannot be attached to AF Nikkor lenses. The ring may damage CPU contacts. Use PK-11A or BR-6 instead.

*** PK-1, PK-2, PK-3 and PN-1 rings cannot be attached to the N8008s. PK-11 ring cannot be attached to AF Nikkor lenses. These rings may damage CPU contacts. Use PK-11A for AF Nikkor lenses instead of PK-11.

SPECIFICATIONS

Type of camera	Integral-motor autofocus 35mm single-lens reflex	Exposure meter switch	Activated by lightly pressing shutter release button; stays on for approx. 8 sec. after lifting finger from button
Picture format	24mm x 36mm (standard 35mm film format)	Metering range	EV 0 to EV 21 (at ISO 100 with f/1.4 lens) for Matrix and Center-Weighted metering; EV 4 to EV 21 (at ISO 100) for Spot metering
Lens mount	Nikon F mount	Exposure modes	Programmed auto (PD, P, PH), shutter-priority auto (S), aperture-priority auto (A) and manual (M) modes
Lens	AF Nikkor lenses, and Nikon lenses with Nikon F mount (with limitation) available	Programmed auto exposure control	Both shutter speed and aperture are set automatically; flexible program in one EV step possible
Focus modes	Autofocus, and manual focus with electronic range finder	Shutter-priority auto exposure control	Aperture automatically selected to match manually set shutter speed
Autofocus		Aperture-priority auto exposure control	Shutter speed automatically selected to match manually set aperture
Autofocus detection system	TTL phase detection system using Nikon advanced AM200 autofocus module	Manual exposure control	Both aperture and shutter speed are set manually
Autofocus detection range	Approx. EV minus 1 to EV 19 (at ISO 100)	Shutter	Electromagnetically controlled vertical-travel focal-plane shutter
Autofocus actuation method	Single servo and continuous servo	Shutter release	Electromagnetic shutter by motor trigger
Focus Tracking	Focus tracking is automatically activated when the camera is set to Continuous Servo Autofocus and CL film advance mode.	Shutter speeds	Lithium niobate oscillator-controlled speeds from 1/8000 to 30 sec.; electromagnetically controlled long exposure at B setting
Autofocus lock	Possible by lightly pressing shutter release button in Single Servo AF mode or by using AF Lock button	Viewfinder	Fixed eyelevel pentaprism high-eye-point type; 0.75X magnification with 50mm lens set at infinity; 92% frame coverage
Electronic range finder	Available in manual focus mode with an AF Nikkor and other AI-type Nikkor lenses with a maximum aperture of f/5.6 or faster		
Exposure metering	Three types of exposure metering systems — Matrix Metering, Center-Weighted and Spot		



Focus Tracking

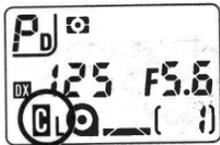
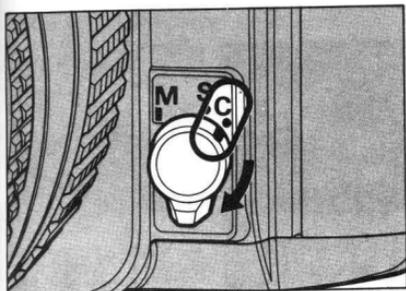
When shooting a moving subject, with the focus mode set to Continuous Servo Autofocus and the film advance mode to CL (Continuous Low), Focus Tracking is automatically activated to ensure focused images. In Focus Tracking, the camera analyzes the speed of the moving subject according to focus detection data, and drives the autofocus lens by anticipating the position of the subject at the exact moment of exposure.

Continuous Servo Autofocus Mode

1. Set focus mode selector to C for Continuous Servo Autofocus.
If the lens has an A-M switch, set switch to A.
2. Position viewfinder focus brackets on main subject.
3. Lightly press shutter release button to start Continuous Servo Autofocus function.
4. Confirm the viewfinder in-focus indicator appears, then fully depress shutter release button to take a correctly focused picture.

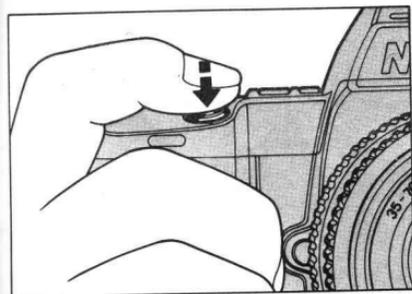
- When focus tracking is activated and a focused image is assured, ►◄ appears in the viewfinder. In Focus Tracking mode, the in-focus indicator (●) does not appear even if a correctly focused image is assured.
- If the subject speed becomes erratic, Focus Tracking will be automatically deactivated and standard continuous focusing will operate.
- Focus Tracking ability will vary according to subject's brightness and movement, lens in use and shooting distance.
- During Focus Tracking, the subject must remain within the focus brackets.
- In Focus Tracking with the film advance mode set at CL, the shooting speed is faster than 2.8 fps (specified speed for CL).

If in-focus indicator LCD does not appear and X appears, see page 33.

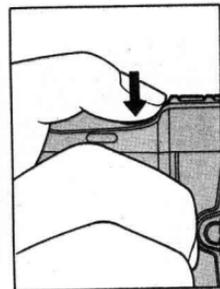


1. Set focus mode selector to C, and film advance mode to CL.

2. Position viewfinder focus brackets on subject.



3. Lightly press shutter release button to start Focus Tracking.



4. Confirm both arrows (▶◀) appear in the viewfinder, then fully depress shutter release button to take an in-focus picture.