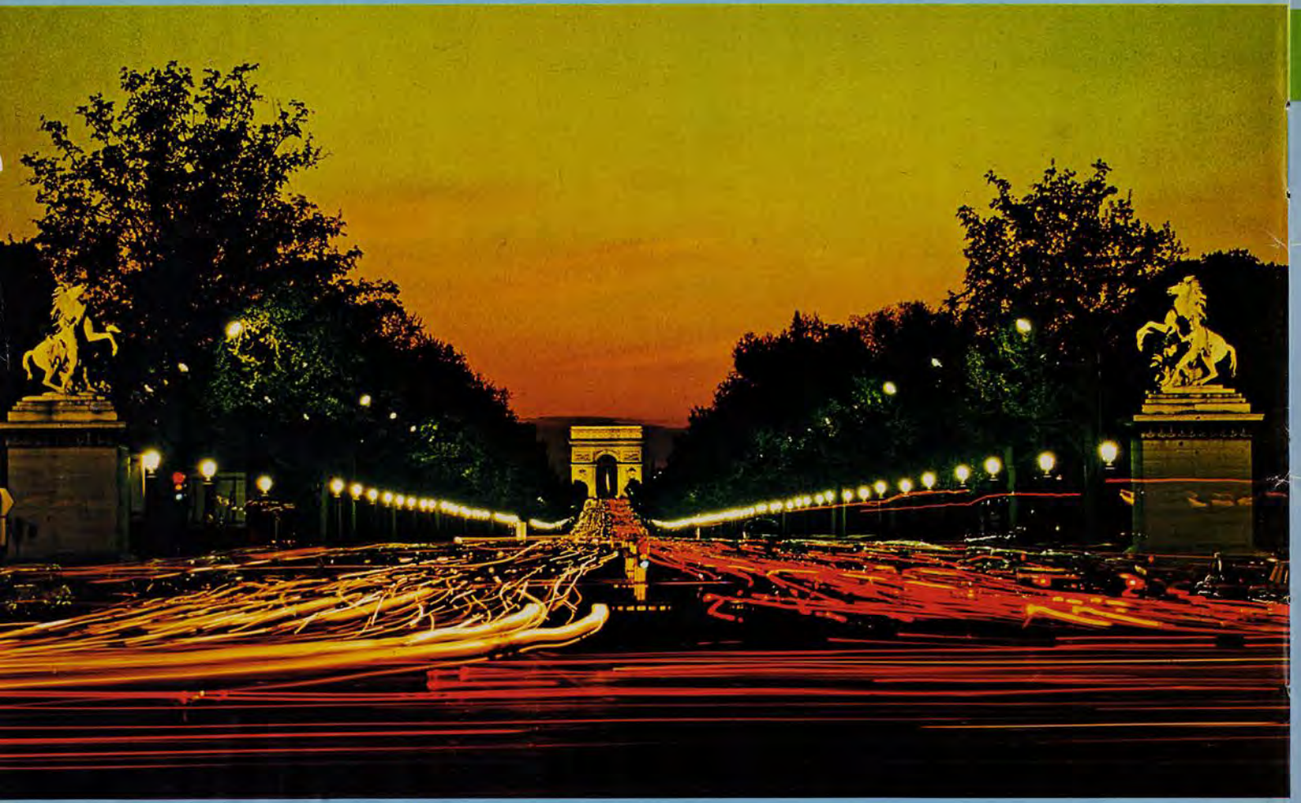
Nikon F2 System



Nikon F2
A Milestone in the Advance of 35mm Photography

Born to a unique heritage of infinite quality and versatility, the Nikon F2 is more than a magnificent camera. It is designed to expand the highest accomplishments of yesterday by using the most advanced technology of today to meet the photographic challenges of tomorrow.

An unprecedented array of innovating features endows the Nikon F2 with capabilities never before available to the 35mm user, extending even into the realm of unmanned automatic photography. But, above all, the Nikon F2 is the supreme instrument for pictorially creative expression. Through "human engineering", in countless details, from the very contours of the camera body to the shape and placement of every control, the Nikon F2 transforms the picture-taking process into a swift, effortless flow of natural motions and becomes virtually an extension of the photographer's mind.

Moreover, the Nikon F2 is designed to be part of the Nikon System, the most comprehensive in 35mm history. It accepts all the more than forty world-famous Nikkor lenses to give you a freedom of choice and an assurance of picture quality no other system can offer. With this matchless array of optics along with hundreds of Nikon accessories at your disposal, the Nikon F2 removes all limits to your photographic ambitions. And, you can depend on the proven Nikon System adaptability to technological advances to maintain the Nikon F2 as the world's foremost 35mm slr in years to come.

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The Nikon System

A Unique approach to 35mm photography

It is one thing to build a camera, add a few lenses and accessories, and call it a system. It is quite another to conceive of the camera as a totally flexible instrument capable of taking an almost infinite variety of forms, each uniquely suited for translating specific pictorial ideas into effective photographs. That is the concept on which the Nikon System is based.

Through years of constant, purposeful evolution, Nikon designers have developed a system of interchangeable cameras, lenses, viewfinders, finder screens, motor drives, closeup attachments, and countless other accessories—a system that stands unequalled in the world of photography. And, every part of this system is calculated to contribute to the superlative picture quality that is the Nikon photographer's ultimate reward.

Even more remarkable, however, is the Nikon System's immunity to obsolescence. It is as though its designers foresaw future technological advances and provided for their adoption into the system by means of ingenious accessories. Thus, the very first Nikon F can be easily transformed into a thoroughly up-to-date slr with through-the-lens exposure control even though it predates that development by several years.

With this incomparable system to support his quest for pictorial expression, there are no limits to the Nikon photographer's horizon. And as the system continues to grow, year after year, so do the rewards and the creative satisfaction of the million photographers who have already made it their own.

Nikon F2 Camera

Designed with an eye to the future, the Nikon F2 incorporates a number of innovative features.
The camera offers a wide range of shutter speeds—maximum shutter speed of 1/2000 second, stepless speed selection between 1/80 and 1/2000 second and extra-slow shutter speeds of 2 to 10 seconds. It synchronizes with electronic flash at speeds up to 1/80 second.
Accurate shutter speed and X synchronization are ensured by the faster shutter curtain travel time (less than 10 milliseconds) and the newly-devised shutter braking system. The curtain is made from super-strong and specially "quilted" titanium foil.
The film advance lever is operated in a single sweep of 120° or in a series of shorter strokes. It also serves as an on/off switch for the exposure meter built into the Photomic finders. The F2 Photomic Finder DP-1 and F2S Photomic Finder DP-2 incorporate an accurate center-weighted through-the-lens exposure meter.
Moreover, the F2 Photomic finder and Eye-Level Finder DE-1 feature a built-in ready-light for use with the Nikon electronic flash unit.
Of special importance to professional users is the F2 motor drive system which is fully interchangeable among all Nikon F2 cameras.
Other features of the Nikon F2 include a hinged back which may be removed to accept the 250 magazine back, a large automatic instant return mirror that eliminates image cut-off even with long telephoto lenses, and neck-strap eyelets fortified with stainless steel inset to prevent wear.
In addition to some 40 new accessories designed exclusively for it, the Nikon F2 accepts almost all of the accessories created for its predecessor, the Nikon F.

Nomenclature

- Finder Release Lever
  Press to remove or attach the Photomic finder.
- Battery Check Button
- Maximum Aperture Indicator
  A visual check to see that the meter is programed to the maximum aperture of the lens in use.
- Neck Strap Eyelets
  Stainless steel inserts for extra durability. Positioned for good balance.
- Synch Terminal
  Threaded for positive synch cord connection.
- Finder Locking Clamp
- Meter Coupling Pin
  Fits the coupling prong on the lens aperture ring.
- Lens-lock Release Button
  Press to release the lens for removal.
- Depth-of-Field Preview Button
  Press to stop down the diaphragm to the picture taking aperture to view depth of field.
- Mirror Lock
  Turn downward to lock up the mirror.
- Self-Timer
  Trips shutter after selectable delays of 2 to 10 seconds. Also doubles as integral part of shutter mechanism to give actual exposures of 2 to 10 seconds.

Accessory Shoe/Cordless Flash Contact
Accepts Nikon cordless flash unit, ready-light adapter, flash unit coupler or other accessories.

Film Rewind Crank
Can be pulled up halfway (about 6mm) for smooth and easy film rewinding.

Serial Number
The top edges of digits serve as the film plane indicator.

Meter Window
Lets you set the proper exposure without looking through the viewfinder.

T-L Fingerguard
For time (T) and extra-long exposures or for locking (L) the shutter release button to prevent accidental release.

Frame Counter
Indicates the number of frames exposed (up to 40). Resets to "O" automatically when back is opened.

Shutter Release Button
Guard-ring has a screw thread for Nikon cable release.

ASA Film Speed Dial
For setting the film speed from ASA 6 to 6400 for exposure metering.

Meter "ON" Indicator
Red dot is exposed when the film advance lever is pulled out to the ready position.

Film Advance Lever
Simultaneously advances the film, cocks the shutter and operates the frame counter. Also acts as on/off switch for Photomic meter.

Film Rewind Button
Depress to rewind the film or to make exact registration multiple exposures.

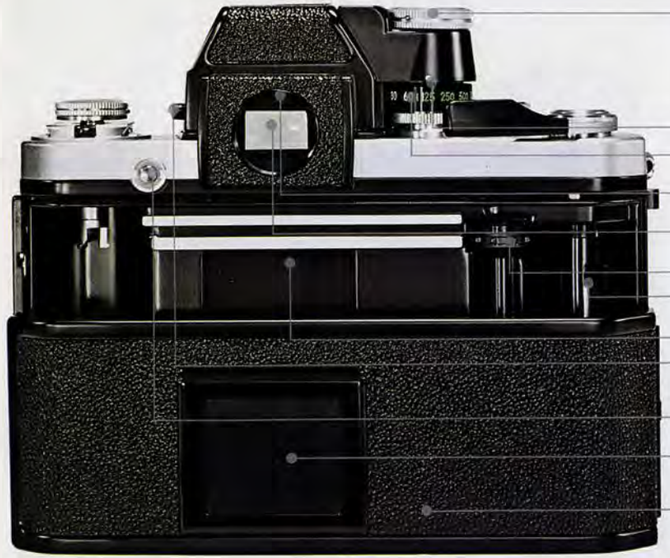
Film Advance Coupling
Advances film and cocks the shutter when the motor drive is attached.

Shutter Release Coupling
Releases the shutter when the motor drive is attached.

Tripod Socket

Battery Chamber
Houses two silver oxide batteries which power the meter.

O/C Key
For opening (O) and closing (C) the camera back.



Shutter Speed Selector

Shutter Speed Index Mark

Shutter Speed Dial
Speeds from 1 to 1/2000 sec. plus B.

Ready-light
Indicates when Nikon electronic flash unit is ready to fire.

Finder Eyepiece
Accepts various screw-in accessories.

Film Transport Sprockets

Take-up Spool
Six-slotted for easier film loading.

Titanium-foil Shutter Curtain

Ready-light Contact
Connects with the Nikon electronic flash unit by means of the ready-light adapter.

Finder Release Button
Depress to release the finder and focusing screen.

Memo Holder
Holds the end flap of film box as reminder of film type, speed and number of exposures.

Camera Back
Hinged to swing open. Can be removed to fit camera with a Speed Magny back or to fit a camera and motor with a 250 exposure magazine back.

Interchangeable Viewfinders

Long an exclusive feature of the Nikon F, the 100% accurate finder system has been retained in the Nikon F2. It shows precisely the area recorded on the film, permitting composition right up to the edges of the frame. This unique viewing accuracy is implemented by a special group of interchangeable F2 finders. The camera is supplied with a choice of standard Eye Level Finder or F2 Photomic Meter/Finder DP-1. Four others—F2S Photomic Meter DP-2, Waist-Level Finder DW-1, 6X Focusing Finder DW-2, and Action Finder DA-1—are available as accessories, as are the first two named.

The Photomic finders embody a through-the-lens metering system based on the Nikon-developed "center-weighted" principle which avoids the disadvantages of other systems using averaging or spot meters.

The former cannot distinguish among various parts of the picture area and thus may be induced by an unusually bright or dark background to give a wrong reading for the main subject. So-called spot meters, on the other hand, demand considerable expertise in selecting the area to be measured and, in most situations, require several readings from which the actual exposure must be calculated. And, systems combining both types not only inherit the drawbacks of both but add the further problem of constantly having to decide which to use.

While the Photomic meter observes the brightness of the entire picture area, 60% of its sensitivity is concentrated on the central 12mm-diameter circle outlined on the finder screen—approximately 1/8 of the total area. The meter sensitivity diminishes sharply from this area towards the edges of the screen.

As a result, the Photomic system provides accurate exposure with a single reading, not only for general situations but also where there is a marked difference in brightness between central subject and surrounding area. It is equally accurate whether the camera is used in horizontal or vertical position.

What's more, the system works with all Auto Nikkor lenses at full aperture so that the finder remains at maximum brightness even while you set your exposure. It also permits stop-down readings, with non-automatic lenses and when bellows or extension tubes are used. Complete exposure information is visible in the viewfinder.

The eyepiece of the F2 Photomic, F2S Photomic and Standard Prism Finders contains a ready-light which, when connected to the Nikon Electronic Flash Unit, lets you check flash readiness without taking your eye off the finder. The F2S Photomic accepts the EE Aperture Control Attachment which equips the Nikon F2 with self-activating, fully automatic exposure control.

F2 Photomic Finder DP-1

The F2 Photomic combines a brilliant eye-level prism finder with the through-the-lens "center-weighted" meter system for quick, accurate and reliable exposure control, even in difficult lighting situations. It is powered by two silver oxide batteries housed in the camera baseplate and coupled to both lens aperture and shutter speed controls. Complete exposure data are visible beneath the picture area: meter needle, indicating correct or over- or under-exposure, plus selected aperture and shutter speed settings. The meter needle also appears in a window on top of the Photomic housing. Using the meter involves no added operation—the on/off switch is activated by the film transport lever.
The F2 Photomic offers an uncommonly wide metering range, from EV 1 to EV 17 (e.g., 1 second at f/1.4 to 1/2000 at f/8 with ASA 100 film, using the 50mm f/1.4 lens). It can be set for film ratings from ASA 6 to 6400 and couples to Auto-Nikkor lens apertures from f/1.2 to f/32, as well as shutter speeds.
A special feature of the F2 Photomic is the eyepiece ready-light for use with the Nikon electronic flash unit. The eyepiece accepts various accessories (eyepiece correction lenses, right angle finder, eyepiece magnifier and rubber eyecup).

Eye-Level Finder DE-1

Designed for use in general photography, the Standard Prism Finder DE-1 has an extra-large eyepiece for comfortable focusing and composing. The finder accepts various accessories such as the 2X magnifier, Photomic illuminator, eyepiece correction lenses, etc. The DE-1 also incorporates a ready-light for use with the Nikon electronic flash unit.

Waist-Level Finder DW-1

This finder is especially useful for macro photography and copying. It also permits viewing and focusing with the camera held overhead or at a low position. The hood opens at the touch of a button and folds compactly against the camera body. A fold-away 5X magnifier is built in to facilitate critical focusing.

F2S Photomic Finder DP-2

The F2S Photomic may be used by itself as a prism finder/meter or with the EE Aperture Control Attachment for fully automatic, self-activating exposure setting.
Similar in principle to the F2 Photomic, the F2S provides through-the-lens "center-weighted" metering at full aperture. Its sensitivity, however, is trully astonishing, ranging from EV minus 2 to EV 17. This means accurate readings in light so dim that it would require an exposure of 6 seconds at f/1.4 with ASA 100 film—without any booster attachment!
Instead of a meter needle, the F2S Photomic uses solid-state light-emitting diodes as exposure indicators.
Plus or minus symbols glow to signal over-or under-exposure, and both glow simultaneously to indicate correct exposure. Lens aperture and shutter speed settings are also visible in the finder as is the eyepiece ready-light for use with the Nikon electronic flash. The F2S Photomic adjusts for films from ASA 12 to 6400 and couples to Auto Nikkor lens apertures f/1.2 to f/32, as well as shutter speed settings. It accepts the same eyepiece attachments as the F2 Photomic and Standard Prism Finders.

●NC Battery DN-1

Power for the EE Aperture Control Attachment is furnished by the NC Battery DN-1 which is housed inside the attachment and can be recharged using the NC Battery Charger MH-1.

●EE Aperture Control Attachment DS-1

Used in conjunction with the F2S Photomic, this ingenious attachment transforms the Nikon F2 into a fully automatic camera. It embodies a tiny servo motor which is activated by the exposure meter and automatically adjusts the lens aperture ring for the correct f-stop. It may be used conventionally or, with the motor-driven Nikon F2, for remote or totally unmanned operation. The EE Aperture Control Attachment slips easily onto the front of the camera and automatically makes contact with the F2S Photomic without any cords. It uses a self-contained, rechargeable NC battery and works with all Auto-Nikkor lenses without any modifications.

With the F2S Photomic Finder DP-2 and EE Control Attachment, exposure is automatically controlled. The effects of exposure control is further enhanced when the finder and the attachment are used in combination with the Motor Drive MD-1 for capturing fast-moving subjects.

Jerry Cooke

Action Finder DA-1

The extra-large prism and rectangular eyepiece of the action finder permit full frame viewing even with the eye as much as 60mm (2-1/2 inches) away from the eyepiece. It is ideal for fast moving action or for use by those who need to wear glasses or goggles, or in specialized scientific applications where the eye cannot be brought close to the finder eyepiece.

6X Focusing Finder DW-2

Designed initially for parallax focusing with cross-hair focusing screens, it magnifies the entire viewing field by 6 times. But the 6X focusing finder can also be used with split-image or microprism screens for close-ups and macrophotography, astrophotography and other applications requiring extremely fine focusing. Its optical construction, similar to a fine lens, produces an exceptionally bright viewing image. The eyepiece may be adjusted from -5 to +3 diopters.

●Photomic Illuminator DL-1

Used with the Nikon Photomic viewfinders, it provides additional illumination for the meter needle when the camera is operated in the dark or in poor lighting conditions. It is powered by a 1.3V mercury battery.

●Eyepiece Magnifier

Screwed into the eyepiece frame of the viewfinder, the eyepiece magnifier offers 2-power magnification of the viewfinder screen for pinpoint focusing. Hinged, it may be swung out of the viewfinder eyepiece path if desired. The magnifier is available with −5 to +1 diopter corrections when combined with the dioptry of the finder.

●Rubber Eyecup

Attached to the eyepiece frame of the viewfinder, the rubber eyecup keeps out stray light to maintain a bright and clear finder image.

●Right Angle Viewing Attachment

Fitting the eyepiece of either the eye-level or the Photomic finders, this attachment permits waist-level viewing or viewing from any angle 90° off the camera's optical axis. With a 50mm lens, the combined magnification is approximately 0.6X. The range of corrections is from − 5 to +3 diopters when combined with the dioptry of the finder.

●Eyepiece Correction Lenses

Screwed directly into the eyepiece frame of Photomic or eye-level finder, these lenses allow easier and more comfortable viewing for photographers with limited visual acuity, especially for older persons who have difficulties accommodating their eyes. They offer corrections from − 5 to +3 diopters when combined with the dioptry of the finder.

Motor Drive System

Greg Wagner

Motorized Nikon F2 camera with 250 Magazine Back MF-1 and SC Remote Control Cord.

Backed by years of experience in building motor-driven 35mm cameras, Nikon has designed for the Nikon F2 camera a system of motorized photography that combines the rugged strength and reliable performance of earlier Nikon motor drive equipment with the latest technological advancements in this field.

The core of the new system is the basic Motor Drive MD-1, capable of shooting 36 frames at speeds up to five frames per second, besides carrying out single-frame operations. It is quickly attached to the baseplate of any F2 or F2 Photomic camera without having to remove the camera back, and is powered by the standard Cordless Battery Pack MB-1 or an external power source. For firing 250 frames continuously without reloading, the 250 Magazine Back MF-1 is used in combination with the MD-1. The magazine backs are readily fastened to the camera body magazine backs are readily fastened to the camera body in place of the detached camera back. Other features of the MD-1 include motorized film rewinding and a built-in relay for remote control photography by wire or radio.

One obvious use of the motor drive is sequence photography, such as sports photos, time lapse studies, security surveillance, or where the camera is operated from a distance. In these areas, the motorized Nikon F2 with its higher shutter speeds, larger format and superior film flatness produces far better picture quality than movie cameras.

Motor Drive MD-1

Cordless Battery Pack MB-1

Then, again, many professionals regard the motor drive as an integral part of their Nikon which endows the camera with truly instant and continuous responsiveness. They rely on its automatic fire power to capture the vital moment, the fleeting expression that makes a picture tells a story—and that is so often lost because it occurs just after an exposure has been made and before the photographer advances his camera for the next shot.

Motor Drive MD-1

The Motor Drive MD-1 offers a choice of five different firing speeds—H, M3, M2, M1 and L—and is capable of shooting up to 36 frames at the maximum speed of five frames per second. The standard alkaline or manganese batteries will provide speeds of 1-4 fps while the nickel cadmium batteries or the AC/DC Converter MA-2 or MA-4 will provide power for the shooting up to 5 fps. Firing speeds are set by turning the selector knob at the back of the motor drive.
The Motor Drive MD-1 has a built-in relay for remote control. The grip head may be removed from the motor drive unit for remote control triggering at distances up to three meters (ten feet). The 4-pin plug at one end of the SC Remote Cord MC-1 is connected to where the grip head is normally attached, and the grip head, containing the SC (single-continuous) knob and trigger button, is fitted to the other end of the cord. Remote triggering is also possible at greater distances using the Nikon wireless remote control.

With the MD-1, motorized rewinding of the standard film of 36 exposures takes about 7 seconds.
Another outstanding feature of this motor drive is its complete interchangeability.
Without removing the camera back and without any modifications, it may be attached to any F2 camera, simply by removing the O/C key in the baseplate and screwing the motor drive unit into position.

Cordless Battery Pack MB-1

It houses either the NC Battery Unit MN-1 (consisting of two NC batteries) or the AA Penlight Battery Unit MS-1 (containing ten 1.5V penlight batteries) to power the Motor Drive MD-1.
The battery pack is attached directly to the base of the motor drive, without any external connecting cord.

250 Magazine Back MF-1

This accessory magazine back permits bulk film loading and exposures of up to 250 frames. Mounted in place of the standard hinged and removable camera back, the MF-1 is powered by the Motor Drive MD-1.

250 Magazine Back MF-1

NC Battery Unit MN-1

NC Battery Charger MH-1

Bulk Film Loader

250 Exposure Film Cassette

Repeating Flash Head

AC/DC Converter MA-2

NC Batteries MN-1

Two 15 Volt NC batteries, MN-1 can be inserted into the Cordless Battery Pack MB-1 to provide the motor drive with firing speeds of up to 5 frames per second.

NC Battery Charger MH-1

The MH-1 provides a quick recharge for the NC batteries MN-1. With a 3 hour charge the batteries achieve 80% of charge—the balance in the next 3 hours.

AA Penlight Battery Holder MS-1

Holding ten 1.5 Volt AA penlight batteries, either alkaline or manganese, the MS-1 supplies power to the motor drive for firing up to 4 frames per second. Extra battery compartments, already loaded with fresh batteries, may be carried for fast battery changes.

AC/DC Converter MA-2

The converter, when connected to 110 Volt AC, supplies stabilized, ripple free 15 Volt DC power to the Motor Drive MD-1, using the MC-2 connecting cord.

Bulk Film Loader

For rapid loading of up to 10m (33 ft.) of film into the 250 exposure film cassette from a bulk film roll. Stops automatically at preset film length. Has fluorescent frame number markings visible in the dark.

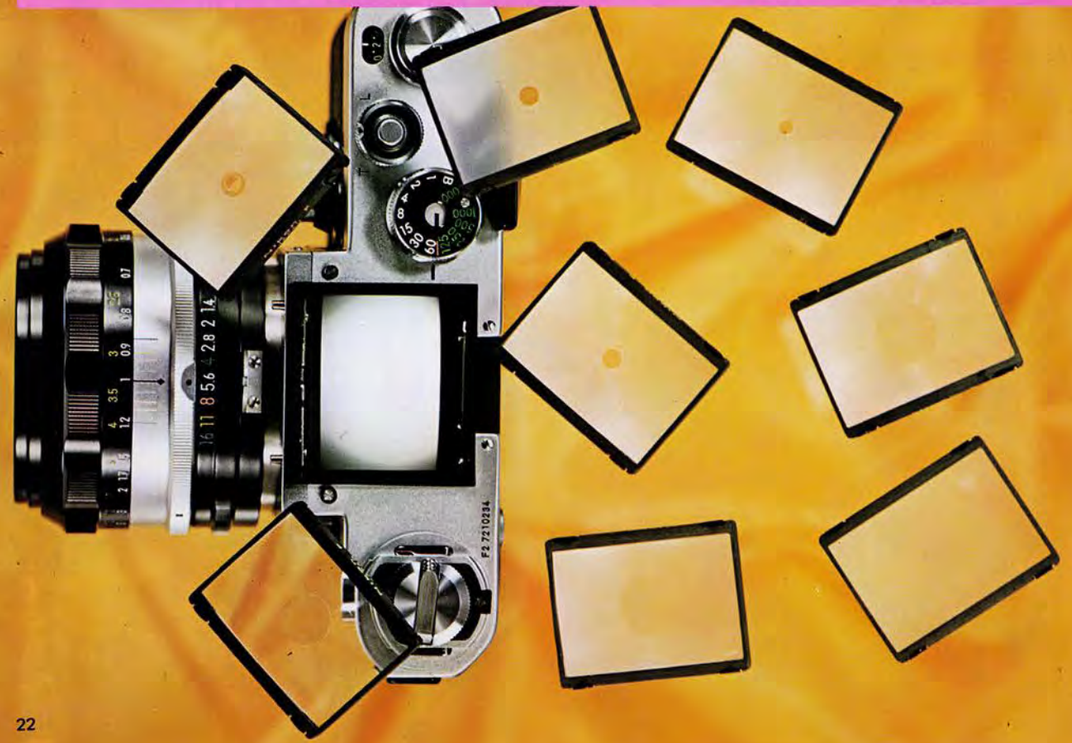
250 Exposure Film Cassette

A pair of reloadable film cassettes—one for film supply and the other for take-up—is used in combination with the 250 Magazine Back MF-1. It holds up to 10m (33 ft.) of film for a maximum of 250 exposures.

Repeating Electronic Flash Unit

The unit consists of a flash head and an AC or a DC power pack, and is used in combination with the motor drive mounted on the Nikon F2 for sequence photography, motion analysis, etc. It performs synchronized repeating flashes at the rate of 3 frames per second. Its short flash duration—1/20,000 second at 1/3 peak—permits freezing of fast moving subjects. The color temperature is 6,000°K.

Interchangeable Focusing Screens



The Nikon F2 user has a choice of 18 focusing screens—with Type A Screen supplied as standard equipment and the other 17 available as optional accessories. Each screen offers special advantages in specific photographic applications. In combination with Nikkor lenses of various focal lengths, the photographer may choose from the wide range of screens to obtain the effects he desires.

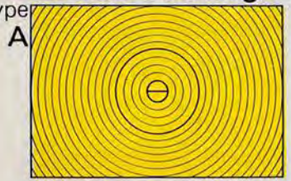
The main features and applications of the 18 focusing screens are outlined in the Focusing Screen Selector Chart. While some screens in the "Suitable" column may show slight vignetting in the viewfinder, image cut off does not appear on the film.

Nikkor Lens	Recommended	Suitable
6mm f/2.8 Fisheye	A, B, C, D, E, J, G-1, G-2, H-1, H-2, K, L, P	
8mm f/2.8 Fisheye	A, B, C, D, E, J, G-1, G-2, H-1, H-2, H-3, K, L, P	
15mm f/5.6	A, B, E, J, H-2, K, L, P	G-2
16mm f/3.5 Fisheye	A, B, E, J, G-1, H-1, K, L, P	
20mm f/3.5	A, B, E, J, G-1, H-1, K, L, P	
24mm f/2.8	A, B, E, J, G-2, H-1, H-2, K, L, P	
28mm f/2	A, B, E, J, G-1, G-2, H-2, K, L, P	H-1
28mm f/3.5	A, B, E, J, G-1, H-1, K, L, P	
35mm f/1.4	A, B, E, J, G-2, H-2, K, L, P	H-1
35mm f/2.8	A, B, E, J, G-1, H-1, K, L, P	H-2
35mm f/2	A, B, E, J, G-2, H-2, K, L, P	G-1, H-1
35mm f/2.8 PC	A, B, E, J, K, L, P	
45mm f/2.8 GN	A, B, E, J, G-1, H-1, K, L, P	
50mm f/1.4	A, B, E, J, G-2, H-2, K, L, P	
50mm f/2	A, B, E, J, G-1, G-2, H-1, H-2, K, L, P	
55mm f/1.2	A, B, E, J, G-2, H-2, K, L, P	
55mm f/3.5 Micro	A, B, E, J, K, L, P	G-2, H-2
85mm f/1.8	A, B, E, J, G-2, H-2, K, L, P	H-1
105mm f/2.5	A, B, E, J, G-2, H-2, K, L, P	H-1

Nikkor Lens	Recommended	Suitable
135mm f/2.8	A, B, E, J, G-2, H-2, K, L, P	C, D
135mm f/3.5	A, B, E, J, G-2, H-2, K, L, P	C, D
105mm f/4 Bellows	A, B, D, E, J, K, L, M, P	C, G-3, H-4
180mm f/2.8	A, B, E, J, G-3, K, L, P	C, D, H-2, H-3, H-4
200mm f/4	A, B, E, J, G-2, H-2, K, L, P	C, D
200mm f/5.6 Medical	A, B, E, J, H-2, K, L, P	H-3
300mm f/4.5	A, B, E, J, G-3, H-3, K, L, P	C, D, H-2, H-4
400mm f/4.5	A, B, E, J, G-3, H-3, K, L, P	C, D, G-4, H-4
400mm f/5.6	A, B, E, J, G-3, H-3, K, L, P	C, D, G-4, H-4
500mm f/8 Reflex	A, B, E, J, K, L, P	C, D
600mm f/5.6	A, B, C, D, E, J, G-3, G-4, H-4, K, L, P	H-3
800mm f/8	A, B, C, D, E, J, G-3, G-4, H-4, K, L, P	H-3
1000mm f/11 Reflex	A, B, E, J, K, L, P	C, D, H-3, H-4
1200mm f/11	A, B, C, D, E, J, H-4, K, L, P	G-4, H-3
2000mm f/11	A, B, C, D, E, J, G-4, H-4, K, L, P	G-3
43-86mm f/3.5 Zoom	A, B, E, J, H-2, K, L, P	G-2
50-300mm f/4.5 Zoom	A, B, E, J, G-3, G-4, H-4, K, L, P	H-3
80-200mm f/4.5 Zoom	A, B, E, J, H-2, H-3, K, L, P	G-3
200-600mm f/9.5 Zoom	A, B, C, D, E, J, G-4, H-4, K, L, P	G-3, H-3

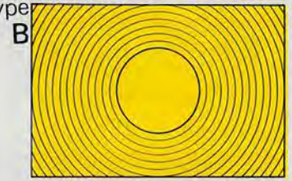
12 Basic Focusing Screens

type A



Matte/Fresnel field with a 12mm-diameter reference circle and a split-image rangefinder spot. Ideal for quick and accurate focusing in general photography. Comes with the Nikon F2 as standard screen.

type B



Matte/Fresnel field with a 12mm-diameter circle. For viewing and focusing without distraction in the center. Also recommended for lenses with small maximum aperture, such as 200mm f/5.6 Medical-Nikkor Auto, 500mm f/8 and 1000mm f/11 Reflex Nikkors, etc.

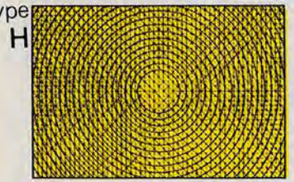
type C

Fine matte field with a cross-hair reticle in a clear 4mm-diameter center spot. For photomicrography and astrophotography, and other applications involving high magnifications, for parallax or aerial-image focusing. Requires viewfinder with focusing control. (6X finder or 2X magnifier, both with variable diopter eyepiece.)

type D

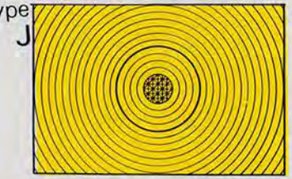
Overall, fine matte field ensures unobstructed viewing. Used especially with long telephoto lenses or for close-up work.

type H



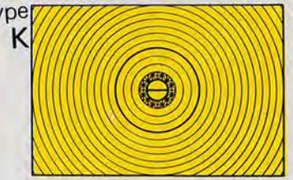
Clear Fresnel field with microprism pattern over entire screen area. Permits rapid focusing with optimum brightness. Suitable for use in low light and with moving subjects. Available in 4 models.

type J



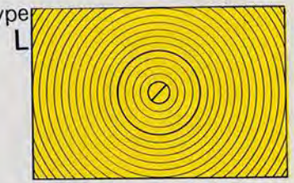
Matte/Fresnel field with a 4mm-diameter microprism focusing spot within the 12mm-diameter circle. Covers most general purposes.

type K



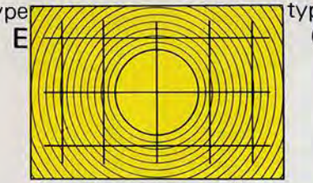
A combination of Types A (split-image) and J (microprism) screens. Rapid and accurate focusing. Suitable for general photography.

type L



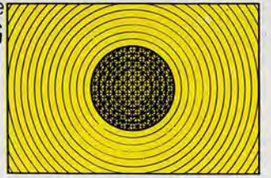
Similar to Type A screen, but with the split-image rangefinder line at a 45° angle. Especially effective when focusing on an object with horizontal lines.

type E



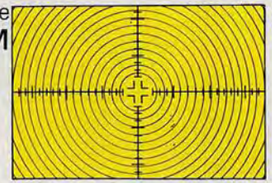
Matte/Fresnel field with a 12mm-diameter circle and etched vertical and horizontal reference lines. For picture taking that requires accurate image placement or alignment such as architectural photography with PC-Nikkor, and copying work.

type G



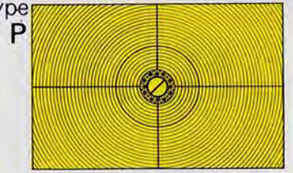
Clear Fresnel field with a 12mm-diameter microprism focusing spot. Provides an extremely brilliant image for focusing in low light. Available in 4 models to match various focal length lenses.

type M



With a double cross-hair reticle and scales on a clear surface. Recommended for photomicrography, close-ups and other work involving high magnification. Requires viewfinder with focusing control. (6X finder or 2X magnifier with variable diopter eyepiece.)

type P



Matte/Fresnel field with a central 3mm-diameter split-image rangefinder divided at a 45° angle. A 1mm-wide microprism band and a 12mm-diameter reference circle surround the rangefinder. Has etched horizontal and vertical lines to facilitate composition. Suitable for general photography

P.D. Cordon

Interchangeable Nikkor -Lenses

The Nikon F2 user commands an array of optics acknowledged to be unequalled in photography today: More than forty high-resolution Nikkor lenses, from 220° Fisheye to 40-power super telephoto, the fruit of over half a century of experience of producing quality optics.

In creating these superb lenses, which include the most innovating designs of our time, Nikon engineers begin with their choice of more than 220 types of Nikon-made optical glass. Blending human ingenuity with computer technology, they were first to employ such advanced concepts as multi-layer coatings and "floating" elements to build superior capabilities into 35mm camera lenses. And their efforts have produced a system-wide standard of excellence that offers the Nikon user consistent system resolution.

Every Nikkor lens, when used with any Nikon camera, is designed to provide the finest picture quality obtainable with any lens of that type. And, the mechanical construction of every Nikkor, including its infinitely precise mating with the camera, assures that this performance will be maintained even in the most strenuous professional use. No wonder the combination of Nikon camera and Nikkor lens has become the standard for today's foremost 35mm photographers, helping to shape the photography of tomorrow.

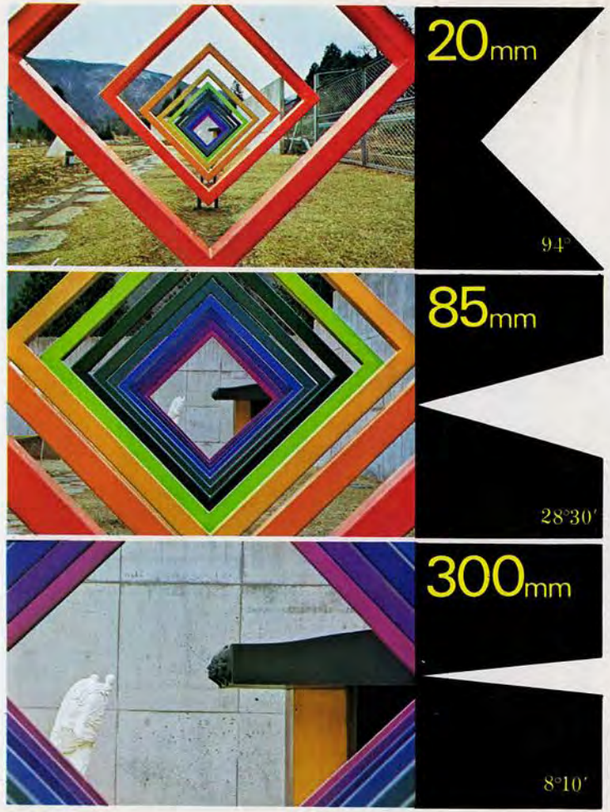
Most Nikkor lenses have automatic-reopen diaphragms and couple to the Photomic meter/finders for through-the-lens exposure control at full aperture. As a further, important convenience, those from 24mm to 200mm focal length (except the 180mm f/2.8) accept the same 52mm filters and other lens attachments.

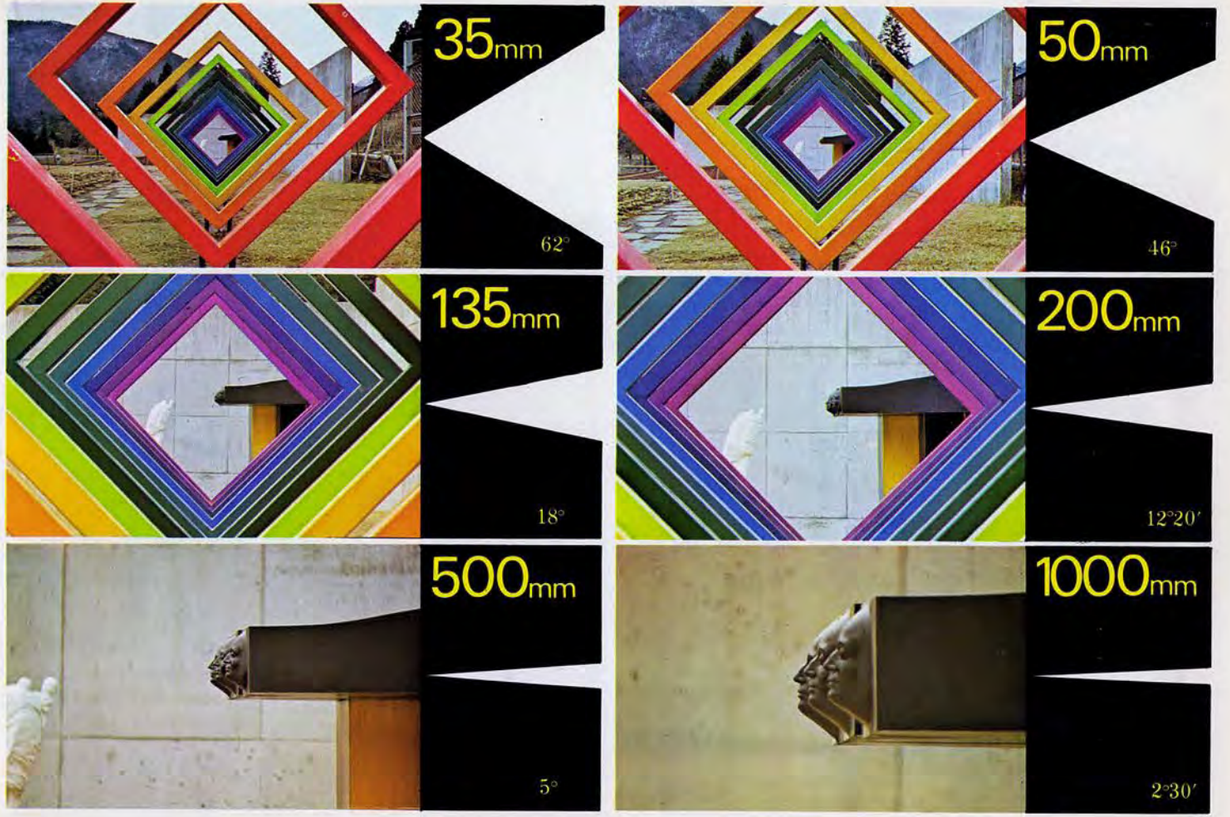
Focal Length and Picture Angle

These pictures were taken with Nikkor lenses of nine different focal lengths with the camera in a fixed position. The picture angle narrows as the focal length is increased from 20mm to 1000mm. At the same time, distant subjects become more pronounced. The sculptured heads are only slightly visible with the 20mm lens but become more distinct as the focal length increases while the multi-colored frames in the fore-ground completely disappear with the narrowing of the picture angle.

Wideangle lenses tend to exaggerate the perspective image while telephoto lenses cause foreshortening effect—subjects in different planes appear compressed.

The photographer should choose his lens carefully by first deciding on the effects he wishes to create in his picture. Here, as in all other respects, the Nikon system allows him complete freedom of expression.



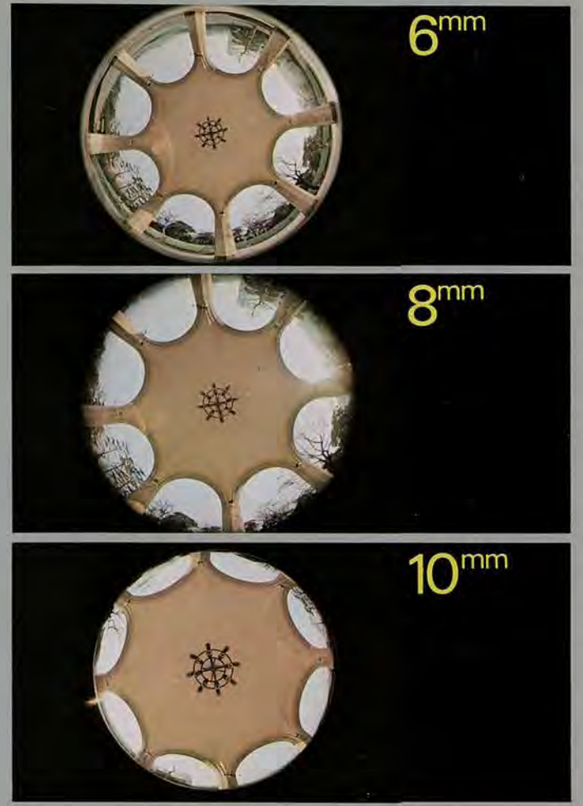


Special Nikkor Lenses

Nikon offers a number of lenses designed for special-purpose photography in the fields of journalism, sciences, industry arts and commerce. Unique in concept and design, they open up new vistas in 35mm photography.

Three of these lenses are especially suited for extremely critical close-up work. The 55mm f/3.5 Micro-Nikkor is an ideal choice for capturing the colors and details of flowers, insects, coins, etc. The 200mm f/5.6 Medical-Nikkor, complete with its own electronic ring flashlight, is applied to closeup work in surgery, dentistry, as well as to scientific and industrial uses. The 105mm f/4 Bellows-Nikkor is used solely in combination with the bellows focusing attachments.

Other lenses in this category include the 35mm f/2.8 PC-Nikkor which features combined shifting and rotating movements of the lens for perspective control and gives outstanding performance in architectural photography; the Fisheye-Nikkors which cover a 180° or a 220° picture angle for special pictorial effects and scientific analysis; and the 45mm f/2.8 GN Auto Nikkor which provides automatic flash exposure control.



Fisheye-Nikkor Lenses

With these unique optics, Nikon literally added new dimensions to the art of photography. They were originally developed for scientific applications, as in meteorology and astronomy, where their almost incredible picture coverage of 180° and even 220°, combined with their superb center-to-edges definition, have proved to be of inestimable value. And they are performing vital services in these areas as well as in city and regional planning and environmental studies.

But, inevitably, the spectacular pictorial effects that can be produced with Fisheye Nikkors have excited the imagination of countless creative photographers. Today, Fisheye Nikkor photos are adding dramatic impact to commercial and advertising photography, photojournalism, and news and sports coverage.

The Nikon System offers three Fisheye Nikkors, including the automatic 6mm f/2.8 (220°) and 8mm f/2.8 (180°)—both coupled to the Photomic meter/finders and based on equidistant projection formulas. The 10mm f/5.6 OP (180°), an orthographic projection type, is specially designed for brightness distribution studies.

All Fisheye Nikkors exhibit exceptionally great depth of field ranging from inches away to infinity. They are equipped with built-in filter turrets controlled by external selectors.

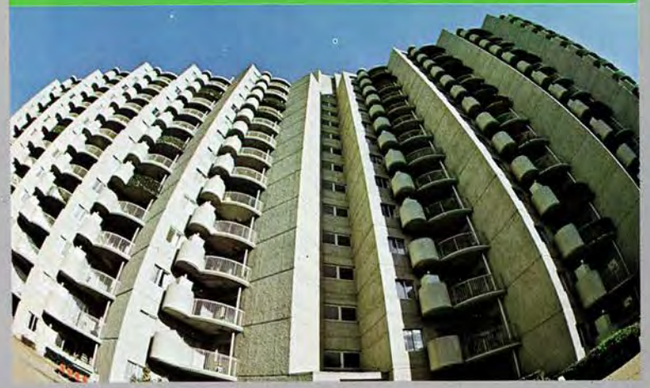
Note: Fisheye Nikkor projection formulas are expressed by the following equations:

Equidistant projection: $Y = c.\ \theta$

Orthographic projection: $Y = c.\ \sin\theta$

Y = Image size; θ = Zenith angle; c = Constant

16mm f/3.5 Fisheye-Nikkor Auto



This Fisheye-Nikkor with a lens construction of 8 elements in 5 groups offers a near hemispheric coverage of 170°.
Its notable feature is that the lens does not produce a circular image on the film like other fisheye lenses. The image fills the entire 36mm x 24mm film format but pictures taken with this lens differes from ordinary wideangle pictures in showing the "distortion" effect characteristic of fisheye lenses. And while other fisheye lenses were originally developed for scientific purposes, the 16mm Fisheye-Nikkor was designed with the special wideangle effect in mind for commercials, advertising, art photography, journalism and so on.
Framing and composition are performed through the viewfinder, and there is no need to lock up the mirror.
It comes with three built-in interchangeable filters, Y48, O56 and R60 plus one plain glass filter.

55mm f/3.5 Micro-Nikkor-P Auto

The Micro-Nikkor is remarkable for two reasons.
One, its dual-helical mount permits continuous focusing from infinity to 1:2 (one-half life size) reproduction. The use of the M2 ring, supplied with the lens, further extends this range from 1:2 to 1:1 (life size) reproduction. The automatic diaphragm remains operative throughout the entire focusing range.
Two, the lens exhibits truly outstanding resolving power that remains virtually constant at all distance settings. As a result, it is ideally suited not only for closeup and macro work—in conjunction with the Nikon Bellows Attachment PB-4 or PB-5 for reproductions greater than 1:1—but also for general photography wherever critical definition is paramount. Its front element is deeply recessed and effectively protected from stray light.

200mm f/5.6 Medical-Nikkor Auto

This versatile lens is actually a complete, self-contained closeup system. Originally intended for medical and dental photography, the Medical Nikkor is also finding wide-spread application in industrial and commercial closeup work.
It offers 11 reproduction ratio settings from 1:15 to 3:1 in combination with six auxiliary lenses. An electronic ring light is built into the front of the lens. There are also four modeling lamps built in as a focusing aid for use when the lens-to-subject distance is very small.
The automatic aperture diaphragm is adjusted to the correct f-stop simply by setting the ASA speed and the desired reproduction ratio on the lens. The frame number or magnification ratio can be imprinted at the corner of the picture if desired.

35mm f/2.8 PC-Nikkor

The PC-Nikkor incorporates shifting movements of the lens and permits photographing of massive subjects, e.g., tall-buildings, without tilting or inclining the camera—a cause of unwanted converging lines. This makes the lens valuable for architectural, industrial and commercial photography, especially where perspective correction in enlarging the negative is impractical. The rotating lens mount makes it possible to apply the shift in any direction, from horizontal to vertical.

The PC-Nikkor is also highly useful for producing panoramic pictures like the one above, by joining two exposures. Shifting the front part of the lens and not the entire camera, as necessary when a conventional lens and a panorama head are used, the photographer is able to maintain the film plane parallel to the subject so that the two frames match perfectly at the center.

45mm f/2.8 GN Auto Nikk or

The GN Nikkor has a special scale on which the flash guide number of the film in use can be preset. This simple adjustment activates a precision linking system that couples the focusing mechanism to the lens diaphragm. The diaphragm is then adjusted automatically as the lens is focused, assuring correct flash exposure at all subject distances.

In effect, the GN Nikkor transforms any flash unit into an automatic unit with several advantages. At closer distances, the lens aperture automatically becomes smaller resulting in greater depth-of-field where most needed. Also, the flash duration is constant, avoiding the risk of reciprocity failure which results from extremely short flash durations and may cause faulty color reproduction. With the guide number scale disengaged for non-flash photography, the GN Nikkor couples to the Photomic meter systems for through-the-lens exposure control. It is extremely compact, extending just 3/4 of an inch from the camera front.

105mm f/4 Bellows-Nikkor

Excellent close-up results can be obtained with this lens, designed solely for use with the bellows focusing attachments. It provides continuous focusing from infinity to 1:1.3 with the PB-4 or PB-5 bellows. The preset diaphragm may be stopped down to f/32 in accurate 1/3 stop increments. Its long focal length affords ample working distance for subject illumination and natural perspective.

Reflex-Nikkor Lenses

1000mm f/11

500mm f/8

The Reflex-Nikkor lenses are a catadioptric design, based on the principle of large astronomical telescopes. In conventional lenses, the light follows a single, one-directional path. However, in mirror-reflex lenses, such as the Reflex-Nikkors, the incoming light is doubled back, traveling the same distance in less space. The use of optical mirrors has thus created lenses that are compact and light-weight in relations to their focal lengths.
Iris diaphragms are not provided, and hence, the amount of light transmitted onto the film is controlled by neutral density filters or by the continuously-variable Nikon F2 shutter.

The Reflex-Nikkors are used extensively in science, sports and news coverage, wildlife photography and architecture. There are three Reflex-Nikkor lenses: the 500mm Reflex-Nikkor weighing about 1 kg. (2.2 lb.), the 1000mm lens weighing about 1.9 kg. (4.2 lb.) and the 2000mm lens weighing some 7.5 kg. (16-1/2 lb.).

Zoom-Nikkor Auto Lenses

200-600mm f/9.5

50-300mm f/4.5

80-200mm f/4.5

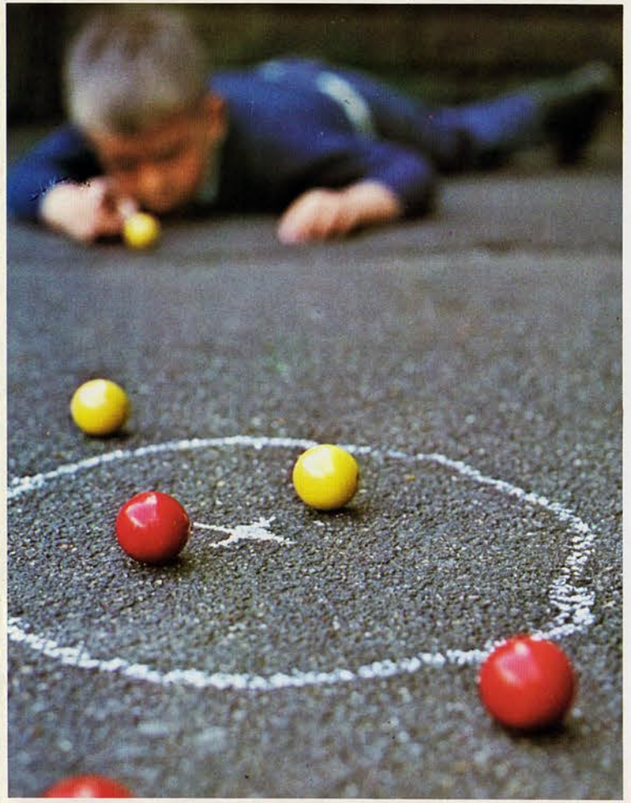
43-86mm f/3.5

A Zoom Nikkor lets you enjoy the advantages of lens interchangeability without the need to change lenses. You can vary its focal length to select the most effective image size and picture angle with a twist of your hand.
Nikon precision is evident in the outstanding performance of these versatile lenses. They exhibit neither focus shift nor aperture shift. Once in sharp focus at any focal length setting, a Zoom Nikkor stays in sharp focus throughout its range while also maintaining the precise exposure value of the selected aperture. The picture quality produced by Zoom Nikkors is the finest of any 35mm zoom optics and superior to many lenses with fixed focal lengths.
Currently available are four Zoom Nikkors, covering a total focal length range from 43 to 600mm. All have automatic-reopen diaphragms and couple to Photomic meter/finders for full-aperture exposure control.

Suzanne G. Hill

F. Hidalgo

Suzanne G. Hill



Jerry Cooke

Close-up

Rob Bock

The Nikon System offers a wide range of equipment designed especially for close-ups, macro- and micro-photography and photomicrography, the areas requiring the highest degree of accuracy regardless of the field of application——science, industry, medicine or education.

The Nikon System has proven highly effective in meeting these demands, with the Nikon F2 and its accessories incorporating advanced features such as the 100% accuracy of the viewfinder, use of same lens for viewing and metering as well as for taking pictures, a system of checking the depth of field and freedom from parallax error, to name just a few.

Bellows Focusing Attachments

PB-5

PS-4

PB-4

PS-5

The Nikon Bellows Focusing Attachments are fitted between the camera body and lens and serve as the most versatile single attachments for close-up or macrophotography with the Nikon F2. Accepting virtually all the Nikkor lenses, the attachments provide a wide range of magnification ratios. They may be used on a tripod or with the repro-copy outfit. Two models are available, the Bellows Focusing Attachments PB-4 and PB-5.

Bellows Focusing Attachment PB-4

Of the two models, this double-decked twin track attachment has a wider range of applications.
The front lens board may be shifted or swung to compensate for converging lines or to create a greater depth of field.
On the lower track, the camera and lens may be moved as a single unit for fine focusing adjustment without changing the lens-to-film distance. The camera can be attached to or detached from the bellows, and turned vertically or horizontally at any position on the track.
Using a 50mm lens, the range of reproduction ratio is from 1:1.2 to 1:3.6. With the lens reversed, the range is from 1:1.6 to 1:4.4. Duplication of 35mm film is readily accomplished when used in combination with the PS-4 or PS-5 slide copying adapter. The PB-4 weighs 1,200g (42.3 oz).

Bellows Focusing Attachment PB-5

This model is a single track version of the PB-4, without the shift/swing mechanism of the front lens board. It accepts either the PS-4 or PS-5 slide copying adapter. It weighs 840g (29.6 oz).

Slide Copying Adapter PS-4

This model is used with the PB-4 bellows for simple duplication of 35mm slides or film strips. Complete with film strip trays and a frame-shifting device for horizontal/vertical shifts, it permits cropping or partial enlargements. With the aid of a magnet, the bellows can be folded into the adapter for safe storage when not in use. This adapter can also be used with the PB-5 bellows.

Slide Copying Adapter PS-5

This model was designed primarily for the model PB-5 bellows. Except for the film strip trays and the frame-shifting mechanism, it has the same features as the PS-4.

BR-2 Macro Adapter Ring

This ring is used for mounting any lens with a 52mm front thread on a bellows focusing attachment in the reverse position. The reverse attachment of a lens permits improved optical performance at reproduction ratio greater than 1:1.

Repro-Copy Outfit Model PF-2

BR-3 Adapter Ring

BR-2 Macro Adapter Ring

Extension Ring
Set K

Extension Ring E2

BR-3 Adapter Ring

This ring fits on the back of a reversed lens and restores the 52mm thread so that the lens can accept a slide copying adapter, filter or other attachments. It also provides protection for the exposed rear element of the lens.

Lenses for Close-up Photography

The normal 50mm f/2 Nikkor Auto and 45mm f/2.8 GN Auto Nikkor can be adapted successfully to close-up work. But where high resolving power is of paramount importance, the 55m f/3.5 Micro-Nikkor-P-Auto and 105mm f/4 Bellows-Nikkor will meet the most exacting requirements. The 200mm f/5.6 Medical-Nikkor Auto offers the advantage of self-contained. automatic simplicity as well as convenient working distances where the subject cannot be approached too closely.

Extension Ring E2

Accepting any Nikkor lens from 20mm up, this close-up device is inserted between the camera body and the lens to extend the lens-to-film distance by 14mm. While a built-in plunger is depressed, the diaphragm of the Auto Nikkor lens used remains open for viewing and focusing. A Nikon cable release may be used for depressing the plunger.

Extension Ring Set K

It consists of a set of five rings inserted between the camera body and the lens individually or in combination for extensions from 5.0mm to 46.6mm. Adaptable to any Nikkor lens from 20mm to 300mm, it permits close-ups from 1:8.9 to 1:1 with a 50mm lens.

Close-up Attachment Lenses

There are three simple meniscus lenses adaptable to the Nikon F2 for copying and close-ups. They fit most Nikkor lenses with 52mm front thread, and require no compensation in exposure. The automatic stop-down feature of lenses remains unaffected. Available in three increasing powers: Nos. 0, 1 and 2.

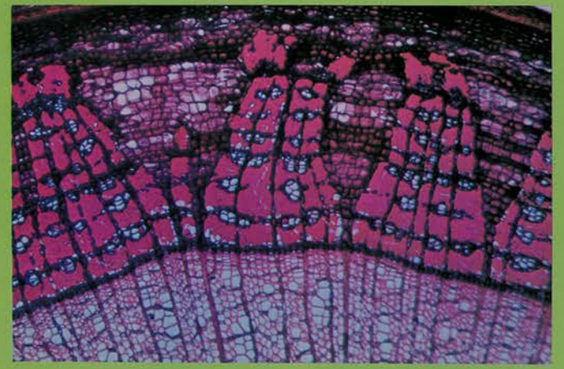
Repro-Copy Outfit Model PF-2

The Repro-Copy Outfit and the Nikon F2 camera together form an integrated close-up system for reproducing flat copy or photographing small objects. The outfit consists of a wooden case which unfolds to serve as a base, an upright column and a sliding arm equipped with a camera cradle. The camera cradle may be locked at 90° or 45°. Smooth up-and-down movement is ensured by the column and the cradle. A table clamp is also available.

Magnification Ranges of the Lenses Suited for Close-ups

Lens	Close-up Accessories	Lens Mounting	Magnification Range
50mm f/2	Lens alone	Normal	1/9.6X – ∞
	Close-up Attachments	Normal	No. 0 1/7.1X – 1/27X
			No. 1 1/5.6X – 1/13X
			No. 2 1/3.9X – 1/6.6X
			Nos. 1 & 2 1/3.0X – 1/4.4X
	Extension Ring E 2	Normal	1/2.7X – 1/3.7X
	Extension Ring Set K	Normal	1X – 1½1.9X, 1/2X – 1/3.1X, 1/3.2X – 1/8.9X
	Bellows PB-4, PB-5	Normal	1/1.2X – 3.6X
		Reversed	1.6X – 4.4X
105mm f/4 Bellows	Bellows PB-4, PB-5	Normal	1.3X – ∞
55mm f/3.5 Micro	Lens alone	Normal	1/2X – ∞
	With M2 Ring	Normal	1X – 1/2X
	Bellows PB-4, PB-5	Normal	3.4X – 1/1.3X
		Reversed	4.3X – 1/1.7X
200mm f/5.6 Medical	With or without 6 auxiliary lenses	Normal	3X, 2X, 1.5X, 1X, 2/3X, 1/2X, 1/3X, 1/4X, 1/6X, 1/8X & 1/15X

Microflex PFMF-Prism Reflex Photomicrographic Attachment



This device adapts the Nikon F2 camera to any standard microscope for photomicrography. A built-in leaf shutter has speeds from 1 to 1/250 second, plus T and B. The attachment incorporates a prism system which diverts the microscope image into a viewing ocular or onto a viewing screen. A cable release swings the prism out of the optical path, directing the full light to the camera and releasing the shutter in one operation. Provided with X synchronization contact.

Microscope-Camera Adapter Model 2

It adapts the Nikon F2 to any standard microscope for low magnification photomicrography, making use of the camera shutter and viewing system. Supplied with a green filter and the Type C focusing screen in a leather case.

The literature on Nikon photomicrographic and macro-photographic equipment is available on request.

Cases

Hard Case CH-1

Semi-Soft Case CF-1

FB-5

FB-8

Foam Rubber Case Model 2

FB-9

Nikon offers a wide range of cases for protection and carrying convenience of the photographic equipment—camera, lenses and miscellaneous accessories.

Compartment Cases

Nikon compartment cases possess good storage capacity with separate compartments for camera bodies, lenses, etc. Inside and outside pockets hold various smaller accessories.
The cases provide best possible protection for the photographer's equipment. Each comes with a shoulder strap and a non-slip pad.

Compartment Case FB-5

A handy cowhide case holding one Nikon F2 or F2 Photomic camera, four Nikkor lenses up to 300mm in focal length (except for some zoom and fisheye lenses) and four filters. Two outside pockets for smaller articles. Dimensions: 31 × 22 × 23cm (12-1/4 × 8-5/8 × 9 in). Color: Brown.

Compartment Case FB-6

A cowhide case accommodating two Nikon F2 Photomic cameras, each mounted with a normal or a wideangle lens, plus two additional lenses up to 200mm in focal length. An accessory pouch holds up to six filters. A large outside pocket for small accessories. Dimensions: 32 × 21 × 21cm (12-5/8 × 8-1/4 × 8-1/4 in). Color: Brown.

Compartment Case FB-8

Made of fine leatherette, it holds two F2 or F2 Photomic cameras mounted with lenses up to 135mm. Also accommodates three additional lenses up to 300mm in focal length. A roomy outside pocket for small items. Dimensions: 31 × 22 × 23cm (12-1/4 × 8-5/8 × 9 in). Color: Black.

Compartment Case FB-9

The cowhide case holds one Nikon F2 or F2 Photomic camera with a lens of up to 200mm focal length attached and three additional lenses, also up to 200mm in the partitioned boxes. An intermediate lid provides additional space for smaller articles. Dimensions: 32 × 21 × 21cm (12-5/8 × 8-1/4 × 8-1/4 in). Color: Brown.

Compartment Case FB-10

Designed exclusively for MD-1 motor drive users, it holds one motorized Nikon F2 camera with the cordless battery pack and a lens shorter than 135mm, an additional camera with or without the motor drive, and two lenses up to 200mm in focal length (with the exception of some of the fisheye lenses). Filters, spare batteries and other small articles are stored in the roomy outside and inside pockets. Dimensions: 34 x 21 x 23cm (13-3/8 x 8-1/4 x 9-1/16 in). Color: Black.

Compartment Case FB-11

Newly designed for the Nikon F2, this case of fine cowhide has two-tier partitions that may be moved or taken out completely depending on the content. It is capable of housing two to three cameras and five to six lenses and a number of smaller accessories. With all the partitions removed, the case holds longer and bulkier lenses such as 1000mm f/11 Reflex-Nikkor, 400mm f/4.5 and 600mm f/5.6. Supplied with a leather grip and a detachable shoulder strap. Dimensions: 38 x 22 x 30cm (14-15/16 x 8-11/16 x 11-13/16 in). Color: Brown.

Foam Rubber Case Model 2

Made of leatherette, it holds one Nikon F2 or F2 Photomic with a normal or wideangle lens mounted, and three additional lenses up to 55mm, 105mm and 200mm respectively. Other items such as filters, Flash Unit BC-7, E2 ring and a film roll may be included. The contents are protected by foam rubber. Exterior straps hold a tripod. Dimensions: 33 × 23 × 14cm (13 × 5 × 5-1/2 in). Color: Black.

Eveready Leather Camera Cases

Designation	Camera	Lens
Hard Case CH-1	Nikon F2 or Nikon F2 Photomic	Wideangle & Normal Lenses
Hard Case CH-2	Nikon F2 or Nikon F2 Photomic	Wideangle, Normal & Telephoto Lenses up to 135mm
Semi-Soft Case CF-1	Nikon F2 or Nikon F2 Photomic	Wideangle, Normal & Telephoto Lenses up to 105mm
Soft Case CS-4	Nikon F2 or Nikon F2 Photomic	Wideangle & Normal Lenses
Soft Case CS-5	Nikon F2 or Nikon F2 Photomic	Wideangle, Normal & Telephoto Lenses up to 135mm
Soft Case CS-6	Nikon F2 or Nikon F2 Photomic	Telephoto Lenses up to 200mm

Lens Cases

A variety of lens cases are available to fit Nikkor lenses of every size, offering protection, ready accessibility, and carrying convenience.

Camera-Lens Cases

There are two zippered camera-lens cases—one for the 85—250mm zoom and camera, and the other for the 50—300mm zoom and camera. Made of soft black cowhide.

Leather or Leatherette Cases

Made of brown leather or black leatherette, the cases come in 13 different sizes, all having the same design. Lined with velveteen for maximum protection. Larger cases accomodating the telephoto lenses are supplied with shoulder straps for carrying convenience.

Plastic Cases

The bayonet mount on the black plastic base holds the lens, with transparent plastic cover screwed onto the lens for protection. Come in two sizes.

Flexible Pouches

Made of soft leatherette, the flexible pouches come in three models—Nos. 51, 52, 53—to accommodate Nikkor lenses of different sizes. The pouches can be closed with strings.

Other Accessories

Flash Unit BC-7

Attached directly to the accessory shoe of the Nikon F2 camera without a connecting cord, the BC-7 flash unit has a fan-like reflector which can be tilted up to 120° for bounce flash. Accepts three different types of flashbulbs—bayonet, miniature or AG-1. A terminal is provided for off-camera flash or for connection with camera other than Nikon F2 or F.

Pistol Grip Model 2

The pistol grip provides support for hand-held shots using the Nikon F2 with such equipment as the Motor Drive MD-1 or a telephoto or a zoom lens attached. It is screwed into the tripod socket under the camera, motor drive or lens depending on where the best balance can be achieved. A connecting cable release couples the grip trigger to the shutter release on the camera.

Panorama Head AP-2

Mounted between camera and tripod, the panorama head accurately spaces a series of photographs that can be joined as a single panorama picture up to 360°. It is designed to work with all Auto Nikkor lenses from 20 to 105mm. The horizontal positioning of the entire unit can be checked with the built-in bubble level.

Nikon Film Cassette AM-1

Designed specifically for the Nikon F2, the reloadable Nikon Film Cassette AM-1 holds 1.6m (5-1/4 ft.) of film (36 exposures). Permits easy motorized rewinding with the Motor Drive MD-1.

Lens Hoods

Lens Caps & Body Cap

Pistol Grip Model 2

Film Cassette

Panorama Head

Optical Glass Filters

Nikkor optical quality is also found in the variety of filters available. Made of the finest optical glass, precision ground, polished to plano-parallel flatness and mounted strain free, they are free from stria, stress or other flaws which might cause poor image quality. Front and back surfaces have hard coatings to prevent surface reflections.

Effects of Nikon Filters

Skylight — For color and B & W films. Removes excess blue and haze.

Ultra-violet — For color and B & W films. Absorbs ultra-violet and cuts off haze.

Yellow — For B & W film. Absorbs ultra-violet, violet and blue light waves to darken the sky in landscape photography.

Orange — For B & W film. Absorbs wider range of light than the yellow filters.

Green — For B & W film. Absorbs ultra-violet, violet, blue and red. Subdues the blue and red and brings out the green in brighter tones.

Polarizing — For color and B & W films. Cuts off reflecting light from surfaces of glass, water and tile. Not effective for metal surfaces.

Neutral Density — For color and B & W films. Subdues all colors uniformly. Used for taking bright subjects, reducing the depth of field with lenses set at large apertures or shading off the background.

Amber — For color film. Removes blue tinge that results from using daylight film in the shade, cloudy weather or indoors. Natural color rendition in daylight outdoor photography using tungsten light film.

Blue — For color film. Removes red-yellow hue that results from using daylight film in twilight. Eliminates excessive red-yellow hue caused by clear bulb flash or reflector lamp on daylight film.

Type			Screw-in				Drop-in
Size			52mm	72mm	95mm	122mm	Series 9
Filter \ Lens used			24/2.8, 28/2, 28/3.5, 35/1.4, 35/2, 35/2.8, 35/2.8PC, 45/2.8GN, 50/1.4, 50/2, 55/1.2, 55/3.5 Micro, 85/1.8, 105/2.5, 135/2.8, 135/3.5, 105/4 Bellows, 200/4, 43-86 & 80-200 Zoom	20/3.5, 180/2.8, 300/4.5, 400/5.6	50-300 Zoom	400/4.5, 600/5.6, 800/8, 1200/11	200-600 Zoom
Skylight		L1A	•	•			
		L1B	•	•			
Ultraviolet		L37	•				
		L39	•	•	•	•	•
Yellow	Light	Y44	•				•
	Medium	Y48	•	•	•	•	•
	Deep	Y52	•				•
Orange		O56	•	•	•	•	•
Red		R60	•	•	•	•	•
Green	Light	X0	•				
	Deep	X1	•				
Polarizing		Polar	•	•			
Neutral Density		ND 4X	•				
		ND 8X	•				
Amber	Light	A2	•				
	Deep	A12	•				
Blue	Light	B2	•				
	Medium	B8	•				
	Deep	B12	•				

●=Available

C. J. Claude

El-Nikkor Enlarging Lenses

As Nikkor camera lenses are designed to put superior quality into your pictures, El-Nikkor lenses are designed to bring out that quality to the fullest extent in crisp, clear enlargements. They provide superb definition, field flatness and uniform image brightness over the entire picture at all practical enlarging distances, with emphasis on the most widely used magnification range of 2X to 20X. They are unsurpassed for superior color enlarging as well as the most critical black-and-white work.

El-Nikkors are so highly corrected for chromatic aberrations that ultraviolet rays, to which photographic paper is very sensitive, cannot interfere with the sharpness and color purity of the print. And there is no shift of focus in the image plane as the lens diaphragm is stopped down. Large, clear, white-on-black markings and positive click-stop settings make it easy to adjust apertures correctly under darkroom conditions.

Reference List of Nikon Accessories

■Exclusive for Nikon F2

Viewfinder

F2 Photomic Finder DP-1 • F2S Photomic Finder DP-2 • Eye-Level Finder DE-1 • Waist-Level Finder DW-1 • Action Finder DA-1 • 1.5V Silver Oxide Battery for Photomic Finders • EE Aperture Control Attachment DS-1 • NC Battery DN-1 • AC/DC Converter MA-4 • Quick Charger DH-1

Motor Drive

Motor Drive MD-1 • Cordless Battery Pack MB-1 • NC Battery Unit MN-1 • NC Battery Charger MH-1 • AA Penlight Battery Unit MS-1 • 250 Magazine Back MF-1 • SC Remote Cord MC-1 • Connecting Cord MC-2 • Coiled Cord for Pistol Grip MC-3 • Remote Cord MC-4 • AC/DC Converter MA-2 and MA-4 • Compartment Case FB-10

Flash Unit

Ready-Light Adapter SC-4

Other Accessories

36-Exposure Film Cassette AM-1 • Camera Cases (CH-1, CF-1, CH-2, SC-4, SC-5, SC-6)

■Exclusive for Nikon F

Viewfinder

Photomic FTn Finder • Eye-Level Finder • Action Finder • Waist-Level Finder • 1.3V Mercury Battery for Photomic Finder

Motor Drive

F36 Electric Motor Drive Back • Cordless Battery Pack • F250 Electric Motor Drive Back • Standard Battery Pack — 1m Connecting Cord — 10m Connecting Cord • Pistol Grip for Motor Drive with Microswitch — Coiled Connecting Cord • Relay Box • AC/DC Converter MA-1 • 1m Synch Cord and Cord for Motor Drive • AC Power Pack • Compartment Case FB-7

Other Accessories

36-Exposure Film Cassette • Camera Cases (CTT, CTTZ, SCT, ACT, BCT-Blimp)

■For Both Cameras

All Interchangeable Nikkor Lenses

Viewfiner

6X Focusing Finder DW-2* • Right-Angle Viewing Attachment • Eyepiece Magnifier • Eyepiece Correction Lenses • Photomic Illuminator DL-1 • Rubber Eyecup • Fisheye Finder • Focusing Screens

Motor Drive

250-Exposure Film Cassette • Pistol Grip Model 2 — Coiled Connecting Cord • Bulk Film Loader • Repeating Electronic Flash Unit — AC Cord and Power Cord — DC Power Pack

Close-up Equipment

Bellows Focusing Attachments (PB-4, PB-5) • Slide Copying Adapters (PS-4, PS-5) • BR-2 Macro Ring Adapter • BR-3 Adapter Ring • Close-up Attachment Lenses (Nos. 0, 1, 2) • Extension Ring E2 • Extension Ring Set K • Repro-Copy Outfit PF-2 — Wooden Carrying Case PA-1 — Base Board PA-2 — Table Cramp PA-3

*Can be readly mounted on the Nikon F when the Nikon name plate of the finder is removed.

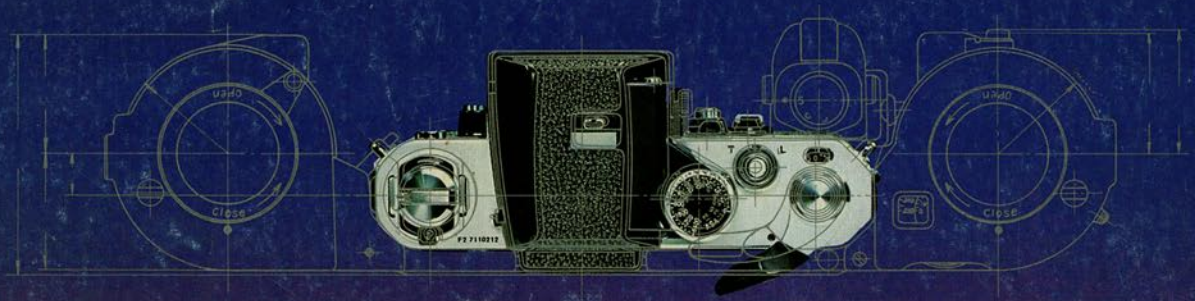
Flash Unit

Flash Unit BC-7 — 20cm Synch Cord BD-1 — 1m Synch Cord BD-2 • Flash Unit Coupler AS-1

Other Accessories

Compartment Cases (FB-5, FB-6, FB-8, FB-9, FB-11, Foam Rubber Case Model 2) • Lens Cases • Oscilloscope Recording Unit Model D • Microscope Adapter Tube Model 2 • Lens Caps • Body Cap • Filters • Panorama Head AP-2 • Soft Shutter Release AR-1 • Shutter Cable Release AR-2 • Connecting Cable Release for Pistol Grip • Neck Straps • Lens Hoods

• Specifications are subject to change due to further improvements in design.



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