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Nikon

INSTRUCTION MANUAL

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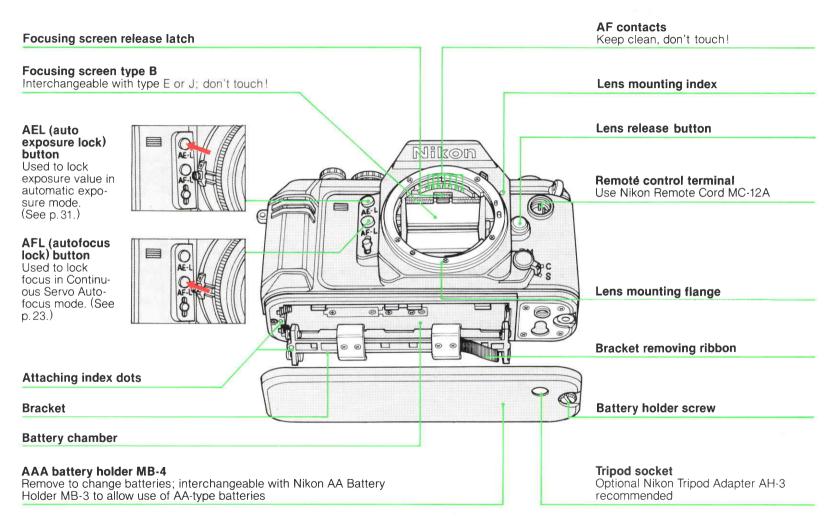
FOREWORD

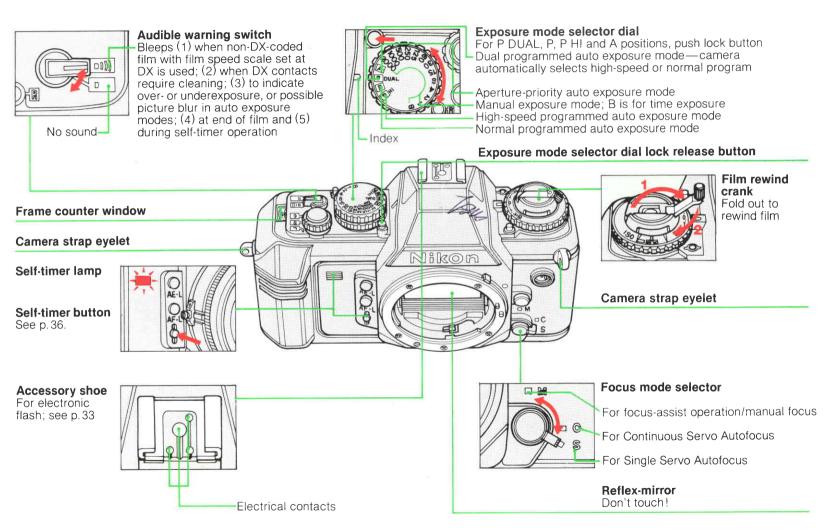
Thank you for your kind patronage of Nikon. We hope the F-501 will make photography a much bigger part of your life.

Get to know your F-501, but before using it, be sure to read this manual well.

Nikon cannot be held responsible for malfunction resulting from the use of the camera other than as specified in this manual.

NOMENCLATURE







Film speed ring/Exposure compensation dial
To set film speed, lift and turn; for exposure compensation, push lock release

button and turn

ISO film speed scale (DX setting for DX-coded film: 12 to 3200)

Film advance mode selector/Fingerguard

To select film advance mode, lift and turn



Locks shutter release/turns power off

For single-frame shooting For continuous shooting



Exposure compensation settings (+2 to -2)

Index



Shutter release button

To activate autofocus function and exposure meter, lightly press to fingerquard position: to release shutter. depress fully



Fingerguard



position

Fully depressed

Exposure compensation dial lock release button

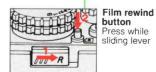
Film cartridge window

Film plane indicator

Exact distance between lens mounting flange and film plane is 46.5 mm

Red indicator lamp

Blinks (1) when non-DX-coded film with film speed scale set at DX is used. (2) when DX contacts require cleaning, (3) at end of film, and (4) when shutter is released

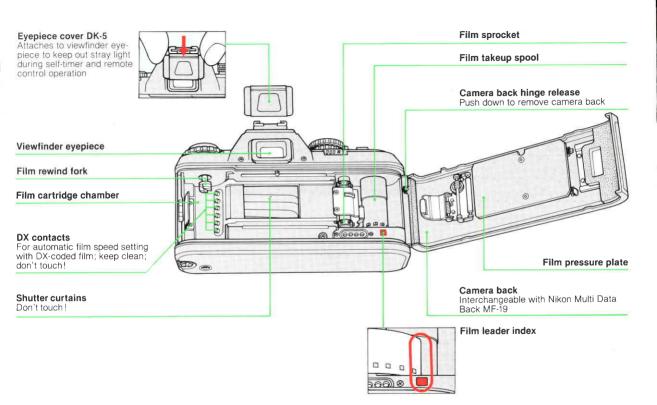


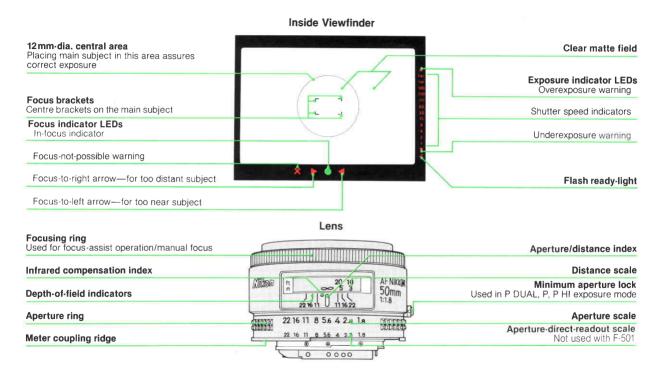
Film rewind lever

Slide to right

Film advance indicator

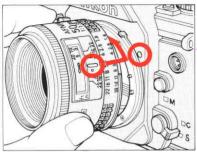
Rotates to show film is properly loaded and being advanced





BASIC OPERATION

MOUNTING THE LENS

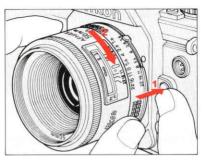


1 Mount lens.

Twist the lens counterclockwise until it clicks into place.

Do not push the lens release button when mounting.

See p.45 for list of usable/ unusable lenses.



To remove

Do not push the lens release button except when removing lens.

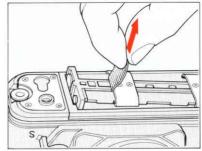
INSTALLING BATTERIES AND CHECKING POWER



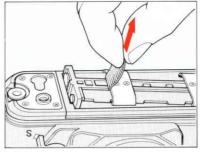
Remove AAA battery holder MB-4.

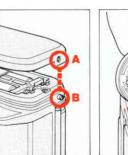
Align white dots and put

back bracket.



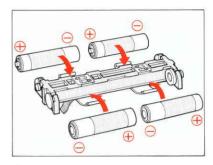
3. Remove bracket.



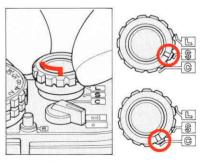




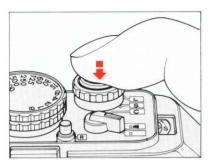
6. Line up hole "A" with post "B" and reattach battery holder.



Install four AAA-type batteries.

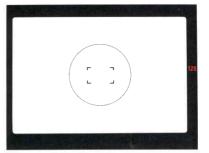


Set film advance mode selector.

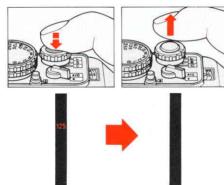


8. Lightly press shutter release button to finger-guard position and check viewfinder exposure indicator LED(s) to make sure battery power is sufficient.

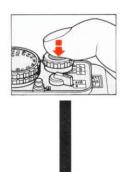
Exposure indicator LED(s) lights up if power is sufficient, and stays on for 8 sec. after you take your finger off the button, unless you release the shutter. Upon shutter release, the exposure indicator LED(s) turn off 1 sec. after you remove your finger from the button.



Lit-up LED Sufficient battery power

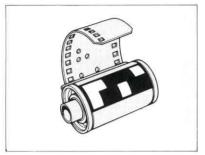


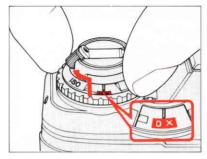
If LED goes off immediately after finger is removed from button, batteries need replacement.

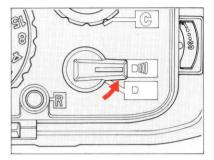


No LED Change batteries, or re-install them properly.

LOADING FILM

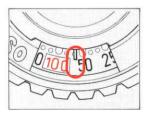




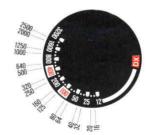


9. With DX-coded film, set film speed index at DX. Usable film speed range for DX-coded film is ISO 25 to 5000.

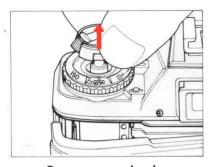
10. Set audible warning lever to) position.



With non-DX-coded film, set to appropriate film speed.



The two dots between numbers stand for intermediate settings.

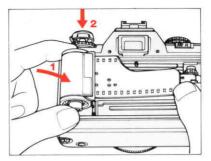


11. Open camera back.

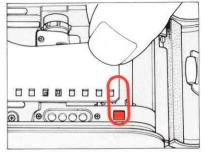
Pull up film rewind knob until camera back springs open.



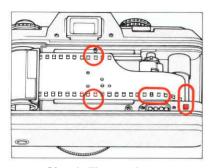
Avoid loading or unloading film in direct sunlight.



12. Position film cartridge.

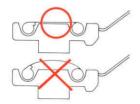


13. Pull film leader out to red index mark.

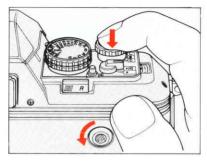


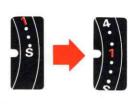
14. Check film position and close camera back.

The shutter curtains remain closed while the camera back is open to prevent damage.



Pull out the film leader gently to avoid film slack.





15. Fully depress shutter release button to automatically advance film to frame "1."

Make sure the film advance indicator rotates to show proper film installation.





If audible warning bleeps and red indicator lamp blinks for 8 sec., check the following:

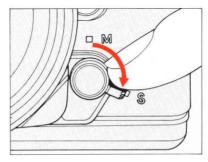
- (1) Are you using DX-coded film? (For non-DX-coded film, see p. 12)
- (2) Are the DX contacts clean? (See p. 38.)

BASIC SHOOTING

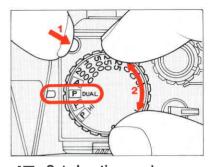
The Nikon F-501 offers dual autofocus modes, focus-assist operation, and manual focus, plus four automatic exposure modes, and manual.

The following instructions are for Single Servo Autofocus shooting in the P DUAL auto exposure mode with an AF Nikkor lens—the easiest setting for most picture-taking situations.

For details about other focusing methods and exposure modes, see pages 20 to 27, and 28 to 32, respectively.

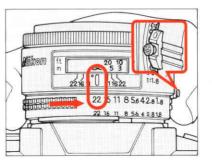


16. Set focus mode selector to S for Single Servo Autofocus.



17. Set shooting mode selector dial to P DUAL.

Turn dial while pressing lock button.

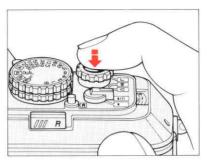


18. Set lens to its minimum aperture (largest f-number).

With AF Nikkor lenses, lock lens aperture at minimum setting. (See the lens instruction manual).



19. Compose.
Centre the focus brackets inside the viewfinder on the main subject.



Main subject is in focus.



20. Lightly press shutter release button to fingerguard position.

The F-501 automatically secures the correct subject focus. When the green in-focus indicator LED lights up, you can release the shutter. In S (Single Servo Autofocus) mode, shutter cannot be released until the green in-focus indicator LED lights up, and once it does light up, the focus is locked as long as the shutter releae button remains lightly pressed.

If subject moves and focusing distance changes, refocus by briefly removing your finger from shutter release button and lightly pressing it again to restart Single Servo Autofocus function.

Autofocus function stops and the lens focusing ring position is fixed when you remove your finger from button.

If there is no warning bleep, correct exposure is assured.

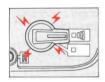
If in-focus indicator LED does not appear:





While \times remains lit, autofocus is impossible with the subject and shutter cannot be released. Set focus mode selector to M and focus manually on clear matte field. (See p. 26 to 27 for subjects which cannot be shot on autofocus,)

While ◀ remains lit, the subject is closer than the closest focusing distance of the lens in use. Move back from the subject.



If you hear a warning bleep, check exposure indicator LED for the following:



(1) Picture blur possibility (1/30 sec. or slower) Use tripod to avoid camera shake, or use a Nikon speedlight to synchronise shutter speed at 1/125 sec.

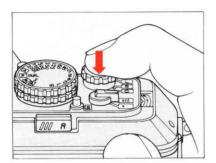


(2) Top LED triangle blinks— Overexposure warning Use neutral density (ND) filter.



(3) Bottom LED triangle blinks—Underexposure warning Use electronic flash.





21. Fully depress shutter release button to take picture.



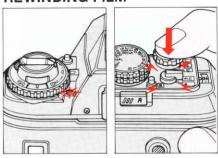
With film advance mode selector on S (single-frame shooting), fully depressing and releasing the shutter release button *automatically* advances film by one frame.



With film advance mode selector on C (continuous shooting), shots are continuously taken as long as shutter release is depressed.

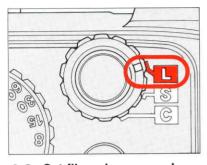
In Single Servo Autofocus mode, when you remove your finger from the button after releasing the shutter, the focus indicator LED immediately disappears. The exposure meter and shutter speed LEDs stay on for 1 sec., however, then automatically turn off. To reactivate autofocus function and exposure meter, press shutter release button to fingerguard position again.

REWINDING FILM

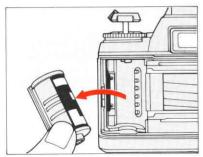


22. Film winding stops automatically at end of film.

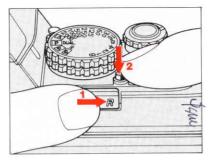
When shutter release button is depressed, there is a bleep and red indicator lamp blinks to tell you to rewind film.



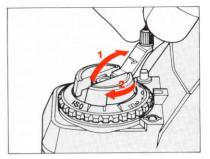
23. Set film advance mode selector to L.



26. Remove film cartridge.



24. While sliding film rewind lever, push film rewind button.



25. Rewind film. Fold out film rewind crank and rotate until film advance indicator stops moving.



FOCUS.

AUTOFOCUS

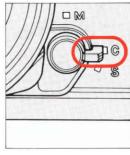
The Nikon F-501 has dual autofocus modes. Single Servo Autofocus and Continuous Servo Autofocus. (See page 47 to varify lens'autofocus compatibility.)

In Single Servo Autofocus mode, the shutter cannot be released until the subject is correctly focused, and once it is in focus, the focus is locked as long as the shutter release button remains lightly pressed.

In Continuous Servo Autofocus mode, focus detection continues as long as the shutter release button remains lightly pressed. The shutter release button can be fully depressed any time.

Single Servo Autofocus is explained under Basic Operation (p. 15 to 18); the following instructions are for Continuous Servo Autofocus operation:

Continuous Servo Autofocus Mode



1. Set the focus mode selector to C for Continuous Servo Autofocus.



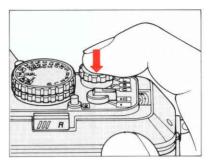
2. Centre the viewfinder focus brackets on the main subject.



3. Lightly press the shutter release button to start the Continuous Servo Autofocus function

The autofocus function continues as long as the shutter release button remains lightly pressed. The autofocus function stops and the lens focusing ring position is fixed as soon as you remove your finger from the button. (The focus indicator LED will however, remain on for 8 sec.)





4. Confirm that the green in-focus indicator LED lights up, then fully depress the shutter release button to get a correctly focused image. Fully depressing the shutter release button with the green in-focus LED off may result in an out-of-focus image.

In Continuous Servo Autofocus mode, when you remove your finger from the shutter release button after depressing it, the autofocus function stops, but the exposure meter and LEDs inside the viewfinder stay on for 1 sec.—then automatically turn off. To activate autofocus function and the exposure meter for the next shot, lightly press the shutter release button again to fingerguard position.

If in-focus indicator LED does not appear, see below.



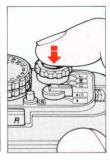
A lit \times means autofocus is impossible with the subject. You should then set the focus mode selector to M and focus manually on the clear matte field. (See p. 26 to 27 for subjects which cannot be used with autofocus.)



A lit < means the subject is closer than the closest focusing distance of the lens. Move back from the subject.

Taking Pictures with an Off-Centre Main Subject Single Servo Autofocus mode



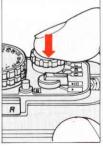


 Centre the focus brackets on the subject and lightly press the shutter release button.



2. Confirm that the in-focus indicator LED lights up.



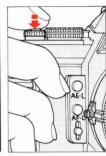


3. Keeping the shutter release button lightly pressed, recompose, then fully depress the shutter release button.

Continuous Servo Autofocus mode

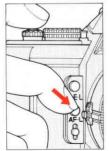
Use the AFL (autofocus lock) button to lock focus on the desired subject.





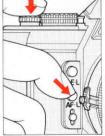
 Centre the focus brackets on the subject and lightly press the shutter release button.





Keeping the shutter release button lightly pressed, confirm that the in-focus indicator LED lights up, then depress the AFL button and hold it in.





3. With the AFL button depressed, recompose as desired and fully depress the shutter release button.

FOCUS-ASSIST OPERATION

Focus-assist operation is possible with Nikkor and Series E lenses with a maximum aperture of f/4.5 or faster, including all AF Nikkor lenses.*

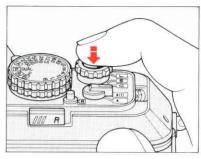
In focus assist-operation, manually rotate the lens focusing ring while referring to the focus indicator LEDs in the viewfinder as a guide.

With lenses having maximum aperture slower than f/4.5, although the focus indicator LEDs appear, **they are not reliable.** Focus on clear matte field.

*With some lenses, depending on focus distance, focus-assist operation cannot be used. For details, see page 47.

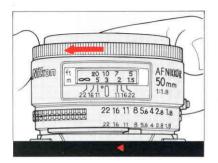


1. Look inside the viewfinder and centre the focus brackets on the main subject.



2. Lightly press the shutter release button.

With Nikkor and Series E lenses, the camera's focus mode selector can be set to any position. With AF Nikkor lenses, however, set the focus mode selector to \mathbf{M}







3. Keeping the shutter release button lightly pressed, watch the focus indicator LED inside the viewfinder.

If the focus-to-left arrow ◀ or focus-to-right arrow ▶ appears, manually rotate the lens focusing ring in the direction indicated until the green in-focus LED appears.

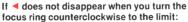
If the focus-to-left arrow appears but the lens focusing ring can no longer move to the left, move back from the subject.

If the focus-not-possible indicator × appears, turn the focusing ring in either direction until it disappears; if it does not disappear, you cannot use the focus-assist feature. Use the clear matte field to focus the subject.

Confirm that the in-focus indicator LED is visible, then fully depress the shutter release button.

If x does not disappear:

The focus-assist feature cannot be used with the subject. Use the clear matte field for focusing. (See p. 26 to 27 for subjects which cannot be used with focus-assist operation.)

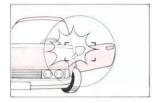


The subject is closer than the closest focusing distance of the lens, Move back from the subject.

MANUAL FOCUS

Use the clear matte field for focusing in the following cases:

- 1) When using lenses with a maximum aperture slower than f/4.5
- 2) When the focus-not-possible warning × remains on during autofocus or focus-assist operation
- 3) When shooting any of the following—





Subject with high reflectivity

Backlit subject



· Scene with subjects located at different distances

With AF Nikkor lenses, set the focus mode selector to **M** for manual focus

SPECIAL FOCUSING SITUATIONS

The focus-not-possible warning × lights up continuously with the following subjects:



1) Dark subject

In this case, focus manually, or secure focus on another subject that lies at the same distance for autofocus or focus-assist operation.

You can also perform autofocus with the Nikon Autofocus Speedlight SB-20. (No other flash unit can be used.)



2) Low-contrast subject

Focus manually, or focus on another subject lying at the same distance until the green in-focus indicator LED appears in auto-focus or focus-assist operation.

3) Subject with no vertical lines

Turn the camera sideways to focus, or focus manually. You may also focus on another subject with vertical lines lying at the same distance for autofocus or focus-assist operation.

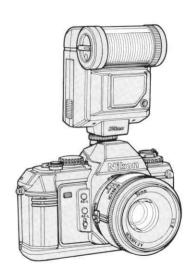


4) Small or finely detailed subject

Use manual focusing, or focus on another, larger subject lying at the same distance for autofocus or focus-assist operation.

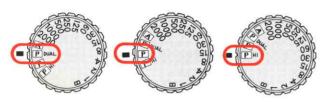
AUTOFOCUS FLASH PHOTOGRAPHY

For autofocus operation in darkness, use Nikon Autofocus Speedlight SB-20. Set the F-501 to Single Servo Autofocus mode. For details, see the SB-20's instruction manual.



EXPOSURE

PROGRAMMED EXPOSURE MODES



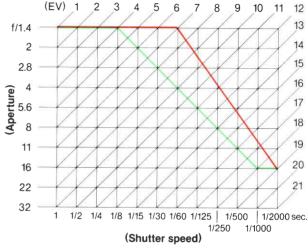
The F-501's microcomputer automatically sets the optimum combination of shutter speed and lens aperture. The F-501 offers three programmed automatic modes—dual, normal and high-speed—P DUAL for dual, P for normal, and P HI for high-speed.

In the P DUAL mode, the camera automatically selects either the normal or high-speed program, depending on the focal length of the lens in use*. With short lenses (less than 135mm), the normal program is selected; with telephotos of 135mm or longer, the high-speed program is selected to reduce the possibility of blur.

Setting the exposure mode selector to P or P HI allows you to choose the normal or high-speed program. For a high shutter speed, such as when using a telephoto lens or for shooting a fast-moving subject, P HI is recommended. (See p. 15 to 18 for operation of programmed automatic exposure.)

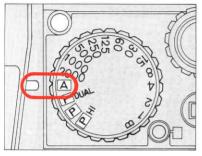
*With Al-S type lenses only; with other lenses, normal program is selected. For information on how to recognise Al-S type lenses, see p. 45.

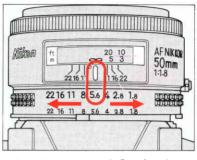
Dual program chart (50mm f/1.4, ISO 100)



The EV (exposure value) chart demonstrates the difference between the F-501's normal and high-speed programs. Follow either coloured line to where it intersects a diagonal line. This shows the combination of aperture (vertical line) and shutter speed (horizontal line). For example, at a brightness of EV12, the F-501 selects f/4 and 1/250 sec. at P HI; f/5.6 and 1/125 sec. at P (with 50mm f/1.4 lens at ISO 100).

APERTURE-PRIORITY EXPOSURE MODE







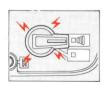
Correct exposure is assured.



At A, the F-501's microcomputer automatically selects the correct shutter speed to match the aperture you set. This is the recommended mode when depth of field is your prime consideration. If you want to blur the background in portraiture, for instance, use wider apertures (i.e., smaller f-numbers like f/1.8 of f/2). To make everything come out sharp in scenic photography, use smaller apertures (i.e., larger f-numbers like f/16 or f/22).

- 1. Set shooting mode selector to A.
- Set lens to desired f-number (engraved on aperture scale).
- 3. Look inside viewfinder and lightly press shutter release button.

The LED shows the shutter speed selected by the camera for correct exposure with the aperture you set. If there is no warning bleep, you can take the picture by fully depressing the release button



check the viewfinder exposure indicator LED for the followina:

(1) Picture blur possibility (1/30 sec. or slower)

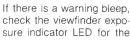
Use a tripod to avoid camera shake, or use a Nikon speedlight to synchronise shutter speed at 1/125 sec.

(2) Top LED triangle blinks — Overexposure warning

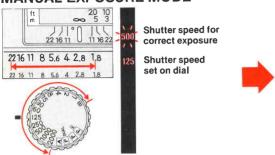
Stop the lens down until the LED stops blinking, or use a neutral density (ND) filter.

(3) Bottom LED triangle blinks - Underexposure warning

Select a wider aperture or if necessary, use a Nikon speedlight.



MANUAL EXPOSURE MODE



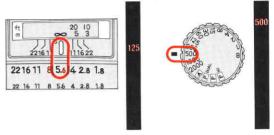
In the manual exposure mode ($1/2000 \sim 1$ sec., plus B), both shutter speed and aperture can be set manually according to the effect desired. Use fast shutter speeds to stop action, slower speeds to produce a deliberate blur. The manual exposure mode also allows depth of field control.

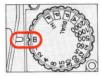
- 1. Set shutter speed and aperture.
- 2. With your eye on the viewfinder, lightly press the shutter release button.

The non-blinking LED shows the shutter speed set on the dial. A blinking LED indicates the shutter speed for correct exposure; when two blinking LEDs blink, the correct shutter speed is intermediate.

Reset aperture and/or shutter speed until only one LED is shown.

Adjust shutter speed and/or aperture

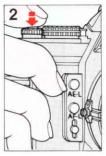


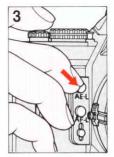


On B, the shutter curtains remain open as long as the shutter release button is depressed and, although no exposure indicator LED appears inside the viewfinder, the camera meter is on.

FOR SPECIAL EXPOSURE SITUATIONS









(In A mode)

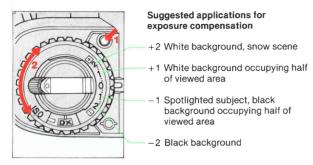
AEL (Auto Exposure Lock) Button

In the P DUAL, P, P HI or A mode, to shoot a subject outside the 12 mm-dia. circle or when there is substantial brightness contrast between the main subject and the background (e.g., a strongly backlit subject), use the AEL button.

- 1. Centre main subject inside viewfinder or move in closer.
- 2. Lightly press shutter release button.
- 3. While lightly pressing the shutter release button, depress AEL button and hold it in.
- 4. Recompose and shoot.

In the A mode, the shutter speed LED blinks* while you are recomposing. However, the shutter operates at the speed indicated by the **lit-up shutter speed LED** (1/60 sec. in the example). In the P DUAL, P and P HI modes, only the lit-up shutter speed LED is shown.

* In photo No. 4, the blinking 250 LED indicates the shutter speed for the background; the lit-up 60 indicates the shutter speed for the girl's face.



Exposure Compensation Dial

For unusual lighting situations—snowscapes, backlit subjects, or when the main subject contrasts sharply with the background—use the exposure compensation dial to prevent over- or under-exposure. –1 and –2 indicate one and two stops less exposure, respectively; +1 and +2 indicate one and two stops additional exposure, respectively.

- 1. Press the lock button.
- While pressing the lock button, rotate the dial to set the desired compensation value.
- 3. After use, reset the dial to 0.

When the film speed ring is set at DX with ISO 5000 DX-coded film, only $-1\,^{1}/_{3}$ to +2 compensation is possible. With film speed ring set at ISO 1600, the exposure compensation dial can only be rotated between -1 and +2; at ISO 3200, the dial cannot be rotated in the - direction. With film speed ring set at ISO 25 or 12, though the exposure compensation dial can be rotated from -2 to +2, only -2 to +1 compensation is possible at ISO 25; at ISO 12, only minus compensation is possible.

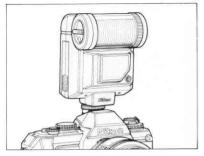


Without compensation



+2EV compensation

FLASH PHOTOGRAPHY





The F-501 accessory shoe allows direct mounting of Nikon dedicated electronic flash units, including Nikon Autofocus Speedlight SB-20. The SB-20 enables you to perform Single Servo Autofocus operation even in darkness.

When the F-501 is set at A, P DUAL, P, P HI, or a manual setting of 1/250 sec. or higher, the shutter speed automatically switches to 1/125 sec. for proper flash synchronisation. When the F-501 is set at a manual setting of 1/125 sec. or slower, the shutter operates at the speed set on the dial.

Ready-light indication in the viewfinder is also provided with Nikon dedicated flash units. With the camera's meter on, a thunderbolt-mark LED ready-light comes on to indicate the flash is ready to fire. Warning indications are provided by a blinking ready-light. Conditions represented by the warning vary between flash unit models. For details, see your flash unit instruction manual.

Use Nikon Speedlights only. Other units may damage the camera's electrical circuit.

Nikon Speedlight	Connection	Usable Flash Mode
SB-20*/SB-16B/ SB-15	Direct	Programmed TTL auto**, TTL auto, non-TTL auto, manual
SB-18	Direct	Programmed TTL auto**, TTL auto, manual
SB-14/SB-11	Via TTL Remote Cord SC-23	Programmed TTL auto**, TTL auto, manual
05 14/05 11	Via Sensor Remote Cord SC-13	Non-TTL auto, manual
SB-17/SB-16A	Via Flash Unit Coupler AS-6	Non-TTL auto, manual

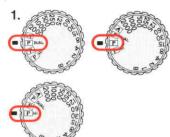
^{*} Autofocus flash photography possible.

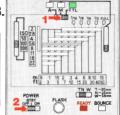
The following instructions are for programmed TTL auto and TTL auto flash shooting only. For non-TTL auto and manual flash shooting, see your flash unit instruction manual.

Note that the film speed range for programmed TTL auto and TTL auto flash photography is ISO 25 to 1000.

^{**} Programmed TTL auto flash photography can only be performed with AI-S type Nikkor and Series E lenses.

PROGRAMMED TTL AUTO FLASH PHOTOGRAPHY IN P DUAL, P AND P HI MODES





(With the SB-20, set the power switch to STBY position to turn on the speedlight.)

Viewfinder indication



Flash sync speed shutter operates at 1/125 sec.

In programmed TTL auto flash photography, the camera selects the appropriate aperture. Note that only **AI-S type** lenses can be used.

Set the F-501 to P DUAL, P or P HI (illust. 1), and set the lens to its minimum aperture (largest f/number) (illust. 2). Set the speedlight's mode selector to TTL, and turn the speedlight on (illust. 3). Look inside the viewfinder and lightly press the shutter release button. With the ready-light on, as long as you have none of the following warning indications, you can shoot.

For Single Servo Autofcus with the SB-20's AF illuminator in programmed TTL auto flash operation, use high-sensitivity film for greater depth of field. (For details, see the SB-20's instruction manual.)

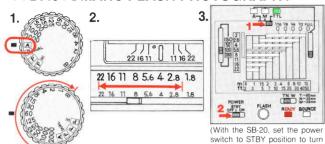
Warning indication



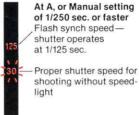
If either of the triangle-shaped top and bottom LEDs blinks, confirm that the lens is an Al-S type, or reset the Al-S lens to its minimum aperture.



TTL AUTOMATIC FLASH PHOTOGRAPHY



Viewfinder indication



At Manual setting of 1/125 sec. to 1 sec. Shutter speed set on

the exposure mode selector dial—shutter operates at 1/125 sec. to 1 sec., as selected.

Proper shutter speed for shooting without speedlight

Select appropriate aperture. Set the F-501 to A or one of the manual settings (illust. 1). Determine aperture using the speedlight exposure calculator dial* (illust. 2). (See flash unit instruction manual for details.) Set the speedlight mode selector to TTL and turn the speedlight on (illust. 3). Look inside the viewfinder and lightly press the shutter release button. When the ready-light comes on, you can shoot.

on the speedlight.)

* For Single Servo Autofocus operation assisted by the SB-20's AF illuminator, set the lens aperture as follows for greater depth of field:

	Lens maximum aperture	Aperture setting
Langagh	f/2.8 or faster	f/2.8 or larger f-number (f/2.8, f/4, f/5.6, etc.)
Lens only Slower tha	Slower than f/2.8	f/5.6 or larger f-number (f/5.6, f/8, f/11, etc.)
MULL TO 404	f/1.4 or f/1.2	f/2 or larger f-number (f/2, f/2.8, f/4, etc.)
With TC-16A	f/1.8, f/2, f/2.5 or f/2.8	f/4 or larger f-number (f/4, f/5.6, f/8, etc.)

At B

No shutter speed LED appears. Shutter curtains remain open as long as the shutter release button is fully depressed.

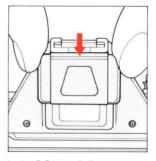
VIEWFINDER READY-LIGHT WARNINGS

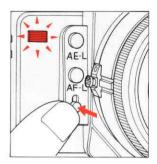


In both programmed TTL auto and TTL auto flash photography, the viewfinder ready-light blinks to warn of improper film speed, poor connection between camera and speedlight, or underexposure possibility.

- To prevent the viewfinder ready-light from blinking—
- 1) Use film with an ISO range of ISO 25 to 1000.
- 2) Keep speedlight and camera electrical connections clean.
- Make sure the subject is within the automatic shooting range* and, if necessary, set lens to a wider aperture.

SELF-TIMER





In the P DUAL, P, P HI or A mode, use the eyepiece cover DK-5 to prevent stray light from entering the viewfinder.

Set the audible warning switch at the **ID** position. Press the self-timer button. The self-timer lamp will blink and a bleep will sound for 10 sec. before the shutter is released. During the final two seconds, the warnings will speed up, telling you to get ready. If you want to cancel the self-timer after activating it, press the button a second time.

In self-timer operation, the shutter is released whether or not the subject is in focus. To assure a focused image, focus the subject before pressing the self-timer button.

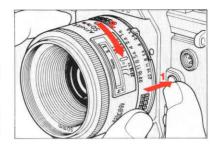
Regardless of the film advance mode selector setting, only single-frame shooting is possible.

^{*} See flash unit's instruction manual.

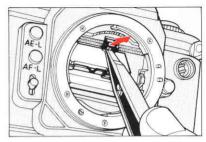
INTERCHANGEABLE FOCUSING SCREENS

The Type B screen provided with the F-501 can be interchanged with optional focusing screens Type J and E.

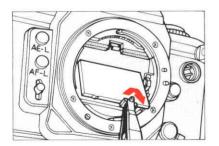
Be sure not to touch the focusing screen or reflex mirror with your fingers.



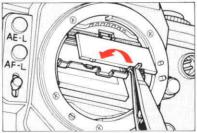
1. Remove the lens.



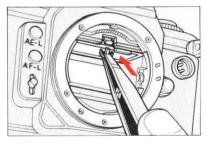
Slip the tip of the special tweezers (provided with optional screens) under the focusing screen release latch and pull outward to spring open the holder.



3. Remove the screen by grasping the small tab with the tweezers.



4. Carefully position the replacement screen in place, making sure the flash side is facing down.



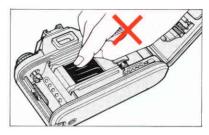
5. Using the tweezers, push the front edge of the holder upward until it clicks into place. An improperly placed focusing screen causes unreliable focus information in the viewfinder.

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CAMERA CARE TIPS



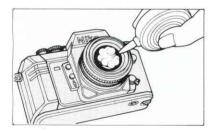
 Never touch the reflex mirror and focusing screen. Remove dust with a blower brush.



2. Never touch the shutter curtains.



3. Never touch the DX-contacts. Keep clean with blower brush.

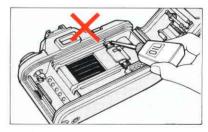


7. Clean glass surfaces such as the lens or the viewfinder eyepiece with a blower brush; avoid using lens tissue as much as possible. Wipe dirt and smudges, using soft cotton moistened with pure alcohol, in a spiral motion

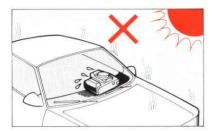
from centre to periphery. Be careful not to leave traces.

Caution

A spray gun-type blower may damage the glass (especially when ED glass is used for the front lens element) if used to clean the lens. To avoid damage, hold the blower upright with its nozzle more than 30cm (12 in.) away from the lens surface and keep the nozzle moving so the stream of air is not concentrated in one spot.



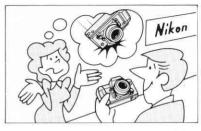
8. Don't lubricate the camera.



4. Don't leave the camera in an excessively hot place.



5. If the camera is exposed to rain or mist. or after shooting near the sea, wipe with a clean, soft cloth.



6. If the camera malfunctions, take it immediately to an authorised Nikon dealer or service centre.



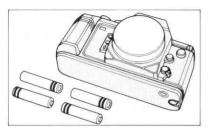
9. Store the camera in a cool, dry place away from naphthalene or camphor (moth repellents). In a humid environment, store the

camera inside a vinyl bag with a desiccant to keep out dust, moisture and salt.

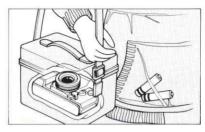


case in a vinyl bag may cause the leather to deteriorate

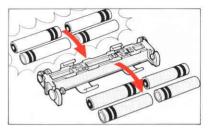
NOTES ON BATTERIES



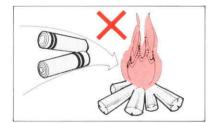
1. When not using the camera for a long period, remove batteries.



Battery power falls off in extremely cold temperatures—make sure you're using new batteries and keep the camera body wrapped in something warm.



When replacing batteries, be sure to replace all batteries at the same time. Always use fresh batteries of the same brand.



4. Don't throw used batteries into a fire.



If the battery chamber is contaminated by battery leakage, take the camera to an authorised Nikon dealer.

SPECIFICATIONS

Integral-motor dual autofocus 35 mm Type of camera

> single-lens reflex 24 mm × 36 mm

(standard 35mm film format)

Lens mount Nikon bayonet mount More than 70 Nikkor and Series E

lenses available

Dual autofocus modes (Single Servo Focus modes and Continuous Servo), focus-assist,

plus manual focusing

Focus detection TTL phase detection system using 96 system CCDs

Autofocus detection range*

Lone mayimum	f/2.8 or faster	Approx. EV4 to EV17
Lens maximum aperture	f/4.5 or faster, but slower than f/2.8	Approx. EV5 to EV18

^{*}At ISO 100, 20°C

Picture format

Lens

Autofocus modes Dual autofocus modes—Single Servo (at S) and Continuous Servo (at C) available with AF Nikkor lenses: autofocus operation begins when shutter release button is lightly pressed to fingerquard position with focus mode selector at S or C

Shutter release is not possible until Single Servo Autofocus in-focus indicator LED appears; once

focused, focus is locked as long as shutter release button remains lightly pressed

Continuous Servo Focus detection continues as long as Autofocus shutter release button is lightly pressed: shutter can be released

Autofocus lock

Focus-assist

Used in Continuous Servo Autofocus mode: holding button in locks focus

Available on manual focus mode with an AF Nikkor Nikkor or Series Ellens

indicators LED is not on

with a maximum aperture of f/4.5 or faster: lens focusing ring is manually rotated in the direction of LED arrow

whenever desired even if in-focus

Exposure metering

(for P DUAL, P, P HI and A), TTL full-

Metering range Exposure control

Program mode exposure control

A (aperture-priority) mode exposure control Manual mode exposure control

inside viewfinder Light intensity feedback measurement

aperture centreweighted exposure measurement (for manual exposure): employs one silicon photo diode (SPD) Exposure meter switch Activated by setting film advance

mode selector at S or C and lightly pressing shutter release button; stays on for approx. 8 sec. after lifting finger from button

EV1 to EV19 at ISO 100 with f/1 4 lens Three Program (dual, normal and high-speed) auto exposure modes, plus A (aperture-priority) auto exposure mode and manual exposure mode

Choose from dual, normal or highspeed programs; both shutter speed and aperture are set automatically Shutter speed automatically set to match manually set aperture Both aperture and shutter speed are

set manually

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Shutter

Electronically controlled vertical-travel

focal-plane shutter

Shutter release Shutter speeds Electromagnetic

Stepless speeds from 1 to 1/2000

sec. on P DUAL, P, P HI and A auto exposure modes: lithium niobate oscillator-controlled discrete speeds

from 1/2000 to 1 sec. on manual: electronically controlled long

exposure at B setting

Viewfinder Fixed eyelevel pantaprism type;

0.85× magnification with 50mm lens set at infinity; approx, 92 % frame

coverage

Evepiece cover Model DK-5; prevents stray light from

entering viewfinder

Focusing screen Nikon Type B clear matte screen with

central focus brackets for autofocus operation: 12 mm-dia, reference circle denotes centerweighted metering area: changeable with optional Nikon

Focusing Screen Type E or J

Viewfinder information Focus indicator LFDs include focus-

not-possible warning, in-focus indicator, focus-to-right and focus-to-left arrows: exposure indicator LEDs include shutter-speed LEDs, over- and underexposure warning LEDs; readylight comes on when Nikon dedicated

speedlight is used

P Dual, P and P HI modes: LED shows shutter speed selected by

camera: top warning LED blinks for overexposure, bottom warning LED indicates underexposure; top and bottom LEDs blink to indicate incorrect aperture setting

A mode: LED shows shutter speed automatically selected by camera: top or bottom warning LED blinks to indi-

cate over- or underexposure M mode: Non-blinking LED shows shutter speed set on dial; blinking LED

shows shutter speed for correct exposure; two blinking LEDs show intermediate shutter speed; no LED at

B (bulb)

Auto exposure lock Operates in P DUAL, P. P HI and A exposure modes; holding button in

locks exposure

±2 EV compensation (in one-third compensation increments) possible with compensation dial; when film speed ring is set at DX

with ISO 5000 DX-coded film, exposure compensation is possible from $-1 \frac{1}{3}$ to +2: with film speed ring set at ISO

1600. -1 to +2 compensation is possible: at ISO 3200, only plus compensation is possible; at ISO 25, -2 to +1 compensation is possible; at ISO 12. only minus compensation possible

ISO 25 to 5000 for DX-coded film: ISO 12 to ISO 3200 for non-DX-coded

film

Film speed range

Exposure

Film speed setting

Film loading

Film advance

Automatically set to ISO speed of DXcoded film used; with non-DX-coded film. ISO speed is set manually Film automatically advances to first frame when shutter release button is depressed once: film advance indicator rotates to show that film is loaded and being advanced properly Film automatically advances to frame "1" after shutter release button is depressed; at S (single-frame shooting), film automatically advances one frame when shutter is released: at C (continuous shooting), the shutter fires as long as the shutter release button is depressed: film advance stops automatically at end of film roll

Firing rate in continuous shooting

		Maximum firing rate (approx.)*		
Focus mode		Without auto exposure lock	With auto exposure lock	
Single Servo Autofocus		Not fixed—depends on subject status		
Continuous Servo Autofocus	Without focus lock	1.7 fps	1.4 fps	
	With focus lock	2.5fps	2.0 fps	
Focus-assist operation/manual	With lenses other than AF Nikkor lenses	2.5fps	2.0 fps	
focus	With AF Nikkor lenses	1.7 fps	1.4 fps	

^{*}With a fresh battery set and a shutter speed of 1/125 sec. or faster; at 20°C

Frame counter

Film rewind Remote control Accumulative type: automatically reset when camera back is opened Manual

Use Nikon optional Remote Cord MC-12A

Audible warning alarm

With switch on, bleeps (1) when non-DX coded film is used with film speed

scale set at DX: (2) when DX contacts require cleaning; (3) for over- or underexposure and possible picture blur in auto exposure modes: (4) at end of film roll; (5) during selftimer operation

Red indicator lamp

Self-timer

Reflex mirror

Camera back

Blinks (1) when non-DX-coded film is used with the film speed scale set at DX. (2) when DX contacts require cleaning. (3) at end of film roll, (4)

when shutter is released

Electronically controlled 10 sec.

exposure delay: blinking LED and bleep sound indicate self-timer

operation; cancellable

Automatic, instant-return type

Hinged back with film cartridge confirmation window and film advance

indicator; swings open when film rewind knob is pulled up: changeable with Nikon Multi Data Back MF-19

Standard ISO-type with hot-shoe Accessory shoe contact, ready-light contact, TTL flash

contact, monitor contact

Flash synchronisation

1/125 sec. or slower with electronic flash: with Nikon dedicated flash unit: automatically set to 1/125 sec. when camera is set at P DUAL, P. P HI, A or at manual setting of 1/250 sec. or higher: at slower manual speed. shutter fires at speed set

Flash ready-light Viewfinder thunderbolt LED lights up when Nikon dedicated speedlight is

ready to fire

Autofocus flash photography Power source

Possible only with Nikon Autofocus Speedlight SB-20 Four 1.5V AAA-type batteries*; with

optional Nikon AA Battery Holder MB-3, four 1.5V AA-type batteries can be used

Number of 36-exposure film rolls per set of fresh batteries (approx.)*

For focus-assist operation/manual focus

Batteries		At 20°C	At - 10°C
	Alkaline-manganese (LR03)	60	6
AAA-type	NiCd (KR-AAA)	40	20
	Zinc-carbon (UM-4)	20	2
	Alkaline-manganese (LR06)	180	50
AA-type	NiCd (KR-AA)	120	60
	Zinc-carbon (SUM-3)	60	6

For Continuous Servo Autofocus with AF Nikkor lens covering the full range from infinity (∞) to the closest distance and back to infinity (∞) before each shot

Batteries		With AF Nikkor 50 mm f/1.8		With AF Nikkor 35-70mm f/3.3-f/4.5	
			At -10°C	At 20°C	At -10°C
AAA-	Alkaline-manganese (LR03)	30	3	45	3
type	NiCd (KR-AAA)	20	10	30	10
	Zinc-carbon (UM-4)	10	_	15	
AA- type	Alkaline-manganese (LR06)	120	20	130	20
	NiCd (KR-AA)	80	20	90	20
	Zinc-carbon (SUM-3)	40	5	45	5

^{*}With film advance mode selector at C for continuous shooting and a shutter speed of 1/125 sec. or faster.

Dimensions Weight (body only) $148.5(W) \times 97.5(H) \times 54.5(D)$ mm

Approx. 610 a

Specifications and designs are subject to change without notice.

^{*} Depending on the battery brand, some AAA-type NiCd batteries cannot be used;

LENSES

Only the lenses listed below can be mounted on the Nikon F-501; use of other lenses may damage the camera.

All AF Nikkor lenses and other Al-type Nikkor lenses

All Series E lenses

Medical-Nikkor 120mm f/4 IF

Reflex-Nikkor 500mm f/8

Reflex-Nikkor 1000 mm f/11 (No. 142360 or smaller, or No.

143001 or larger)

Reflex Nikkor 2000mm f/11 (No. 200311 or larger)

PC-Nikkor 28mm f/3.5

PC-Nikkor 28mm f/4 (No. 180901 or larger)

PC-Nikkor 35mm f/2.8

(No. 851000 or smaller, or No. 906201 or larger)

For Al-modification of most non-Al Nikkor lenses having both an automatic diaphragm and meter coupling shoe, contact an authorised Nikon dealer. Even if Al-modified, the following lenses cannot be mounted on the Nikon F-501: Nikkor 55 mm f/1.2 (No. 184711~400000), Nikkor 28 mm f/3.5 (No. 625611~999999) and Nikkor 35 mm f/1.4 (No. 385001~400000)

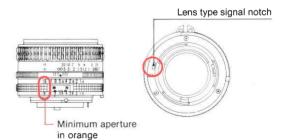
Al-Type Nikkor Lens

Note meter coupling ridge and meter coupling shoe with two holes.



Recognizing Al-S-type lenses

Al-S-type lenses are included among Al-type lenses. Note lens-type signal notch and orange minimum aperture scale. All Series E lenses are of the Al-S type.



Note:

- 1. Do not use the following accessories with the Nikon F-501. K2 rina
 - Macro Adapter Ring BR-2
- 2 PC-Nikkor lenses and Medical-Nikkor 120mm f/4 IF cannot be used in any auto exposure modes.
- 3. The following lenses and accessories do not have an aperture coupling device and cannot be used in the P DIJAL P and P HI modes.

All Reflex-Nikkor lenses

Rellows attachments

Extension Ring Set K

- 4. In the P DUAL, P and P HI modes, when using Al-modified Nikkor lenses with maximum apertures of f/4.5 or slower, or teleconverters or PK rings, shutter speeds are slower than indicated by the program lines on p. 28. Although the actual shutter speed is indicated by the LED and correct exposure is assured even in these cases, check the LED indication to avoid blurred images at slower shutter speeds.
- 5. In the P DUAL, P and P HI modes, when using Al-modified Nikkor lenses with a maximum aperture faster than f/2, the metering range for higher EV values will be reduced to a maximum of two EVs depending on the aperture.

6. In the P DUAL, P and P HI modes, the following lenses may provide slower shutter speeds then those indicated by the viewfinder LED, but you still get correct exposure.

Nikkor 50 mm f/1 2 (No. 250525 or smaller)

Noct-Nikkor 58 mm f/1.2 (No. 175000 or smaller)

 Z_{00} m-Nikkor $50 \sim 300$ mm f/4.5 FD (No. 179500 or smaller)

Al-modified Nikkor 85 mm f/1 8

Al-modified Micro-Nikkor 105 mm f/4

Al-modified Zoom-Nikkor 85 ~ 250 mm f/4

When using Nikon Teleconverters: Depending on the lens in use, in the A mode, the shutter speed may be faster than that indicated in the viewfinder by one step or less; also, in the manual exposure mode, exposure compensation may be necessary. For details, refer to the teleconverter's instruction manual.

Compatibility of Lenses for Autofocus/Focus-Assist Operations

Autofocus

All AF Nikkor lenses can be used.

Focus-assist operation

All Al-type Nikkor and Series E lenses with a maximum aperture of f/4.5 or faster, plus Medical-Nikkor 120 mm f/4 IF can be used. For the following Nikkor lenses, the figure on the right specifies the closest usable focusing distance.

135mm f/2.8	1.7m
180mm f/2.8	2.5m
200mm f/4	2.5m
300mm f/4.5	12m
Micro 105mm f/4	0.8m

For focusing distances closer than those specified, the focus indicator LEDs may not always be reliable—use the clear matte field to secure subject focus.

Autofocus (with Autofocus Converter TC-16A)

Following Al-type (excluding Al-modified) lenses can be used:

ΔF

24mm f/2.8 28mm f/2.8

28mm f/2.8 50mm f/1.4

50mm f/1.8

Micro 55mm f/2.8°

80mm f/2.8 (for F3AF)

180mm f/2.8 IF-ED

300mm f/2.8 IF-ED

Fisheye

6mm f/2.8

8mm f/2.8 16mm f/2.8

Wideangle

24mm f/2

24mm f/2.8

28mm f/2 (No. 540021 or larger) 28mm f/2.8 (No. 500001 or larger)

35mm f/1.4 (use AI-S type lens only) 35mm f/2 (No. 931001 or larger)

35mm f/2.8 (No. 880001 or larger)

Normal

50mm f/1.2^a

50mm f/1.4 (No. 3980001 or larger)

50mm f/1.8

50mm f/1.8 (N)

50mm f/2 (No. 3640001 or larger)

55mm f/1.2

Telephoto

85mm f/1.4^b

85mm f/2

105mm f/1.8^b

135mm f/2

135mm 1/2

135mm f/2.8^c 180mm f/2.8 ED^{a, b, c}

180mm f/2.8^{a, b, c}

200mm f/2 IF-ED^{a, b}

300mm f/2 IF-ED^d 300mm f/2.8 IF-FD^d

Zoom

80 ~ 200mm f/2.8 ED

Special

Noct 58mm f/1.2^{a, b} Micro 55mm f/2.8

Micro 105mm f/2.8c

Series E

28mm f/2.8

35mm f/2.5 50mm f/1.8

100mm f/2.8

135 mm f/2 8^c

^a Slight vignetting may occur at close focusing distance.

b Uneven exposure may occur at high shutter speeds and apertures smaller than f/11.

^c Usable focusing distance is limited. (See the TC-16A's instruction manual for details.)

d Use smallest possible aperture (larger f-number) to avoid vignetting.