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## 1. The Symbol

The Nikon F.

Today it stands as a symbol. A symbol of quality. For rarely has any product established the aura of quality that is intrinsic to the Nikon F. And, to safeguard this enviable reputation, every part of a Nikon is made by Nikon.

A symbol of reliability. Year in, year out, in the coldest,

hottest, wettest and driest corners of the world, the indestructible ruggedness of the Nikon F has made it a legend in its own time.

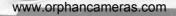
A symbol of versatility. The Nikon F is the very heart of the most complete system in 35mm photography. Almost anything within the realm of photographic possibility is within reach of the

Nikon photographer.

A symbol of creativity.

Because of its sheer versatility, its unique ability to become an extension of the photographer's eye, the Nikon F is, beyond doubt, the creative camera.

To many, its significance transcends all these considerations. For them, the Nikon F symbolizes 35mm photography.



### 2. The Camera

#### Instant-Reopen Diaphragm

The lens is always wide open for focusing and viewing. But, at the instant the shutter is released, the diaphragm automatically closes down to selected "taking" aperture, and then, instantly, automatically reopens. The design of the Nikon diaphragm is such that even if preset between aperture markings, the automatic action will not disturb the setting. And, when interchanging lenses, no attention need be paid to whether the shutter had or had not been previously wound.

#### Instant-Return Mirror

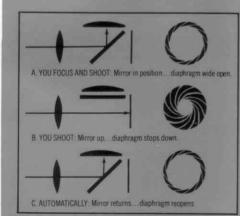
Whisper-quiet, lightning fast, the mirror flips up for the exposure and then instantly springs back to precise focusing-viewing position. The image never seems to

disappear. The action is positive and complete even with the camera held and used upside down.

The mirror action of the Nikon F is so effectively damped that there is virtually no shock of impact transmitted to the camera body, and virtually no residual vibration to deteriorate image sharpness.

#### Instant-Action Previewer

As you press the preview button, the diaphragm stops down so you can see the depth-of-field at "taking" aperture. Or you can select your aperture on the basis of desired depth-of-field. Release the button, and the diaphragm reopens instantly. The action is entirely independent of the shutter release mechanism and cannot cause accidental exposure.



### 3. The Features

- 1. High-speed film rewind crank folds down flush when not in use.
- 2. One standard terminal for flashbulbs and electronic flash does not interfere with viewing and other operations. Also has terminal for cordless flash.
- 3. Single-stroke film advance lever—also winds shutter—prevents accidental double exposures.
- 4. Non-spinning shutter speed dial—does not rotate while shutter is wound or released. Speeds: 1 sec. to 1/1000th, T and B.
- 5. Exposure counter—automatically resets to "0." Film Load Reminder for 20 or 36 exposures.
- 6. Calibrated, dual purpose self-timer pre-sets from 3 to 10 seconds. An ingenious aid for hand-held exposures at

slow-speeds.

- 7. Compensating flash synch control—compensates for flashbulb peak characteristics at all speeds to 1/1000th—electronic flash at 1/60th.
- 8. Interchangeable viewfinder— eye-level-Photomic FTN Prism/Meter System, provides full-size image of the entire field even when wearing glasses. Interchanges with Standard Prism Finder. Waist-level Finder, Prism Reflex Sportsfinder, and 6x Magnifying Finder.
- 9. Completely Removable Back—Interchanges with electric motor drives and with Speed Magny attachments for use with Polaroid film.
- 10. Ball-bearing focal plane shutter— of super-strong titanium foil—thermally

compensated to assure accurate, uniform speeds — even under temperature extremes.

11. Fixed take-up spool — precisely aligned to insure even film draw — speeds film loading.

12. Tripod socket in body casting—centered for better balance.

13. Mirror lock-up — secures mirror in "up" position for deep-set extreme wide angle lenses, such as Fisheye Nikkors, and for other, special applications.

14. Fast shutter curtain action — increases stop-action effectiveness, helps assure speed accuracy.

15. Interchangeable viewfinder screen – provides complete flexibility for any application and accommodates any personal preference. (See page 12.)

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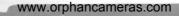
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## 4. The System

The Nikon owner's photographic horizon extends as far as the flight of his imagination. His camera is his entry to the Nikon system, the most comprehensive in 35mm photography. It provides the tneans for mastering every conceivable type of subject, from the infinitesimal world of microorganisms to the infinite expanse of the universe.

The secret behind this unequalled

versatility of the Nikon F lies in the interchangeability of its components. Not only the Nikkor lens, but also the view-finder, screen and camera back are easily interchangeable with a multitude of precision accessories to meet the needs of any picture situation.

As new photographic techniques have been developed, Nikon designers and engineers have provided the means for using them with the Nikon F. In fact, the design of this camera seems to have anticipated every major advance in single lens reflex technology, accommodating all subsequent developments in the form of easy-to-use accessories. This forward-looking basic design, complemented by continuing Nikon research, keeps your Nikon F ahead of its time, defying obsolescence.



# 5. The Interchangeable Finder System



The Nikon F is acknowledged to be the only 35mm reflex with a precisely accurate finder system. It frames the subject exactly as it will be framed on the film, showing 100% of the actual pirture area. There is no guess work as to marginal coverage. Being able to compose with such complete confidence is particularly valuable when shooting color



#### Standard Prism Finder

Houses an optically precise pentaprism and magnifier eveniece. It is used at eyelevel and shows the entire field of the focusing-viewing screen, even with glasses. The image is bright, erect and unreversed, and almost life-size with the standard 50mm lens. The eyepiece of current prism finders is threaded for screw-in diopter correction lenses and other attachments.

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slides, because they cannot be cropped. In addition, the finder and viewing sceen of the Nikon F are both interchangeable. There are five finders to choose from: Standard Prism, Waist-Level, Prism F few Sportsfinder, 6x Magnifying Finder, and Photomic FTN Meter/Prism Finder system which provides thru the lens exposure control.



#### Waistlevel Florier III

Especially **useful for macro** photography and copying, or wherever other-thaneyelevel viewing is desired. **It may** be used with camera overhead or **at a low** position, or for viewing at right angles to **the subject. It** has a self-erecting hood and folding magnifier.

You can interchange these finders at .
will, in a matter of moments, to suit your convenience or preference or to satisfy some need. You can sight with the camera above your head, upside down, at right angle to subject, or from below. Whatever viewing method a situation may call for, there is always a way with the Nikon F.



#### **6X Magnifying Finder**

Provides largest and brightest view of entire screen, with all corners visible even for those wearing glasses. Has diopter correction from minus 5 to plus 3. Optical construction is the same as a high-quality, multi-element lens. Includes rubber eyecup.



#### Prism Reflex Sportsfinder

Shows the entire picture area, right side up and unreversed, with the camera held up to 2-16" from the eye. It has an oversized, rectangular evepiece which measures approximately 1 x 11/2." Using a specially designed prism system. the finder maintains optimum brightness, as well as compactness. While providing specific advantages for sports, news and other action photography. the finder offers welcome convenience for eyeglass wearers in general. It also facilitates specialized applications, as in industrial, medical and aerial work, where protective goggles must be worn, and when the Nikon F is used in an underwater housing.

#### Rubber Eyecup

Excludes extraneous light while viewing finder image. Especially convenient for eyeglass wearers. Fits all threaded Nikon F and Nikkormat eyepieces.



#### Right Angle Finder

Screws into any Nikon F finder with threaded eyepiece (Standard Prism, Photomic T, TN and FTN); also fits Nikkormat slr's. Can be rotated 360° for viewing from above, below and either side. Prism system shows image right side up. Adjusts for individual eyesight.

#### **Eyepiece Adapter**

Permits use of screw-mounting eyepiece attachments (Right Angle Finder, Eyepiece Magnifier and Correction Attachments) with non-threaded Standard Prism and Photomic finders.



#### **Eyepiece Magnifier**

Provides 2x magnification and covers slightly more than the 12mm diameter area in the center of the finder. Adjusts for minus 4 to plus 2 diopter correction. Magnifier is hinge-mounted, swings up to permit observation of full finder area. Fits all threaded Nikon F and Nikkormat finder evenieces.

#### Correction Evepiece Attachments

Ground to specific powers, from minus 5 to plus 3 diopters, enabling eyeglass wearers to focus and view without glasses. Fit all threaded Nikon F and Nikkormat eyepieces.



# 6. The Photomic FTN Meter/Finder System

By its unique design, the Photomic FTN avoids the chief problems of other thruthe-lens meters, both averaging and "spot" systems. The former are easily fooled by irrelevant areas of extreme brightness contrast. So-called spot systems require expert selection of areas to be metered and, usually, several readings. Dual systems that provide both types not only inherit the drawbacks of both but necessitate a constant choice.

#### "Center-weighted" response

The Photomic FTN uses two CdS cells, each mounted behind a directional optical system comprising a right-angle prism, aspheric lens element, and fixed diaphragm.

While the system measures the brightness of the entire screen, about 60% of its sensitivity is concentrated on 1/7 of

the picture area. This coincides with the central 12mm diameter circle on most Nikon finder screens. From this area outward, the response diminishes rapidly.

This "center-weighted" response eliminates exposure errors where the central subject is markedly brighter or darker than the surrounding area and with backlighting. It also compensates for the natural fall-off in brightness towards the screen edges, especially with wide angle lenses. Thus, the Photomic FTN can be relied upon for correct exposure in any picture situation — with any lens, even when filters or closeup accessories are used, no matter whether the camera is held in horizontal or vertical position.

#### Full-aperture readings

The Photomic FTN does not interfere with the automatic-diaphragm conve-

nience offered by Auto Nikkor lenses. You focus, compose and set correct exposure with the lens wide open. The meter needle, which is visible through the finder and in the window on top of the FTN housing, is coupled directly to both the lens aperture ring and the shutter speed selector for all speeds from 1 second to 1/1000th. In addition, the FTN also provides correct readings for 2-second and 4-second exposures, where required. The finder also shows the selected shutter speed. The meter system is calibrated for films ranging in speeds from ASA 6 to 6400.

#### "Stop down" readings

Correct exposure can also be obtained by stopping the diaphragm down manually, with non-automatic lenses and when extension tubes or bellows are used.

### 7. The Interchangeable Finder Screens



**Type A\*** Matte fresnel field, and split-prism rangefinder. For general photography. Supplied with camera as standard equipment.



**Type H** Clear fresnel field with microprism focusing pattern over entire screen. Available in 4 models.



**Type B\*** Matte fresnel field and fine ground matte focusing spot. Especially suited for use with long-focus lenses.



**Type J\*** Matte fresnel field with small microprism spot. For general photography, with any lens.



**Type C** Fine ground matte field with clear spot and cross-hair reticle. Permits aerial image and parallax focusing.



**Type K\*** Matte fresnel field with split-prism spot ringed by 2mm wide microprism band.



**Type D** Overall fine-ground matte field. For specialized copy photography or whenever "ground glass" viewing is desired.



**Type L\*** Same as Type A screen, but the split prism is tilted at a 45° angle, making it easier to find a straight line to focus on. For general photography.



**Type E\*** Matte fresnel field and fine-ground matte focusing spot with etched vertical and horizontal lines. For architectural photography and accurate copying of flat material.



**Type M** Double crosshair reticle and scale on clear surface. For photomicrography, closeups and other work involving high magnification.



**Type G\*** Matte fresnel field with extra-bright microprism focusing spot, available in 4 models to match different focal length lenses.



Apollo Screen\* Developed for Nikon Apollo Command Module Camera. A 2mm wide microprism band surrounds a diagonal split image rangefinder plus a full field reticle on a matte fresnel field. For general photography.

<sup>&#</sup>x27;Has circular outline showing "center-weighted" measuring area for Photomic systems...

8. Finder Screen Selector

The Name Forset doesn't have to adopt to the languishes of any one screen. He has a freedom of moior through which he can satisfy any need or preference. There are eighteen different screens available for the Nikon F. Each offers some advantage in some specific application. This chart can serve as a useful guide.



Nikkor Lens	Recommended	Suitable
8mm f/2 8 Fisheye	A.B.E.J.G-1,H-1,K,L,Apollo	
20mm f/3.5	A.B.C.E.J.G-1.G-2,H-1,H-2,K,L,M,Apollo	
24mm f/2.8	A,B,E,G-1,G-2,H-1,J,K,L,Apoilo	
28mm 1/2	A,B,E,G-1.H-1,J,K,L,Apollo	
28mm 1/3.5	A,B,E,G-1,H-1,J,K,L,Apollo	
35mm f/1.4	A.B.E.G-1,H-1,J;K.L,Apollo	
35mm f/2	A,B,E,G-1,G-2,H-1,H-2,J,K,L,Apollo	
35mm f/2.8	A.B.E.G-1,H-1,H-2,J,K,L,Apollo	
35mm f/2.8 PC	B.E.J	A
45mm f/2.8 GN	A.B.E.J.G-1,H-1,K.L.Apollo	
50mm f/1.4	A.B.E.G-2,H-2,J,K,L,Apollo	
50mm f/2	A,B,E,G-1,G-2,H-1,H-2,J,K,L,Apollo	
55mm f/1.2	A,B,E,G-2,H-2,J,K,L,Apollo	
55mm 1/3.5 Micro	A,B,E,H-2,J,K,L,Apollo	G-2
85mm f/1.8	A.B.E.G-2,H-1,H-2,J.K.L.Apollo	
105mm f/2.5	A,B,E,G-2,H-1,H-2,J,K,L,Apollo	
105mm f/4 Bellows	A,B,E,H-2,J,K,L,Apollo	
135mm f/2.8	A,B,E,G-2,H-2,J,K,L,Apollo	C,D,M
135mm f/3.5	A.B.E.G-2,H-2,J.K.L.Apollo	C.D.M
180mm f/2.8	A,B,E,G-2,H-2,J,K,L,Apollo	C,D,M
200mm f/4	A,B,E,G-2,H-2,J,K,L,Apollo	C.D.M
200mm f/5.6 Medical	A,B,E,H-2,J,K,L,Apollo	
300mm f/4.5	A,B,E,G-3,H-3,J,K,L,Apollo	C,D,H-2,H-4,M
400mm f/4.5	A,B,E,G-3,H-3,J,K,L,Apolio	C.D.G-4.H-4
500mm f/8 Reflex	A,B,E,J,K,L,Apollo	C,D,M
600mm f/5.6	A.B.C.D.E.G-3,H-4,J,K,L,M,Apollo	H-3
800mm f/8	B,D,E,G-4,H-4,J,K,L,Apollo	A,C,G-3,H-3,M
1000mm f/11 Reflex	A,B,C,E,D,J,K,L,M,Apollo	G-3,G-4,H-3,H-4
1200mm f/11	A.B.C.D.E.G-4.H-4.J.K.L.M.Apollo	
43-86mm Zoom	A.B.E.H-2,J,K,L,Apollo	G-2.H-1
50-300mm Zoom	A.B.E.J.K.L.Apollo	
80-200mm Zoom	A.B.E.J.G-3.H-2.H-3.H-4.K.L.Apollo	C.D.M
200-600mm Zoom	A.B.C.D.E.G-4.H-4.J.K.L.M.Apollo	G-3.H-3