

PRODUCT INFORMATION

No. 703-0006

**Nikon F** **MI**





***Yes, it's a com***



***And it's a Ni***



# mpact.



One look at this new Nikon, and you'll know you're in for a really great new photographic experience. Hold it, and you'll be convinced that this, at last, is the compact 35mm single-lens reflex camera to own.

Everything about the diminutive Nikon FM spells definitive performance. It does virtually everything the top-rated SLR's do...and does it in that distinctively professional way that you've come to associate with a Nikon. From the human-engineered contours of its body to the precision elements within and the rationally designed controls without, the FM is every inch a Nikon. It offers such proven features as Nikon center-weighted metering and the rugged Nikon bayonet mount...but in a tightly constructed body so perfectly balanced you instinctively know it belongs in your hands.

Exposure information? The FM's viewfinder shows you all, including an LED display that facilitates exposure determination even in dim light conditions.

Flash photography? The FM synchronizes with electronic flash at speeds up to 1/125 sec. Close-up photography?

Take your pick from one of the world's most extensive collections of accessories to suit your specific requirements.

Multiple exposures? The FM has a unique control that lets you shoot any number of exposures precisely on the same frame. Motor drive photography? The FM has its own compact, high-performance motor drive system.

With the FM, you can even go into remote-control photography.

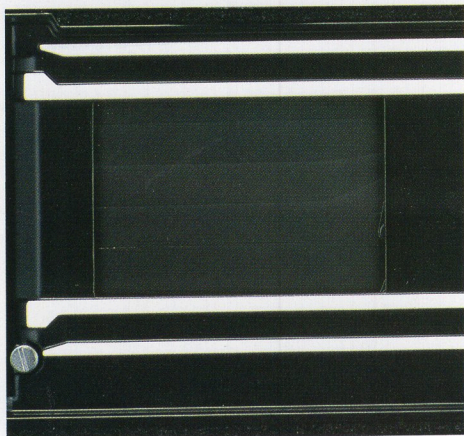
And the Nikon FM works perfectly with most Nikkor lenses, including those with the Automatic Maximum Aperture Indexing (AI) facility that not only assures fail-safe operation with the camera's built-in metering system but also makes for faster lens interchange. In fact, it's designed to work with almost all the accessories and attachments that make the Nikon System the most comprehensive ever created for 35mm photography.

The FM. If you've waited this long for a compact 35mm SLR, it's all been worth it. Now, take a closer look.

# ikon.



# The anatomy of pre



## Fast shutter travel

Compact metal focal plane shutter curtains traverse film gate in only 7 milliseconds, permitting electronic flash sync to 1/125 sec.—the fastest in 35mm SLR photography. Outstandingly quiet in operation, too.

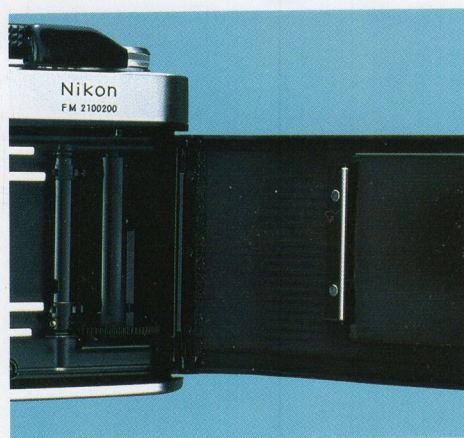


## Hinged camera back with memo holder

Swing-open type with safety lock to ensure light-tight closure; provided with convenient memo holder.

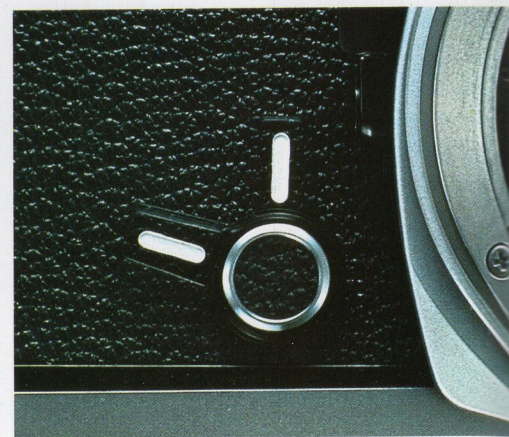
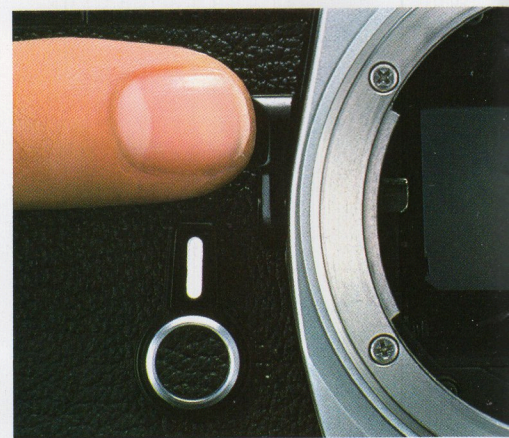
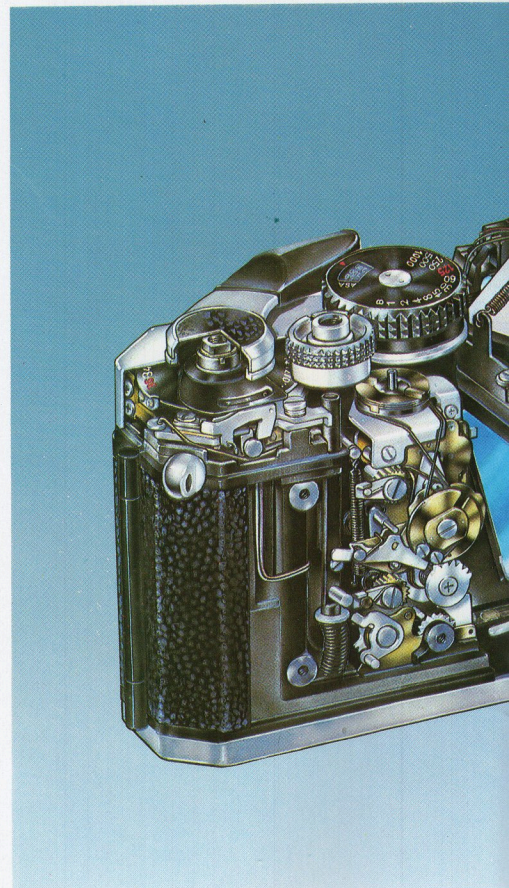
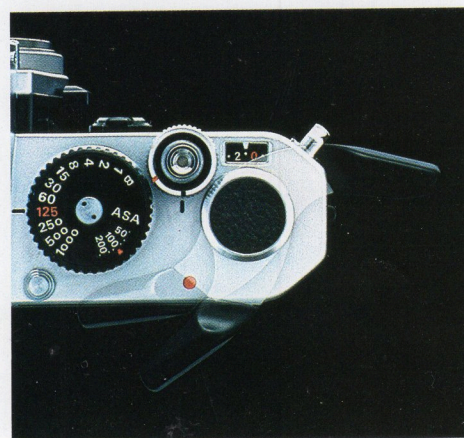
## Five-point system for perfect film flatness

Assures maximum picture sharpness. *Stabilizer* prevents film cassette from wobbling, and film moves on *extra-long, precisely ground rails* that keep it perfectly straight. Complemented by *film guide pin*, *large pressure plate* that keeps film flat across film gate and *takeup spool* that winds film emulsion side out to effectively negate its natural tendency to curl in on emulsion side; additionally, takeup spool is multi-slotted for simpler, faster film loading.



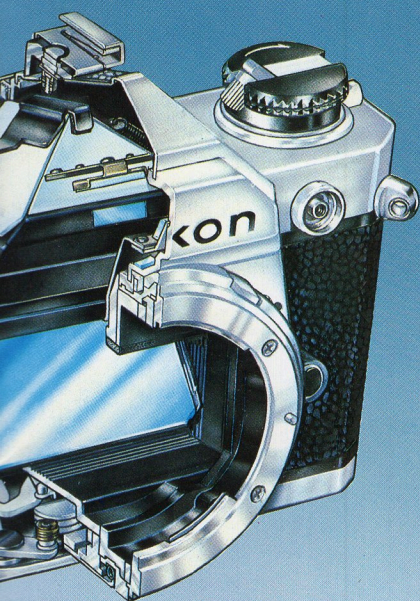
## Multiple-function, short-stroke film advance lever

Extra-long, with tip contoured in plastic, for more comfortable operation; extra-smooth winding operation; film winding torque is very light and is kept constant from first frame to last; 135° winding angle, one of the shortest in 35mm SLR; 30° stand-off position activates built-in meter switch; a single, short stroke advances film, cocks shutter and operates additive-type frame counter which automatically resets to "S" (two frames before "0") upon opening of camera back.



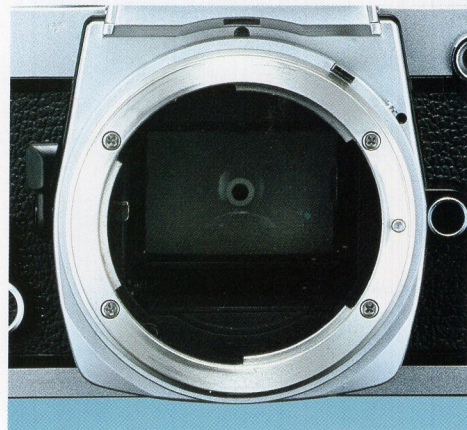


# precision performance.



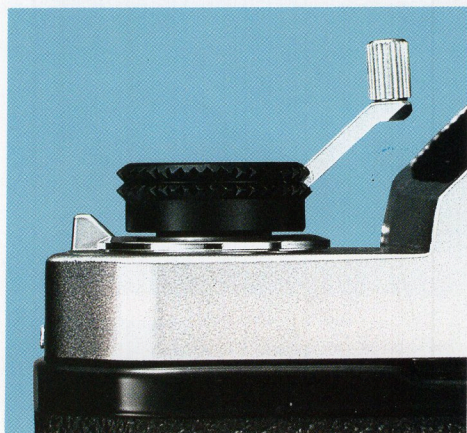
## **Rugged, proven Nikon bayonet mount**

Makes lens mounting or lens changing a twist-of-the-wrist action requiring a mere 1/6 turn, yet assures strong, precise seating and alignment of mounted lens.



## **Rapid-rewind crank**

Sets film rewind mechanism into high gear when pulled up; also serves to unlock camera back; extra-long and smooth-action rewind arm for easier operation.



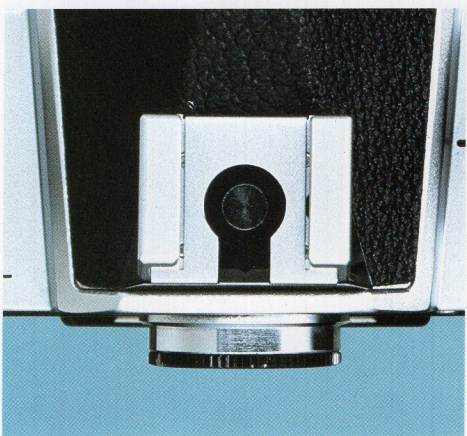
5

## **Dual-function depth-of-field preview**

Lever-type design and strategic positioning facilitate operation. By simply depressing the lever, you can preview the entire focusing range of selected aperture. Lever also used for stop-down measurement with Nikkor lenses not fitted with AI meter coupling ridge.

## **Built-in hot-sync shoe**

Readily accepts electronic flash units fitted with standard ISO-type hot-shoe contact; complemented by sync terminal which is threaded for positive connection with sync cord in either off-camera or multiple flash photography, or when using electronic flash units not fitted with ISO-type hot-shoe contact.

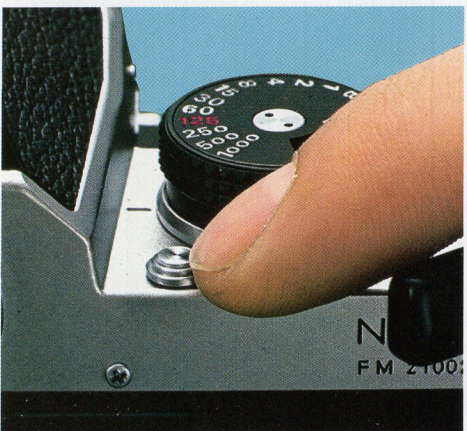


## **Unique, "cancellable" self-timer**

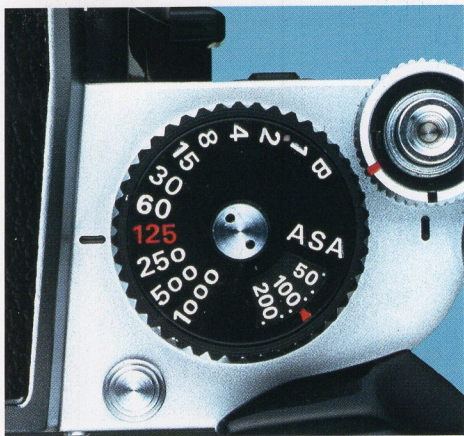
Provides exposure delays of approximately 10 sec.; the lever can be turned back at any time to "cancel" its setting. If the shutter release button has been pressed, turning back the lever will trigger the exposure.

## **Unique multi-exposure button**

Permits any number of exposures on a single frame; uniquely situated on top for easier operation with related controls. The frame counter will not advance during multiple exposure operation—a convenient way of confirming that operation is correct.

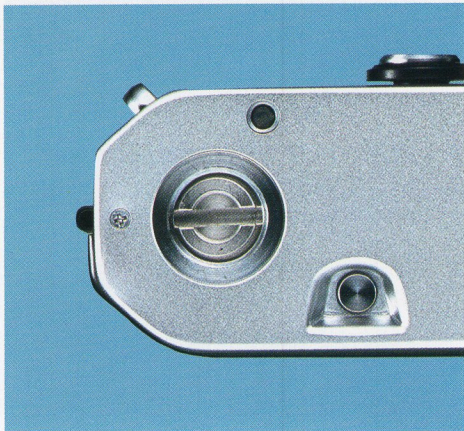






### **Combined shutter speed dial and ASA selector**

Assures coordinated, more responsive operation. Shutter speeds from 1 to 1/1000 sec., plus "B." 12-3200 ASA film speed range the widest among compact 35mm SLR's. The selector is knurled for slip-free manipulation.



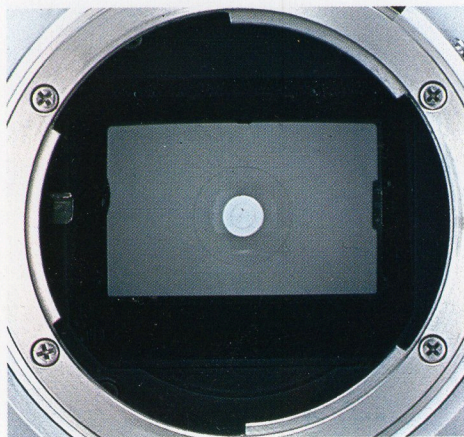
### **No-fuss, sure motor drive coupling**

Assures quick, easy attachment of MD-11 motor drive without requiring adapter or adjustment of any kind (a simple screw-on operation), making camera/motor drive assembly virtually one fully integrated unit; motorized film advance speed (e.g., number of frames per second) automatically adjusts to shutter speed selected.



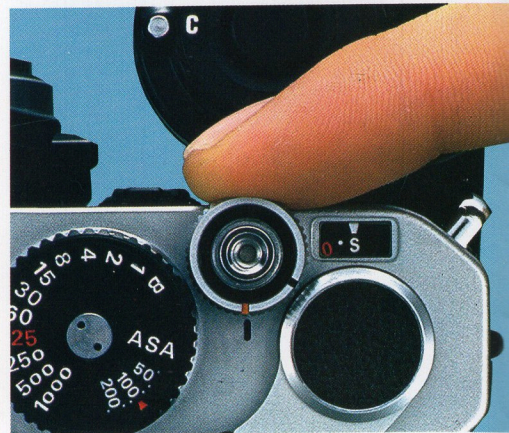
### **Convenient AI meter coupling lever**

Engages AI meter coupling ridge as lens is mounted, automatically indexing the lens' maximum aperture for fail-safe operation with camera's built-in metering system. The lever can be locked up out of the way to accommodate lenses not fitted with AI meter coupling ridge.



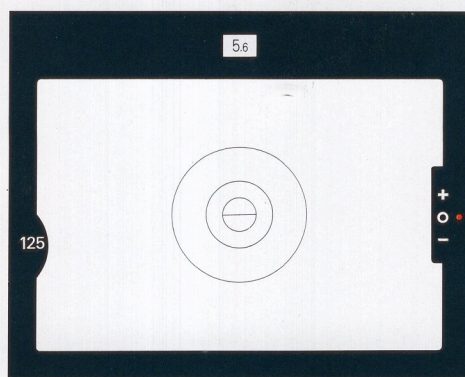
### **Large, durable mirror**

Prevents image cutoff even when using lenses with extra-long focal length; specially designed mirror back cuts down internal reflection; air-damped and uses Nikon's own braking system to reduce shock, noise and vibration at the moment of exposure and upon return.



# **NOW, YOU'RE IN**





### **All-information viewfinder for total picture-taking control**

The image, viewed through the lens via the camera's large reflex mirror, appears on the bright focusing screen which offers three viewfield characteristics—matte, microprism ring and split-image rangefinder—for total ease of focusing. Exposure information is comprehensive and includes the shutter speed set and the lens aperture selected, the latter made possible by a newly designed aperture-direct-readout (ADR) window; in addition, there are three LED's (light emitting diodes) that light up to indicate overexposure, correct exposure and underexposure in five possible combinations. Combined with the rest of the FM's logically, systematically positioned controls, the photographer is assured of complete command over the picture-taking situation without taking his eye off the viewfinder.

### **LED readout**

+ o —	Overexposure by more than 1 step
+ o —	Overexposure by 1/5 to 1 step
+ o —	Correct exposure
+ o —	Underexposure by 1/5 to 1 step
+ o —	Underexposure by more than 1 step

### **Sensitive, responsive, accurate metering**

The built-in metering system employs gallium photo-diodes (GPD), ensuring uniformly accurate response to a full range of light levels; GPD instantly responds to changing light levels to give the precise signal to the metering system, thus enabling you to shift shooting from bright to dark conditions or in-between and back... and expect sensitive, responsive, consistently accurate metering. The FM adopts Nikon's traditional center-weighted TTL metering system. The meter reads the intensity of light coming through the lens over the entire screen, but favors the central 12mm-diameter area outlined on the screen to assure you of achieving precise exposures in both normal and adverse lighting conditions. The EV range itself is from EV 1 to EV 18. Dependable operation is further assured by the incorporation of a monolithic IC and the Nikon-developed Functional Resistance Element (FRE) in the meter's circuitry.

7

# **TOTAL COMMAND.**



***All together here.  
All you need for  
all your shooting  
requirements.***





# Motor drive photography with the FM



Nikon's introduction of the first SLR motor drive in 1959 not only offered the photographer a new picture-taking convenience in the form of motorized film advance—it also opened up a whole new world of photography. No more missed shots because the camera wasn't wound or you couldn't wind it fast enough. The motor drive does this for you, so you can concentrate all your attention on your subject and catch its fleeting expressions, as well as go into sequential shooting.

A true system camera, the Nikon FM has its own motor drive system, which is centered on the MD-11 Motor Drive Unit.

Made of durable, sturdy metal and handsomely finished in black to match the camera body's black or chrome finish, the MD-11 is so compact and lightweight that the camera body/motor drive assembly weighs just as much as the average 35mm SLR.

The MD-11 can be attached to the body in seconds, requiring absolutely no modification or special adjustment; mounting (or dismounting) can be done even when the camera is loaded with film. You simply turn a screw, and the two become a virtually single unit that offers the serious, professionally inclined photographer the limitless possibilities of motor drive photography. ***Firing speed?*** You can obtain approximately 3.5 frames per second (fps) when the shooting mode is set to continuous, and the shutter speed to 1/125 sec. or faster; at slower speeds, the no. of fps automatically adjusts to the speed selected. ***Single-frame shooting?*** Possible from 1 to 1/1000 sec. ***Remote-control photography?*** Simply connect the required cord to the MD-11's built-in terminal, and make use of such Nikon remote-control accessories as the MT-1 Intervalometer, MW-1 Radio Remote Control Set and ML-1 Modulate Set. With the FM and its motor drive system, you truly catch the action ... before it catches you.

9







10





# Flash photography with the FM

Take an electronic flash unit, mount it onto the FM's ISO type built-in hot-sync shoe... and you're into flash photography. More versatile, too. The FM's shutter speed range for flash synchronization extends to as high as 1/125 sec., the fastest available in 35mm SLR photography. And the FM works with all electronic flash units that are part of the Nikon System. These include the compact, auto-type SB-series speedlights, the all-around SB-5, and the SB-6 which recycles literally in a flash to get you ready for the next moment even in motor drive photography. There are also the SR-2 and SM-2 which are especially useful for close-up flash photography. *Off-camera flash?* Screw a Nikon sync cord onto the FM's threaded sync terminal, and simply connect the other end with your speedlight. *Multiple flash photography?* Mount one electronic flash unit on the hot-sync shoe, connect another through the sync terminal—and fire away.

## Close-up photography with the FM

With the FM, one of the world's most extensive collections of close-up equipment is within your reach. From simple attachment lenses to precision research tools, they're all there to enable you to shoot anything from the texture of patina on an age-old coin to accurate copies of long-lost manuscripts. For light close-up work, there are Nikon's close-up attachment lenses and extension rings. For critical close-ups, the Nikon System offers you bellows attachments, slide copying adapters and a repro-copying outfit, among others. *Close-up lenses?* Pick a Micro-Nikkor or a Medical Nikkor, both specially designed for close-up and macrophotography. Nikon's selection of wideangle and normal Nikkor lenses let you obtain a reproduction ratio of anything up to 12 times lifesize, in combination with related accessories and attachments.







## ***Finally, Nikkor.***

Brightly, clearly, too. For where a lens can be said to make a camera, it is Nikkor lenses that make a Nikon. All 50 or more of them, the most comprehensive, most extensive line-up in 35mm SLR photography.

From computerized lens design to sheer brilliant originality, Nikkor lenses have been in the forefront of optical innovation since their first appearance more than twenty years ago with the first 35mm Nikons. And, today, the name "Nikkor" is synonymous with leadership in optics. Through numerous innovations in optical design, Nikon engineers have created advanced lens types, such as Zoom, Fisheye and PC (Perspective Control) which have all greatly contributed to the progress of 35mm SLR photography. These innovations include Nikon Integrated Coating (NIC) which reduces reflection and minimizes flare to improve

image contrast and color rendition, extra-low dispersion (ED) glass which makes full and optimum correction of chromatic aberration possible even with super telephoto lenses, and Nikon's unique internal focusing system which brings compactness and light weight into telephoto lens design.

Nikon, of course, makes its own optical glass—one of the few such lens makers in the world. So Nikon engineers can count on precisely the glass they need for precisely the lens on the drawing board.

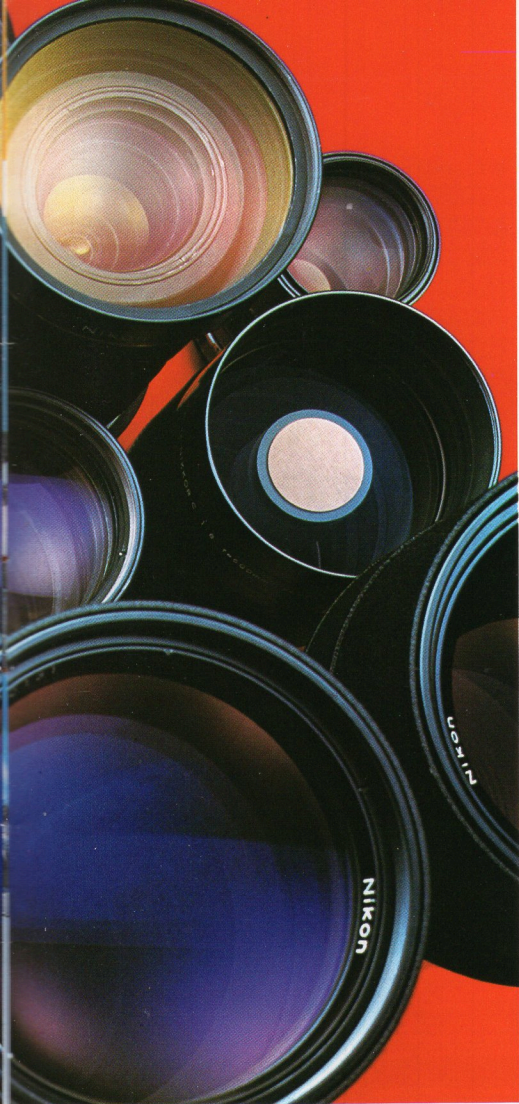
High resolving power, faster speed, better color rendition—these are not all there is to the Nikkor lens. The big, rugged bayonet mount is safe and sure yet permits twist-of-the-wrist lens mounting or changing. No threads to wear, too. The mounting lugs are made of stainless steel and phosphor bronze, so Nikkor

lenses fit like new—work like new—even after years of constant use.

Nikkor lenses lead not only in performance but also in looks and feel. The aperture and footage scales are readable at a glance—even in low available light. The aperture scale and the focusing ring are spaced just far enough, so you literally feel your way through surely without taking your eye off the viewfinder. When you grip the knurled surface of the focusing ring, you know you're in control.

And now with AI incorporated into the design of most auto-diaphragm-equipped Nikkor lenses in the form of a meter coupling ridge, lens mounting or interchange is not only simpler. Camera meter and lens coupling has also become a simple matter . . . of mounting the lens. As the lens is mounted, its maximum aperture is automatically indexed with





# Nikkor Lenses

## Fisheye Nikkors

6mm f/2.8  
8mm f/2.8  
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  
35mm f/1.4  
35mm 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 (focusing unit required)

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\*  
45mm f/2.8 GN  
55mm f/3.5 Micro  
58mm f/1.2 Noct  
105mm f/4 Micro  
200mm f/5.6 Medical\*

**NOTE:** When used with the Nikon FM, the new AI Nikkor lenses offer the Automatic Maximum Aperture Indexing (AI) and Aperture-Direct-Read-out (ADR) facility. Nikkor lenses without this facility can still be used with the FM, a combination that requires stop-down metering. Nearly all Nikkor lenses, except for some very old models, can be modified to offer the AI and ADR facility. Please check with your camera dealer for detailed information regarding AI lens modification.

\* The design of these lenses does not permit full-aperture metering; AI not applicable.

the meter for full-aperture metering. And Nikon has added this facility to the Nikkor lens without changing the basic Nikon bayonet mount, thus assuring the integrity of the Nikon System.

Mount a Nikkor on your Nikon, and sense the fine balance that cannot exist unless the camera and the lens are made for each other—as are the Nikon FM and Nikkor lenses . . .





# Nikon FM Nomenclature

ASA film speed window

ASA film speed index

Film advance lever

Meter ON index

Frame counter

Memo holder

Shutter release button

Shutter release lock/mode selector

Self-timer lever

Shutter speed/ASA selector ring

Depth-of-field preview lever

Viewfinder eyepiece

Rewind fork

Shutter curtains

Film guide rails

Film chamber

Film guide pin

Motor drive electrical contact

Battery chamber cover

Tripod socket

Film rewind button

Motor drive coupling

S/C lock

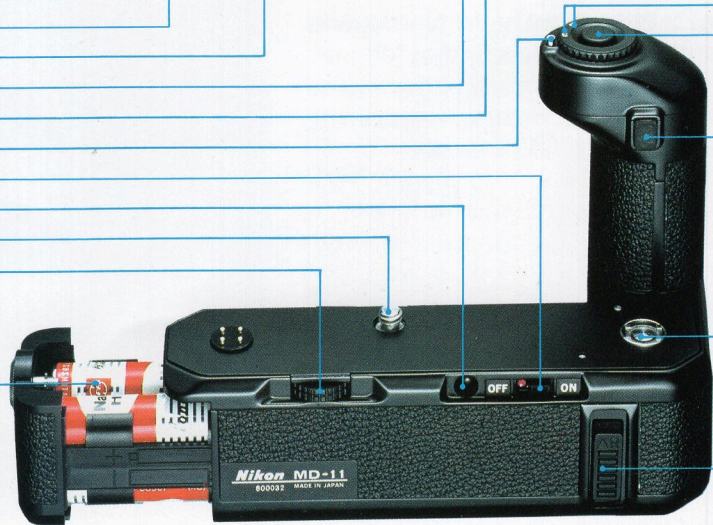
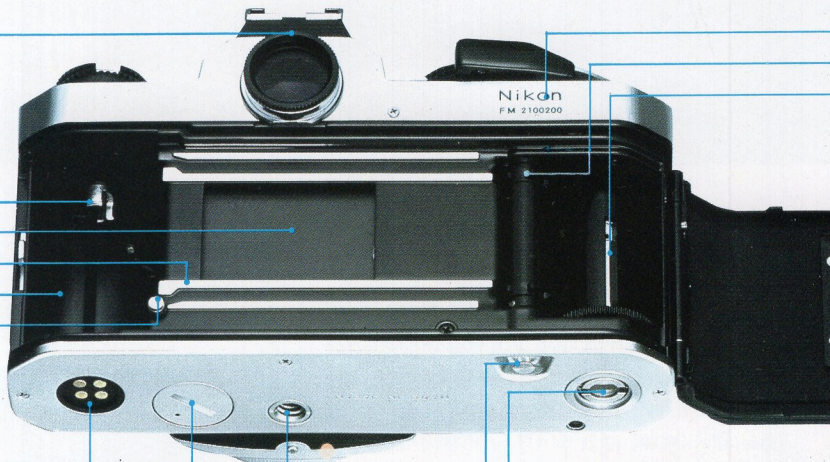
ON/OFF switch

LED indicator

Mounting screw

Mounting screw drive wheel

Battery chamber





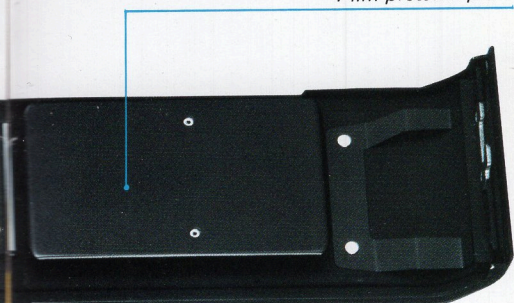
# Specifications

Shutter speed dial  
Multi-exposure button  
Shutter speed index  
Hot-sync shoe  
Viewfinder housing  
Film plane indicator  
Film rewind crank  
Lock for camera back opening

Sync terminal  
Neckstrap eyelet  
Meter coupling lever  
Lens mounting index  
Meter coupling lever release button  
Lens release button

Lens mounting flange  
Reflex mirror

Serial number  
Film sprockets  
Multi-slotted film takeup spool  
Film pressure plate



S/C mode selector  
Shutter release button

Protection pad

Camera body coupling

Film rewind slider

Type of camera:	35mm single-lens reflex
Picture format:	24mm x 36mm (35mm format)
Lens mount:	Nikon bayonet type
Lenses available:	Nikkor 50mm f/1.4, f/2 or 55mm f/1.2 as standard; more than 55 Nikkor lens models in all
Viewing system:	Fixed eye-level pentaprism viewfinder; focusing screen consists of microprism/split-image rangefinder with matte Fresnel field; shutter speed indicated in the viewfinder; lens aperture setting indicated in the viewfinder when lens in use is fitted with an aperture-direct-readout (ADR) lens aperture scale
Shutter:	Vertical-travel, metal focal-plane shutter with speeds from 1 to 1/1000 sec., plus "B"
Exposure meter:	TTL meter featuring center-weighted metering; full-aperture exposure measurement with AI Nikkor lenses fitted with meter coupling ridge; stop-down exposure measurement applies for other lenses; LED display indicates five exposure graduations through combinations of three symbols (+, 0, -); meter cross-coupled with both lens diaphragm and shutter speed controls; metering range EV 1 to EV 18 (i.e., f/1.4, 1 sec. to f/16, 1/1000 sec., with 50mm f/1.4 lens at ASA 100); ASA sensitivity setting 12-3200; aperture coupling range f/1.2- f/32; meter powered by two 1.5V silver oxide batteries
Reflex mirror:	Automatic instant-return type
Depth-of-field preview:	Lever provided
Self timer:	Can be set for up to approx. 10-sec. delay; setting "cancellable"
Film advance lever:	Single-stroke type; also switches meter on or off; stand-off angle 30°, winding angle 135°
Frame counter:	Additive, automatic-reset type
Film rewind:	Manual via film rewind button and crank
Multiple exposure:	Possible via multi-exposure button (either manual or with optional motor drive)
Flash synchronization:	Built-in ISO-type hot-shoe contact with safety switch for synchronization with electronic flash units at speeds up to 1/125 sec.; sync terminal provided
Motor-drive link-up:	Electrical contacts built-in for operation with optional MD-11 Motor Drive Unit
Camera back:	Hinged, swing-open type; detachable; memo holder provided
Dimensions:	142 (W) x 60.5 (D) x 89.5mm (H) (5-19/32 x 2-3/8 x 3-17/32 in.)
Weight:	590g (20.8 oz.)—body only
<b>MD-11 Motor Drive Unit</b>	
Camera fitting:	Nikon FM; screw-on type connection
Shooting speed:	Up to approx. 3.5 frames per second (fps) at a shutter speed of 1/125 sec. or faster, progressively slower rates at lower shutter speeds, automatically
Shooting modes:	Continuous ( <b>C</b> setting) or single ( <b>S</b> setting)
Usable shutter speeds:	1/2 to 1/1000 sec. for <b>C</b> setting; 1 to 1/1000 sec. for <b>S</b> setting
Power source:	8 AA-type 1.5V penlight batteries housed in integral battery chamber; set of alkaline batteries, will last for approx. 100, 36-exposure rolls of film ( <b>C</b> setting; normal temperature)
Pilot lamp:	Built-in LED-type; switches on during operation and when the film is exhausted
Power switch:	ON/OFF switch provided; also functions as camera meter switch
Remote-control operation:	Terminal provided for optional accessories
Dimensions:	144 (W) x 68.5 (D) x 109.5mm (H) (5-21/32 x 2-11/16 x 4-5/16 in.)
Weight:	410g (14.4 oz.)—without batteries



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



**NIPPON KOGAKU K.K.**

Fuji Bldg., 2-3, 3-chome, Marunouchi,  
Chiyoda-ku, Tokyo 100, Japan

☎ (03) 214-5311 Telex: J22601 (NIKON)

**NIPPON KOGAKU (U.S.A.) INC.**

623 Stewart Avenue, Garden City, New York 11530, U.S.A.

☎ (516) 222-0233 Telex: 426539 (NKUS UI)

**NIKON EUROPE B.V.**

Freeport Bldg., Schiphol-Centrum, The Netherlands

☎ (020) 156633 Telex: 13328 (NIKON NL)

**NIKON AG**

Kaspar Fenner-Strasse 6, 8700 Küsnacht/ZH, Switzerland

☎ (01) 909261 Telex: 53208 (NIKON CH)

**NIKON G.m.b.H**

4 Düsseldorf 30, Uerdinger Strasse 96-102, West Germany

☎ (0211) 451061 Telex: 8584019 (NIKO D)

Printed in Japan

Code No. 8037-02 KEC (7705)