

Nikon

F2A

Photomic

INSTRUCTION MANUAL

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NOMENCLATURE



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FOREWORD

The Nikon F2A Photomic camera offers the serious photographer the ultimate in quality, performance, convenience and versatility. At the same time, it is engineered to take the guesswork out of photography with automatic features anyone can learn to use in minutes. To get the most out of your Nikon F2A Photomic, study the instructions carefully and practice using the controls before you load any film in the camera. Keep this booklet handy for ready reference until you have mastered its basics, and follow the suggestions for camera care given on page 36. The few moments you spend familiarizing yourself with the camera will guarantee you the best results and increase your picture-taking enjoyment many times over.

PREPARATION FOR USE

Installing the Batteries

The exposure meter in the Photomic finder is powered by two high-performance silver-oxide batteries mounted in the battery chamber in the baseplate of the camera. To install the batteries, first remove the battery chamber cover (turn it 90° counterclockwise using a coin or similar object); then, place two 1.5V silver-oxide (button-cell type) batteries in the chamber, making sure that the plus (+) side of each unit faces out. After inserting and properly seating the batteries, replace the cover and lock it to secure the assembly.

Note: Remove the batteries when the camera is not to be used for a long period; this will prevent leakage within the camera. Also, keep the camera as warm as possible when operating under cold-weather conditions; otherwise, the batteries may fail to function. (See "Tips on Camera Care" on page 36 for additional information.)



Checking the Batteries

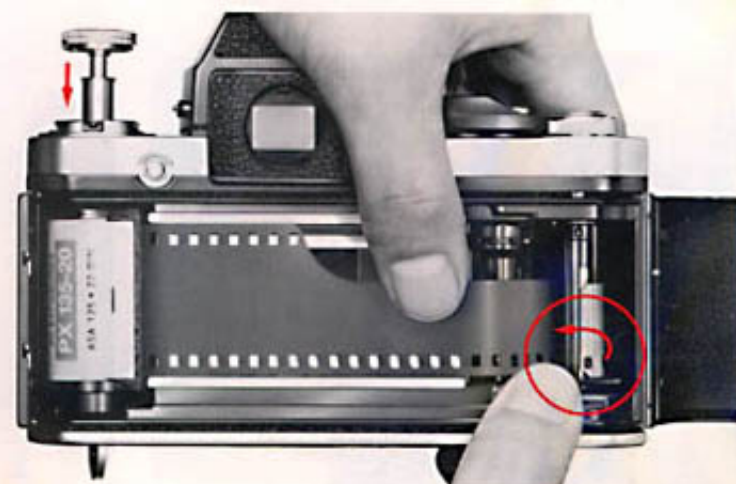
The camera's film-advance lever serves as the ON-OFF switch for the Photomic finder. To check battery power, pull the lever out just far enough to uncover the red meter ON index on the top of the camera, press the power check button and check the meter window at the center of the finder for indication of the power level. If the needle within the window swings to the right edge of the front notch (or beyond), battery power is sufficient. If the needle fails to swing, battery positioning should be checked; then, if the needle still fails to move, replace batteries.



Loading the Film

Fold out the O/C key at the baseplate of the camera and turn it counterclockwise 180° until the arrow points to the "O" (open) mark and the camera back pops open. Pull up the rewind knob as far as it will go, and drop a standard film cartridge or a special Nikon reloadable cassette into the left-hand film chamber with the film leader aligned along the film guide rails. After positioning the cartridge and film leader properly, push the rewind knob down to hold the cartridge in

place and insert the end of the film leader into any of the slots in the film take-up spool. If necessary, release the shutter and, then, stroke the film-advance lever slowly to make sure that the leader winds smoothly on the spool and that the film edge perforations engage with the film sprocket roller. When satisfied that the film is properly feeding and is traveling correctly along the film guide rails, close the camera back and return the O/C key to its normal storage position. (Also, see "Tips on Camera Care" on page 36.)



PREPARATION FOR USE — continued

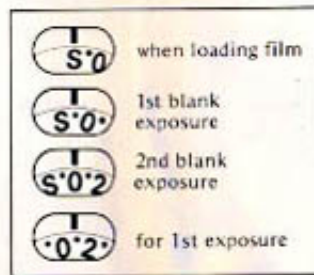
Prior to Shooting

Fold out the rewind crank and turn it gently in the direction of the engraved arrow until you feel a slight tension; this tension indicates that there is no more slack in the film cartridge. (Be sure not to rewind the film back into the cartridge.)

Advance the film and make two blank exposures to dispose of the initial portion of the film exposed during loading (for film advance operation, see page 11). While

advancing the film, check that the rewind crank turns in the direction opposite the arrow. Crank rotation indicates that the film has been loaded properly and is being advanced. Then, fold the crank flat for storage.

After advancing the film two frames to dispose of the initial portion of the leader, the frame counter at the upper right of the camera will indicate "0"; now, advance the film one more frame to prepare the camera for taking the first exposure.



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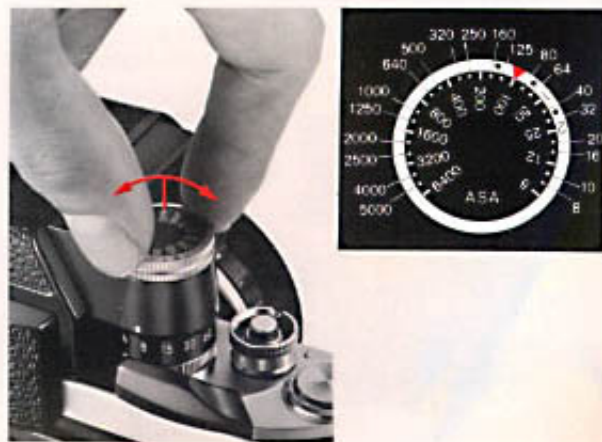
Memo Holder

A special holder is provided on the camera back for convenient storage of information pertinent to the photography. A piece of paper or the end-flap torn from the film carton can be inserted to serve as a reminder of the film type, film speed and number of exposures.



Setting the Film Speed

The camera's exposure meter must be adjusted to the speed of the film in use to ensure correct measurement; thus, a film-speed scale (ASA graduations) and an index ring are provided on the finder. To adjust, lift the milled ASA film-speed index ring and turn it until the red index triangle is aligned with the ASA value for the film in use. The meter is sensitive across the full range of from ASA 6 to ASA 6400. The film-speed dial has two dots between each pair of numbers for intermediate settings such as 64, 80, 125, etc.



OPERATION OF CAMERA CONTROLS

Setting the Shutter Speed

The Nikon F2A Photomic camera can be set to the desired shutter speed either before or after the shutter is wound. Speeds of from 1 second to 1/2000 second are set via the shutter-speed selector fitted on the finder; the selector is also provided with a "B" setting for longer time exposures. To set the shutter speed, turn the selector until the desired speed is aligned with the white dot; when aligned with settings of from 2 to 2000, the actual shutter speed will be a fractional value of from 1/2 second to 1/2000 second. The red line provided between the 1/60 sec. and 1/125 sec. settings indicates 1/80 second—the fastest shutter speed providing X synchronization for use with electronic flash units. When more precise settings are required, intermediate shutter speeds

of from 1/80 sec. to 1/2000 sec. are usable. At the "B" setting, the shutter speed remains open as long as the shutter-release button is depressed. (See "Flash Synchronization" on page 34 for additional information on flash photography.)

Setting the Aperture

The ring fitted at the base of the lens adjusts the size of the aperture (or opening) in the iris diaphragm. To pre-set the lens aperture, turn the aperture ring until the desired f/number setting on the scale is aligned with the index mark provided on the lens. The iris diaphragm can also be set to intermediate apertures between the click-stop settings for more precise exposures.

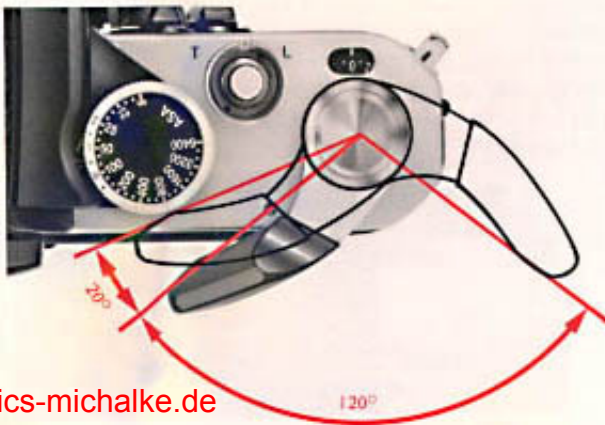
Film-Advance Lever

The film-advance lever simultaneously advances the film, cocks the shutter and operates the frame counter. It also switches on the exposure meter in the Photomic finder. To advance the film, stroke the lever with the right thumb in a single stroke (or series of strokes) totaling only 120°. A built-in locking device prevents the shutter from being released unless it is fully cocked and the film advanced a full frame. At the completion of film advance, release the lever and it will return to the 20° standoff position ready for shutter release.

Note: Do not apply pressure to the film-advance lever while making an exposure.

Frame Counter

The frame counter operates automatically to show how many frames have been exposed. When the camera back is opened for loading, the counter is reset to the "S" (start) position, two frames before "0". Once the camera is loaded and the back closed, each film-advance/shutter-release sequence will cause the frame counter to advance one position until the maximum 20 or 36 frames have been exposed. The dial of the frame counter is calibrated with dots (for odd numbers) and figures (for even numbers), and with settings of "S," "12," "20" and "36" in red.



OPERATION OF CAMERA CONTROLS – continued

T-L Fingerguard

The shutter-release button of the Nikon F2A Photomic camera is fitted with a fingerguard that also doubles as the shutter operation mode selector. Set to the middle position, the fingerguard provides for normal shutter release via the shutter button. To lock the shutter to prevent accidental release, lift up and turn the fingerguard until the index dot aligns with the "L" (lock) marking. For time exposures preset via the camera's built-in self-timer, lift up and turn the fingerguard until the index dot aligns with the "T" (time) marking. (See "Time Exposures" on page 26 for details.)



Self-Timer

The built-in self-timer can be used to trip the shutter after a delay of from 2 to 10 seconds. The numbers marked on the timer scale indicate the delay in seconds. To take a picture using the self-timer to fire the camera, first set the aperture and shutter-speed controls, advance the film, and cock the self-timer by turning its lever downward until the index line (on the lever) aligns with the figure (on the scale) corresponding to the desired number of seconds delay; then, simply press the small button just above the timer to start the countdown, with shutter release occurring at the completion of the cycle. Note that the self-timer can be set either before or after advancing film; also, if you decide not to use the self-timer after setting it, simply use the shutter button in the normal way to make the next exposure and to release the self-timer for resetting to the off position. The self-timer may not be used at the "B" shutter-speed dial setting.



UNLOADING FILM

When the frame counter indicates that the last exposure has been made, or when the film-advance lever can no longer be stroked, the roll of film has been fully exposed and it should be removed.

To unload the camera, first press the rewind button on the camera baseplate; then, unfold the rewind crank, pull it up to the first detent position and turn it in the direction of the engraved arrow, using a smooth, even pressure. When no more tension is felt and the film advance indicator (the colored dot on the rewind button) stops rotating, the film leader has left the take-up spool and the camera back may be opened. After opening the

camera back, pull the rewind knob up as far as it will go and remove the film cartridge. Note that as the film advance lever is stroked for the next exposure, the rewind button will be released to engage the film-advance mechanism.

Caution: Be careful not to push the rewind button during film-advance operation. Should this occur, the film transport will temporarily stop and double exposure may result.

Note: The camera back can be removed from the body by depressing the locking catch on the hinge. Removal of the camera back is necessary when the camera is used with any accessory back such as the 250 Magazine Back MF-1 or the Camera Back MF-3, both for motorized photography.



HOLDING THE CAMERA

Camera shake is one of the most common causes of unsharp pictures, especially at slow shutter speeds. Learn to hold the camera correctly and practice steady shutter squeezing. The photos show the best ways to hold the camera for sharp pictures.

Wrap the fingers of the right hand around the camera body so that the index finger rests comfortably on the shutter-release button and the thumb fits between the camera body and the film-advance lever. Position the camera so that the eye looks through the center of the viewfinder. Cradle the camera in the left hand for additional support, with the left thumb and index finger grasping the focusing ring. From this basic stance, the camera can be properly supported and easily switched from horizontal to vertical format shooting. As a general rule, the slowest shutter speed you should use with the camera hand-held is equal to the reciprocal of the focal length of the lens in use (e.g., for a 500mm lens, use 1/500 sec.; for a 105mm lens, use 1/125 sec.). However, as the ability to hold the camera steady may vary with each individual, we recommend that you experiment. In general, the higher the selected shutter speed, the sharper the picture.



SHUTTER RELEASE OPERATION

For sharp pictures, correct shutter releasing is just as important as steady camera holding. After advancing the film to a fresh frame, the camera is set for shutter release via the button provided at the upper right. When taking the picture, hold the camera steady (as explained previously); relax and depress the button using a steady even pressure to release the camera's shutter—remember, a quick-jab of the finger will cause camera movement and may result in a blurred photograph.



Operation via Cable Release

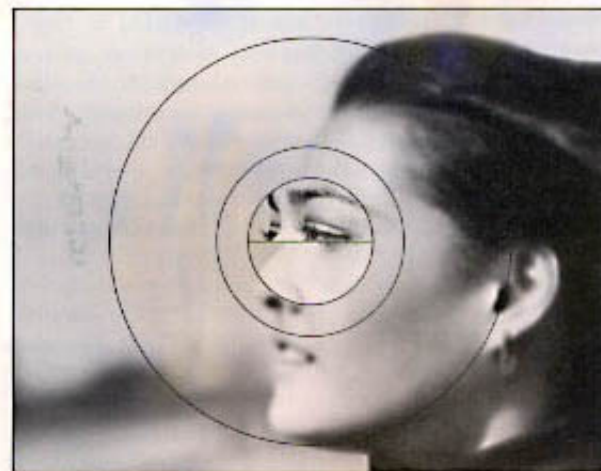
The shutter-release button can also be operated via a cable release or similar accessory attached via the threaded mount provided. With the cable release, operation is more vibration-free and often leads to sharper images under critical shooting situations such as photomicrography, time exposure, etc. To attach the cable release (Nikon-mount models AR-2, etc.) to the camera, screw the threaded cable connector onto the mount provided around the button. The shutter is then tripped by depressing the release plunger.



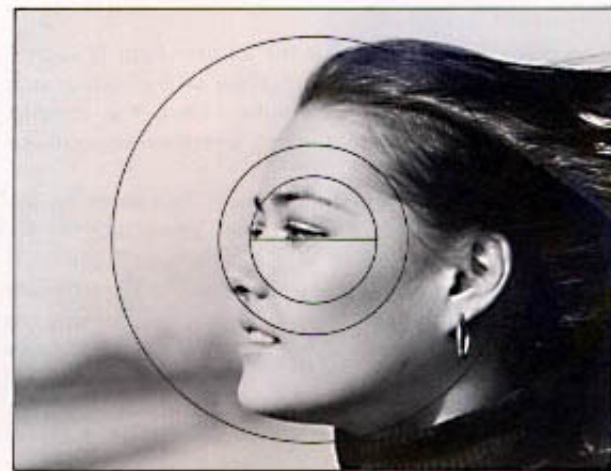
Focusing is done at full aperture with Nikkor lenses fitted with an automatic diaphragm. This technique provides the brightest possible images on the focusing screen for easy focusing and composing. It also minimizes depth of field so that the image snaps in and out of focus distinctly.

The Nikon Type K screen comes with the camera as standard equipment. To focus, turn the focusing ring on the lens until the two halves of the rangefinder image coincide to form a single, crisp image; when using the microprism ring, turn until the microprism pattern shifts to a sharp and crisp image. You can also focus on the matte field that surrounds the rangefinder/microprism central area.

The lens can also be prefocused using the distance scale engraved in both meters and feet on the lens barrel. Simply turn the focusing ring until the desired camera-to-subject distance (as measured or estimated) is lined up with the distance scale index on the lens barrel. This technique is useful for candid shots of elusive subjects when time does not permit through-the-lens focusing.



Out of focus



In focus

FOCUSING—continued

Infrared Photography

The plane of sharpest focus for infrared light is slightly more distant than its counterpart for visible light as seen through the camera's viewfinder. Thus, for sharpest focus in infrared photography, adjustments must be made.

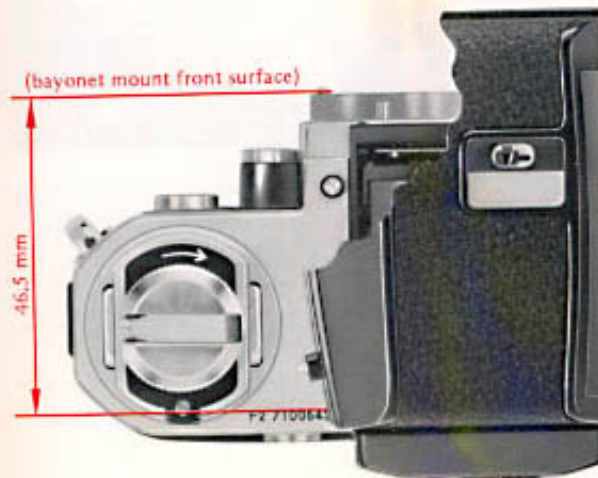
To compensate for this shift in focus, first focus the image sharply through the viewfinder. Then, turn the focusing ring counterclockwise until the point focused is aligned with the red dot (or line) provided on the lens barrel. For example, in the picture below, the lens has been focused for infinity (∞) infrared shooting. Note that when lenses having a focal length of 50mm or less are used stopped down to f/8 or below, no adjustment is necessary due to the large depth of field available.

Note: Some new optics using Nikon's Extra-low Dispersion (ED) glass, as well as reflex (catadioptric) lenses, do not require refocusing for infrared photography. Refer to individual lens instruction manuals for details.



Film-Plane Indicator

Under various precision shooting situations, such as close-up photography, it is often necessary to measure the film-to-subject distance to ensure the sharpest focus. The camera's film plane is indicated by the top edge of the figures making up the serial number at the upper left of the camera body. Note that these figures are 46.5mm from the front surface of the camera's lens mounting flange.



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DEPTH OF FIELD

Depth of field refers to the zone of acceptable focus extending in front of, and behind, the plane of sharpest focus. Within this zone, image blur is negligible and everything may be considered as being in sharp focus. Three factors greatly influence the depth of field: the focal length of the lens in use, the camera-to-subject distance, and the taking aperture. The smaller the aperture and the shorter the focal length of the lens, the greater the depth of field. Also, the closer the subject, the shallower the depth of field. These three factors can operate independently or in conjunction with one another, with any one factor capable of partially canceling the effects of the other. Thus, by careful selection and use, the photographer can exercise wide creative control over the final picture.

Depth-of-Field Preview Button

As most Nikkor lenses are operated at full aperture for ease of focusing, visualization of the depth of field at the shooting aperture may be difficult. Thus, the camera's depth-of-field preview button often can come in handy. The depth-of-field preview button lets you check (or "preview") the zone of sharpness at any time before (or after) shooting. Simply by depressing the button, the lens is stopped down to the preselected aperture to allow you to see how much background and foreground is in or out of focus.



DEPTH OF FIELD — continued

Depth-of-Field Indicators

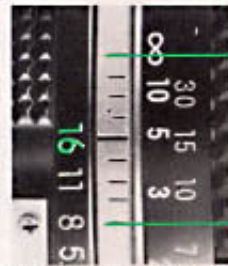
Depth of field can be read directly from the distance scale in meters or feet with the aid of the color-coded depth-of-field indicators engraved on the lens barrel. Each pair of colored lines on either side of the central distance scale index line corresponds to *f*/numbers of the same color on the aperture scale. To find the depth of field at a particular aperture, first focus the lens on the subject while looking through the viewfinder. Then check the numbers on the distance scale to determine the zone of focus for the aperture in use. The three photos shown clearly depict the changing depth of field; with the photo to the right, the field is shallow at the *f*/4 setting, while the photo at the far right shows a depth of field extending from approximately 2.7m (9 ft) to infinity (∞).



Lens set at *f*/4: Shallow depth of field centered on the main subject.



Lens at *f*/8: Depth of field extended in front of/behind the main subject.

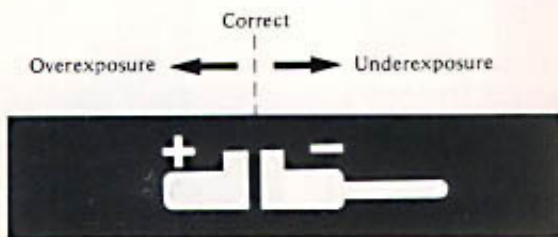


Lens at *f*/16: Sharp focus is extended to encompass the entire foreground and background.



EXPOSURE MEASUREMENT

The exposure meter of the F2A Photomic finder utilizes Nikon's through-the-lens center-weighted exposure measurement at full aperture. The meter reads the light over the entire focusing screen but favors the central 12mm-diameter area, while taking the entire area into consideration. This allows you to make precise readings of the selected subject area, and results in more balanced overall exposures.



Determining Exposure

The finder of the Nikon F2A Photomic camera features an exposure meter display visible within the viewfield for easy-to-read operation while viewing and focusing. Additionally, the selected shutter speed and lens aperture settings are visible on either side of the meter display to allow the photographer to check at a glance the camera settings in use.

To determine the correct exposure with the Nikon F2A Photomic, perform the following: Switch ON the meter by moving the film-advance lever to the 20° standoff position; with this action, the meter will swing to indicate the exposure condition of overexposure (needle to the left), correct exposure (needle to the center) or underexposure (needle to the right). If the needle moves to the left, increase the shutter speed or decrease the aperture until the needle is centered; if the needle remains at the right, decrease the shutter speed or increase the aperture until the needle is centered. The figure on the left indicates the various meter needle indications. Note that the same metering operation may be performed using the external meter window positioned atop the finder.



EXPOSURE MEASUREMENT – continued

Exposure Control

The amount of light reaching the film plane is determined by a combination of the lens aperture and the shutter speed. Since the two are interrelated, different combinations will give the same exposure. A 1-step change in the shutter speed, or a 1-stop change in the aperture setting, will either halve or double the exposure. For example, a shutter speed of 1/125 second passes twice as much light as a setting of 1/250 second, and only half as much light as a speed of 1/60 second; for an aperture setting of f/11, twice as much light as f/16, and half as much as f/8, is passed. This feature characterizes the operation throughout the available range of shutter speeds and aperture settings. With this in mind, it's easy to see that if a correct exposure for a scene is 1/125 at f/11, then 1/60 at f/16 or 1/250 at f/8 will be equally acceptable.

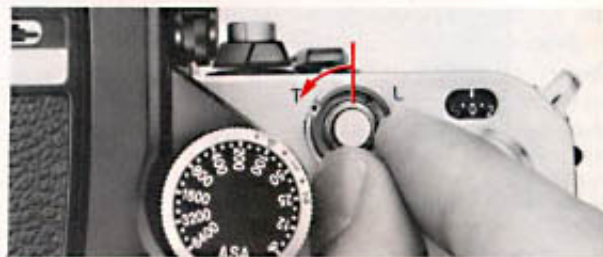
The best combination for your needs will depend on the results desired. Use fast shutter speeds to freeze motion, or use slow speeds to produce deliberate and creative blur. Small apertures give greater depth of field, while large apertures restrict sharp focus to the main subject. The creative selection of both speeds and apertures will greatly enhance your photography.

Metering Range

If the Photomic finder's meter needle fails to center, even after all possible lens-aperture/shutter-speed combinations have been tried, then the available light is too bright or too dim for the meter's range. To correct this situation, several measures may be taken, as follows: Switch to a new film (either higher or lower ASA) that more closely matches the available light; mount a neutral density filter on the lens to decrease the light reaching the film plane; or use artificial lighting (i.e., an electronic flash unit) to increase subject illumination. Remember, too, that the lens in use can greatly influence suitability for bright or dim shooting. For example, a 50mm f/1.4 lens (with ASA 100 film) couples from EV 1 (f/1.4 at 1 second) to EV 17 (f/8 at 1/2000 second) for excellent low-light performance; on the other hand, a 200mm f/4 lens proves more usable at bright-light levels, coupling (with ASA 100 film) to EV 20 (f/22 at 1/2000). Thus, choose the lens carefully to match the existing lighting conditions.

Extra-long Exposures

Although shutter speed settings are only provided to 1 second on the camera's shutter-speed dial, longer speeds to 10 seconds are available via operation of the camera's self-timer in conjunction with the "B" setting on the shutter-speed dial. For exposures of from 2 to 10 seconds, perform the following: Set the shutter speed dial to the "B" setting; lift up and turn the T-L finger-guard so that the guard's index dot aligns with the "T" setting; and turn the self-timer lever downward until the index line on the lever aligns with the figure on the scale corresponding to the desired exposure time. Having set the camera, simply depress the shutter release button to make the exposure, with the shutter remaining open for the time interval set on the self-timer. At the completion of the exposure, set the T-L finger-guard to the middle position to return the shutter release button to its normal (up) position. (Refer to the accompanying photos for details.)



EXPOSURE MEASUREMENT — continued

Time Exposures

The Nikon F2A Photomic offers time exposure shooting convenience via built-in controls which enable long exposures without the need for accessory equipment. To make an exposure longer than 10 seconds, set the shutter-speed selector to "B" and turn the T-L finger-guard to "T" as described in "Extra-long Exposures." Advance the film and press the shutter-release button to open the shutter. As long as the fingerguard remains set to "T," the shutter will remain open. When returning the fingerguard to the normal center position to close the shutter, be careful not to move or shake the camera, as a blurred image may result.

Note: Operation with a Nikon cable release (see page 15) can also provide for time exposures via the release's built-in locking function. For operation in these cases, leave the T-L fingerguard in the center position and trigger the camera with the shutter speed dial set to the "B" setting.



High-Contrast Lighting Situations

When there are substantial brightness differences between the main subject and the background, unimportant bright spots or dark spots can adversely influence the finder reading, and thus the final exposure. To prevent under- or overexposure of the main subject under these shooting conditions, some corrective action must be taken to ensure proper exposure of the main subject. Fortunately, the finder's center-weighted TTL metering action simplifies adjustments, making for quicker camera operation and more accurate final results.

To compensate for an excessively bright or dark background, target the main subject in the center of the focusing screen while performing metering; this action ensures that the main emphasis of the meter reading will be on the chosen subject. Then, after completing aperture and shutter speed adjustments, recompose to the desired picture composition and make the exposure without readjusting the camera controls. For example, when shooting landscapes, it is often advisable to aim the camera slightly downward during exposure measurement to eliminate the effects of a bright expanse of sky; without such compensation, the landscape may appear underexposed in the final print. Also, for backlit subjects, it may be necessary to move closer to the subject to ensure a proper reading.



- Metering with a bright area in the center will cause underexposure of the main subject.



- For correct exposure, first measure the main subject; then, recompose and shoot.

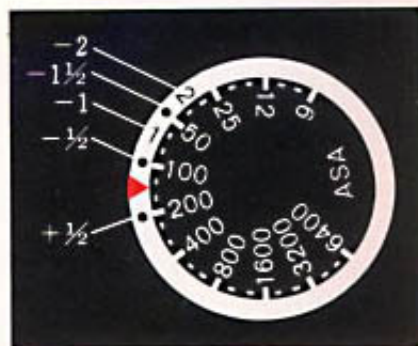


With some Nikkor lenses, full-aperture exposure measurement is not possible, either because the lens has no automatic diaphragm, or because the lens does not couple with the finder's meter; with certain accessories, too, lens/finder coupling is not possible, thus, preventing full-aperture measurement. However, the camera's Photomic meter can still be used for exposure measurement via the stop-down method. Before mounting the lens (or accessory) on the camera body, push the meter coupling lever up and to the right; with this action, the lever will remain locked up for stop-down exposure measurement (to release the lever after removing the lens/accessory, push the release to the right as described in "Coupling Lever Lock/Release Operation" on page 39). After setting the finder, mount the lens or lens/accessory combination on the camera, switch on the meter by moving the film-advance lever to the standoff position, and then set the controls for correct exposure as follows:

For automatic diaphragm lenses with no coupling ridge, set the camera to the desired shutter speed; then, depress the depth-of-field preview button to stop down the lens diaphragm and, while holding the button depressed, adjust the aperture ring until the meter needle indicates correct exposure. Be sure to release the depth-of-field button prior to making the exposure.

For fixed-aperture lenses, such as Reflex-Nikkor lenses, simply adjust the shutter-speed selector until the meter needle indicates correct exposure. For convenience, shutter speeds can be set at intermediate settings in the 1/80 sec. to 1/2000 sec. speed range for precise exposures. If the meter indicates continuous overexposure, use a neutral density filter or slower film. If continuous underexposure is indicated, supplementary lighting or a faster film is necessary. This technique is also suitable for photography using a telescope or microscope.

For bellows units, extension rings and preset lenses, set the camera to the desired shutter speed; then, stop down the lens manually until the meter needle indicates correct exposure.



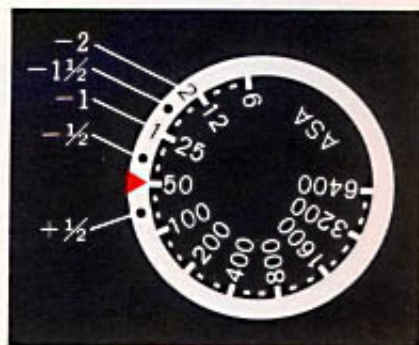
Adjustments for Focusing Screens

Light transmission properties vary somewhat with focusing screen type, thus occasionally requiring exposure correction to compensate for the combined effects of the lens/screen combination in use. The numbers listed in various blocks of the table on the opposite page denote the amount of correction necessary in f/stops. To adjust the camera's finder for the indicated f/stop correction, lift and turn the ASA film-speed index ring until the ASA value for the film in use is aligned with the appropriate mark engraved on the ring. In the example figure shown, ASA 100 is aligned with the $-1/2$ mark to provide the correction required when using the Type C screen with the Nikon F2A Photomic camera and the Fisheye-Nikkor 6mm f/2.8 lens, as indicated in the table. (When "0" is indicated in the table, no compensation is required.)

- = Exposure measurement via full-aperture method.
 - = Exposure measurement via stop-down method.
 - = Exposure measurement not possible; lens/screen combination permits only focusing operation.
- Blank space indicates lens/screen combination cannot be used.

Lens	Screen	A/A	B	C	D	E	G1	G2	G3	G4	H1	H2	H3	H4	I	K/P	M	R
Fisheye	6mm f/2.8	0	0	-1/2	-1/2	0	0	0			0	0			0	0		0
	8mm f/2.8	0	0	-1/2	-1/2	0	0	0			0	0	0		0	0		0
	16mm f/5.5	0	0			0	-1/2				0				0	0		0
	16mm f/5.6	0	0			0		-1/2			0	-1/2			0	0		0
	16mm f/8	0	0			0	-1				0				0	0		0
Wideangle	28mm f/2.8	0	0			0		0			-1/2	0			0	0		0
	28mm f/2.8	0	0			0	-1/2	+1/2			+1/2	0			0	0		0
	28mm f/2.8	0	0			0	-1/2				0				0	0		0
	28mm f/2.8	0	0			0	-1	+1/2			0	0			0	0		0
	28mm f/2.8	0	0			0		+1/2	0		+1/2	0			0	0		0
Normal	35mm f/1.4	0	0			0		+1/2			0				0	0		0
	35mm f/2	0	0			0	+1/2				+1/2	+1/2			0	0		0
	35mm f/2.2	0	0			0		0			0				0	0		0
	35mm f/2.8	0	0			0		+1/2			+1/2	+1/2			0	0		0
	35mm f/2.8	0	0			0		0			+1/2	+1/2			0	0		0
Telephoto	135mm f/2.8	0	0	0	0	0		-1/2							0	0		0
	135mm f/2.8	0	0	0	0	0		0			-1/2	-1/2	-1	-1/2	0	0		0
	135mm f/2.8	0	0	0	0	0		-1/2							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		-1/2							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
	135mm f/2.8	0	0	0	0	0		0							0	0		0
Zoom	28-45mm f/4.5	0	0			0					-1/2				0	0		0
	41-85mm f/3.5	0	0			0		-1/2				-1/2			0	0		0
	50-100mm f/4.5	0	0			0					-1/2				0	0		0
	ED 50-100mm f/4.5	0	0			0					-1/2				0	0		0
	ED 50-100mm f/4.5	0	0			0					-1/2				0	0		0
PC	35mm f/2.8	0	0			0									0	0		0
	35mm f/2.8	0	0			0									0	0		0
	35mm f/2.8	0	0			0									0	0		0
	35mm f/2.8	0	0			0									0	0		0
	35mm f/2.8	0	0			0									0	0		0
Macro	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
Reflex	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
Telephoto	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0
	105mm f/2.8	0	0			0									0	0		0

*Internal focusing type



Adjustments for Film Compensation

Some exposure correction may be necessary when certain types of films are used for copying or photomicrography applications; the amount of correction required, however, will depend on the type of film and the specific application. The following table lists the exposure corrections in f/stops required for various film/shooting requirements. Compensation is possible by adjusting the shutter speed or the aperture by the indicated amount; also, compensation is possible by adjusting the ASA film-speed index ring. In the example shown, the index ring is set so that the red mark is aligned with ASA 50; this setting is the correct position to achieve a one-stop increase in exposure (three scale graduations equal one stop) as required when performing photomicrography (see table) using ASA 100 Panchromatic film.

Original Type of film	Repro-copying & slide-copying			Photo- micrography
	B&W color photo	Letters or figures on light background	Letters or figures on dark background	
Panchromatic film for general use	No compensation necessary	+1 1/2 stops	- 1/2 stop	+ 1 stop

MULTIPLE EXPOSURES

Intentional multiple exposures for creative effects can be made with the Nikon F2A Photomic camera. To take a multiple exposure, perform the following: Make the initial exposure, depress and hold the rewind button on the camera's baseplate, and stroke the film-advance lever to cock the shutter for the next exposure on the same frame; for each additional exposure on the frame, repeat the same procedure. At the completion of multiple exposure operation, stroke the film-advance lever once more to release the rewind button, cover the lens and make one blank exposure, and then resume normal operation. Note that during multiple exposure operation, the camera's shutter speed can be changed to any setting for the desired shooting effect. Also, throughout the multiple exposure operation, the camera's frame counter will remain at the same setting as long as the rewind button is held depressed while stroking the film-advance lever.



MIRROR LOCKUP

The reflex mirror must be locked up when using either the Fisheye-Nikkor 6mm f/5.6 or the OP Fisheye-Nikkor 10mm f/5.6 lenses, since their rear elements protrude into the camera body and interfere with mirror movement. Locking-up the mirror is also necessary when shooting with a motor drive unit at its top speed setting. To lock up the mirror, depress and hold the depth-of-field button and turn the mirror lock-up lever downward until the white dot is aligned with the white index line. The mirror will remain in the up position until the lever is returned to the normal position.



FLASH SYNCHRONIZATION

The Nikon F2A Photomic camera is designed to synchronize with most types of flashbulbs at almost all shutter speeds and with electronic flash at speeds to 1/80 second. The table below shows which shutter speeds may be used with different types of flashbulbs.

Flashbulb	2000	1000	500	250	125	(X)180	90	30	15	8	4	2	1	0
FP														
M														
MF														
Speedlight														

Green Synchronized Red Cannot be used

No special adapters are necessary when using the Nikon F2A Photomic camera with the Flash Unit BC-7 or with the Speedlight Unit SB-7E or SB-5. For other Nikon flash units with ISO-type hot-shoe contacts, mounting on the camera is via the Flash Unit Coupler AS-1; with the AS-1, no sync cord is required, as it provides full connection via the camera's hot-shoe contact.

Caution: When the reflex mirror is locked in the up position, the shutter will not synchronize with flashbulbs at speeds faster than 1/80 second.

READY-LIGHT

The camera's Photomic finder has a ready-light built in for use with Nikon Speedlight Units. This unique feature provides for greater ease of operation during flash photography, as the photographer need not remove his eye from the eyepiece to check if the Speedlight unit is ready for the next exposure; this built-in lamp lets the photographer know the condition of the flash (either "ready" when on, or "not ready" when off) at all times even while viewing. (For additional information, see the instruction manual supplied with the Speedlight.)



TIPS ON CAMERA CARE

Good camera care is primarily common-sense care. Treat your Nikon F2A Photomic camera as you would any other precision optical instrument and it will provide you years of trouble-free service. Although ruggedly constructed, your camera may be damaged by shock, heat, water or misuse. By observing the following tips, you will be assured of the longest possible service life.

- Fingerprints or dust on lens/prism surfaces will make viewing uncomfortable, and will generally contribute to a deterioration of optical performance. Clean lens surfaces often using a quality lens tissue or a soft lens brush; stubborn smudges should be wiped with lens tissue moistened with methyl alcohol or a quality lens cleaner. Never clean lens surfaces using cloth, paper towels, ordinary tissue, or any other material that might scratch the lens surface; also, use cleaning fluids sparingly to prevent seepage, and resulting damage to mechanical components.
- When interchanging lenses, finders, etc., your camera is susceptible to the entry of dust or other contaminants. It is a good idea to clean moving body parts frequently to prevent the build-up of dust; here, a lens brush and blower will come in very handy. When blowing out the interior of the camera, however, avoid contact with the shutter curtains, as they are easily damaged. Also, wipe the outer body surfaces using a silicone-impregnated cleaning cloth to remove fingerprints, etc. quickly and easily. (Note that a silicone-impregnated cleaning cloth should **never** be used to clean the lens surfaces.)
- When exposed to sudden temperature changes or high humidity, condensation may form on the lens surfaces. After using in these

situations, always dry the camera thoroughly (and slowly) at room temperature and, then, store in a cool, dry location. Remember that failure to dry out the camera may result in the growth of fungus on lens surfaces—a condition that will render your camera useless.

- Should your camera be accidentally dropped on the floor or in water, take it to your dealer immediately for servicing. Thorough servicing can be guaranteed only at an authorized dealer.
- Always store the camera in an ever-ready case or compartment case when not in use. And be sure that the lens cap is attached to the lens. Do not leave film in the camera for a long period of time, and never store the camera with the shutter or self-timer cocked.
- Never lubricate any part of the camera. Lubrication should be left to an authorized service center. Prior to a holiday trip or important shooting assignment, test your camera (including changing batteries, if necessary) for proper operation.
- Observe normal battery handling procedures for maximum performance at all times. Be sure to: Clean batteries periodically (wiping with a rough cloth will remove residues that might otherwise impede performance); install batteries properly, checking for proper polarity; remove batteries when not using the equipment for an extended period; change weak batteries promptly to prevent leakage within the camera; store unused batteries properly (in a cool, dry location) to maximize service life; dispose of batteries properly (do not burn); and keep out of the reach of children. For details regarding battery performance, refer to the original manufacturer.

CHANGING THE LENS

To remove the lens from the camera body, press the lens release button and, holding the button depressed, twist the lens clockwise as far as it will go. With this action, the lens will come loose and can be lifted out.

To mount a lens fitted with a meter coupling ridge, perform the following: Check that the finder's meter coupling lever is released (see "Coupling Lever Lock/Release Operation" on page 39 for details); position the lens in the camera's lens mounting flange so that the mounting indexes on the lens and camera body are aligned; and, then, twist the lens counterclockwise until it clicks and

locks into place. These steps provide for full mounting of the lens, while simultaneously indexing the lens' maximum aperture setting to the camera's Photomic finder.

To mount a lens not fitted with a meter coupling ridge, first lock the meter coupling lever in the up position (again, see "Coupling Lever Lock/Release Operation" for details). Then mount the lens and lock it into position as explained previously. For operation with lenses not fitted with a meter coupling ridge, stop-down measurement (as described on page 28) is required.



Coupling Lever Lock/Release Operation

The camera's Photomic finder is fitted with a meter coupling lever that provides for coupling between the finder's metering circuit and the lens' meter coupling ridge. When the camera body is used with lenses offering automatic maximum aperture indexing, the lever remains in the normal position. However, when the camera body is used with lenses and/or accessories not provided with this feature, the lever must be locked up to permit exposure measurement via the stop-down method. To lock up the lever prior to mounting the lens, simply push upward and to the right until the lever clicks and locks into position. To release the lever for operation with a lens or accessory capable of automatic maximum aperture indexing, simply slide the coupling lever release (located just above the lever) to the right until the lever returns to its normal lowered position; then, mount the lens as explained previously.

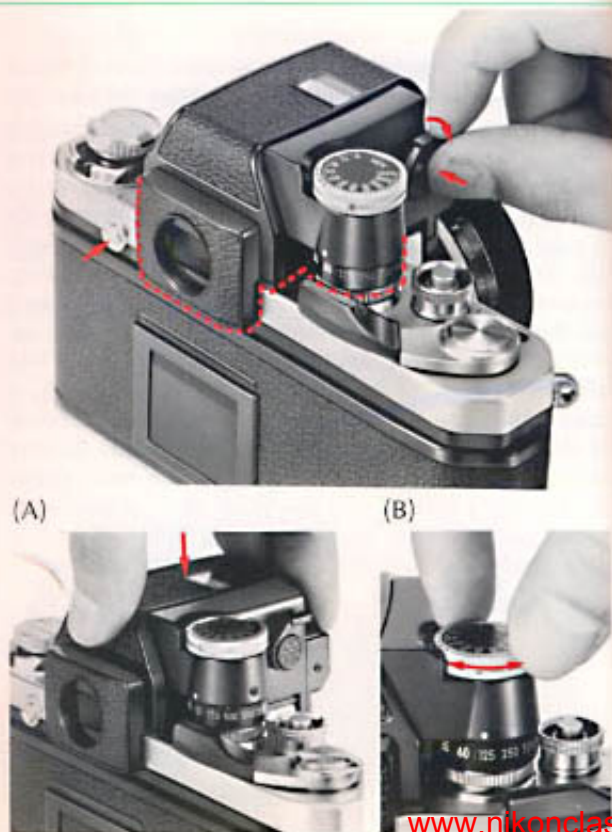


CHANGING THE VIEWFINDER

In addition to the F2A Photomic finder included with the camera, four other interchangeable viewfinders are available. To remove the F2A Photomic finder to mount one of the other units, press the finder release lever inward and rotate toward the front (this action releases the mounting clamps); then, depress the finder release button at the rear of the camera body and lift the finder out of the camera.

To attach a viewfinder other than a Photomic-type model, set it in position and press down firmly until it clicks and locks into place on the camera.

To attach a Photomic-type model (including the F2A Photomic finder included with the camera), first set the aperture ring of the lens (if mounted) to the maximum aperture setting; then, gently position the finder on the camera and firmly press it down until it clicks and locks into place (see Photo A). Once in place, turn the finder's shutter-speed selector left or right until it engages with the camera's shutter-speed dial and the two can be turned in tandem (see Photo B).



CHANGING THE FOCUSING SCREEN

Nineteen different types of focusing screens are available for use with the Nikon F2A Photomic camera, each designed to meet specific focusing requirements. The Nikon Type K screen comes with the camera as standard equipment.

To change the focusing screen, first remove the finder as described on the preceding page. Then, turn the camera body upside-down and press the finder release button a second time to release the screen.

To mount a screen, simply place it in position with the flat side facing downward and the "Nikon" mark to the front of the camera. Then, press the finder release button and the screen will drop into place.

Caution: When changing the focusing screen, be careful not to touch the optical surfaces. When removing the screen, it is advisable to place a clean, dry cloth over the palm of the hand to catch the screen as it drops free of the camera.



CHANGING THE FOCUSING SCREEN – continued

Focusing Screen Selector Guide



Type A: Matte Fresnel field with 3mm circular split-image rangefinder spot and 12mm circle. Rapid and accurate focusing. Excellent for general photography.
Type L: Same as Type A screen but with split-image rangefinder line at a 45° angle. Best for subjects with horizontal lines.



Type B: Matte Fresnel field with 12mm fine-ground matte focusing spot in the center. Good for general photography, especially with long lenses.



Type C: Fine-ground matte field with 4mm clear spot and cross hair. For photomicrography, astrophotography and other high-magnification applications, and for parallax focusing on aerial images.



Type D: Overall fine-ground matte field. For specialized close-up photography and for use with long lenses.



Type E: Matte Fresnel field with 12mm fine-ground matte spot and etched horizontal and vertical lines. Ideal for architectural photography.



Type G: Clear Fresnel field with extra-bright 12mm microprism focusing spot for viewing and focusing in poor light. Four models (G1-G4) are available corresponding to specific focal length lenses. Depth of field cannot be observed.



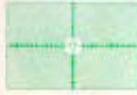
Type H: Clear Fresnel field with microprism focusing pattern over the entire screen area. Permits rapid focusing on any part of the screen with optimum edge-to-edge brightness in poor light. Available in four models (H1-H4) corresponding to particular focal length lenses.



Type J: Matte Fresnel field with central microprism focusing spot and 12mm circle. Good for general photography.



Type K: Combination of Type A and J screens. Matte Fresnel field with 3mm split-image rangefinder spot surrounded by 1mm-wide microprism doughnut. Rapid and accurate focusing for subjects with both straight lines and ill-defined contours. Suitable for general photography.



Type M: Fine-ground Fresnel field with 5.5mm clear spot and double cross hair for use in parallax focusing on aerial image, plus millimeter scales for calculation of individual magnification of objects or for measuring objects. Brilliant image in dim light. Suitable for close-ups, photomicrography and other high-magnification applications.



Type P: Same as Type K, but with split-image rangefinder line at a 45° angle and etched horizontal and vertical lines as an aid to composition. Rapid and accurate focusing for subject with horizontal or vertical lines or ill-defined contours. Suitable for general photography.



Type R: Same as Type A but with rangefinder prisms of sloping surfaces at a smaller angle and horizontal and vertical lines to aid proper composition. Works best with lenses having maximum aperture of from f/3.5 to f/5.6.

Focusing Screen Selector Chart

■ = Excellent

■ = Acceptable

The image is brilliant from edge to edge, but the central rangefinder, microprism or cross-hair area is dim. Focus on the surrounding matte area.

■ = Acceptable

Slight vignetting or moiré phenomenon (in the case of the microprism) affects the screen image. But the image on film shows no traces of this.

■ = Acceptable

Incompatible with any lens having a maximum aperture larger than f/2.8 since this decreases the efficiency and accuracy of the screen rangefinder. The in-focus image in the central spot may prove to be slightly out of focus on film. Focus on the surrounding matte area.

Caution: The rear surface of the screen is made of acryl resin. Special care should be taken to protect it from scratching or excessive pressure.

Lens	35mm	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	135	145	155	165	175	185	195	205	215	225	235	245	255	265	275	285	295	305	315	325	335	345	355	365	375	385	395	405	415	425	435	445	455	465	475	485	495	505	515	525	535	545	555	565	575	585	595	605	615	625	635	645	655	665	675	685	695	705	715	725	735	745	755	765	775	785	795	805	815	825	835	845	855	865	875	885	895	905	915	925	935	945	955	965	975	985	995	1005	1015	1025	1035	1045	1055	1065	1075	1085	1095	1105	1115	1125	1135	1145	1155	1165	1175	1185	1195	1205	1215	1225	1235	1245	1255	1265	1275	1285	1295	1305	1315	1325	1335	1345	1355	1365	1375	1385	1395	1405	1415	1425	1435	1445	1455	1465	1475	1485	1495	1505	1515	1525	1535	1545	1555	1565	1575	1585	1595	1605	1615	1625	1635	1645	1655	1665	1675	1685	1695	1705	1715	1725	1735	1745	1755	1765	1775	1785	1795	1805	1815	1825	1835	1845	1855	1865	1875	1885	1895	1905	1915	1925	1935	1945	1955	1965	1975	1985	1995	2005	2015	2025	2035	2045	2055	2065	2075	2085	2095	2105	2115	2125	2135	2145	2155	2165	2175	2185	2195	2205	2215	2225	2235	2245	2255	2265	2275	2285	2295	2305	2315	2325	2335	2345	2355	2365	2375	2385	2395	2405	2415	2425	2435	2445	2455	2465	2475	2485	2495	2505	2515	2525	2535	2545	2555	2565	2575	2585	2595	2605	2615	2625	2635	2645	2655	2665	2675	2685	2695	2705	2715	2725	2735	2745	2755	2765	2775	2785	2795	2805	2815	2825	2835	2845	2855	2865	2875	2885	2895	2905	2915	2925	2935	2945	2955	2965	2975	2985	2995	3005	3015	3025	3035	3045	3055	3065	3075	3085	3095	3105	3115	3125	3135	3145	3155	3165	3175	3185	3195	3205	3215	3225	3235	3245	3255	3265	3275	3285	3295	3305	3315	3325	3335	3345	3355	3365	3375	3385	3395	3405	3415	3425	3435	3445	3455	3465	3475	3485	3495	3505	3515	3525	3535	3545	3555	3565	3575	3585	3595	3605	3615	3625	3635	3645	3655	3665	3675	3685	3695	3705	3715	3725	3735	3745	3755	3765	3775	3785	3795	3805	3815	3825	3835	3845	3855	3865	3875	3885	3895	3905	3915	3925	3935	3945	3955	3965	3975	3985	3995	4005	4015	4025	4035	4045	4055	4065	4075	4085	4095	4105	4115	4125	4135	4145	4155	4165	4175	4185	4195	4205	4215	4225	4235	4245	4255	4265	4275	4285	4295	4305	4315	4325	4335	4345	4355	4365	4375	4385	4395	4405	4415	4425	4435	4445	4455	4465	4475	4485	4495	4505	4515	4525	4535	4545	4555	4565	4575	4585	4595	4605	4615	4625	4635	4645	4655	4665	4675	4685	4695	4705	4715	4725	4735	4745	4755	4765	4775	4785	4795	4805	4815	4825	4835	4845	4855	4865	4875	4885	4895	4905	4915	4925	4935	4945	4955	4965	4975	4985	4995	5005	5015	5025	5035	5045	5055	5065	5075	5085	5095	5105	5115	5125	5135	5145	5155	5165	5175	5185	5195	5205	5215	5225	5235	5245	5255	5265	5275	5285	5295	5305	5315	5325	5335	5345	5355	5365	5375	5385	5395	5405	5415	5425	5435	5445	5455	5465	5475	5485	5495	5505	5515	5525	5535	5545	5555	5565	5575	5585	5595	5605	5615	5625	5635	5645	5655	5665	5675	5685	5695	5705	5715	5725	5735	5745	5755	5765	5775	5785	5795	5805	5815	5825	5835	5845	5855	5865	5875	5885	5895	5905	5915	5925	5935	5945	5955	5965	5975	5985	5995	6005	6015	6025	6035	6045	6055	6065	6075	6085	6095	6105	6115	6125	6135	6145	6155	6165	6175	6185	6195	6205	6215	6225	6235	6245	6255	6265	6275	6285	6295	6305	6315	6325	6335	6345	6355	6365	6375	6385	6395	6405	6415	6425	6435	6445	6455	6465	6475	6485	6495	6505	6515	6525	6535	6545	6555	6565	6575	6585	6595	6605	6615	6625	6635	6645	6655	6665	6675	6685	6695	6705	6715	6725	6735	6745	6755	6765	6775	6785	6795	6805	6815	6825	6835	6845	6855	6865	6875	6885	6895	6905	6915	6925	6935	6945	6955	6965	6975	6985	6995	7005	7015	7025	7035	7045	7055	7065	7075	7085	7095	7105	7115	7125	7135	7145	7155	7165	7175	7185	7195	7205	7215	7225	7235	7245	7255	7265	7275	7285	7295	7305	7315	7325	7335	7345	7355	7365	7375	7385	7395	7405	7415	7425	7435	7445	7455	7465	7475	7485	7495	7505	7515	7525	7535	7545	7555	7565	7575	7585	7595	7605	7615	7625	7635	7645	7655	7665	7675	7685	7695	7705	7715	7725	7735	7745	7755	7765	7775	7785	7795	7805	7815	7825	7835	7845	7855	7865	7875	7885	7895	7905	7915	7925	7935	7945	7955	7965	7975	7985	7995	8005	8015	8025	8035	8045	8055	8065	8075	8085	8095	8105	8115	8125	8135	8145	8155	8165	8175	8185	8195	8205	8215	8225	8235	8245	8255	8265	8275	8285	8295	8305	8315	8325	8335	8345	8355	8365	8375	8385	8395	8405	8415	8425	8435	8445	8455	8465	8475	8485	8495	8505	8515	8525	8535	8545	8555	8565	8575	8585	8595	8605	8615	8625	8635	8645	8655	8665	8675	8685	8695	8705	8715	8725	8735	8745	8755	8765	8775	8785	8795	8805	8815	8825	8835	8845	8855	8865	8875	8885	8895	8905	8915	8925	8935	8945	8955	8965	8975	8985	8995	9005	9015	9025	9035	9045	9055	9065	9075	9085	9095	9105	9115	9125	9135	9145	9155	9165	9175	9185	9195	9205	9215	9225	9235	9245	9255	9265	9275	9285	9295	9305	9315	9325	9335	9345	9355	9365	9375	9385	9395	9405	9415	9425	9435	9445	9455	9465	9475	9485	9495	9505	9515	9525	9535	9545	9555	9565	9575	9585	9595	9605	9615	9625	9635	9645	9655	9665	9675	9685	9695	9705	9715	9725	9735	9745	9755	9765	9775	9785	9795	9805	9815	9825	9835	9845	9855	9865	9875	9885	9895	9905	9915	9925	9935	9945	9955	9965	9975	9985	9995	10005	10015	10025	10035	10045	10055	10065	10075	10085	10095	10105	10115	10125	10135	1014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ACCESSORIES

Lens Hoods

The use of a lens hood is recommended at all times to prevent extraneous light from striking the lens surface and causing flare or ghost, and to protect the lens against damage. Nikon lens hoods come in four types, depending on the lens: screw-in, snap-on, slip-in and built-in. They are calculated precisely for each focal-length Nikkor lens to provide maximum protection against stray light.

To attach or remove the snap-on hood, first depress the spring latch—which is marked with an arrow—and slide it in the direction of the arrow. The hood will also fit directly over a screw-in filter, so both can be used on a lens at the same time. When not in use, the snap-on hood can be reversed for storage on the lens, and the lens and its hood can be stored together in the ever-ready case.



Filters

Nikon filters are made of optical glass, ground and polished so that both surfaces are optically flat and parallel. Nikkor lenses and Nikon filters are made for each other. For best results, use Nikon filters on Nikkor lenses. The filters are available in both screw-in and series mounts, depending on the lens.

Except for the R60, no Nikon filter requires exposure compensation when used with the Nikon F2A Photomic. When using the R60 filter under tungsten light, increase the exposure by one f-stop more than indicated by the exposure meter.

Note: If you wish to leave a filter on the lens to protect the lens against accidental damage, the use of the L37 or L37C filter is recommended.



Eyepiece Correction Lenses

The nine eyepiece correction lenses are designed to permit nearsighted and farsighted users to view and focus without their glasses. Available in -2, -3, -4, -5, 0, +0.5, +1, +2 and +3 diopters, each representing the combined dioptre of the lens and the finder. Simply screw into the finder eyepiece.



Finder Eyecup

The soft rubber finder eyecup screws directly onto the finder eyepiece to prevent extraneous light from entering the viewfinder.

When using an eyepiece correction lens with a finder eyecup, it is recommended to use the Nikkormat type eyecup. First, fit the lens into the eyecup in advance. Then screw the assembly onto the finder eyepiece.



FEATURES/SPECIFICATIONS

Type of camera: 35mm single-lens reflex (SLR)

Picture format: 24mm x 36mm (35mm film format)

Lens mount: Nikon F mount (bayonet type)

Lenses available: Nikkor 50mm f/1.4, f/2 or 55mm f/1.2 as standard; more than 50 Nikkor lenses in all

Shutter: Horizontal-travel focal-plane shutter; speeds of from 1 to 1/2000 second and "B"; speeds of from 2 to 10 seconds available via built-in self-timer; intermediate settings possible between 1/80 and 1/2000 second; shutter release via shutter button or self-timer

Flash synchronization: Automatic selection as shutter speed is set; hot-shoe contact with built-in safety switch provided; one threaded PC terminal provided for off-camera flash operation

Synchronization range: 1/2000 ~ 1/125 sec., 1/30 ~ 1 sec., and "B" for FP bulbs; 1/30 ~ 1 sec., and "B" for M and MF bulbs; 1/80 ~ 1 sec., and "B" for electronic flash

Accessory shoe: Special Nikon-type built into body; fitted with hot-shoe contact and electric safety switch which turns on contact as flash unit is mounted

Viewfinder: Interchangeable eyelevel pentaprism type with built-in through-the-lens (TTL) exposure meter (model DP-11); selected aperture and shutter speed indicated below viewfield

Focusing screen: Matte Fresnel field with central split-image rangefinder surrounded by microprism ring; 12mm diameter reference circle defines area of meter center-weighting; Nikon Type K screen

Reflex mirror: Instant-return type; lockup level provided

Exposure metering: Through-the-lens, center-weighted, full-aperture measurement; exposure correctly set by adjusting aperture and/or shutter speed for meter needle centering; meter cross-coupled with both diaphragm and shutter speed controls and automatically indexed as lens is mounted; powered by two 1.5V silver-oxide batteries

Metering range: EV 1 ~ EV 17 (i.e., f/1.4 at 1 second ~ f/8 at 1/2000 second) with 50mm f/1.4 lens and ASA 100

Film speed scale: Setting provided for ASA 6 ~ 6400

Lens diaphragm coupling: Built-in meter coupling lever for Nikkor lenses capable of automatic maximum aperture indexing; meter/diaphragm coupling of from f/1.2 to f/32 provided

Film winding: Via single-stroke lever with 120° winding angle and 20° stand-off angle; lever also serves as meter ON/OFF switch

Frame counter: Shows number of frames exposed (additive type); automatically resets to "S" (two frames before "0") when camera back is opened

Film rewinding: Manual via film rewind crank; coupling provided on baseplate for rewind via motor drive

Depth-of-field preview: Via button provided on front of camera

Body finish: Satin-chrome and semi-gloss black

Weight: 830g (body only)

Dimensions: 152.5mm x 102mm x 65.5mm