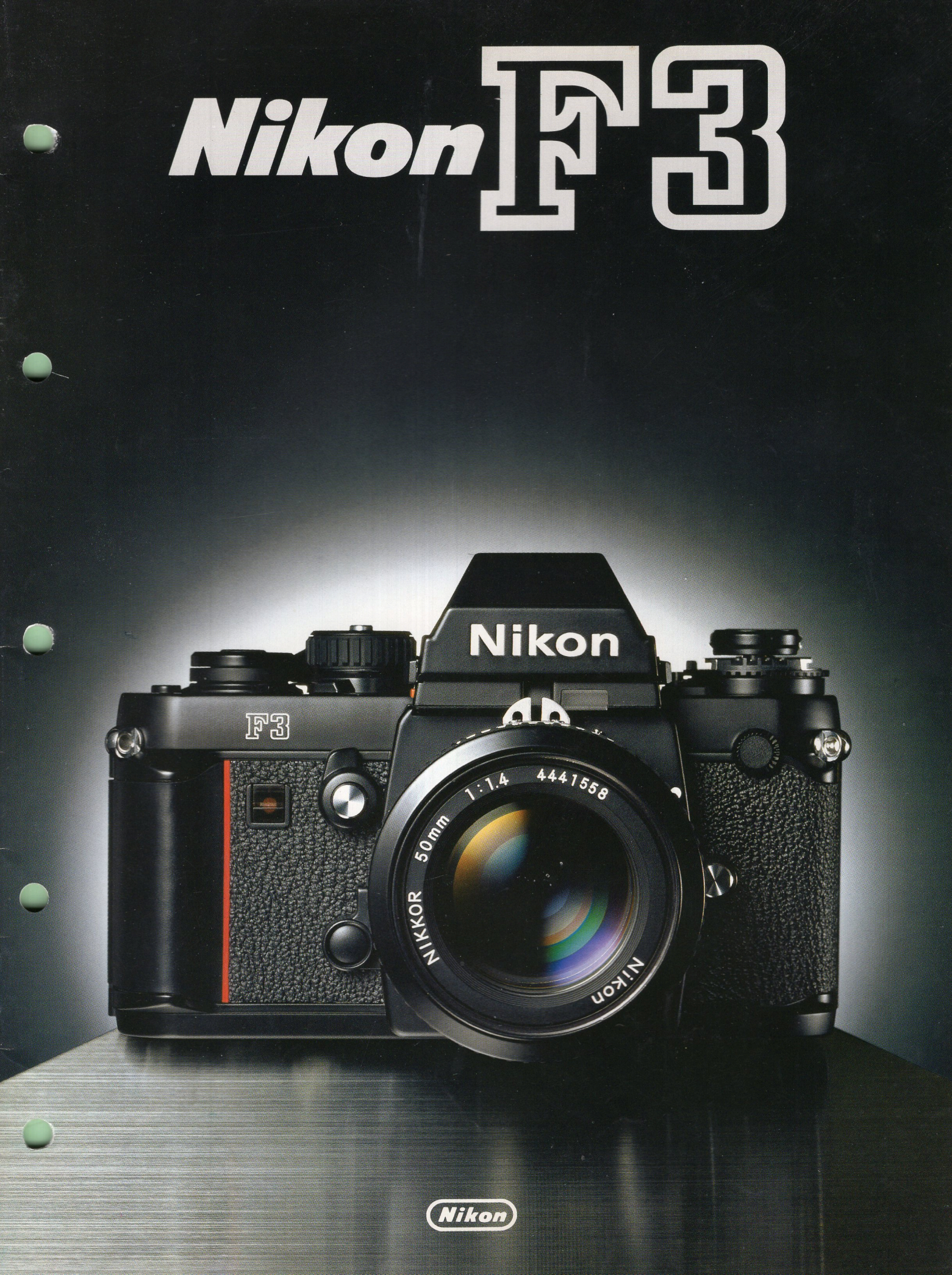
Nikon F3



Nikon

Every decade a great
camera is born.
In the 60's it was the F,
the F2 in the 70's.
In the 1980's it is
beyond doubt the F3.

THE PROFESSIONAL SLR FOR THE 1980'S

NIKON F3


Nikon
F3
NIKKOR 50mm 1:1.4 4441558
Nikon
Nikon

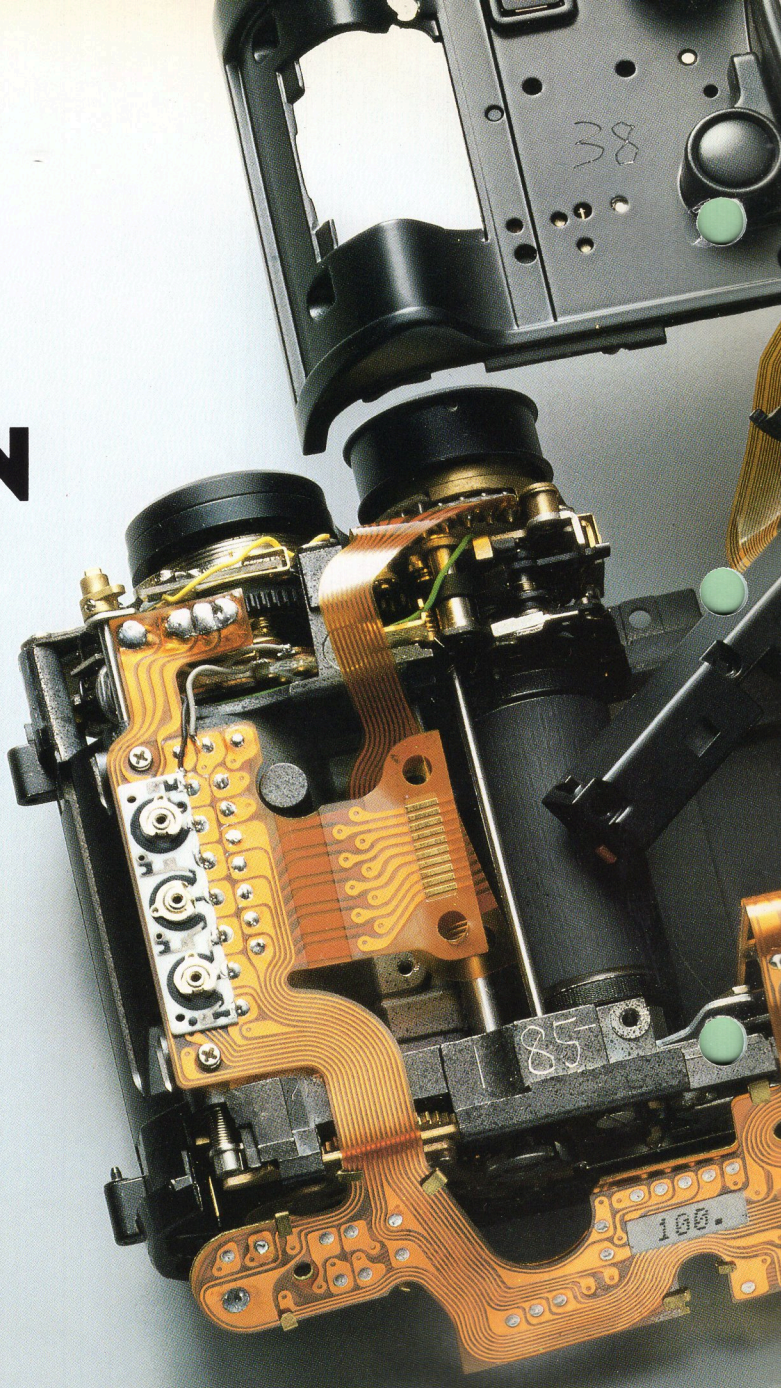
A SOLID BASE ON WHICH TO BUILD

Proven Heritage

No other 35mm SLR camera can boast a background as rich and rewarding. Like the F and the F2, the Nikon F3 is a product of the finest minds at work in the photographic industry. It offers the performance-proven features that made the F and the F2 legends in their time, plus innovations certain to make it a legend during its own.

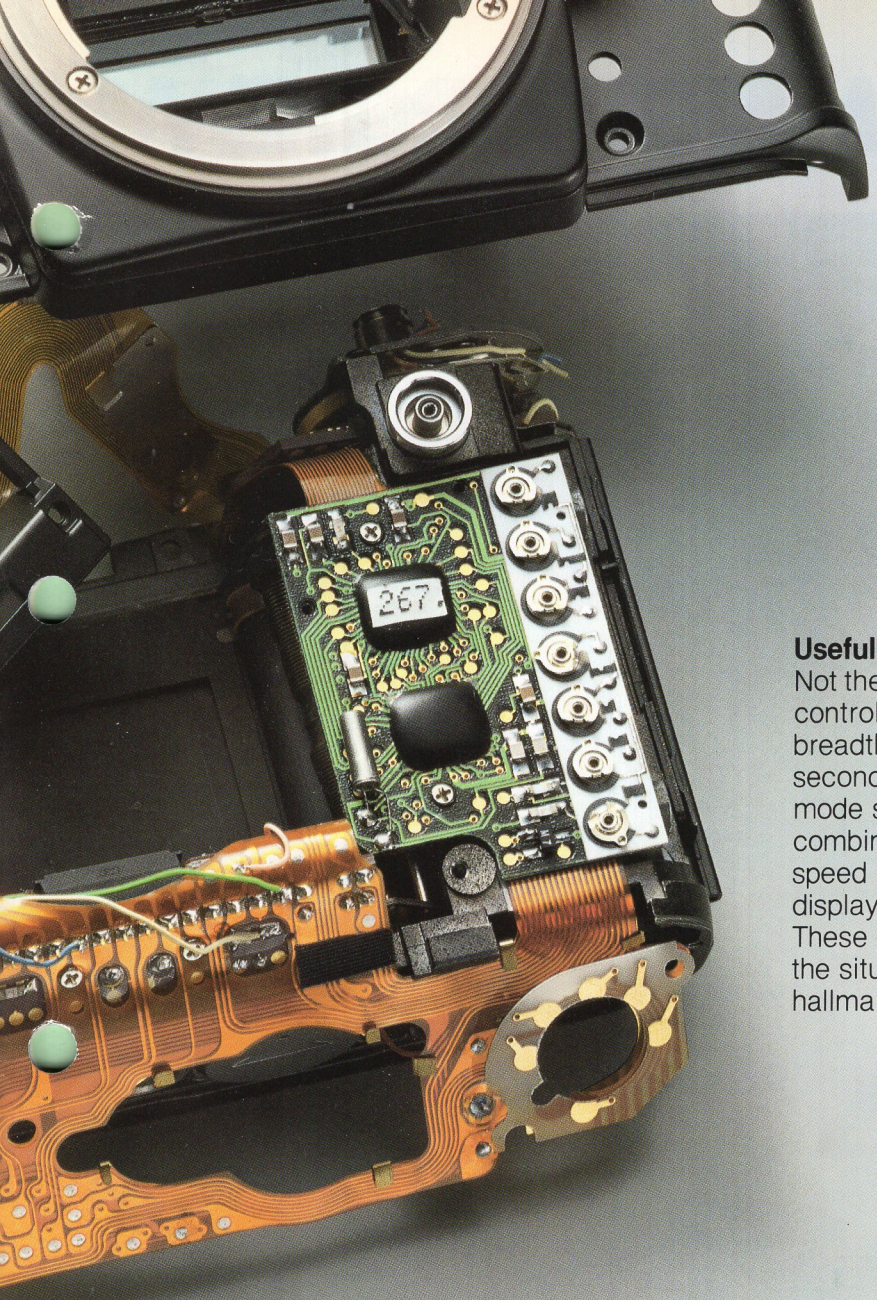
The Nikon F3, with its unchanged Nikon bayonet mount, is the new core of the Nikon System, a treasure trove of the world's finest lenses and photographic accessories. The more than 55 incomparable Nikkor lenses in the system are complemented by attachments for virtually every photographic requirement—from flash to remote control. There's simply nothing you cannot shoot with the F3!

And under virtually any circumstances, too. Because like its predecessors, the F3 is built tough. Only the choicest materials have been used to ensure consistently superb performance, be it in a tundra in the Arctic or a butte in the desert.



Programmed Versatility

How about a motor drive which shoots up to 6 frames per second just like that? The MD-4 does just that—the fastest standard motor drive around. And there are other versatility-expanding accessories. There's the SB-12 Nikon Speedlight Unit which adopts direct TTL flash control—simply attach it to the camera and everything is set automatically for perfectly exposed flash photos. An array of interchangeable viewfinders



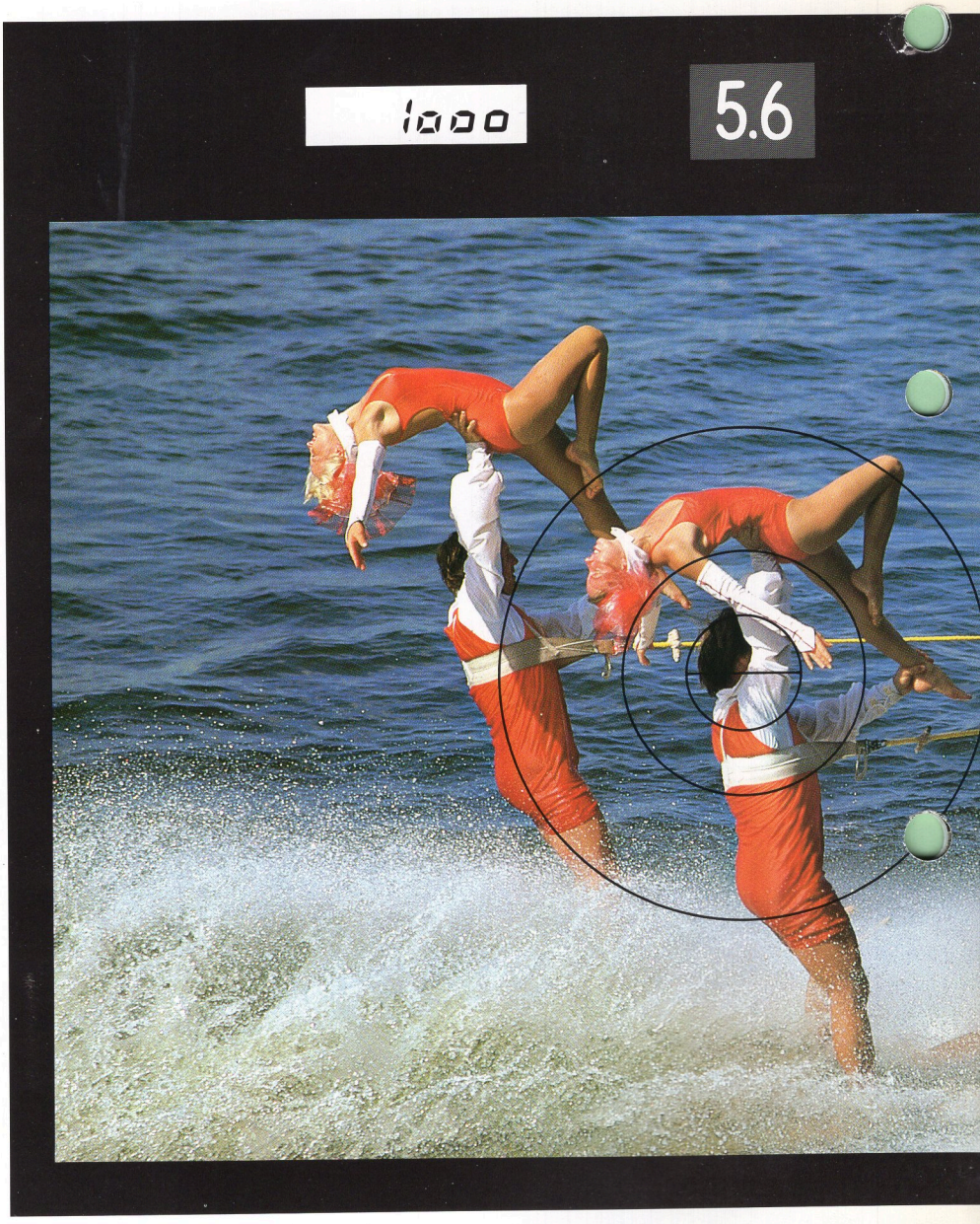
Useful Innovations
Not the least of the F3's innovations is its electronically controlled automatic exposure capability from a hair-breadth 1/2000th of a second to an expansive 8 seconds ***complemented*** by quartz-precise manual mode settings, with the same shutter speed range, a combination unparalleled in all photography. Shutter speed indication in either case is the liquid crystal display (LCD) type, the first of its kind in camera design. These and other innovations enable you to respond to the situation with a decisiveness that has become the hallmark of the Nikon photographer.

at are easier than ever to change with one another. All of 20 focusing screens. And a great many more attachments for every type of photography. All designed and conceived to advance the science and art of photography itself, and all transforming the F3 into a true professional tool you can depend on for any shooting assignment.

NIKON'S AUTOMATIC FOR THE AGE

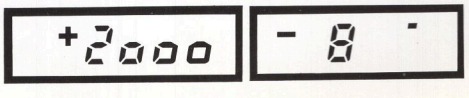
Accurate Automatic Exposure Control

The F3 is, indeed, the automatic Nikon for the age of automation. Aim, focus and shoot for frame after perfectly exposed frame of the finest pictures. The camera's electronically controlled shutter, designed and made by Nikon, instantaneously chooses the shutter speed matching the lens aperture as it is set, assuring a correct exposure. Metering is deadly accurate. The camera utilizes an improved version of Nikon's performance-proven TTL center-weighted exposure measurement system. And this system's adoption of an SPD sensor below the reflex mirror and of Nikon's original FPC (Flexible Printed Circuit) which incorporates several LSI's, complemented by the performance-proven FRE (Functional Resistance Element)—all built into the camera body—makes exposure determination dependable in any and every picture-taking situation . . . with computer-like precision. In addition, the F3 has an exposure memory lock and an exposure compensation dial, giving the photographer control over the camera's automatic exposure control.



Unique Exposure Information Display

Another Nikon first in 35mm SLR camera design. The F3 utilizes a liquid crystal display (LCD), which is comfortable to look at and consumes less power, to indicate shutter speed information. On auto, it shows the shutter speed that is the closest to the operative shutter speed. In addition, "**+ 2000**" for over exposure or "**−8−**" for under-exposure will be displayed if the shutter speed matching the lens aperture is beyond the camera's range.

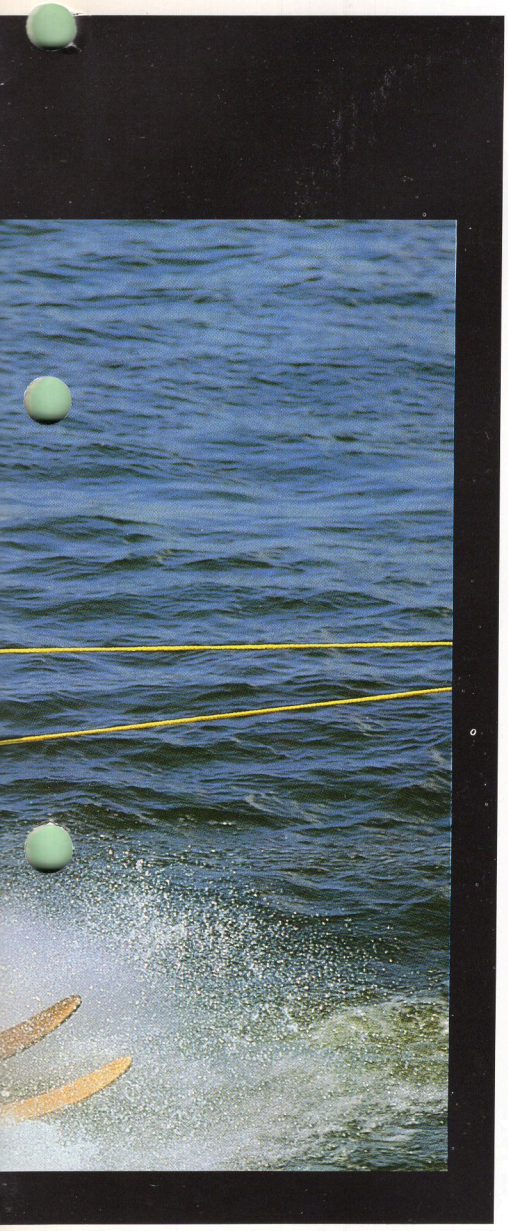


As if these weren't enough, there is also Nikon's ADR (aperture direct readout) window which keeps the photographer informed of the lens aperture in use.

Exposure Memory Lock

This very handy control allows you to lock a favorable subject reading in harsh lighting conditions. Shaped for comfortable get-up-and-go handling, it is conveniently located where your finger falls naturally for even greater responsiveness. All you have to do is center the main subject in the viewfinder, depress the memory lock button and, while holding it in, take the picture.

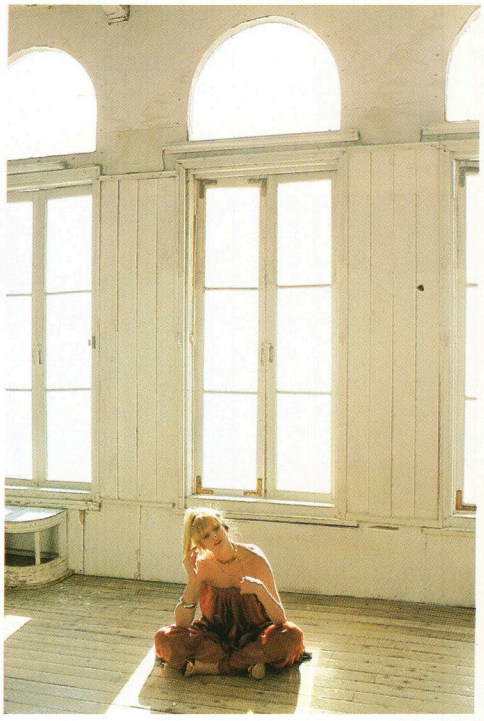
OF AUTOMATION



(Photo taken by Andy Barker at Cypress Gardens, Florida)

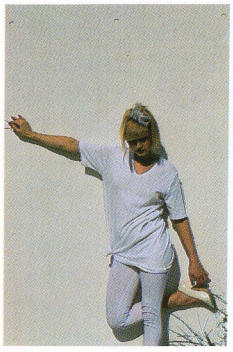
Memory lock used to compensate for harsh lighting.

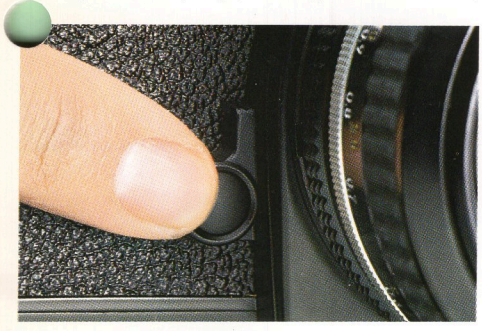
▶



◀

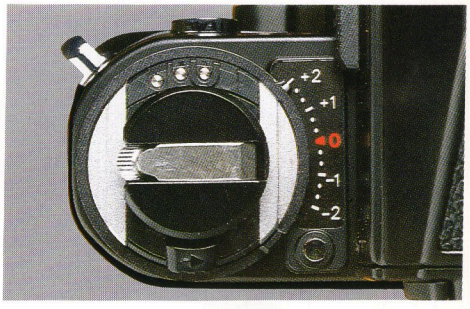
Exposure compensation dial used to eliminate grayish tone.



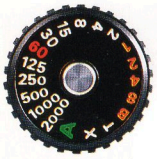


Exposure Compensation Dial

This dial is useful in shooting situations which call for exposure compensation repeatedly or protractedly. By allowing you to boost or cut the effective exposure value by up to 2 EV, it provides ample opportunity for creative photography. Of course, you can also use this control, which is calibrated in increments of 1/3 EV, to bracket your shots.

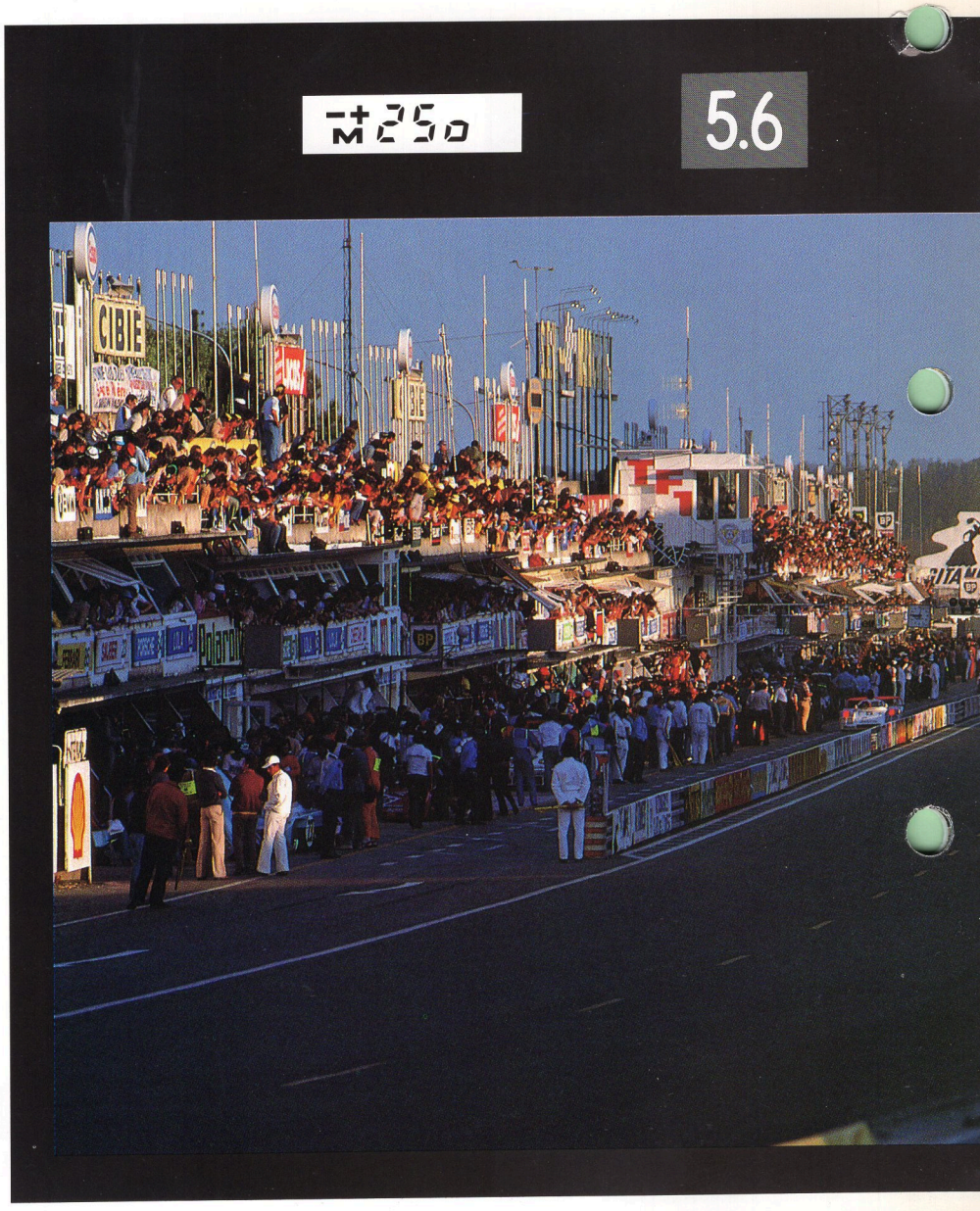


QUARTZ TIMING ON MANUAL



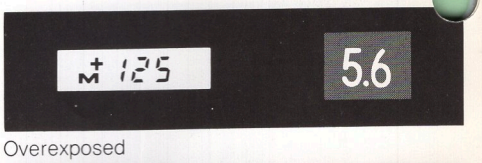
Precise Quartz Control

On manual, the Nikon F3 provides the same great accuracy and dependable performance it does in the automatic mode. The camera's use of a quartz oscillator, which remains stable in the face of changes or fluctuations in temperature and voltage, guarantees precision timing of the highest order, a critical consideration for the exacting photographer. And part of the F3's total-performance design.



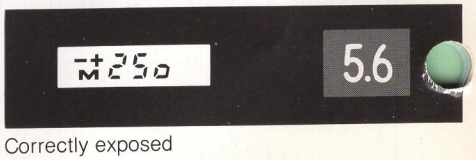
Exposure Indication on Manual

You'll know you're on manual: the symbol for it, "M," appears in the liquid crystal display inside the viewfinder. And you'll know, too, if the exposure is correct by simply referring to this symbol. A "+" mark to the top means the picture will come out overexposed, "–", underexposed. The presence of both marks means correct exposure.

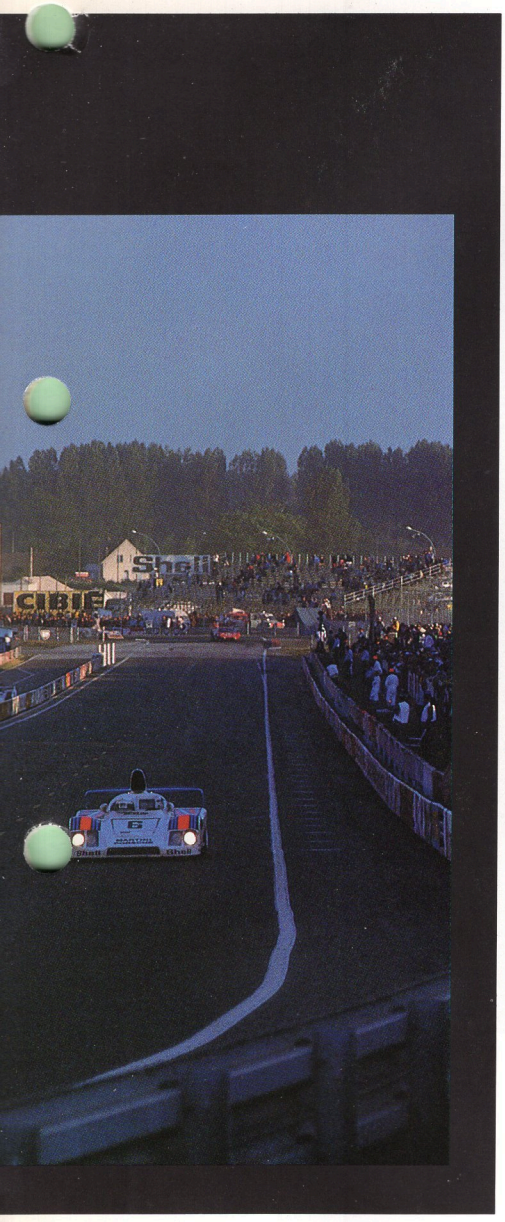


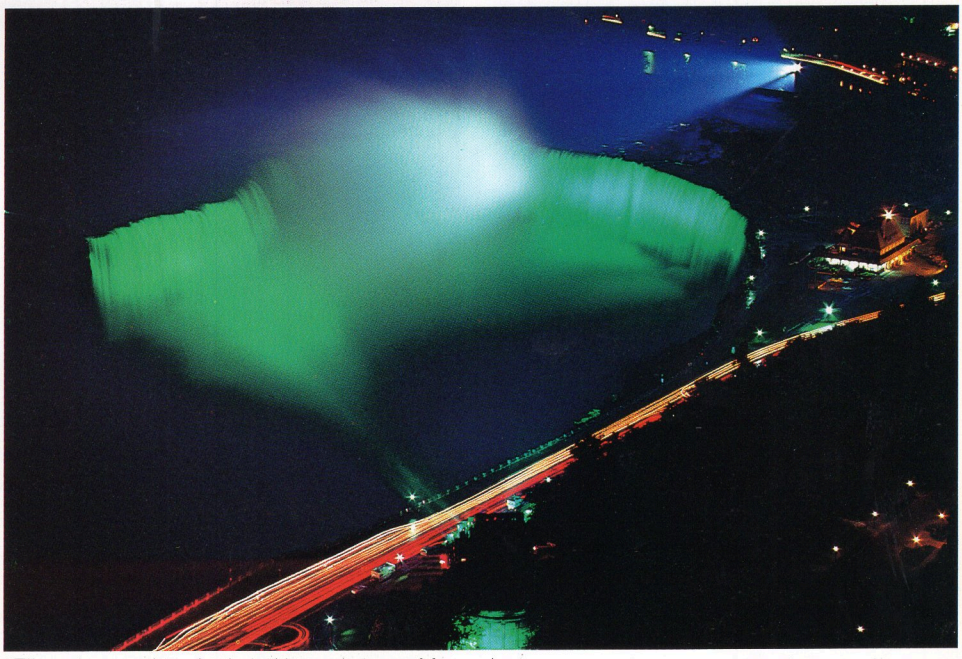
Overexposed

Underexposed

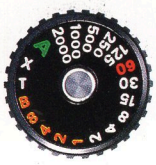


Correctly exposed





"T" setting used to obtain a time exposure of four minutes. (Photo taken by Andy Barker)



Mechanical Usage

The Nikon F3 can be used mechanically, by way of the shutter speed dial's "T" setting or the camera's unique backup mechanical release. The "T" setting is useful for making long time exposures. The use of the backup lever when the batteries powering the camera are exhausted provides a shutter speed of 1/60 sec. regardless of where the shutter speed dial is set (except "T").

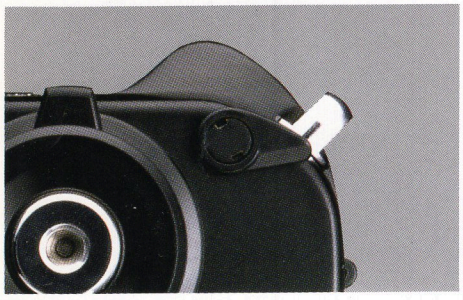
Usable Shutter Speeds

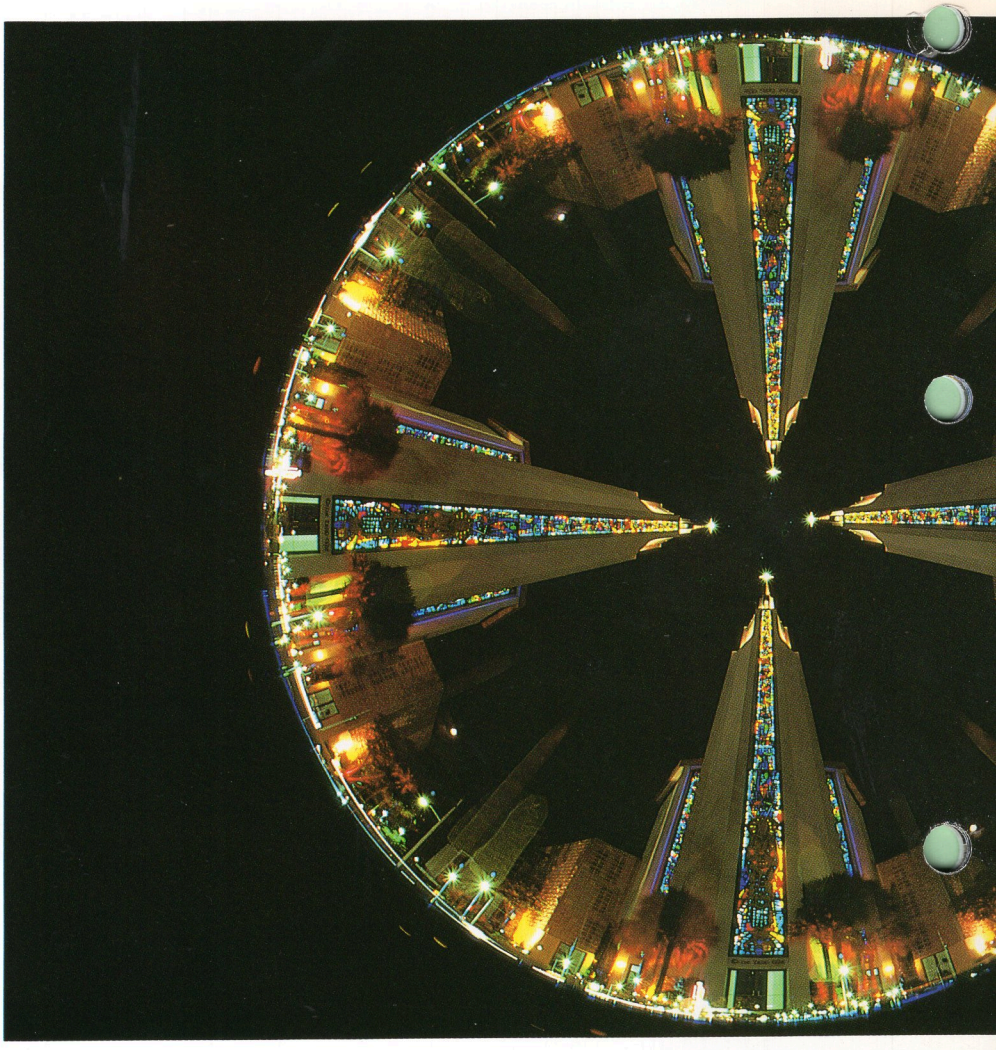
In the manual mode, you can use any of the 15 shutter speeds on the shutter speed dial from 1/2000 sec. to 8 sec., plus "B." The shutter speed dial incorporates an "X" setting, too, to which it is set when an electronic flash unit other than the Nikon F3's own speedlight, the Nikon SB-12, is being used with the camera. In this case, flash synchronization is 1/80 sec.—which is indicated in the viewfinder's liquid crystal display.

OTHER FEATURES, FUNCTIONS AND

Multiple Exposures

The F3's control for multiple exposures is in the form of a lever which can easily be moved out each time an exposure on the same frame is desired. The control can also be used in motor drive photography, giving the photographer a great many opportunities for special effects photography.



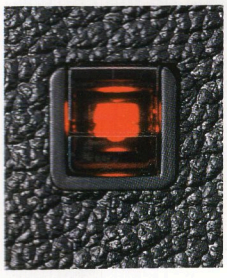


Full Frame Coverage

A true professional instrument, the F3 gives virtually 100% frame coverage. What you see through the lens in the viewfinder is precisely what will come out on film.

Self-Timer LED

Using the self-timer is surer than ever with the F3's self-timer's LED-type signal. As soon as the shutter release button is depressed after the self-timer lever is moved out, the self-timer's LED lamp flashes for 10 seconds (the timing is regulated by the camera's quartz oscillator). It blinks rapidly during the last two seconds—just perfect for self-portraits or group shots. You can easily override the self-timer even when its LED has started to blink by simply moving the lever back into place.



CONTROLS

Camera Body Grip

The F3 incorporates a camera body grip that is as functional as it is attractive. This enables steadier holding and, if necessary, one-hand shooting.

Depth-of-field Preview/Mirror Lockup

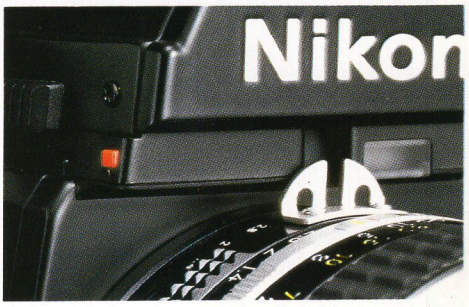
Like all the others, the control for depth-of-field preview is logically positioned for systematic operation. Just press the button for this function, and you will know which part of the scene in front of and behind the main subject will also come out in sharp focus in the final photograph. Concentric with the preview button is the mirror lockup lever which permits deliberate mirror lockup for closeup shooting or when super-telephoto lenses are used.

Meter ON/OFF and Battery Checker

Two 1.5V silver-oxide batteries power the F3's exposure meter which is built into the body. The meter is turned on the moment the shutter release button is pressed lightly after the power switch lever is unfolded. Simultaneously, the liquid crystal display inside the viewfinder will appear. In effect, depressing the shutter release button halfway has the extra function of checking battery power availability.

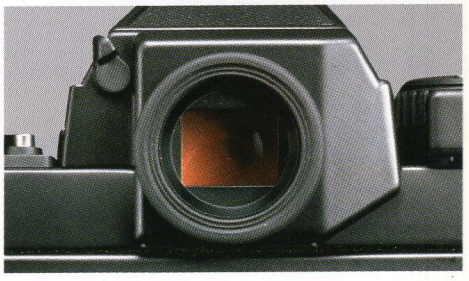
Viewfinder Illuminator

This makes it easy to "read" both the liquid crystal display and the aperture display inside the viewfinder in dim-light shooting conditions.



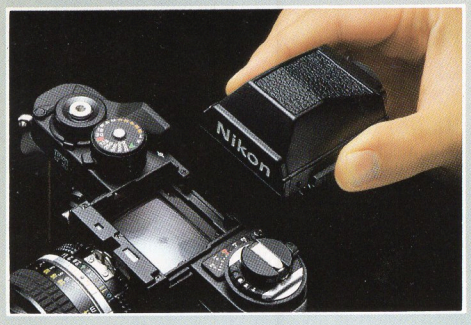
Eyepiece Shutter

You can use the built-in eyepiece shutter to prevent light from entering the viewfinder eyepiece when the self-timer is in use or in similar picture-taking situations. It is built into the F3's standard DE-2 viewfinder.



INTERCHANGEABLE VIEWFINDERS

The Nikon F3 is the first automatic exposure 35mm SLR with interchangeable viewfinders designed to ensure ease of viewing and focusing for every type of photography. With the meter and electronic circuits built into the body rather than into the finder, it is possible to change the F3's standard DE-2 viewfinder with the DA-2 Action Finder, for example, without losing metering. Easily, too: you simply slide the release levers and lift the finder out, then press the new one in. In addition to the DE-2 and DA-2, the F3 will also take the DW-3 Waist-Level Finder and the DW-4 6X High Magnification Finder.



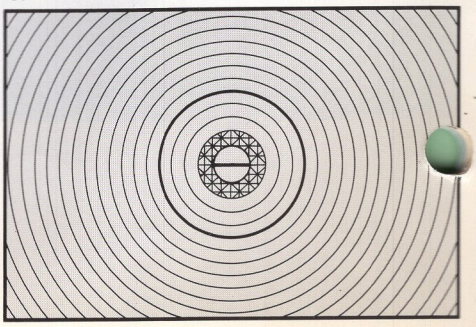
A Choice of 20 Focusing Screens

Changing focusing screens is just as easy. In addition to the standard Type K screen, the F3 has 19 other focusing screens to suit either the lens in use or the picture-taking situation. So you literally have 20 ways to focus on your subject.

Interchangeable focusing screens

Type A: Matte Fresnel field with 12mm-diameter reference circle and split-image rangefinder spot. For general photography.
Type B: Matte Fresnel field with 12mm-diameter circle. For viewing and focusing without distraction.
Type C: Fine matte field with crosshair reticle in 4mm-diameter center spot. For high-magnification photography with DW-4 6X High Magnification Finder.
Type D: Fine matte field ensures unobstructed viewing. Recommended for use with long telephoto lenses or for closeup work.

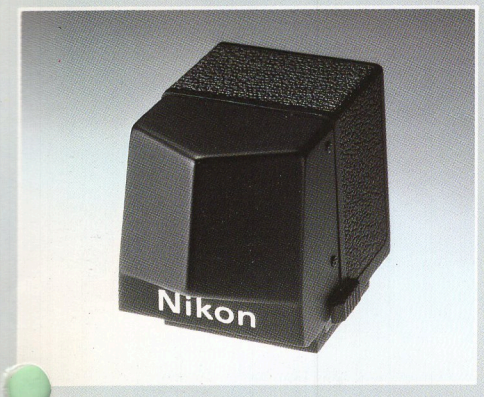
Type K

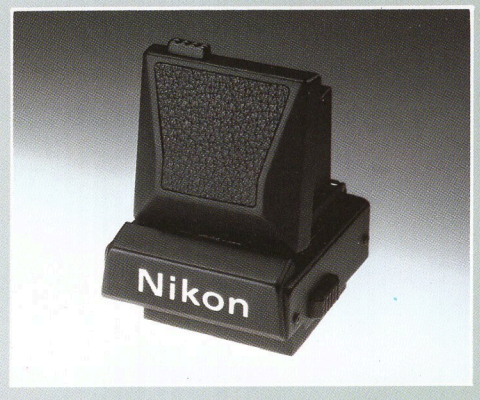


A-2 Action Finder
This is the finder for the photographer caught in a situation where normal viewing is difficult or impossible, such as when he's wearing goggles, or the camera is encased in a special housing for underwater photography. The DA-2 is certain to be favored by aerial or ski photographers, those in hazardous environments and other enterprising lovers of fine photography that's also bristling with action.

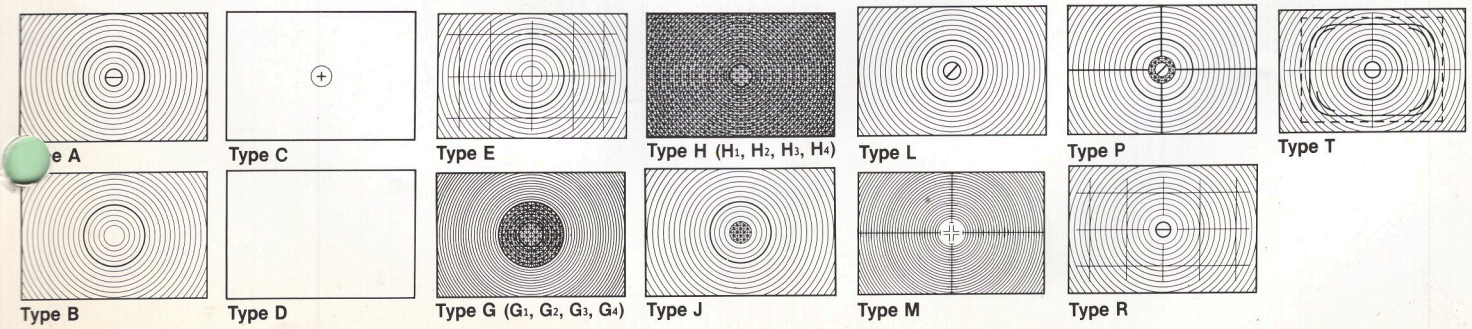
DW-3 Waist-Level Finder
This is ideal when the camera is being used at a low angle or the scene being shot is at a right angle to the photographer. The finder's deeply shielded viewing hood ensures that the image on the focusing screen stays bright and clear at all times. The built-in flip-up magnifier provides a 5X magnification of the image on the screen for even more convenient viewing, focusing and composing.

DW-4 6X High Magnification Finder
For critical high magnification close-up work, photomicrography and other similar scientific applications, the DW-4 comes in handy. Its sophisticated optical system enables it to provide a clear, sharp, undistorted view of the image on the focusing screen at a full 6X magnification. The finder is fitted with a −5 to +3 diopter adjustment for individual eyesight correction. Eyepiece cover usable for off-finder shooting.





Type E: Matte Fresnel field with 12mm-diameter circle and etched vertical and horizontal lines. For architectural photography with PC-Nikkor lens.
Type G: Clear Fresnel field with 12mm-diameter microprism focusing spot. For focusing in dim light. ***Available in 4 models.***
Type H: Clear Fresnel field with microprism pattern over entire screen. Recommended for low-light photography. ***Available in 4 models.***
Type J: Matte Fresnel field with 4mm-diameter microprism focusing spot within 12mm-diameter circle. For general photography.
Type K: Combination of Types A and J. For general photography.
Type L: Similar to Type A, but with split-image rangefinder line at a 45° angle. For focusing on a subject with horizontal lines.
Type M: Clear surface with double cross-hair reticle and scales. For high-magnification photomicrography with DW-4 6X High Magnification Finder.
Type P: Matte Fresnel field with 3mm-diameter split-image rangefinder divided at a 45° angle, and etched vertical and horizontal lines. For general photography.
Type R: Matte Fresnel field with 3mm-diameter split-image rangefinder and etched vertical and horizontal lines. For architectural photography.
Type T: Matte Fresnel field with outline for standard TV format. Used when preparing slides for TV broadcasts.

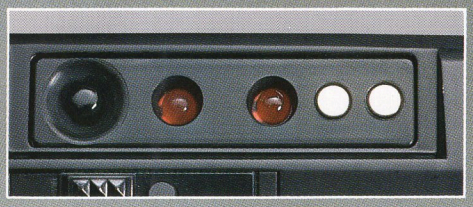


MOTOR DRIVE

The Nikon F3 comes with no less than the fastest standard motor drive on the market—the Nikon MD-4: 6 frames per second (fps) with MN-2 NiCd Battery Unit, 4 fps with alkaline batteries. You might say that the MD-4 is a veritable culmination of Nikon's many years of experience in designing motor drives, an area it pioneered more than two decades ago. Powered by only 8 penlight alkaline batteries (enough to drive about 140 36-exposure rolls of film), which are housed in the unit's integral battery clip—making a motor-drive-equipped F3 remarkably compact—the MD-4 adjusts its framing speed automatically to the shutter speed in use when set to continuous ("C"). A single-frame ("S") setting is also provided, along with "L" which locks the motor drive's triggering button.

The MD-4's no-frills design makes it not just the fastest but also the easiest motor drive in its class to operate. Simply attach the motor drive to the camera, press the triggering button and you're on. When the film reaches its end, you will get power rewind too. The two go so well together you'll want to leave the assembly as it is. For with the MD-4, the F3 becomes "doubly automatic," providing both automatic exposure and automatic film advance, thus keeping the enterprising photographer ever ready to capture one once-in-a-lifetime moment after another . . . professionally. Naturally, the MD-4 takes on various accessories from remote control equipment of all kinds to battery charger.

Easy and sure attachment of the MD-4 to the F3 without any special adjustment.



The LED's indicate both completion of the film winding and completion of film rewind. They also indicate the condition of the batteries when the battery check button is pressed.

Besides a built-in device which automatically stops winding at the end of the roll when film tension increases, a subtractive frame counter is provided. It prevents the film from being torn accidentally at the end of the roll when the motor drive is used in cold weather.

Mode selector.

(Photos taken by Andy Barker at Cypress Gardens, Florida)

MD-4 Specifications

Camera fitting	Nikon F3; no modifications or adjustments required; screw-on type connection
Shooting modes	Choice of single-frame (S) or continuous (C) firing via S-C mode selector on handgrip; lock (L) position also provided to prevent inadvertent release
Firing speed	Up to 6 fps with MN-2 NC Battery Unit, up to 5.5 fps with MA-4, and 4 fps with 8 penlight AA-type alkaline batteries (mirror lock-up is required to ensure the maximum firing rates); firing rates decrease at slower shutter speeds
Automatic winding stop	Motor shuts off at film's end with LED indication; frame counter also provided to automatically stop film winding after preset number of exposures—useful in very low temperatures
Dimensions	Approx. 146.5mm(H)×115mm(W)×71mm(D)
Weight	Approx. 480g (without batteries)

MOTOR DRIVE SYSTEM

❶ MW-1 Radio Control Set
❷ Model 2 Pistol Grip
❸ ML-1 Modulite Remote Control Set
❹ MF-6 Camera Back with auto film rewind-stop device
❺ MT-1 Intervalometer
❻ MN-2 NC Battery Unit
❼ MR-2 Terminal Shutter
❽ MC-10 Remote Cord
❾ MA-4 AC/DC Converter
❿ MH-2 NC Battery Charger

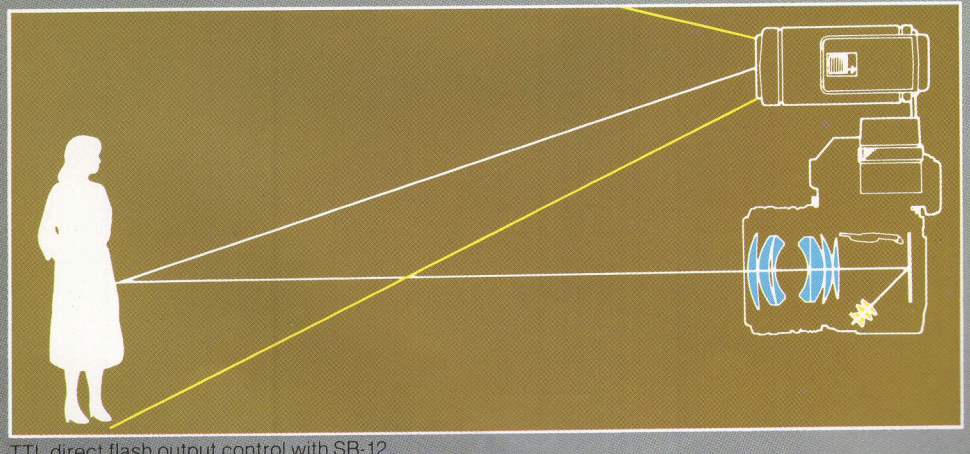
ELECTRONIC FLASH

The Nikon F3 comes to you with its own electronic flash unit: the new SB-12. There is the SB-11, too, which can also be used with other Nikon cameras.

The SB-12 has a guide number of 25 and makes electronic flash easier than ever. Just slip it into the F3's hot-shoe, switch it on and you'll obtain correctly exposed flash photographs at a pre-determined speed of 1/80 sec., when the camera is set on automatic, or at shutter speeds of 1/125 sec. and faster. Flash exposure is automatically measured through-the-lens by the SPD, which reads the light reflected directly off the film.

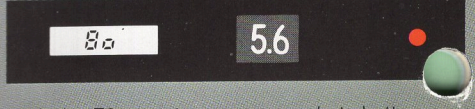
A ready-light inside the camera's viewfinder lights up when the unit has fully recycled and ready for the next shot. It blinks if the SB-12 is inappropriately mounted onto the accessory shoe or in case the ASA/ISO film speed set is beyond the range of the SB-12. It also blinks to warn that the light output was insufficient for correct exposure. For all this, the SB-12 is remarkably compact and light. It's truly the F3's indispensably bright companion.

As for the SB-11 which is useful for bounce-type flash photography, it has a guide number of 36. This unit also provides TTL direct flash output control via the SC-12 TTL Sensor Cord. And for those whose requirements include motorized flash photography, there's the powerful SB-6 which can be made to synchronize with the MD-4 Motor Drive at up to 5 fps with the SA-3 AC unit.



TTL direct flash output control with SB-12.

The F3's accessory shoe is designed for direct mounting of the SB-12. Three contacts are provided—one each for flash synchronization, viewfinder ready-light indication and TTL control of flash duration.



With the F3 on auto or on manual at shutter speeds of 1/125 sec. and faster, the SB-12 synchronizes at 1/80 sec. as indicated inside the viewfinder.

• SB-12 Nikon Speedlight Unit

• SB-11 Nikon Speedlight Unit

Specifications

	SB-12	SB-11
Light output control	Automatic: TTL flash output control with silicon controlled rectifier (thyristor) and series circuitry Manual: Full output	Automatic: TTL flash output control with silicon controlled rectifier (thyristor) with F3 using SC-12 TTL Sensor Cord; SU-2 Sensor Unit provided for use with other Nikon cameras: Manual: Full output
Guide number (ASA/ISO 100) in meters	25; 18 when used with SW-4 Wide-Flash Adapter	36; 25 when used with SW-3 Wide-Flash Adapter
Angle of coverage	Horizontal: 56°; 67° when using SW-4 Vertical: 40°; 48° when using SW-4	Horizontal: 56°; 67° when using SW-3 Vertical: 40°; 48° when using SW-3
Automatic shooting range (ASA/ISO 100)	Varies with f-stop selected within 0.6m to 12m (e.g. 0.9m—6.2m at f/4)	With SC-12, varies with f-stop selected: With SU-2, three f-stops are available; 0.6m—9m at f/4, 0.6m—6.4m at f/5.6 and 0.6m—4.5m at f/8
Recycling time	Automatic: Variable depending on shooting range Manual: Approx. 8 sec.	Automatic: Variable depending on shooting range Manual: Approx. 8 sec.
Number of flashes (approx.)	Automatic: Depending on shooting range Manual: Approx. 160 with fresh set of alkaline batteries	Automatic: Depending on shooting range Manual: Approx. 150 with fresh set of alkaline batteries
Power source	Four 1.5V AA-type batteries	Eight 1.5V AA-type batteries
Modeling-light	Provided	Provided
Open-flash button	Provided	Provided
Mounting	Directly on F3 hot-shoe	Bracket type
Dimensions (excluding mounting foot)	Approx. 40mm(H)×105mm(W)×84mm(D)	Approx. 276mm(H)×104mm(W)×118mm(D)
Weight (without batteries)	Approx. 350g	Approx. 860g

NIKKOR LENSES

Naturally, the F3 will take every current Nikkor lens, plus the greater majority of all Nikkor lenses ever designed—the most in the history of 35mm SLR photography. No other selection of lenses can match these Nikkors either in quality or in scope.

Nikon's Nikkor lenses encompass a wide range of focal lengths—from as short as 6mm (with its mind-boggling 220° picture angle) to a super super-telephoto 2000mm which lets you in on the most faraway scene. And there are special Nikkors, too, for special applications. All giving you more than 55 windows on the world or beyond.

Complementing their number is the painstaking way in which a Nikkor lens, ***every*** Nikkor lens, is designed: from the raw glass which Nikon makes (one of only a handful of manufacturers to do so) to the endless tests with precision measuring instruments, many of which also bear the Nikon name.

In many ways you can say that Nikkor lenses are what make Nikon cameras incomparably ***Nikon*** . . .

Nikkor Lens List

Fisheye
6mm f/2.8
8mm f/2.8
10mm f/5.6 OP
16mm f/2.8

Wideangle
13mm f/5.6
15mm f/3.5
18mm f/4
20mm f/3.5
24mm f/2
24mm f/2.8
28mm f/2
28mm f/2.8
28mm f/3.5
35mm f/1.4
35mm f/2
35mm f/2.8

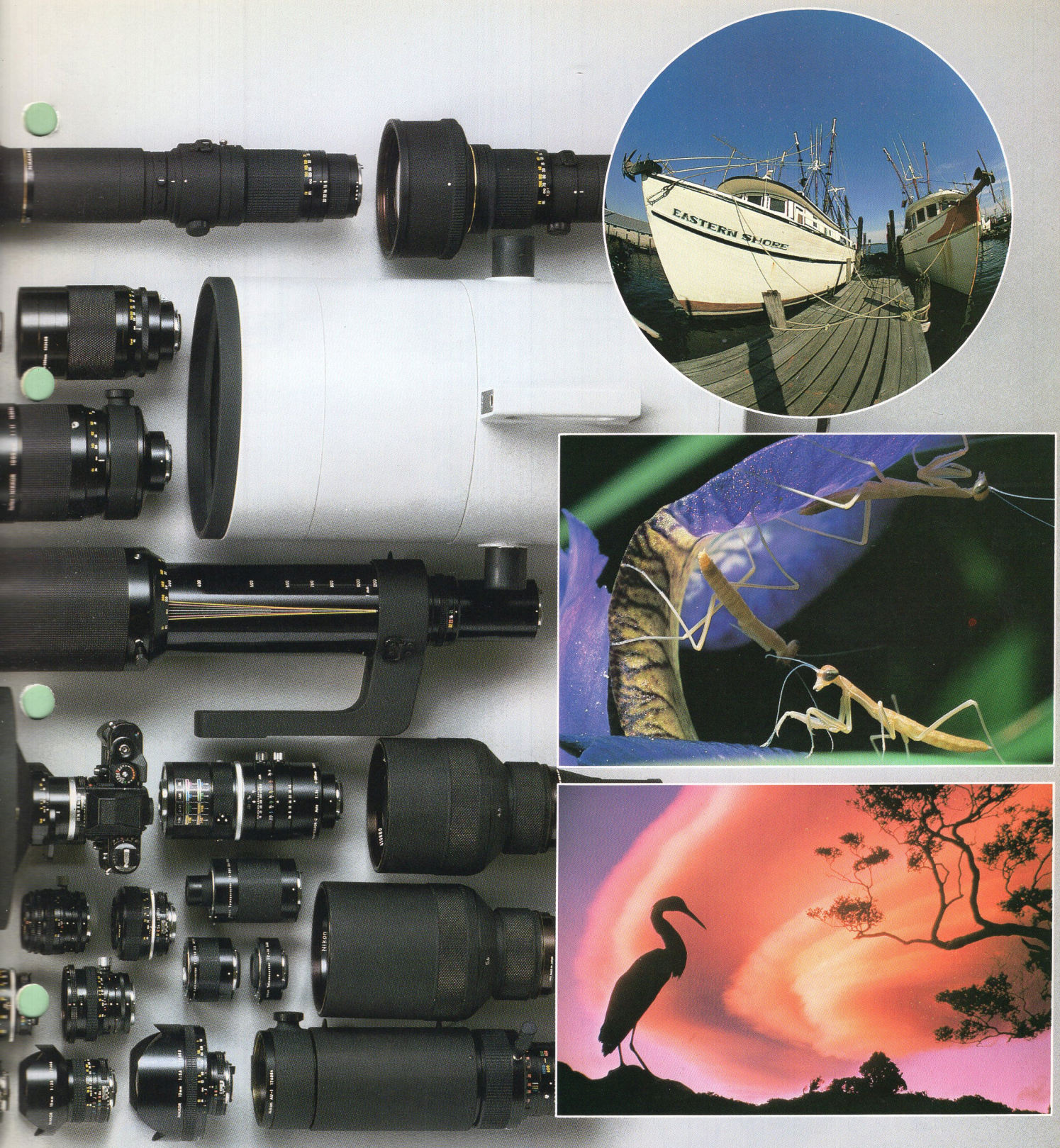
Normal
50mm f/1.2
50mm f/1.4
50mm f/1.8

Telephoto
85mm f/2
105mm f/2.5
135mm f/2
135mm f/2.8
135mm f/3.5
180mm f/2.8
200mm f/4
300mm f/2.8 IF-ED
300mm f/4.5 IF-ED
300mm f/4.5
400mm f/3.5 IF-ED
400mm f/4.5 * °
400mm f/5.6 IF-ED
600mm f/5.6 * °
600mm f/5.6 IF-ED
800mm f/8 IF-ED
1200mm f/11 IF-ED

Reflex
500mm f/8
1000mm f/11
2000mm f/11

Zoom
25—50mm f/4
35—70mm f/3.5
43—86mm f/3.5
80—200mm f/4.5
50—300mm f/4.5
180—600mm f/8 *
200—600mm f/9.5 *
360—1200mm f/11 ED *

Special
28mm f/4 PC *
35mm f/2.8 PC *



58mm f/1.2 Noct
55mm f/2.8 Micro
105mm f/4 Micro
200mm f/4 Micro IF
[illegible]mm f/5.6 Medical *

[illegible]on Series E Lenses
28mm f/2.8
35mm f/2.5
50mm f/1.8
100mm f/2.8
75—150mm f/3.5 Zoom

Teleconverters
TC-14
TC-200
TC-300

Note: Most new Nikkor and Series E lenses offer the AI (automatic maximum aperture indexing) and ADR (aperture direct readout) facilities when used with the Nikon F3. Lenses which do not, or cannot be modified to do so by a Nikon authorized dealer or service center, require stop-down metering with the F3. Please check with your camera dealer for details on [illegible] modification.

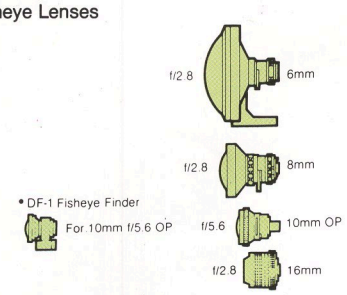
* Basic design does not allow full-aperture metering; AI not applicable.

° Use with focusing unit required.

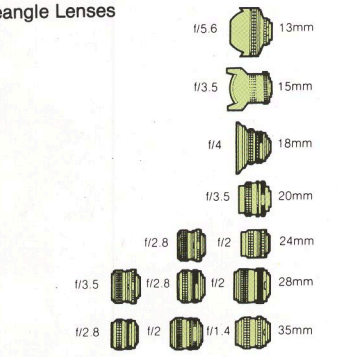
THE F3 SYSTEM

Nikkor Lenses

Fisheye Lenses

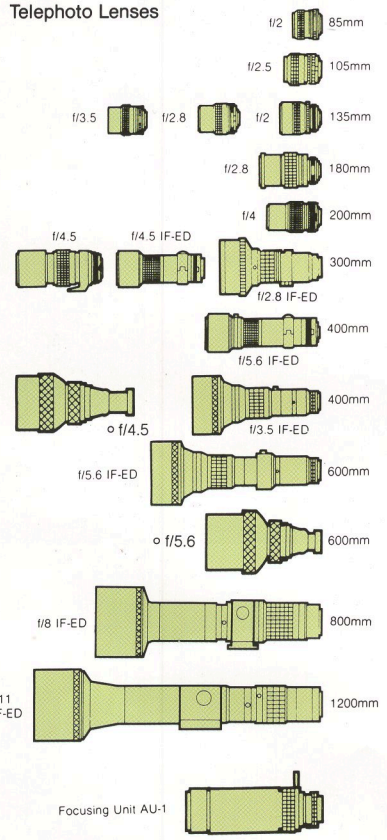


Wideangle Lenses



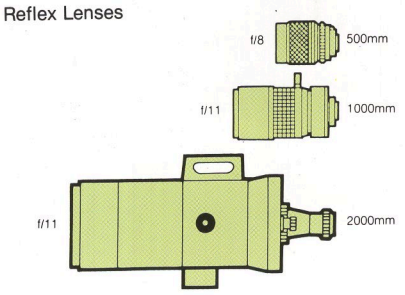
Normal Lenses

Telephoto Lenses

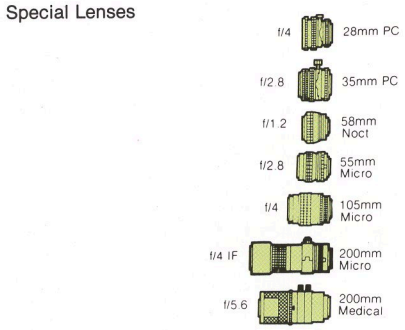


o used with Focusing Unit AU-1

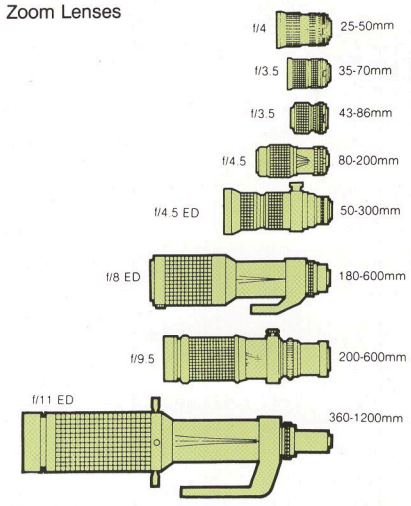
Reflex Lenses



Special Lenses

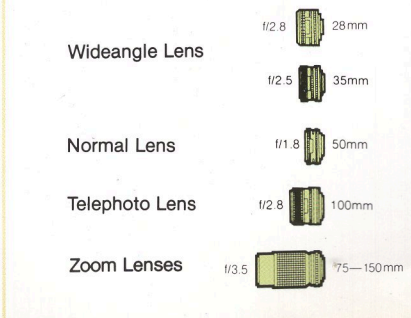


Zoom Lenses

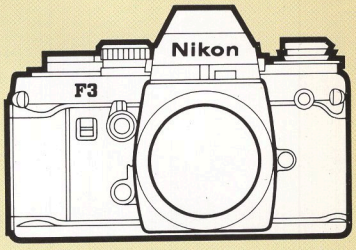


Teleconverters

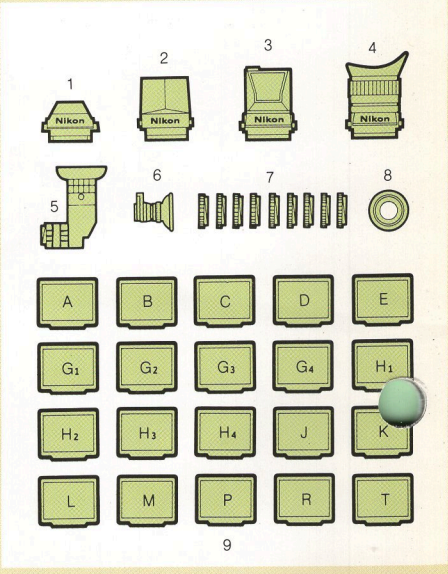
Nikon Series E Lenses



The Nikon F3

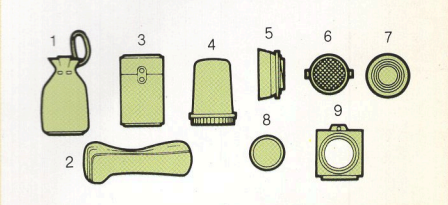


Finders & Accessories



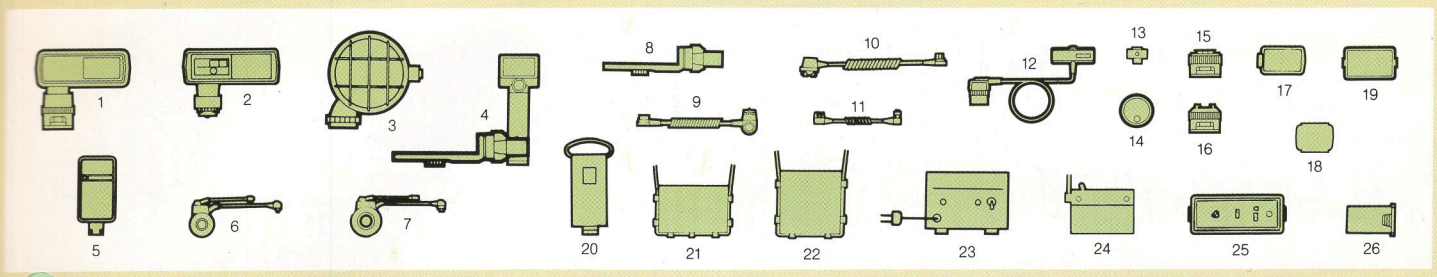
1. DE-2 Eyelevel Finder
2. DA-2 Action Finder
3. DW-3 Waist-Level Finder
4. DW-4 6X High Magnification Finder
5. DR-3 Right-Angle Viewing Attachment
6. DG-2 Eyepiece Magnifier
7. Eyepiece Correction Lenses
8. Rubber Eyecup
9. Focusing Screens for F3

Lens Accessories



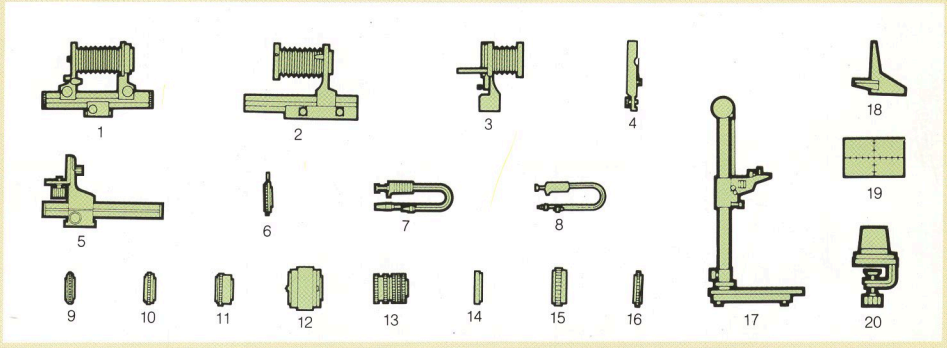
1. Flexible Lens Pouch
2. Leatherette Camera-Lens Case
3. Leatherette Lens Case
4. Plastic Lens Case
5. Lens Hood
6. Lens Cap
7. Rear Lens Cap
8. Filter
9. Gelatine Filter Holder

Flash Units & Accessories



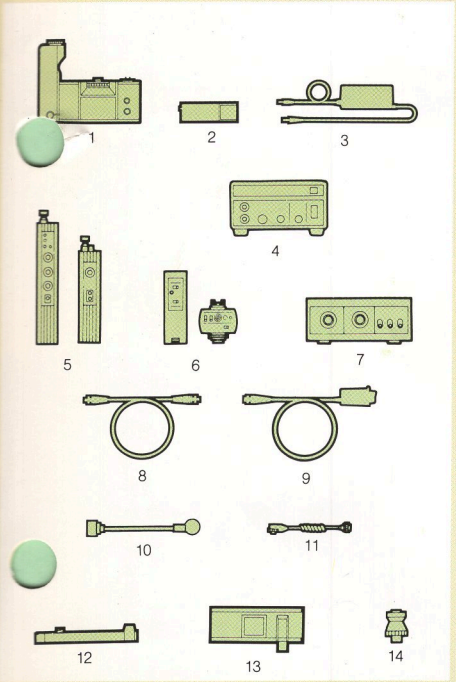
1. [illegible] Speedlight Unit
2. [illegible] Speedlight Unit
3. SB-6 Repeating Flash Unit (connected with a sync cord)
4. SB-11 Speedlight Unit
5. SB-E Speedlight Unit
6. SM-2 Macro Ringlight Unit
7. SR-2 Ringlight Unit
8. SK-4 Mounting Bracket for SB-11
9. SC-13 Extension Cord for SU-2
10. SC-9 Extension Cord
11. SC-6 Coiled Sync Cord
12. SC-12 TTL Sensor Cord for SB-11
13. SU-1 Sensor Unit
14. SU-2 Sensor Unit
15. AS-3 Flash Unit Coupler for Speedlight with F2 type shoe
16. AS-4 Flash Unit Couple for Speedlight with ISO type shoe
17. SW-2 Wide-Flash Adapter for SB-10
18. SW-3 for SB-11
19. SW-4 for SB-12
20. SN-3 NC Battery
21. SD-5 Battery Pack for SB-6
22. SA-3 AC Unit for SB-6
23. SH-3 NC Battery Quick Charger
24. Battery Pack for Medical or Ringlight
25. AC Unit for Medical or Ringlight
26. MS-2 Battery Holder

Close-Up Equipment



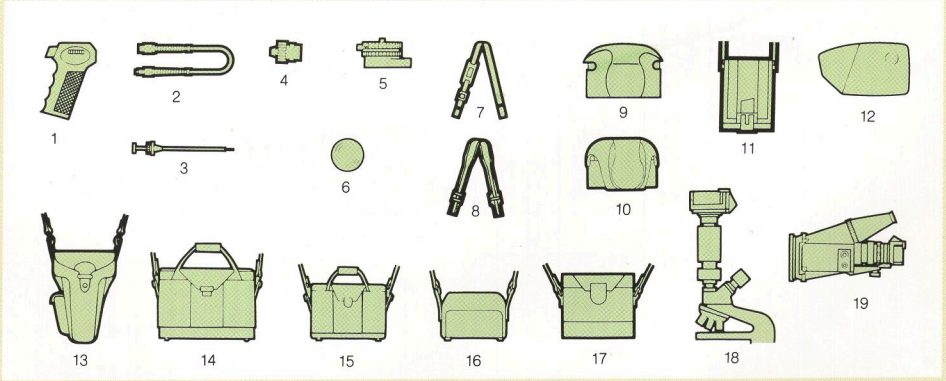
1. PB-6 Bellows Focusing Attachment
2. PB-6E Extension Bellows
3. PS-6 Slide Copying Adapter
4. PB-6M Macro Copying Stand
5. PG-1 Focusing Stage
6. BR-4 Auto Adapter Ring
7. AR-7 Double Cable Release
8. AR-4 Double Cable Release
9. PK-11 Auto Extension Ring
10. PK-12 Auto Extension Ring
11. PK-13 Auto Extension Ring
12. PN-11 Auto Extension Ring
13. Extension Ring Set K
14. Close-up Attachment Lenses
15. BR-3 Ring Adapter
16. BR-2 Macro Ring Adapter
17. PF-4 Repro-Copy Outfit
18. PH-4 Camera Cradle
19. Gray Card
20. PC-3 Table Clamp

Motor Drive & Remote Control Accessories



1. MD-4 Motor Drive
2. MN-2 NC Battery Unit
3. MH-2 NC Battery Quick Charger
4. MA-4 AC/DC Converter
5. MW-1 Radio Control Set
6. ML-1 Modulite Remote Control Set
7. MT-1 Intervalometer
8. MC-11 External Power Cord
9. MC-10 Remote Cord with Button Release
10. MC-4 Remote Cord
11. MC-3 Grip Cord
12. AH-2 Tripod Adapter
13. MF-6 Camera Back
14. MR-2 Terminal Shutter

Other Accessories

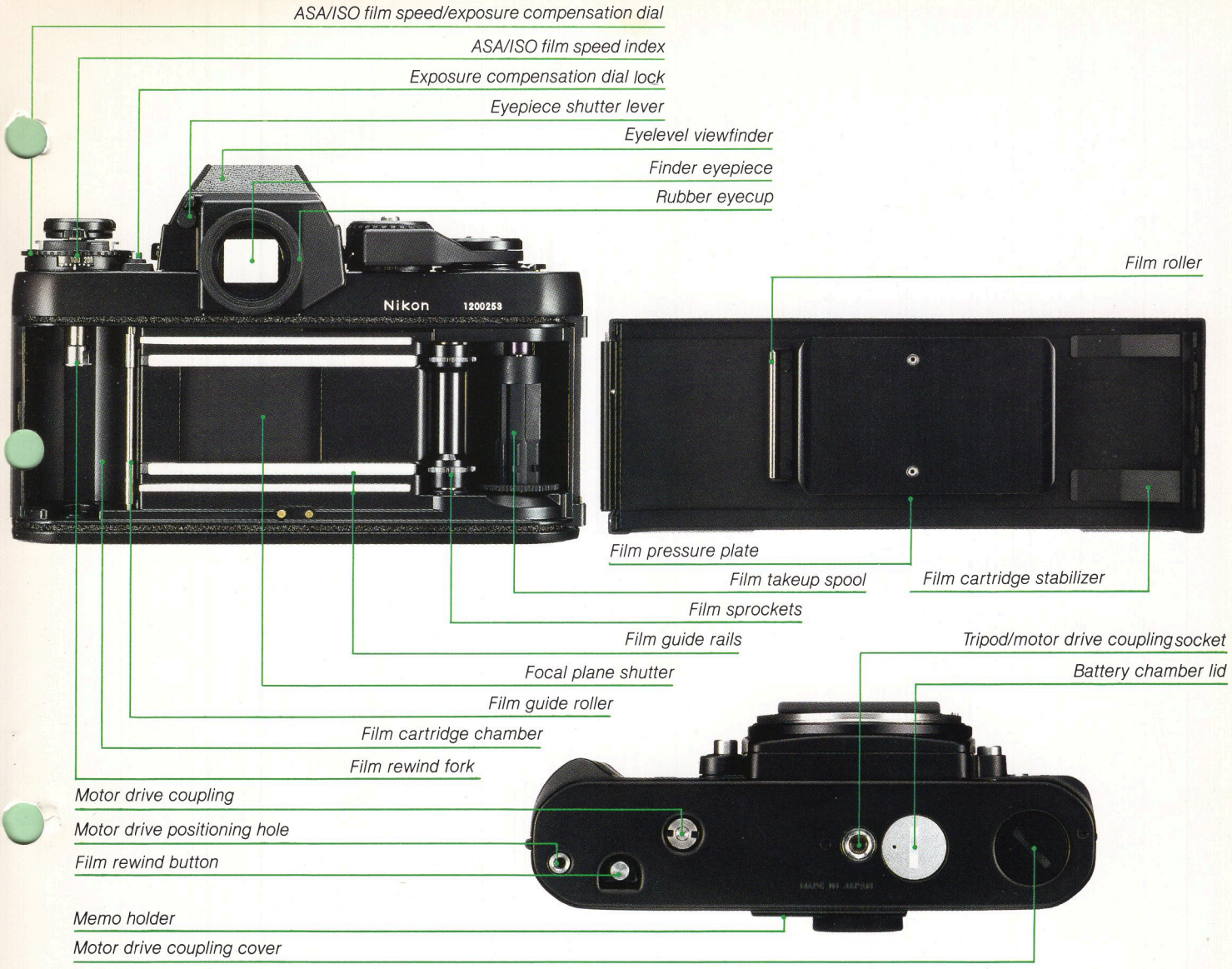


1. Pistol Grip Model 2
2. AR-6 Cable Release for Pistol Grip
3. AR-3 Shutter Cable Release
4. AR-8 Release Adapter
5. AP-2 Panorama Head
6. Camera Body Cap
7. AN-1 Leather Neckstrap
8. AN-4B & AN-4Y Nylon Neckstraps
9. CS-7, CS-9 and CS-10 Soft Camera Cases
10. CF-20 Semi-Soft Leather Camera Case
11. CB-1, CB-2 and CB-3 Custom Shoulder Cases
12. CS-13 Blimp Camera Case
13. CF-6 Semi-Soft Camera Case
14. FB-11A Compartment Case
15. FB-15 Compartment Case
16. FB-14 Compartment Case
17. FB-16 Compartment Case
18. Micro Adapter Tube Model 2
19. Oscilloscope Recording Unit Model D

NOMENCLATURE

SPECIFICATIONS

Type of camera	35mm single-lens reflex
Picture format	24mm × 36mm (standard 35mm size)
Lens mount	Nikon bayonet mount
Lenses	Nikkor 50mm f/1.2, 50mm f/1.4, or 50mm f/1.8 as standard; more than 55 Nikkor and Nikon Series E lenses available
Shutter	Horizontally traveling titanium focal-plane shutter
Shutter release button	Electromagnetically controlled; switches meter on when depressed halfway (after power switch is turned on), meter then remains on for 16 sec. after finger is taken off button; threaded in the center to accept standard cable release
Backup mechanical release lever	Trips shutter at approx. 1/60 sec. regardless of shutter speed dial setting (except "T"); used when batteries become weak or exhausted, or none are installed in the camera
Automatic exposure control	Aperture-priority automatic exposure control; stepless shutter speeds from 8 sec. to 1/2000 sec.
Manual exposure control	Quartz digital control for 16 shutter speeds from 8 sec. to 1/2000 sec., including "X" (1/80 sec.); "B" and "T" also provided
Mechanical shutter control	Possible at "T" setting on shutter speed dial or at approx. 1/60 sec. when using backup mechanical release lever
Viewfinder	Interchangeable eyelevel pentaprism type DE-2 as standard; 0.8X magnification with 50mm lens set at infinity; virtually 100% frame coverage
Eyepiece shutter	Provided; prevents stray light from entering viewfinder from the rear
Focusing screen	Type K as standard; interchangeable with 19 other types
Exposure metering	Through-the-lens center-weighted metering; Silicon Photo Diode (SPD) and metering circuits incorporated into camera body; meter works with interchangeable viewfinders
Metering range	EV 1 to EV 18 (i.e., f/1.4 at 1 sec. to f/11 at 1/2000 sec. with 50mm f/1.4 lens and ASA/ISO 100 film)
Film speed setting	ASA/ISO 12 to ASA/ISO 6400
Accessory shoe	Provided; special Nikon type located at base of rewind knob; accepts SB-12 Speedlight Unit or SC-12 TTL Sensor Cord for TTL direct flash output control; two types of flash couplers available for mounting ISO-type or F2-type direct mounting flash units



Flash synchronization	Speeds up to 1/80 sec. with electronic flash; with SB-12, flash sync is automatically set to 1/80 sec. when shutter speed dial is set to "A," or 1/125 sec. or above; flash synchronizes with shutter speed set at slower shutter speed setting; threaded sync terminal provided for off-camera or multiple flash photography
Viewfinder display	Liquid crystal display (LCD) shows shutter speed; on Auto, **+ 2000** indicates overexposure, **−8−** underexposure; on Manual, **M** appears with **+** indicating overexposure, **−** underexposure, and **− +** correct exposure; LED ready-light glows when SB-11 or SB-12 Speedlight Unit is completely recycled; aperture in use also shown through aperture-direct-readout (ADR) window
Viewfinder illuminator	Provided; illuminates both LCD and ADR f/number
Exposure compensation dial	Provided; + 2 to −2 EV in one-third increments
Exposure memory lock	Provided
Multiple exposure lever	Provided
Self-timer	Quartz-controlled 10-sec. delayed exposure; LED blinks at 2 Hz for first 8 sec., then at 8 Hz for last two sec.
Reflex mirror	Automatic instant-return type with lockup facility incorporates air-damper and brake mechanism for reduced vibration and noise
Depth-of-field preview button	Provided; coaxial with the mirror lockup lever
Film advance lever	Wound in single stroke or series of strokes; 30° stand-off angle and 140° winding angle
Frame counter	Additive type; automatically reset when camera back is opened
Film rewind	By crank after film rewind button is depressed; automatic film rewind possible when MD-4 Motor Drive is used
Camera back	Hinged, interchangeable type; opened by pushing safety lock while pulling up rewind knob; memo holder provided
Batteries	Two 1.5 V silver-oxide button-type cells installed in clip fitting into camera's baseplate; when MD-4 Motor Drive is attached, camera gets battery power entirely from batteries in motor drive
Dimensions	Approx. 96.5 mm (H) × 148.5 mm (W) × 65.5 mm (D)
Weight	Approx. 700 g (without lens)

Specifications and designs shown herein are subject to change without notice.

Nikon cameras have been flying in space on NASA's manned spacecraft program ever since the APOLLO program. This also includes SKYLAB and the joint venture APOLLO-SOYUZ.

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