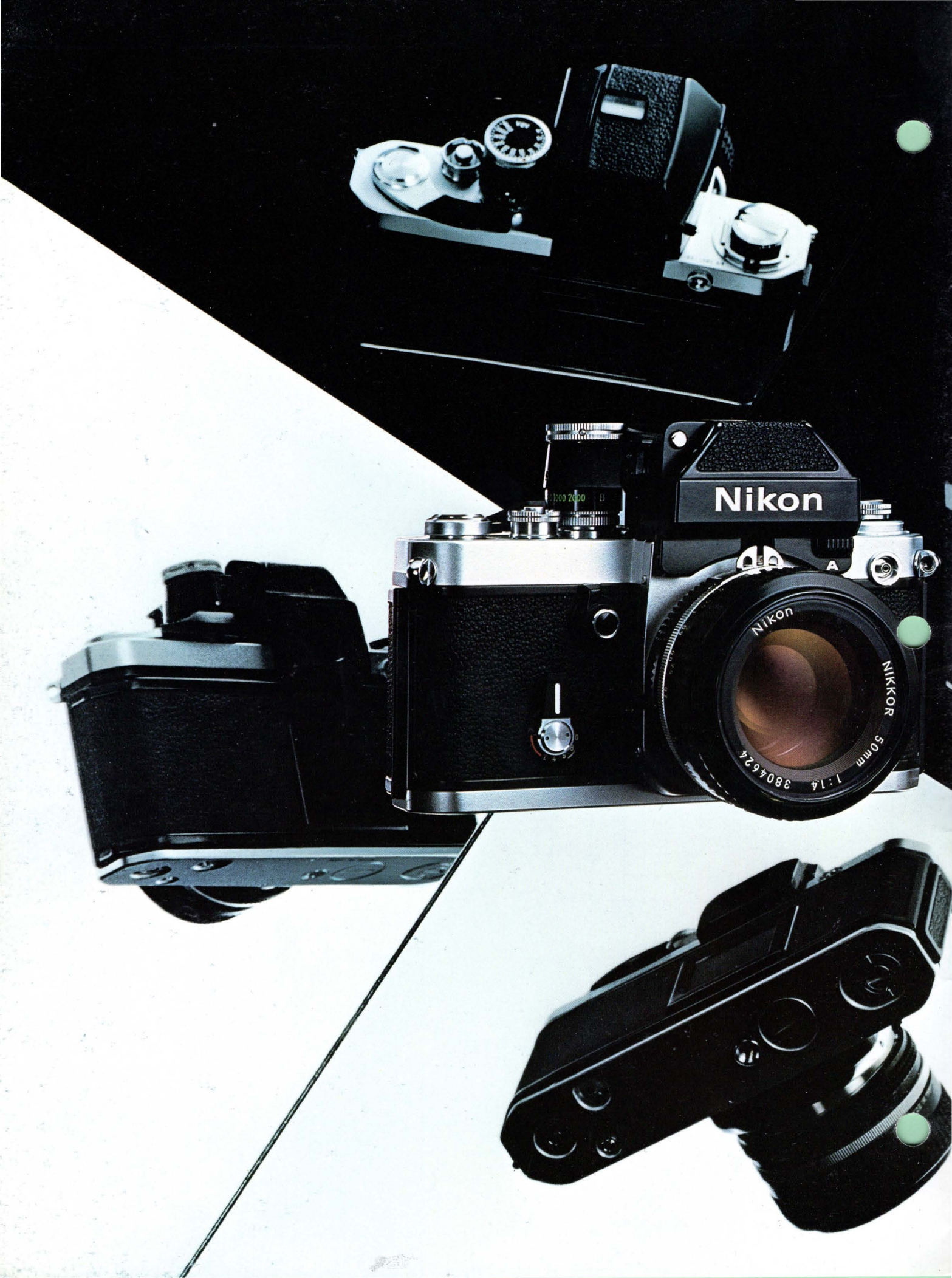
Nikon F2A *Photomic*

The new standard for Photography at its finest

Nikon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With the Nikon F2A Photomic, the Nikon System takes you another step closer to the ultimate in 35mm single lens reflex photography. An ingenious advance in its meter system enables you to interchange lenses faster and more conveniently than ever before through its new Automatic Maximum Aperture Indexing (AI) facility. The camera body is unchanged from the famous F2, retaining all the performance-proven advantages that have made Nikon the overwhelming choice of the world's foremost photographers. And, it offers the full, unequalled versatility of the Nikon System, the most comprehensive ever created for 35mm photography.

Nikon F2A Photomic

Progress which defies obsolescence

Nikon F2A Photomic

Designed with the photographer in mind

From the moment you first hold the Nikon F2A Photomic in your hand, you feel a sense of assurance. It has that unique Nikon "feel"—the combination of precisely the right shape, size and weight, with all controls shaped and placed for easy handling. The result is an almost uncanny responsiveness, a confidence that this is the camera that can transform your ideas into truly outstanding photographs.

As you really get to know your Nikon F2A Photomic, you come to appreciate the infinitely precise, incredibly rugged construction that has earned Nikon its legendary reputation for enduring reliability in professional use. You welcome the ready ease with which it accepts the multitude of interchangeable lenses, viewfinders, finder screens, motor drives, camera backs and other accessories of the famous Nikon System. And, you realize that there is virtually nothing within the realm of photographic possibility which you cannot accomplish when your camera is the Nikon F2A Photomic.

Viewing and Focusing

Nothing demonstrates the superior quality of Nikon so clearly as the F2A Photomic finder system. It is recognized as the most accurate among all 35mm SLR cameras and incredibly reliable for the most critical compositions. The extra-large F2 mirror assures that no finder image cutoff occurs even with super telephoto lenses. Focusing is equally accurate, using any of three built-in facilities: split-image rangefinder, microprism collar, and overall ground glass. The depth-of-field preview control enables you to check the visual effect at your preselected aperture before shooting. And, for special applications, the mirror can be locked out of the optical path at any time without losing a single exposure.

Exposure Control

The Nikon center-weighted meter system used in the F2A Photomic finder has been acclaimed the most reliable and widely accepted system for through-the-lens metering. The meter reads the brightness of the entire scene on the finder screen but concentrates most of its sensitivity on the central 12mm-diameter area outlined on the screen. This not only assures you of precise exposure in normal picture situations but also provides the selectivity needed for many special lighting conditions. The center-weighted balance is uniform with all lenses, and readings are equally accurate whether the camera is held in vertical or horizontal position. Complete exposure information is visible in the finder. meter needle, over and under-exposure indicators, selected aperture and shutter speed. For added convenience in special applications, the meter needle is also visible in the window on top of the finder housing. You simply center the needle in the bracket by turning the lens aperture ring or shutter speed dial, and shoot. The metering range extends all the way from EV 1 to EV 17.

The Shutter

The consistent speed accuracy of the rugged Nikon shutter is another reason more top professionals use Nikon than all other 35mm SLR cameras combined. Specially designed bearings assure its lastingly reliable performance, while its patented braking system all but eliminates vibration. The shutter curtain, made of super-strong, quilted titanium, travels across the film gate in just 10 milliseconds, which makes possible a top shutter speed of 1/2000th second. Speeds can be varied continuously from 1/80th to 1/2000th for optimum exposure control and accuracy, and range to a full 10 seconds. The Nikon F2 offers still more refinements: the T-L fingerguard around the shutter button, which helps prevent accidental exposures and also controls time exposures, and the dual-purpose self-timer lever which, in addition to its delayed shutter release function, also serves to provide long exposures up to 10 seconds.

Film Transport

Here, too, Nikon quality and practical concern for fast, convenient operation are evident. The multi-slotted F2A take-up spool simplifies and assures accurate film loading; the advance lever, whose Apollo grip was developed by Nikon for the United States space program, winds the film, cocks the shutter and operates the frame counter with a single, short, smooth 120° stroke (or with several shorter strokes). The advanced-design Nikon MD-2 motor drive even provides for automatic, motorized rewinding.

Even more important, however, is the flatness of the film as it passes through the Nikon F2 from cartridge to take-up. This is essential for maximum picture sharpness. Nikon assures optimum film flatness with a precision engineered 5-point system: cassette stabilizer, anti-belly roller, large pressure plate, extra-long precisely ground guide rails, and emulsion side-out winding onto the take-up spool. The result is Nikon picture quality, which speaks for itself.

Nikon F2–Heart of the Nikon System

In all photography, there is nothing to compare with the Nikon System. This is the key to all-encompassing versatility of the Nikon F2, extending to every conceivable photographic application. In addition to more than 55 outstanding lenses, there are six interchangeable viewfinders—two Photomic Meter/Finders, Action Prism Finder, Waist-Level Finder, Standard Prism Finder, and 6X Magnifying Finder—plus twenty finder screens to provide easy, accurate viewing and focusing for even the most specialized situations. Within the Nikon system, there are entire sub-systems for close-up and motor-drive photography, as well as hundreds of other accessories to meet any and all photographic needs. The ingenious, modular F2 design enables you to fit any of these Nikon System components to the camera quickly and easily, and to interchange them with equal facility.

What's more, the Nikon System is a dynamic, constantly growing force. New lenses and accessories are constantly added to keep your camera—as well as earlier Nikon models—in step with technological advances. This is progress which defies obsolescence—your assurance that your Nikon F2A Photomic is not simply a camera but a long-term investment in your photographic future.

Motor Drive Photography

The motor-driven Nikon SLR is standard equipment for today's news, fashion, portrait and sports photographers. Nikon, in fact, pioneered SLR motor drive photography, and every Nikon SLR accepts a motor drive—a testimonial to the rugged, reliable Nikon construction. The motor drive system for the Nikon F2, interchangeable on all F2 cameras, is the most advanced and most extensive in Nikon history. The basic, cordless motor drive can be attached to the camera in a matter of moments, providing automatic fire power in a single, easy-to-handle unit, balanced

Close-Up Photography

Nikon offers the widest available variety of equipment for this fascinating area of photography. There are inexpensive auxiliary lenses and extension tubes for close-up work up to life-size (1:1), and bellows units for macro-photography into the moderate magnification, and microscope attachments for scientific and other demanding applications. Slide copying attachments not only make slide duplicating easy but provide the potential for you to improve upon the original photographs by cropping, changing colors and other creative techniques. And, because all parts of the Nikon F2 System are designed to work perfectly with the Nikon F2A Photomic, they assure you of the most successful and rewarding results.

Flash Photography

The Nikon F2, with its professional heritage, offers special advantages for flash photography. Electronic flash may be used at shutter speeds to 1/80th second, flashbulbs at virtually any speed. Synchronization is automatic as the shutter speed is set; no separate adjustment is needed. A ready-light is built into the finder eyepiece, so with a Nikon electronic flash you can check flash readiness without taking your eye off the finder. Other features include a special "hot" shoe (with automatic safety switch) for cordless flash units and standard PC terminal, threaded for screw-on Nikon sync cords which cannot slip off accidentally.

and contoured to your grip. You can take ngle shots, short bursts, or continuous equences through an entire roll of film at firing rates variable up to 5 frames per second. Bulk-film backs, interchangeable with the F2 camera back, permit up to 250 or even 750 exposures without reloading. There is even a special F2A Photomic with either 36 or 250 exposure Data Recording Back for specialized applications.

The motor-driven F2 may be triggered with the release at the camera or with any of several remote control systems, including radio control and the light-operated Nikon Modulite unit. Linked to a Nikon Intervalometer, it can perform automatic, unmanned photography at preselected intervals for time-lapse and other specialized applications.

Another advantage of the Nikon F2 motor drive is its built-in provision for multiple exposures on one frame—an exclusive Nikon feature for creative photography.

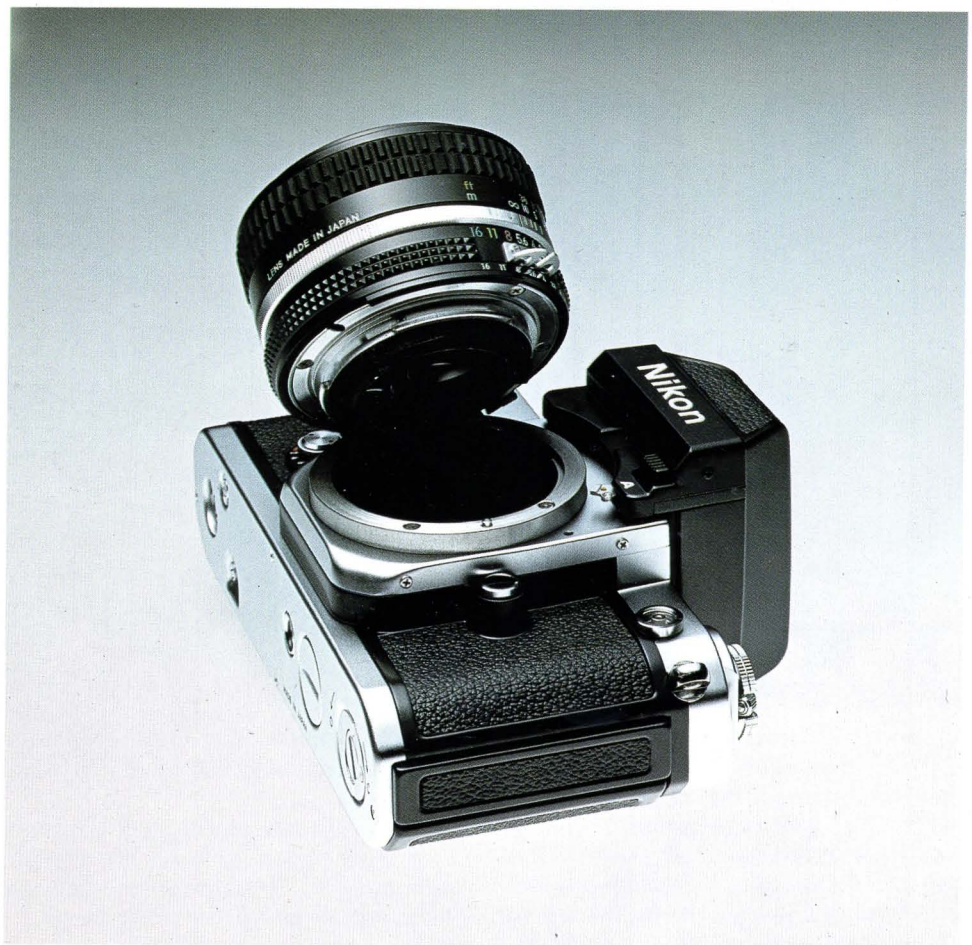
Another Nikon advance: automatic maximum aperture indexing

At Nikon, the search for speeding and simplifying the picture-taking process is a never-ending challenge. Every detail of a Nikon camera is constantly examined with a view towards improving its function. Major technological advances quickly become part of the Nikon System.

Automatic Maximum Aperture Indexing (AI) is the latest step in this constant search for improvement. When you attach a Nikkor AI lens to the Nikon F2A Photomic camera, with a simple, short turn of the bayonet mount, its maximum aperture is automatically "indexed" with the meter system for full aperture metering. As a result, you can change lenses more quickly than ever and be sure of accurate exposures.

True to the Nikon tradition of progress which defies obsolescence, this has been achieved without changing the basic, rugged Nikon bayonet mount system on either the lenses or the camera body. Instead, the F2A Photomic finder uses a newly designed coupling lever that connects directly to the meter-coupling ridge of Auto Nikkor AI lenses. Most Auto Nikkors are now available with the AI feature, and most earlier models can be readily modified for automatic indexing (see NOTES on the right). Thus, anyone owning a number of Nikkor lenses can add the F2A Photomic to his own Nikon system with the assurance that virtually all can be used with this new camera, without any sacrifice in performance.

These latest Nikkor AI lenses also provide Aperture Direct Readout (ADR) in the F2A Photomic finder. They are equipped with two aperture scales. You preselect your aperture as usual on one scale; the other reflects the chosen aperture setting into the finder where it is clearly visible. This feature, too, is added to most earlier Auto Nikkors at the same time as the AI modification.



NOTES

- **The Nikon F2A Photomic accepts all Nikon System lenses, past and present.** It provides exposure metering at full lens aperture as well as aperture direct readout (ADR), with all Auto Nikkor lenses equipped with the automatic indexing (AI) feature. With other Nikkor lenses which have not been modified, the F2A Photomic permits stop-down metering.
- Earlier, non-AI Nikkor lenses can be modified to provide full-aperture metering with automatic indexing with the F2A Photomic for a moderate fee, except for a few very old lenses. Modified lenses also provide aperture direct readout with the F2A Photomic.
- The Nikon F2 body accepts all earlier Nikon F2 finders, including F2 Photomic systems. While these older finders do not offer automatic indexing (nor ADR), even with AI lenses, they still permit full-aperture metering. Earlier F2 Photomic finders cannot be modified to accommodate the automatic indexing system.
- All Nikon System accessories may be used with the F2A Photomic camera except PN-1 and PK series Extension Rings. Similar rings to fit the F2A Photomic will be available shortly (existing rings cannot be modified).
- For a list of available Nikkor lenses fitted for Automatic Maximum Aperture Indexing and Aperture Direct Readout as well as for information on modifying earlier lenses, see your Nikon dealer or write to Nikon Service Department, 623 Stewart Avenue, Garden City, N.Y. 11530.

Why Nikkor

Behind the magnificent picture quality produced by the combination of Nikon or Nikkormat camera and Nikkor lens lie several factors, all equally important.

Superior optics

Drawing upon more than 220 varieties of Nikon optical glass and the latest computer technology, Nikon designers lead the field in pioneering new, unusual, better and sharper lenses. Their major innovations include Nikon multiple-layer Integrated Coating for improved light transmission and contrast, the use of "floating elements" for optimum lens performance at close focusing distances, and Nikon extra-low dispersion (ED) glass for virtually aberration-free telephoto optics.

Superior mechanical precision

Even the finest optics cannot deliver consistently fine pictures unless the mount in which they are fitted is made to equally high quality standards. That is how Nikkor lens mounts are built, with no mechanical shortcuts. Their smooth focusing action is the result of microscopic tolerances, not extra lubrication, so that they remain smooth even years later. Ball-bearing raceways in Nikkor automatic diaphragms assure that the lens will always stop down instantly to the selected aperture—a must for consistently correct exposures. Lens elements are accurately aligned and secured with threaded retaining rings. Dozens of precision, individually tapped screws are used to prevent wobbling, anywhere.

Accurate camera-lens fitting

The rugged bayonet mount enables you to attach or detach any Nikkor lens with a quick, short turn. Specially hardened surfaces assure accurate alignment of camera and lens, even after thousands of lens changes, with far greater reliability than other lenses can achieve with adapters. Fast, convenient handling is another advantage of Nikkor lenses. Focusing and aperture rings are spaced apart so you won't grab the wrong one. Improved, rubberized grips provide a secure hold for positive control. All scales are clearly readable from above; depth-of-field markings are color coded. And, you save money on filters because the same 52mm size fits more than twenty Nikkor lenses, including the most popular types.

Nikon Total System Resolution

A camera is only as good as its lens. And both are only as good as the care and precision with which they are mated. Nikkor lenses are an integral part of Nikon Total System Resolution—the principle that Nikon System components working together will give you the best possible pictures because they're made to work together.

Nikkor Lens List

Fisheye Nikkors
6mm f/2.8*
6mm f/5.6**
8mm f/2.8*
10mm f/5.6 OP**
16mm f/3.5*

Wideangle Nikkors
13mm f/5.6*
15mm f/5.6*
18mm f/4*
20mm f/4*
24mm f/2*
24mm f/2.8*
28mm f/2*
28mm f/2.8*
28mm f/3.5*
[illegible]mm f/1.4*
[illegible]mm f/2*
35mm f/2.8*

Normal Nikkors
50mm f/1.4*
50mm f/2*
55mm f/1.2*

Telephoto Nikkors
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/4.5*
300mm f/4.5 ED*
400mm f/3.5 IF-ED*
400mm f/5.6 ED*
600mm f/5.6 IF-ED*

Super Telephoto Nikkors which require focusing unit
400mm f/4.5**
600mm f/5.6**
600mm f/5.6 ED**
800mm f/8**
800mm f/8 ED**
1200mm f/11**
1200mm f/11 ED**

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

Zoom Nikkors
28-45mm f/4.5*
43-86mm f/3.5*
80-200mm f/4.5*
50-300mm f/4.5*
50-300mm f/4.5 ED*
180-600mm f/8 ED**
200-600mm f/9.5**
360-1200mm f/11 ED**

Special Nikkors
28mm f/4 PC**
35mm f/2.8 PC**
55mm f/3.5 Micro*
105mm f/4 Micro*
58mm f/1.2 Noct*
200mm f/5.6 Medical**

* Available with AI/ADR features; check with your dealer whether the specific lens you are purchasing has this facility. Most earlier models can be modified to provide AI/ADR with the Nikon F2A.
** Stop-down metering is used; automatic indexing not applicable.

Specifications

Type: 35mm single-lens-reflex camera

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

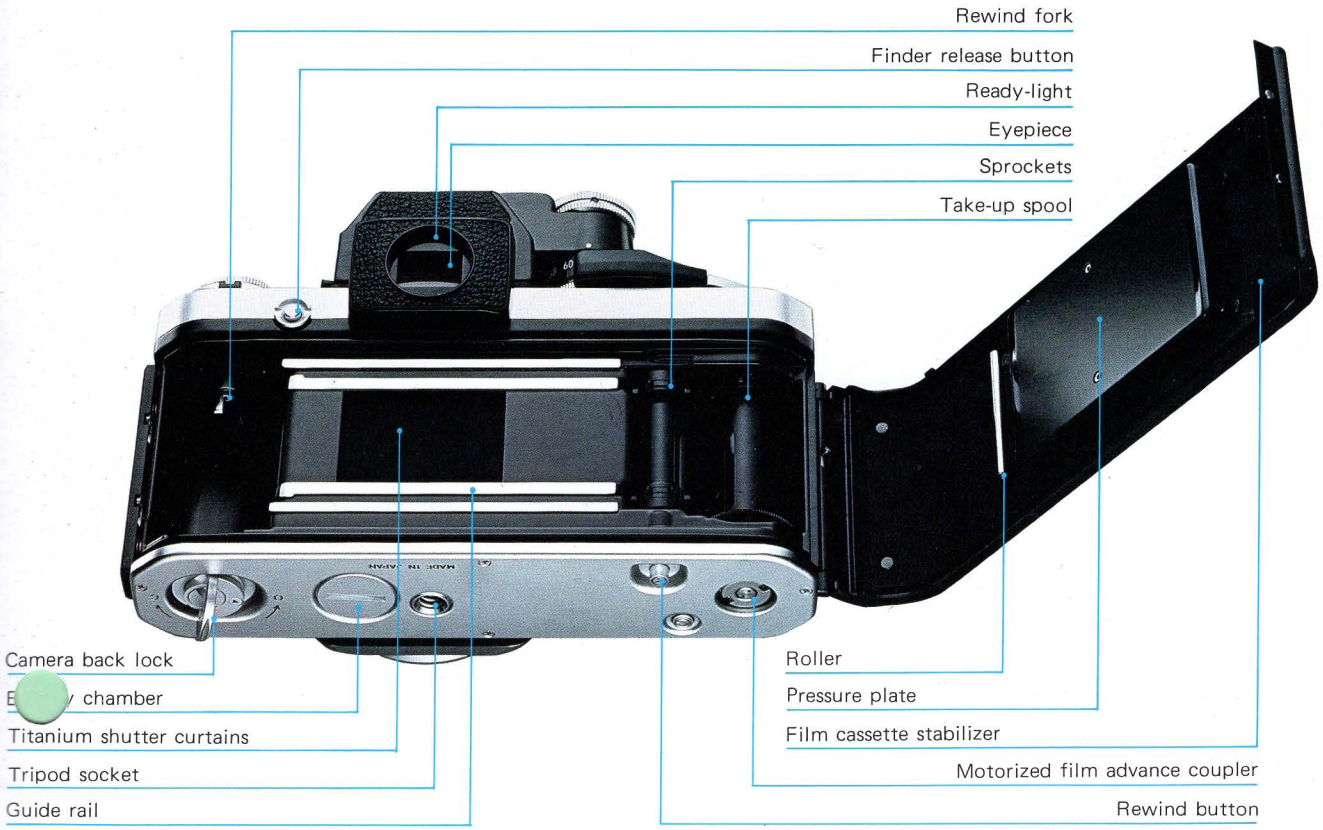
Lens mount: Nikon bayonet type

Viewing system: Interchangeable eyelevel pentaprism type F2A Photomic Finder DP-11 with virtually 100% frame coverage; exposure data visible in the viewfinder; type K focusing screen supplied as standard equipment

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; ASA range 6 ~ 6400; metering range EV 1 ~ EV 17 (i.e., f/1.4 at 1 sec., f/8 at 1/2000 sec.) with 50mm f/1.4 lens at ASA 100; built-in diaphragm/meter coupling lever for Nikkor lenses capable of automatic maximum aperture indexing (AI); aperture coupling range f/1.2 ~ f/32; powered by two 1.5V silver-oxide batteries

Shutter: Horizontal-travel titanium focal-plane shutter with speeds from 1 to 1/2000 sec. plus "B," and 2 to 10 sec. via self-timer at "B" setting; X sync provided at all settings from 1/80 to 1 sec. and "B" as the shutter speed is selected; intermediate settings possible between 1/80 and 1/2000 sec.

Nomenclature



Depth-of-field preview:	Button provided, coaxial with mirror lock
Reflex mirror:	Automatic instant-return type with lock-up feature
Self-timer:	Can be set for 2 ~10 sec. delay with scale reference graduations of 2-, 4-, 6-, 8- and 10-sec.; also serves as timer for 2 to 10 sec. shutter speed range via "B" dial setting.
Film advance lever:	Single stroke or a series of strokes, also switches meter on and off; stand-off angle 20°, winding angle 120°
Frame counter:	Additive, automatic resetting
Flash synchronization:	At any speed except T, B and X with flashbulbs, and speeds up to 1/80 sec. with electronic flash; built-in hot-shoe contact with safety switch provided; threaded sync terminal provided
Multiple exposure:	Possible
Film rewinding:	Crank type; rewinding by motor drive also possible
Camera back:	Hinged, detachable type
Motor-drive link-up:	Complete interchangeability
Dimensions:	152.5mm x 102mm x 65.5mm
Weight:	830g

Accessories

Specifications and designs shown herein are subject to change when warranted by further improvements.

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