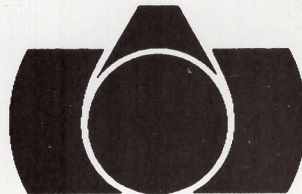
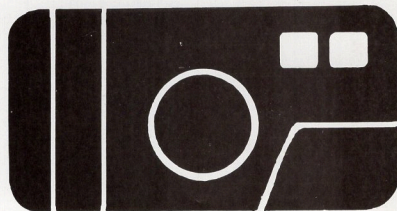
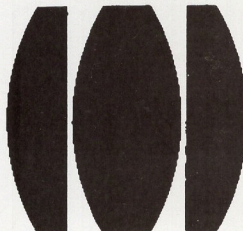
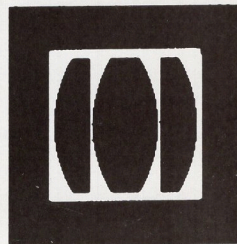
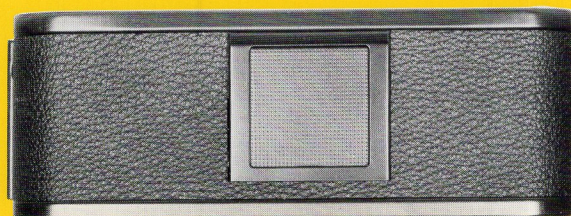
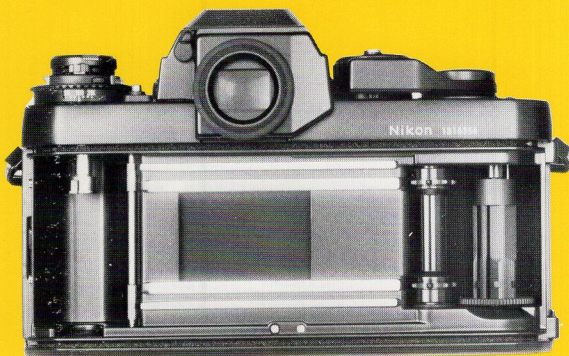
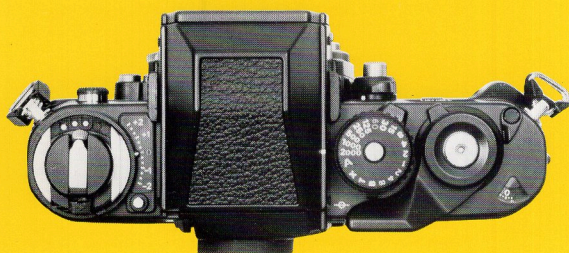






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## Nikon F3HP

<b>Product number:</b>	1691
<b>Type of camera:</b>	Electronically-controlled, single-lens-reflex camera
<b>Picture format:</b>	24mm x 36mm (standard 35mm format)
<b>Lens mount:</b>	Nikon F bayonet
<b>Lenses:</b>	Nikkor 50mm f/1.2, 50mm f/1.4 or 50mm f/1.8 as standard lenses, and more than 60 Nikkor and Nikon Series E lenses
<b>Shutter:</b>	Horizontal-travel, titanium foil, focal-plane shutter
<b>Shutter release:</b>	Electromagnetic type switches meter on when depressed halfway (after shutter release lock is released); meter then remains on for 16 sec. after finger is taken off the shutter release button; release button threaded to accept ISO-type standard cable release
<b>Backup mechanical release:</b>	Lever provided to trigger camera at mechanical 1/60 sec. exposure time, regardless of the exposure setting (except at T); used when battery power is exhausted, or to conserve battery power for T (Time) exposures
<b>Automatic exposure control:</b>	Aperture-priority, automatic exposure control with stepless shutter speeds from 8 sec. to 1/2000 sec.
<b>Manual exposure control:</b>	Quartz digital control for 16 stepped shutter speeds from 8 sec. to 1/2000 sec., including X (1/80 sec); B (Bulb) and T (Time) also provided
<b>Mechanical shutter control:</b>	Possible using backup mechanical release lever at T (Time) setting on shutter speed dial, or at 1/60 sec. when shutter speed dial set to any other setting
<b>Viewfinder:</b>	High-eyepoint Eyelevel Finder DE-3 as standard; interchangeable with other viewfinders; 0.75X magnification with 50mm lens; virtually 100% coverage
<b>Eyepiece shutter:</b>	Provided; prevents light from entering the finder eyepiece under remote-control operating conditions
<b>Focusing screen:</b>	Type K as standard; 21 other types as optional accessories
<b>Exposure metering:</b>	Thru-the-lens (TTL) light metering; silicon photodiode and metering circuits incorporated into camera body; meter works with all interchangeable viewfinders and interchangeable finder screens
<b>Metering range:</b>	EV1 to EV18 (f/1.4 at 1 sec. to f/11 at 1/2000 sec.) with 50mm f/1.4 lens and ISO 100 film
<b>Film speed setting:</b>	ISO 12 to 6400
<b>Accessory shoe:</b>	Provided; special Nikon type located at base of rewind knob; accepts direct mount Speedlights SB-16A, SB-17 and SB-21A, as well as accessory cords SC-12 and SC-14; two optional flash adapters available for flash units with ISO hot shoe contacts and for flash unit for Nikon F2
<b>Flash synchronization:</b>	All speeds of from 8 sec. to 1/60 sec., plus X (1/80 sec.) with electronic flash; with F3-dedicated speedlights, the shutter speed is automatically set to 1/80 sec at A (automatic operation) or at manual shutter speed settings of 1/125 sec. or above; synchronization is also possible at slower speeds; threaded PC-type sync terminal provided at front of camera for off-camera and multiple-flash photography
<b>Viewfinder display:</b>	Liquid Crystal Display shows shutter speed; on auto, +2000 indicates overexposure and -8- indicates underexposure; on manual, M appears with + indicating overexposure, - indicating underexposure or - and + simultaneously indicating correct exposure; LED ready light glows when F3-dedicated speedlights are ready; the lens aperture in use is also shown in the viewfinder via the aperture-direct-readout (ADR) scale provided on all AI and AIS lenses
<b>Viewfinder illuminator:</b>	Provided; illuminates both LCD panel in camera and ADR scale on lens aperture ring of AI and AIS Nikkor lenses
<b>Exposure compensation:</b>	Provided; from +2 to -2 in one-third step increments
<b>Exposure memory:</b>	Possible via front-mounted lock button





# Nikon F3HP, F3/T



**Multiple exposure:**

Possible via top-mounted lever

**Self timer:**

Quartz-controlled, 10 sec. delayed exposure; LED blinks at 2 hz. for the first 8 sec., and at 8 hz. for the last 2 sec.

**Reflex mirror:**

Automatic, instant-return type with lock-up facility; incorporates brake mechanism and air damper for reduced vibration and noise

**Depth-of-field preview:**

Possible via button fitted coaxial with the mirror lock-up lever

**Film advance lever:**

30° stand-off angle and 140° winding angle; wound in single stroke or series of smaller strokes

**Frame counter:**

Additive type; automatically reset when camera back is opened

**Film rewind:**

Via rewind crank after depressing film rewind button; automatic film rewind possible with Motor Drive MD-4

**Camera back:**

Interchangeable with optional special-purpose backs; opened by pulling up the film rewind knob (after unlocking)

**Batteries:**

Two type 1.5V silver-oxide (button cell) batteries; when optional Motor Drive MD-4 is mounted, the camera receives all power from the motor drive batteries

**Dimensions:**

Approx. 101.5mm (H) x 148.5mm (W) x 69.0mm (D) (4" x 5.8" x 2.7")

**Weight:**

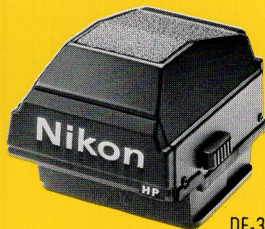
Approx. 760g (26.8 oz.), body only

**Optional accessories:**

Eyelevel Finder DE-2  
Action Finder DA-2  
Waist-Level Finder DW-3  
High-Magnification Finder DW-4  
Motor Drive MD-4  
Miscellaneous focusing screens  
Speedlights SB-11/14/140/16A/17/21A  
Data Backs MF-14/MF-17/MF-18  
250-ex Magazine Back MF-4  
Auto Rewind-Stop Back MF-6B  
Eyepiece Adapter Ring DK-3



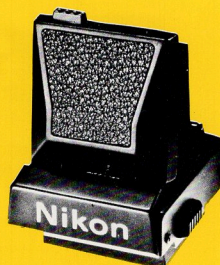
DA-2



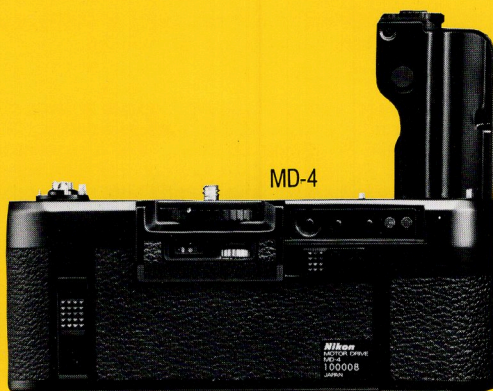
DE-2



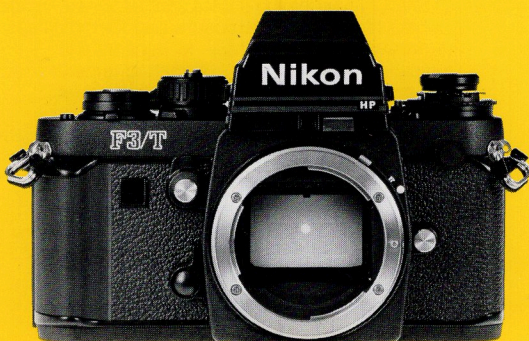
DW-4



DW-3



MD-4



## Nikon F3/T

**Product number:**

1694

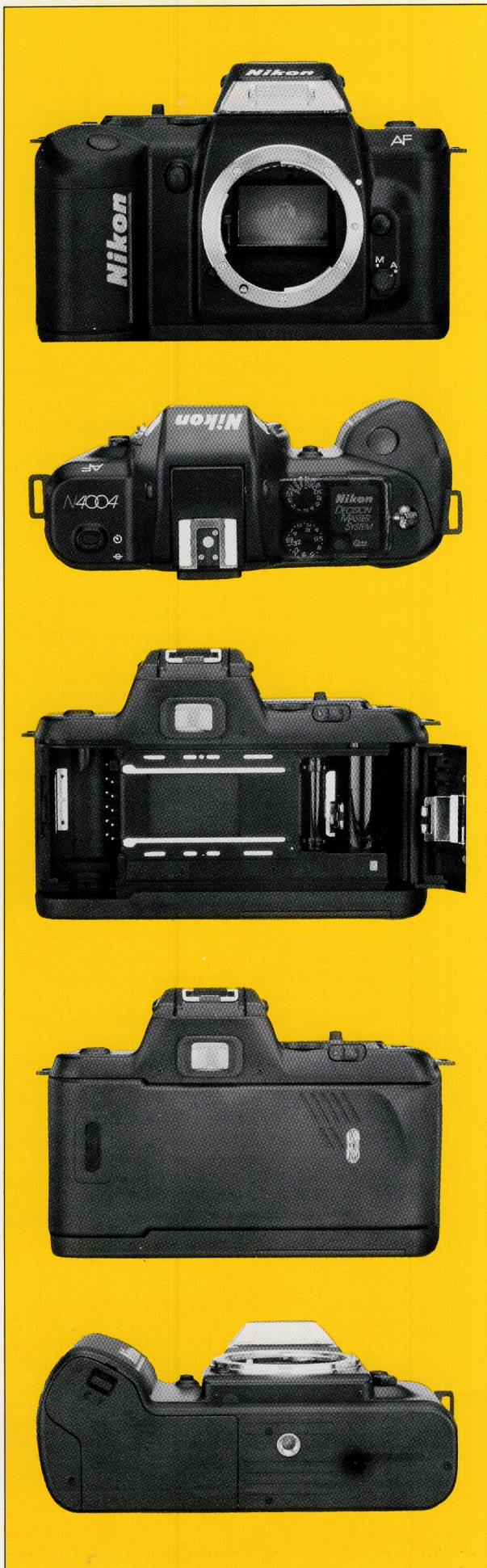
**Type of camera:**

The Nikon F3/T is a ruggedized version of the Nikon F3HP; the use of titanium outer covers makes this camera ideal for heavy-duty users, such as photojournalists.





## Nikon N4004



<b>Product number:</b>	1750
<b>Type of camera:</b>	Electronically-controlled, autofocus single-lens-reflex camera with built-in motor drive and TTL flash unit
<b>Picture format:</b>	24mm x 36mm (standard 35mm format)
<b>Lens mount:</b>	Nikon F bayonet with autofocus contacts
<b>Lenses:</b>	Autofocus Nikkor lenses and more than 70 non-AF Nikkor and Series E lenses (with limitation)
<b>Autofocus selector:</b>	A mode: autofocus priority with shutter release possible only after the green focusing LED lights up; M mode: manual focusing
<b>Focus memory:</b>	Via shutter release button
<b>Viewfinder:</b>	Fixed pentaprism viewfinder with about 92% frame coverage
<b>Viewfinder information:</b>	Green LED provides information on focusing via steady illumination when subject is correctly focused; red LEDs of "+", "0", "-" provide information on exposure (over, correct, under), as well as red thunderbolt mark for flash ready-light
<b>Focusing screen:</b>	Type B with central focus brackets for autofocus operation; 12mm diameter reference circle denotes centerweighted metering area
<b>Exposure metering:</b>	Thru-the-lens (TTL) full aperture exposure measurement with segmented silicon photodiode (SPD)
<b>Exposure control:</b>	Triple-sensor metering for automatic exposure correction for difficult lighting conditions; dual program, shutter speed and aperture are set automatically, taking into account the focal length of the lens; in shutter-priority, aperture is set automatically, for pre-selected shutter speed; in aperture-priority, shutter speed is set automatically for preselected aperture; in manual, aperture and shutter speed are set manually
<b>Exposure memory:</b>	Via front-mounted AE-lock control
<b>Film speed settings:</b>	ISO 25-5000 automatic setting for DX-coded films
<b>Shutter:</b>	Electronically-controlled, vertical-travel, focal plane shutter
<b>Shutter speeds:</b>	Stepless, automatic settings between 1 sec and 1/2000 when set for program "A" (aperture-priority) or "S" (shutter-priority) operation; 12 electronically-timed fixed speeds from 1 sec. to 1/2000 sec. for manual setting; long exposures at B setting.
<b>Film advance:</b>	Automatic loading check system; film automatically advanced to frame "1" after shutter release is depressed once; film advance indicator provided on camera back
<b>Frame counter:</b>	Additive-type with automatically reset to "S" when the camera back is opened
<b>Film rewind:</b>	Motorized, automatic after depressing rewind button
<b>Self-timer:</b>	Electronically-controlled, 10 sec. shutter release delay; visual display via LED at front of camera
<b>Accessory shoe:</b>	Standard ISO hot shoe with additional contacts for TTL metering and flash ready indication
<b>Built-in TTL flash:</b>	GN 12 (ISO 100 film) with angle of coverage sufficient for use with lenses to 35mm focal length; TTL automatic flash control via built-in sensor; operation integrated with standard triple-sensor metering to enable proper exposure control even under difficult subject lighting conditions
<b>Flash synchronization:</b>	1/100 sec. for automatic modes; 1/100 sec. or slower in manual mode, including B
<b>Flash ready-light:</b>	Flash symbol visible as soon as the Nikon Speedlight is ready; blinks to indicate when flash is required or when light output of flash was inadequate for correct exposure
<b>AF-assist flash photography:</b>	Possible with optional Nikon Speedlights SB-20/22
<b>Power source:</b>	Four 1.5 V AA-type (penlight) batteries via battery chamber at base plate of camera
<b>Dimensions:</b>	154mm (W) x 102mm (H) x 65.6mm (D) (6.0" x 4.0" x 2.6")
<b>Weight:</b>	Approximately 645g (22.6 oz.), body only
<b>Optional accessories:</b>	Body Cap BF-1A Speedlights SB-15/18/20/22





## Nikon N2020

1740

**Product number:**

**Type of camera:**

**Picture format:**

**Lens mount:**

**Lenses:**

**Autofocus selector:**

**Focus memory:**

**Viewfinder:**

**Viewfinder information:**

**Focusing screen:**

**Exposure metering:**

**Exposure control:**

**Metering range:**

**Exposure memory:**

**Exposure compensation:**

**Film speed settings:**

**Shutter:**

**Shutter speeds:**

**Film advance:**

**Frame counter:**

**Film rewind:**

**Audible warning alarm:**

**Self-timer:**

**Accessory shoe:**

Electronically-controlled, single-lens-reflex camera with built-in motor drive and dual autofocus

24mm x 36mm (standard 35mm format)

Nikon F bayonet with autofocus contacts

More than 12 autofocus Nikkor lenses and more than 70 non-AF Nikkor and Series E lenses; With Autofocus Converter TC-16A, more than 30 Nikkor lenses can be used in the autofocus mode

S mode, autofocus priority with shutter release possible only after the green focusing LED lights up; C mode, shutter release priority, the shutter can be released at any time; C mode particularly suitable for photographing moving objects; M mode, manual focusing

Via shutter release button in single-serve autofocus and via AF-lock button in continuous-serve autofocus

Fixed pentaprism viewfinder with about 92% frame coverage

LED providing information on focusing:

- Focusing not possible (X)
- Correctly focused (0)

Arrow indicates direction of rotation of lens as a focusing aid; LEDs indicate shutter speed, warning of overexposure and underexposure, and flash recycling

Type B with central focus brackets for autofocus operation; 12mm diameter reference circle denotes centerweighted metering area; interchangeable with types E and J focusing screens

Thru-the-lens (TTL) full aperture centerweighted exposure measurement with silicon photodiode (SPD)

In dual program, shutter speed and aperture are set automatically, taking into account the focal length of the lens; standard program, shutter speed and aperture are set automatically; high-speed program, shutter speed and aperture are set automatically for preselected aperture; manual, aperture and shutter speed are set manually

EV1 to EV19 (f/1.4 at 1 sec. to f/16 at 1/2000 sec.) with 50mm f/1.4 lens and ISO 100 film

Via front-mounted AE-lock control

+2 to -2 steps in one-third increments via dial

Automatic setting for DX-coded films (ISO 25-5000); manual setting for films without DX code (ISO 12-3200)

Electronically-controlled, vertical-travel, focal plane shutter

Stepless, automatic settings between 1 sec and 1/2000 sec. on P Dual, P, P Hi, and A; 12 quartz-controlled, fixed speeds from 1 sec. to 1/2000 sec. for manual setting; long exposures at B setting.

Automatic loading check system; with simultaneous film advance to frame 1; modes of operation, single-frame advance (S), continuous advance to 2.5 frames/sec. (C) or shutter locked (L)

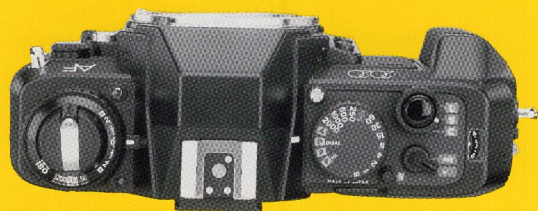
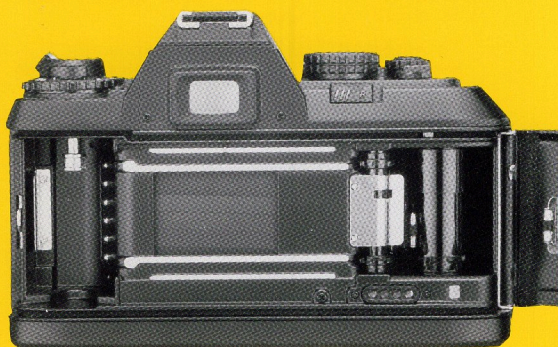
Automatically resets to S when the camera back is opened

Via manual rewind crank after actuating rewind lever

Sounds in the following cases: DX setting but no DX-coded film, DX contact dirty, over- or underexposure and possible blur in autoexposure modes, and at end of film roll

Electronically-controlled, 10 sec. shutter release delay; audible and visual display

Standard ISO hot shoe with additional contacts for TTL metering and flash ready indication with N2020-dedicated speedlights







**Flash synchronization:**

1/125 sec. for automatic modes; 1/125 sec or slower (plus B) in manual

**Flash ready-light:**

Flash symbol visible as soon as the N2020-dedicated Speedlight is ready; blinks after exposure when light intensity is inadequate

**Autofocus-assist flash photography:**

Possible with optional Nikon AF Speedlights SB-20/22 with camera in single-servo (S) mode

**Power source:**

Four 1.5V AAA-type (penlight) batteries; with optional Battery Holder MB-3, four 1.5V AA-type batteries can be used

**Dimensions:**

148.5mm (W) x 97.5mm (H) x 54.5mm (D)  
(5.8" x 3.8" x 2.1")

**Weight:**

Approximately 610g (22.1 oz.), body only

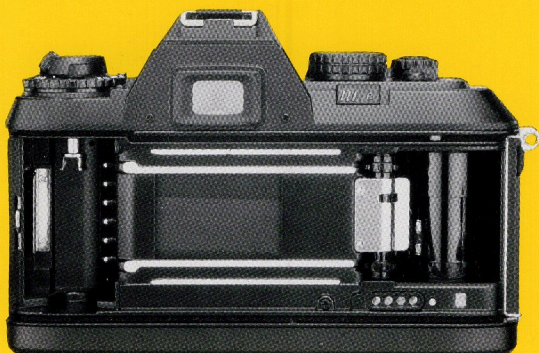
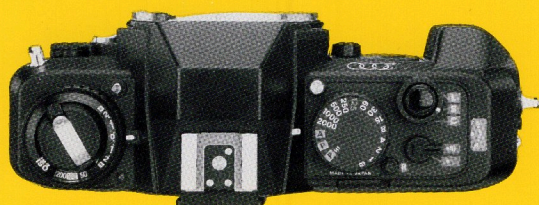
**Optional accessories:**

Body Cap BF-1A  
Battery Holder MB-3 (for AA-type batteries)  
Multi Data Back MF-19  
Autofocus Converter TC-16A  
Remote Trigger Cord MC-12A  
Tripod Adapter AH-3  
Speedlights SB-15/16B/18/20/21B/22





## Nikon N2000



**Product number:**

1720

**Type of camera:**

Electronically-controlled, single-lens-reflex camera with built-in motor drive

**Picture format:**

24mm x 36mm (standard 35mm format)

**Lens mount:**

Nikon F bayonet

**Lenses:**

More than 60 Nikkor and Nikon Series E lenses

**Viewfinder:**

Fixed pentaprism viewfinder with approximately 92% frame coverage

**Viewfinder information:**

Via LEDs, shutter speed, warning of overexposure or underexposure and recycling of flash

**Focusing screen:**

Fixed type K2 BriteView focusing screen with central non-shading split-image rangefinder circle, microprism collar and matte/Fresnel outer field; 12mm diameter reference circle denotes centerweighted metering area

**Exposure metering:**

Thru-the-lens (TTL), center-weighted, full-aperture exposure measurement via silicon photodiode (SPD)

**Exposure control:**

Standard program, shutter speed and aperture are set automatically; high-speed program, shutter speed and aperture are set automatically, particularly suitable for longer focal lengths; aperture-priority mode, shutter speed is set automatically for preselected aperture; manual mode, aperture and shutter speed are set manually

**Metering range:**

EV1 to EV19 (f/1.4 at 1 sec. to f/16 at 1/2000 sec.) with 50mm f/1.4 lens and ISO 100 film

**Exposure memory:**

Via front-mounted exposure-lock

**Exposure compensation:**

+2EV to -2EV in one-third increments via selector dial

**Film speed setting:**

Automatically for DX-coded films (ISO 25-4000); manually for films without DX code (ISO 12-3200)

**Shutter:**

Electronically-controlled, vertical-travel, focal plane shutter

**Shutter speeds:**

Stepless, automatic speed setting between 1 sec and 1/2000 sec on P, P Hi, and A; 12 stepped, electronically-controlled fixed speeds from 1 sec. to 1/2000 sec, plus B (Bulb) in manual mode

**Film advance:**

Automatic loading check system; with simultaneous film advance to frame 1; Mode of operation, single-frame mode (S), Continuous-frame mode with 2.5 frames/sec. (C) and Locked mode (L)

**Frame counter:**

Additive-type; automatically resets to S when the camera back is opened

**Film rewind:**

With rewind crank after rewind button is depressed

**Audible warning alarm:**

Sounds in the following cases: DX setting but no DX-coded film, DX contact dirty, over- or underexposure and possible picture blur in autoexposure modes, and at end of film roll

**Self-timer:**

Electronically-controlled, 10 sec. delay; audible and visual indication

**Accessory shoe:**

Standard ISO hot shoe with additional contacts for TTL metering and flash ready light for use with N2000-dedicated speedlights

**Flash synchronization:**

1/125 sec in auto modes; 1/125 sec and all slower speeds, including B, in manual mode

**Flash ready-light:**

Flash symbol visible as soon as the N2000-dedicated Speedlight is ready; blinks when light intensity is insufficient

**Power source:**

Four 1.5V AAA-type (penlight) batteries; with optional Battery Holder MB-3, four 1.5V AA-type batteries can be used

**Camera back:**

Interchangeable with Multi Data Back MF-19

**Dimensions:**

148.5mm (W) x 97.5mm (H) x 54.5mm (D)  
(5.8" x 3.8" x 2.0")

**Weight:**

Approximately 570g (20.0 oz.), body only

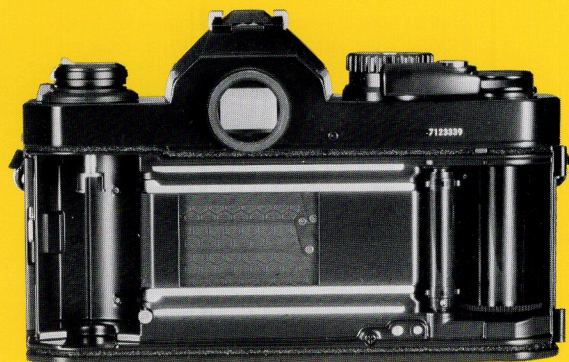
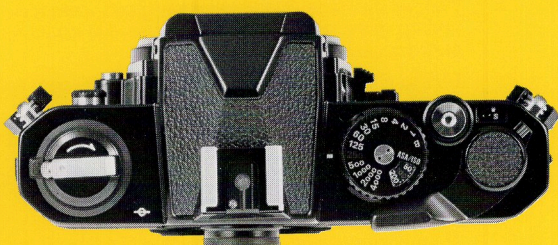
**Optional accessories:**

Body Cap BF-1A  
Battery Holder MB-3 (for AA-type batteries)  
Multi Data Back MF-19  
Remote Trigger Cord MC-12A  
Tripod Adapter AH-3  
Speedlights SB-15/16B/18/20/21B/22





## Nikon FM2



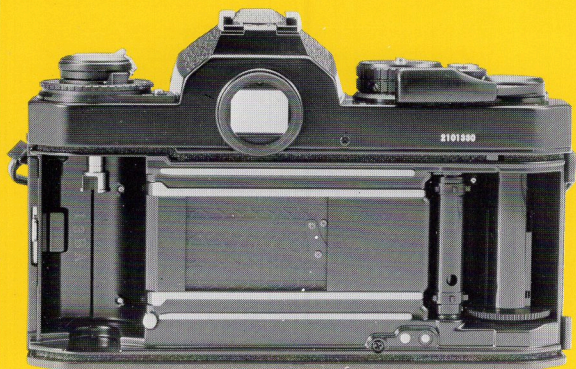
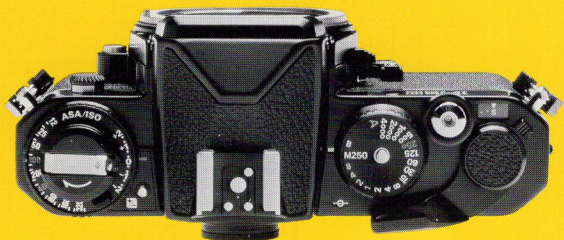
<b>Product number:</b>	1683 (chrome) 1684 (black)
<b>Type of camera:</b>	Mechanically-controlled, single-lens-reflex camera
<b>Picture format:</b>	24mm x 36mm (standard 35mm format)
<b>Lens mount:</b>	Nikon F bayonet
<b>Lenses:</b>	More than 60 Nikkor and Nikon Series E lenses
<b>Shutter:</b>	Mechanically-controlled, vertical-travel, metal focal plane shutter with titanium curtains
<b>Shutter release:</b>	Mechanical shutter release with ISO screw socket for cable release AR-3; shutter release button locked when film advance lever is flush with camera body
<b>Shutter speeds:</b>	Mechanically governed speeds of 1 sec. to 1/4000 sec., plus B (Bulb)
<b>Film advance lever:</b>	Single-stroke type; 30° stand-off angle and 135° winding angle
<b>Self-timer:</b>	Mechanical type; 10 sec. exposure delay
<b>Viewfinder:</b>	Fixed pentaprism viewfinder with about 93% frame coverage
<b>Viewfinder display:</b>	Shutter speed, f-number in use via aperture-direct-readout scale on lens and 3 LEDs (+, 0, -) for exposure setting in 5 steps
<b>Focusing screen:</b>	Standard type K2 with split-image rangefinder spot and microprism ring; full matte screen B2 and full matte screen with grid E2 as optional accessories; screens can also be used with the Nikon FE2
<b>Mirror:</b>	Rapid-return mirror with special control and braking to reduce vibrations and operating noise; depth-of-field preview lever provided at front of camera
<b>Motor drive coupling:</b>	Electrical contact and mechanical coupling for optional Motor Drive MD-12
<b>Multiple exposure lever:</b>	Provided; couples with frame counter to stop count when multi-exposure being executed
<b>Frame counter:</b>	Additive-type, with automatic resetting to S when the camera back is opened
<b>Film rewind:</b>	Via film rewind crank after rewind button is depressed
<b>Accessory shoe:</b>	Standard ISO-type; contact for ready light provided
<b>Flash sync:</b>	X synchronization up to 1/250 sec.; ISO-type hot shoe contact; separate PC-type flash connector with screw thread for connection to flash units mounted off-camera
<b>Flash ready-light:</b>	LED in viewfinder lights up when Nikon FM2-dedicated speedlight is fully charged
<b>Exposure metering system:</b>	Thru-the-Lens (TTL), center-weighted full aperture metering with two silicon photodiodes (SPD)
<b>Metering range:</b>	EV1 to EV18 (1 sec. at f/1.4 to 1/4000 sec. at f/8) with 50mm f/1.4 lens and ISO 100 film
<b>Film speed range:</b>	ISO 12 to 6400
<b>Power source:</b>	One 3V lithium battery or two 1.5V silver-oxide (button-cell) batteries
<b>Exposure meter switch:</b>	Pressing the shutter release button switches meter on; meter is automatically switched off about 30 seconds after the shutter release button is released
<b>Battery power check:</b>	LED in viewfinder lights up to indicate sufficient power when the shutter release button is pressed
<b>Camera back:</b>	Pops open when the film rewind knob is pulled up; can be removed to insert Data Back MF-16; memo holder provided
<b>Dimensions:</b>	142.5mm (W) x 90mm (H) x 60mm (D) (5.6" x 3.5" x 2.4")
<b>Weight:</b>	Approx. 540g (19 oz.), body only
<b>Optional Accessories:</b>	Focusing Screen Type B2/E2 Motor Drive MD-12 Data Back MF-16 Body Cap BF-1A Speedlights SB-15/16B/18/20/21B/22





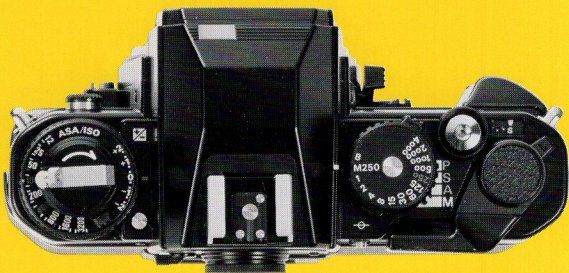
# Nikon FE2

## Nikon FE2



<b>Product number:</b>	1631 (black)
<b>Type of camera:</b>	Electronically-controlled, single-lens-reflex camera
<b>Picture format:</b>	24mm x 36mm (standard 35mm format)
<b>Lens mount:</b>	Nikon F bayonet
<b>Lenses:</b>	More than 60 Nikkor and Nikon Series E lenses
<b>Shutter:</b>	Electronically-controlled, vertical-travel, metal focal plane shutter with titanium curtains
<b>Shutter release:</b>	Electromechanical
<b>Exposure meter:</b>	Thru-the-Lens (TTL) light metering; pressing shutter release button halfway switches meter on, provided that the frame counter is at 1 or a higher number; the exposure meter switches off automatically 16 seconds after the shutter release button is released; meter switches off automatically at M250 and B settings
<b>Shutter speed:</b>	19 settings provided; A (automatic), manually selected, electronically-timed shutter-speed settings from 8 sec. to 1/4000 sec., plus mechanical 1/250 sec. (M250) and B (Bulb)
<b>Exposure metering:</b>	Through-the-lens (TTL), centerweighted metering system using a pair of silicon diodes; full aperture and stopped-down metering possible
<b>Metering range:</b>	EV1 to EV18 (f/1.4 at 1 sec to f/8 at 1/4000 sec) with 50mm f/1.4 lens and ISO 100 film
<b>Exposure compensation:</b>	-2 EV to +2 EV in one-third increments via selector dial
<b>Film speed range:</b>	ISO 12-4000
<b>Shutter speeds:</b>	Automatic, stepless speeds from 8 to 1/4000 sec; 16 quartz-controlled, manually-selected from 8 to 1/4000 sec; mechanical 1/250 sec. (M250) and B (Bulb)
<b>Film advance lever:</b>	Single-stroke-type; 30° stand-off angle and 135° winding angle
<b>Motor drive coupling:</b>	Provided at base for optional Motor Drive MD-12
<b>Shutter release lock:</b>	When film advance lever is flush with camera body
<b>Viewfinder:</b>	Fixed pentaprism viewfinder with about 93% frame coverage
<b>Viewfinder display:</b>	Shutter speed, f-number, warning symbols for exposure compensation, warning symbols for overexposure and underexposure
<b>Focusing screen:</b>	Standard K2 matte screen with Fresnel lens, split-image rangefinder spot and microprism collar; interchangeable with two additional focusing screens (B2 and E2)
<b>Self-timer:</b>	Mechanical-type; approx. 10 sec exposure delay; reset facility provided
<b>Exposure memory lock:</b>	Via self-timer lever provided
<b>Multiple exposure:</b>	Via multiple exposure lever provided
<b>Accessory shoe:</b>	Standard ISO hot shoe with additional contacts for TTL metering and flash ready-light for Nikon FE2-dedicated speedlights
<b>Flash sync:</b>	At "A", 1/250 sec.; on manual, 1/250 sec and all slower speeds, including B (Bulb)
<b>Flash ready-light:</b>	Via LED in viewfinder
<b>Frame counter:</b>	Additive-type; automatically resets to S when the camera back is opened
<b>Power source:</b>	One 3V lithium battery or two 1.5V silver oxide (button-cell) batteries
<b>Camera back:</b>	Interchangeable with optional Data Back MF-16
<b>Dimensions:</b>	142.5mm (W) x 90mm (H) x 57.5mm (D) (5.6" x 3.5" x 2.3")
<b>Weight:</b>	Approximately 550g (19.4 oz.), body only
<b>Optional accessories:</b>	Focusing Screen Type B2/E2 Motor Drive MD-12 Data Back MF-16 Body Cap BF-1A Speedlights SB-15/16B/18/20/21B/22

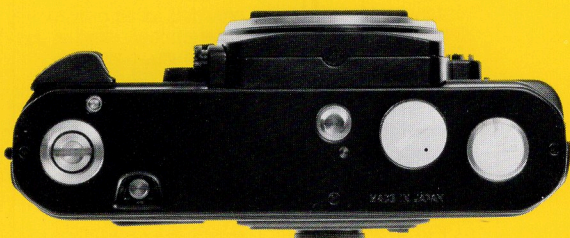
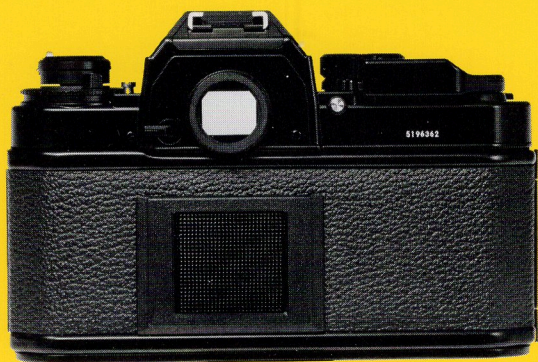




## Nikon FA

<b>Product number:</b>	1730 (chrome) 1731 (black)
<b>Type of camera:</b>	Electronically-controlled, single-lens-reflex camera
<b>Picture format:</b>	24mm x 36mm (standard 35mm format)
<b>Lens mount:</b>	Nikon F bayonet
<b>Lenses:</b>	More than 60 Nikkor and Nikon Series E lenses
<b>Shutter:</b>	Electronically-controlled, vertical-travel, metal focal plane shutter with titanium curtains
<b>Shutter speeds:</b>	Stepless speeds of from 1 sec. to 1/4000 sec. in "P" (Program) and "A" (Aperture Priority) automatic exposure modes; 16 manually-selected speeds of from 1 sec. to 1/4000 sec. provided for operation in "S" (Shutter-Priority) and "M" (Manual) exposure modes; manual speed setting controlled via ceramic oscillator; mechanically-controlled 1/250 sec. (at "M250") and long exposure (at "B") settings provided
<b>Viewfinder:</b>	Fixed pentaprism viewfinder with approximately 93% frame coverage; eyepiece shutter provided for operation when eye is away from eyepiece
<b>Focusing screen:</b>	Matte screen with Fresnel lens and central split-image rangefinder spot surrounded by microprism collar (Nikon Type K2 screen)
<b>Exposure metering:</b>	TTL full-aperture automatic multi-pattern metering or centerweighted metering via silicon photodiode (SPD); metering method selected via changeover switch; Automatic Multi-Pattern metering (AMP) provides for light measurement in five areas of the focusing screen to enable automatic exposure correction for difficult light conditions; centerweighted metering provides for approximately 60% of the light reading to be concentrated in the 12mm circle in the center of the viewfinder
<b>Exposure meter switch:</b>	Built in exposure meter commences measurement when the shutter release button is half depressed; meter switches off about 16 sec. after the button is released
<b>Light metering range:</b>	EV1 to EV20 (f/1.4 at 1 sec. to f/16 at 1/4000 sec.) with 50mm f/1.4 lens and ISO 100 film
<b>Exposure control range:</b>	EV1 to EV16-1/3 with 50mm f/1.4 lens and ISO 100 film (AMP metering)
<b>Exposure control:</b>	Three automatic exposure modes, "P" (programmed), "S" (shutter-priority) and "A" (aperture-priority), plus "M" (manual) exposure mode provided; In "P" mode, shutter speed and aperture both set automatically and steplessly; dual program operation at "P" provides for automatic selection of "normal" program for lens focal lengths shorter than 135mm and "Hi-speed" program for focal lengths of 135mm and longer; In "S" mode, speed manually preselected and aperture set automatically and steplessly via camera; automatic correction ("cybernetic" override) of shutter speed if preselected speed does not give satisfactory exposure; In "A" mode, aperture manually preselected and shutter speed set automatically and steplessly via camera; In "M" mode, both shutter speed and aperture are set manually
<b>Exposure information:</b>	In "P" mode, the LCD above the viewfinder displays the fixed speed closest to the automatically selected speed; "HI" or "LO" in the LCD give warnings of over-exposure or under-exposure, respectively; "FEE" indicates that the aperture has not been properly set; In "S" mode, the LCD displays the integral aperture number closest to the automatically selected aperture, or the fixed speed closest to the automatically selected speed if the set speed does not give satisfactory exposure; the LCD gives a warning of overexposure or underexposure with "HI" or "LO", respectively; the fixed speed manually selected is always displayed separately; In "A" mode the LCD displays the fixed speed closest to the automatically selected speed and warns of overexposure or underexposure with "HI" or "LO", respectively; the f-number set is always displayed separately; In "M" mode, the LCD displays the manually selected shutter speed preceded by "M";





**Exposure compensation:**

**Film advance:**

**Automatic film advance:**

**Frame counter:**

**Film rewind:**

**Self-timer:**

**Depth-of-field preview lever:**

**Multiple exposures:**

**Camera back:**

**Data back contacts:**

**Handgrip:**

**Accessory shoe:**

**Flash synchronization:**

**Flash ready-light:**

**Power source:**

**Dimensions:**

**Weight:**

**Optional accessories:**

"-+" simultaneously illuminated means correct exposure, "+" or "-" individually illuminated means overexposure or underexposure, respectively; the f number set is always displayed  
-2 EV to +2 EV in one-third increments via selector dial; a red warning LED with a +/- symbol is visible inside the viewfinder when the meter is on and compensation has been selected

Wound in single stroke with 30° lever stand-off angle and 135° winding angle; film advance lever doubles as shutter release button lock when set flush to camera body

Possible via optional Motor Drive MD-15 or MD-12  
Additive-type, with automatic resetting to "S" when camera back is opened; shutter fires at 1/250 sec. (unless shutter speed dial is set at B) until counter reaches frame "1"

Manually via folding crank after rewind button in baseplate is depressed

Mechanical type; 10 sec. exposure delay

Provided for visual review of depth-of-field on the focusing screen

Possible via lever fitted coaxially to film advance lever

Interchangeable with optional Data Back MF-16

Two internal electrical contacts provided for camera operation with Data Back MF-16

Detachable; must be removed when attaching motor drive

Standard ISO hot shoe with additional contacts for TTL metering and flash ready-light for Nikon FA-dedicated speedlights; accepts SB-15/16B/18/20/21B/22 for TTL direct flash control

1/250 sec. or slower with electronic flash; with Nikon-dedicated speedlights sync automatically set to 1/250 when flash is mounted and camera and flash are turned on; with "M" mode, flash sync provided at speeds of from 1 to 1/250 sec.; threaded PC-type terminal provided for off-camera flash operation

Viewfinder LED lights up as soon as the Nikon flash unit is ready; LED blinks to warn of insufficient light output or incorrect shutter speed setting or film speed setting

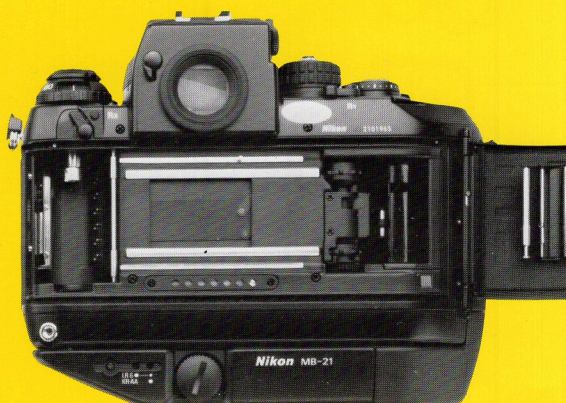
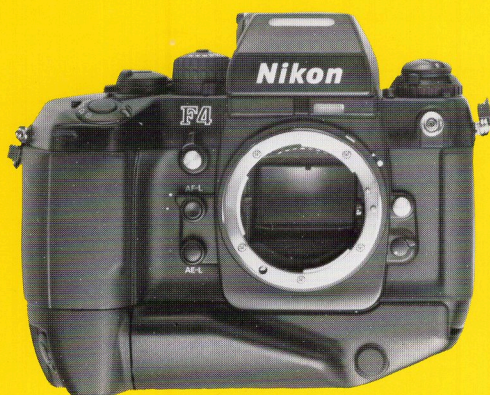
One 3V lithium battery or two 1.5V silver-oxide (button-cell) batteries

142.5mm (W) x 92mm (H) x 64.5mm (D)  
(5.6" x 3.6" x 2.5")

Approximately 625g (22.3 oz.), body only

Focusing Screen Type B2/E2  
Motor Drive MD-15  
Data Back MF-16  
Body Cap BF-1A  
Speedlights SB-15/16B/18/20/21B/22





## Nikon F4

**Product number:**

1791 (With MB-21 High Speed Battery Pack)

**Type of camera:**

Electronically-controlled, professional 35mm single-lens-reflex camera with autofocus and built-in high-speed motor drive

**Picture format:**

24mm x 36mm (standard 35mm format)

**Lens mount:**

Nikon F bayonet with autofocus contacts

**Lenses:**

More than 80 Nikkor and Series E SLR lenses in all; more than 15 AF Nikkor lenses for full automatic focus and exposure operation; more than 70 non-autofocus AI lenses for "A" mode automatic and "M" mode manual exposure operation

**Focus modes:**

Single-servo ("S") autofocus, Continuous-servo ("C") autofocus and Manual ("M") focus with electronic rangefinder; electronic rangefinder operation with lenses of maximum aperture f/5.6 or brighter

**Autofocus detection:**

TTL phase-detection system using Nikon advanced AM200 autofocus module; system equipped with 200-segment CCD sensor unit

**AF detection range:**

EV minus 1 to EV 18 (ISO 100)

**Autofocus lock:**

Via shutter release button in "S" focus mode or AF lock button (AF-L) in "C" focus mode

**Exposure metering:**

5% Spot metering with any viewfinder via light sensor mounted within camera body; traditional 60/40 Center-weighted metering via circuitry provided in DP-20 Multi-Meter Finder (standard) and DA-20 AE Action Finder (optional); Nikon-exclusive Matrix metering for automatic control of difficult lighting conditions via standard DP-20 finder using multi-segment silicon-photo-diode (SPD) sensors; advanced built-in micro computer integrates metering functions with flash photography for balanced fill-flash operation with Nikon TTL Speedlights

**Exposure control:**

Automatic exposure modes of "A" (aperture-priority), "S" (shutter-priority), "P" (normal programmed exposure), and "P<sub>H</sub>" (high-speed-weighted programmed exposure) via mode selector; full manual exposure control of camera provided at "M" mode setting

**Metering range:**

EV 0 to EV 21 with Center-weighted and Matrix metering; EV 2 to EV 21 with Spot metering (ISO 100 and f/1.4 lens)

**Shutter:**

Electromagnetically-controlled, vertical-travel high-speed focal plane shutter; aluminum and carbon-fiber shutter blades ensure highly accurate and high speed operation; equipped with special tungsten shutter balance for maximum reduction of shutter vibration



## SPEEDLIGHTS

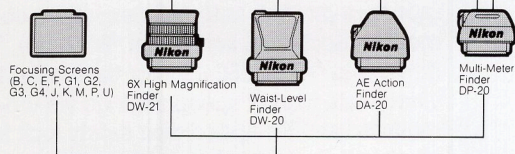


## CF-41

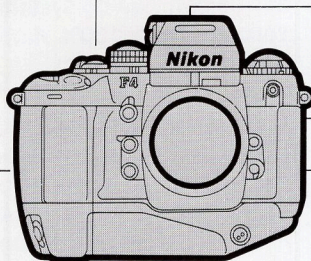
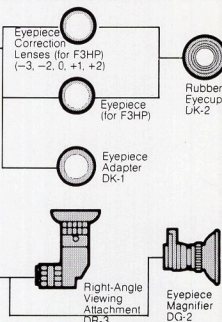
CF-42

CF-43  
(with High Speed Battery  
Pack MB-21)

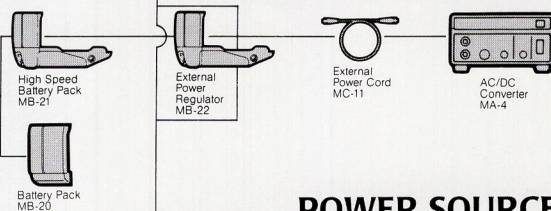
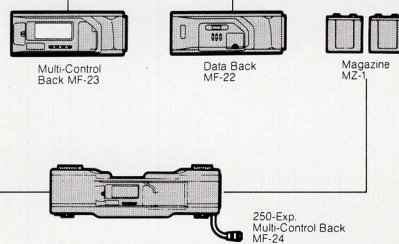




## FINDERS AND ACCESSORIES

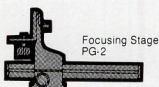
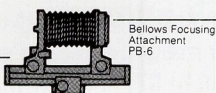
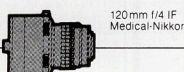
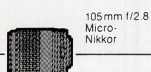


## CAMERA BACKS

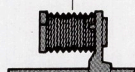


## POWER SOURCES

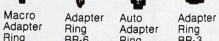
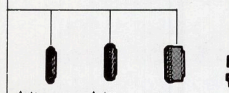
## CLOSE-UP ACCESSORIES



Camera Holder Adapter PA-4

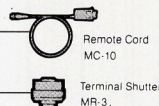
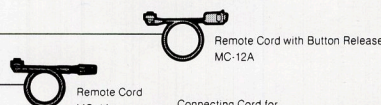


AC Unit LA-2



Matrix Metering  
Center-Weighted Metering, AI Control  
Stop-Down Metering

## REMOTE CONTROL ACCESSORIES



Sutter lock, light pressing possible  
Light pressing possible  
Only full shutter release





**Shutter control:**

Speed control via lithium niobate oscillator; 16 shutter speed setting in 1 EV steps of from 1/8000 sec. to 4 sec. for camera operation in "S" (shutter-priority) automatic and "M" (manual) exposure control modes; stepless operation of from 1/8000 sec. to 30 sec. for camera operation in "P" (normal program), "P<sub>HI</sub>" (high-speed-weighted program) and "A" (aperture-priority) automatic exposure control modes; additional settings of "B" (bulb), "T" (time) and "X" (1/250 sec. for flash sync.) provided; selection of speed settings via top-mounted shutter-speed dial; safety lock for electronic flash synchronization ("X") setting

**Viewfinder:**

Interchangeable finder system; DP-20 Multi-Meter Finder as standard; extensive finder and screen viewing system available as option; virtually 100% viewfinder coverage provided

**Viewfinder display:**

Camera body equipped with large LCD and LED panels for miscellaneous information display with any camera finder; additional LCD panel provided with standard DP-20 finder; finder display of all exposure information in all modes, compensation values, focusing indicators, flash ready-light and frame counter provided as standard via various finder-visible LCD panels; LCD illuminators provided in camera body and DP-20 finder; illuminator ON/OFF switch provided on camera body at base of shutter-speed selector dial

**Focusing screens:**

Interchangeable screen system; camera equipped with Type B advanced BriteView screen featuring overall matte/Fresnel field with central autofocus reference brackets and reference circles for Spot (5mm) and Center-weighted metering; 12 optional F4-dedicated screens available

**Film speed range:**

Via top-mounted film speed selector dial; settings provided for manual selection of film speeds of from ISO 6 to ISO 6400 in 1/3 EV steps, plus "DX" position for selection of automatic film speed sensing via DX-code contacts; with DX-code operation, film speed range of from ISO 25 to ISO 5000 is provided

**Film transport:**

Film advance via built-in high-speed motor drive; motor firing mode selection enables choice of Single-frame ("S"), Continuous-Hi-speed ("C<sub>H</sub>"), Continuous-Lo-speed ("C<sub>L</sub>") and Continuous-"Silent" ("C<sub>s</sub>") rates of fire; shooting speed of up to 5.7 fps (frames/second) are possible; choice of powered or manual film rewind provided; operation of rewind lever "R1" alone enables manual rewind via crank provided; operation of levers "R1" and "R2" enables powered rewind with automatic stop at completion of rewind cycle

**Self-timer:**

Electronically-controlled timer with 10-second delay provided; flashing LED indicates





**Flash hot shoe:**

operation; timer operation cancellable

**Flash synchronization:**

Standard ISO-type shoe with supplemental contacts for operation with Nikon-dedicated electronic Speedlights; hot shoe contacts enable finder ready-light and TTL flash control interface

**Power source:**

Nikon MB-21 High Speed Battery Pack (six AA-type batteries) as standard; MB-20 Battery Pack (four AA-type batteries) and MB-22 External Power Regulator (for connection to alternative voltage sources) as option

**Dimensions (WxHxD):**

168.5 x 138 x 76.6mm (6.6 x 5.4 x 3.0 in.) with MB-21 High Speed Battery Pack;  
168.5 x 117 x 76.6mm (6.6 x 4.6 x 3.0 in.) with MB-20 Battery Pack

**Weight:**

Approx. 1,280g (45.1 oz.) with MB-21 High Speed Battery Pack (without batteries);  
approx. 1,090g (38.4 oz.) with MB-20 Battery Pack (without batteries)

**Product number:**

4631

**Application:**

Provides for powering the Nikon F4 with four AA-type (penlight) batteries; this is the most compact power source for the F4 camera

## MB-20 Battery Pack for Nikon F4

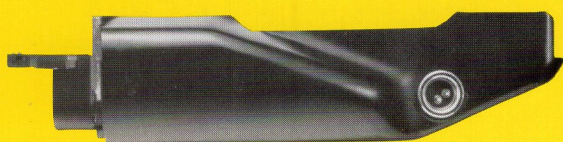
**Product number:**

4632

**Application:**

Provides for the fastest battery-powered motor drive operation with the Nikon F4; maximum firing rate with the MB-21 is approx. 5.7 fps; comes as standard with the Nikon F4 camera; unit consists of MB-21G (grp), MB-21B (base) and MS-21 Battery Holder





## MB-22 External Voltage Regulator for Nikon F4

**Product number:**

4633

**Application:**

Provides for operation of the Nikon F4 via external power; connects to the base of the camera in place of MB-21 High Speed Battery Pack for operation with the Nikon MA-4 AC/DC Converter; connection to the MB-22 is via optional MC-11 Power Connecting Cord; MB-22 External Voltage Regulator consists of MB-21G (grip) and MB-22B (base)

## MS-21 Battery Holder for Nikon F4 (repl.)

**Product number:**

4637

**Application:**

Provides for the mounting of three AA-type (penlight) batteries within the MB-21B base portion of the MB-21 Hi-Speed Battery Pack