

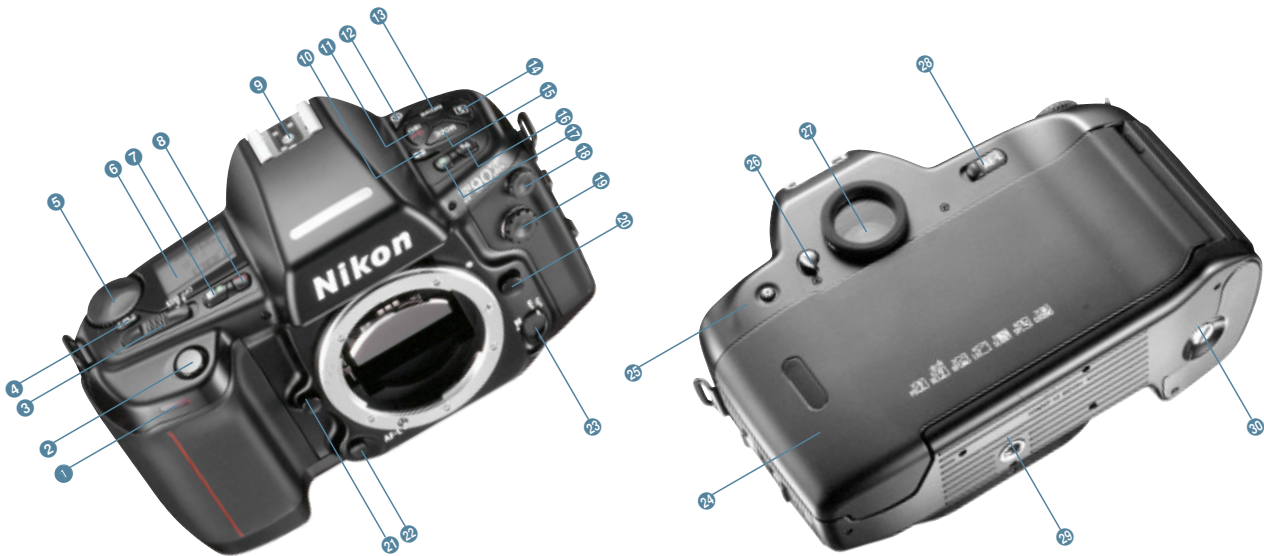
F90X

Higher speed, greater accuracy

- Focusing system with Focus Tracking up to 4.1 frames per second (fps) in continuous high shooting mode; Wide-Area/Spot autofocus operates in light as dim as EV minus 1
- Nikon's exclusive 3D Matrix Metering using eight-segment Matrix sensor
- Matrix, Center-Weighted and Spot exposure metering systems
- 3D Multi-Sensor Balanced Fill-Flash enables precise flash exposure control, automatically
- Slow Sync and Rear-Curtain Sync
- Top shutter speed of 1/8000 sec.; normal flash sync up to 1/250 sec.
- Built-in motor drive enables film advance up to 4.3 fps.
- Vari-Program System includes seven versatile programs for enhanced personal creativity without complex calculations
- Auto-Multi Program with Flexible Program capability
- Optional Multi-Control Back MF-26 enables Multiple Exposure, All-Mode Exposure Bracketing, Long Time Exposure, Freeze Focus, Interval Timer, and more
- Personal computer link capability



Nikon F90 is sold as Nikon N90 in the U.S.



- | | | | |
|--------------------------------------|---|----------------------------------|---|
| 1 Self-timer indicator LED | 9 Accessory shoe | 17 Reset button | 25 Viewfinder/LCD panel illumination button |
| 2 Shutter release button | 10 Metering system button | 18 Sync terminal | 26 Eyepiece shutter lever |
| 3 Power switch | 11 Film speed/film rewind button | 19 10-pin remote terminal | 27 Viewfinder eyepiece |
| 4 Focus area button | 12 Self-timer button Setting/ISO film speed select dial | 20 Lens release button | 28 AE-L lever |
| 5 Command input control dial | 13 Film advance mode button | 21 Depth-of-field preview button | 29 Tripod socket |
| 6 LCD panel | 14 Flash sync mode button | 22 AF-L button | 30 Battery holder lock screw |
| 7 Exposure compensation/reset button | 15 Exposure mode button | 23 Focus mode selector | |
| 8 Film rewind button | 16 Vari-Program button | 24 Camera back lock releases | |



Body-Integral Motor Drive

The F90X's quiet, body-integral motor drive offers a choice of three firing modes—single, continuous shooting of up to two frames per second (fps), and continuous shooting of up to 4.3 fps. Remote operation is via the camera's 10-pin remote terminal.



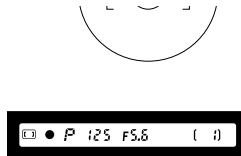
Command Input Control Dial

Your right thumb will feel instantly at home with this ergonomically designed dial which you can turn without taking your eye off your subject. You can input your choice of exposure mode, shutter speed, exposure meter, flash sync mode, and others with full confidence.



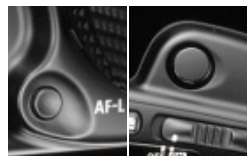
Top Deck LCD Panel

The LCD panel on the camera's top deck shows all vital information at a glance. It is illuminated for dim light viewing, keeping you informed of the camera's current settings and operations.



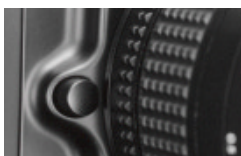
Viewfinder LCD indicator

Most of the data displayed on the LCD panel on top of the camera is duplicated in the viewfinder's own LCD indicator, which can be illuminated at the press of a button. So your eye need never stray from your subject.



Autofocus Lock

This inspired device lets you lock focus in either Continuous or Single Servo shooting, so you can first focus your subject, then re-frame the scene anyway you like to, vertically or horizontally. A small Nikon touch that can lend variety to your picture taking.



Depth-of-field Preview Button

This control enables you to preview the depth of field whenever you're using Aperture-Priority Auto or Manual exposure control.



Instant Reset

Pressing the reset and exposure compensation/reset button simultaneously for at least one second returns all camera settings automatically to factory-standard settings or, when the optional Nikon Photo Secretary for F90X/F90 (AC-PW-E) is used, to your personalised selection of settings.



High-Eyepoint Finder

Another Nikon touch everyone will appreciate. It enables you to look at the viewfinder image clearly in comfort, even if you're wearing glasses. The focusing screen is the interchangeable type. There's a grey eyepiece shutter you can use to prevent light from accidentally coming in through the eyepiece.



Auto Film Operation







From film loading to ISO film speed setting, film advance and film rewind—all film operations are automatic and mistake-proof. If you're in a hurry to see what you've shot, just rewind at mid-roll.



Manual ISO Film Speed Setting

Another opportunity to experiment and really vary your shots. This feature lets you override the otherwise automatic DX coding of the ISO rating of the film in use. You can choose any rating from 6 to 6400—a very useful feature for creative applications, such as intentional film speed boosting.

Type of camera: Integral-motor autofocus 35mm single-lens reflex
Picture format: 24 × 36mm [standard 35mm (135) format]
Lens mount: Nikon F mount
Lens: Nikkor and Nikon lenses having Nikon F mount (with some limitations)
Focus modes: Autofocus, and Manual with Electronic Rangefinder
Autofocus area: Wide and Spot selectable
Autofocus mode: Single Servo AF with Focus-Priority and Continuous Servo AF with Release-Priority
Focus Tracking: Automatically activated when subject moves
Autofocus detection system: Nikon CAM246 autofocus module
Autofocus detection range: Approx. EV -1 to 19 (at ISO 100)
Autofocus lock: Possible once stationary subject is in focus in Single Servo AF; in Continuous Servo AF, focus can be locked with AF-L (autofocus lock) button
Electronic rangefinder: Available in Manual focus mode with AF Nikkor or other AI-type Nikkor lens with a maximum aperture of f/5.6 or faster
Exposure metering: Three built-in exposure meters — Matrix, Center-Weighted and Spot
Metering range: EV -1 to 21 for Matrix and Center-Weighted metering; EV 3 to 21 for Spot metering
Exposure meter: Activated by lightly pressing shutter release button; stays on for 8 sec., after finger leaves button
Exposure modes: Programmed Auto (Auto-Multi Program and Vari-Program), Shutter-Priority Auto, Aperture-Priority Auto and Manual Camera sets both shutter speed and lens aperture automatically; Flexible Program possible in increments of 1/3 EV for shutter speed or of 1 EV for aperture setting
Programmed Auto exposure control: Aperture automatically selected to match manually set shutter speed; shutter speed can be set in 1/3 EV steps
Shutter-Priority Auto exposure control: Shutter speed automatically selected to match manually set aperture
Aperture-Priority Auto exposure control: Both aperture and shutter speed are set manually; shutter speed can be set in 1/3 EV steps
Manual exposure control: Seven kinds built in: Portrait Program, Portrait Program with Red-Eye Reduction, Hyperfocal Program, Landscape Program, Silhouette Program, Sport Program, and Close-Up Program; each has its own program line, and specific camera settings such as metering system, focus area, etc., are automatically selected
Exposure compensation: With exposure compensation button; ±5 EV range, in 1/3 EV steps
Auto exposure lock: By sliding AE lock lever while meter is on
Shutter: Electromagnetically controlled vertical-travel focal-plane shutter
Shutter release: By motor trigger
Shutter speeds: Lithium niobate oscillator-controlled speeds from 1/8000 to 30 sec. in 1/3 EV steps; electromagnetically controlled Bulb setting is provided
Viewfinder: Fixed eyelevel pentaprism high-eyepoint type; 0.78× magnification with 50mm lens set at infinity; approx. 92% frame coverage
Eyepoint: Approx. 19mm
Eyepiece shutter: Provided
Focusing screen: Nikon advanced B-type BriteView screen; interchangeable with E-type screen
Viewfinder information: Focus area, focus indications, exposure mode, shutter speed, second mark for shutter speed slower than one second, aperture, electronic analog display, frame counter/exposure compensation value/Vari-Program, Flexible Program mark and exposure compensation mark are all shown in LCD readout; also shows flash recommended/ready light LED
LCD panel information: Shutter speed, aperture, exposure mode, metering system, focus area, autofocus mark with focus-/release-priority indication, Flexible Program mark, flash sync, film speed, DX mark, exposure compensation mark, frame counter/Vari-Program/exposure compensation value, Custom mark, film advance mode, film loading, film rewind, self-timer, battery power
Viewfinder/LCD panel illumination: Viewfinder and LCD panel illuminated by pressing button
Film speed range: ISO 25 to 5000 for DX-coded film; ISO 6 to 6400 can be manually set
Film speed setting: At DX position, automatically set to ISO speed of DX-coded film used; manual setting possible

Film loading: Film automatically advances to first frame when shutter release button is depressed once
Film advance: In single-frame  shooting mode, film automatically advances one frame when shutter is released; in  (continuous high) or  (continuous low) shooting mode, shots are taken as long as shutter release button is depressed; in  mode, shooting speed is approx. 4.3 fps, and in  approx. 2.0 fps; in Focus Tracking, shooting speed is approx. 4.1 fps
Frame counter: Additive type; counts back while film is being rewound
Self-timer: Electronically controlled; timer duration selectable from 2 to 30 seconds in one-sec. increments; blinking LED indicates self-timer operation; cancellable
Depth-of-field preview button: Provides visual verification of depth of field; can be previewed in Aperture-Priority Auto or Manual exposure mode
Reflex mirror: Automatic, instant-return type
Camera back: Hinged back; interchangeable with Nikon Multi-Control Back MF-26 or World Time Data Back MF-25
Accessory shoe: Standard ISO-type hot-shoe contact; ready-light contact, TTL flash contact, monitor contact; Mount receptacle for Posi-Mount System is provided
Flash sync control: Slow Sync, Rear-Curtain Sync and Red-Eye Reduction functions built-in
Flash synchronization: In Programmed Auto or Aperture-Priority Auto, shutter operates from 1/250 to 1/60 sec. in normal sync or 1/250 to 30 sec. in slow sync; in Shutter-Priority Auto or Manual exposure mode, shutter fires at speed set, and when set from 1/250 to 1/8000 sec., shutter is automatically set to 1/250 sec.
TTL Multi Sensor: Five-segment multi sensor used for TTL auto flash control
Automatic Balanced Fill-Flash with TTL Multi Sensor: Possible when AF or AI-P Nikkor lens is used with Nikon Speedlight SB-28/28DX, SB-27, SB-23, SB-22s, SB-29, etc.
Monitor Pre-flash: Nikon Speedlight SB-28/28DX or SB-27 fires Monitor Pre-flash(es) for TTL Multi Sensor when AF or AI-P Nikkor lens is used
Flash recommended/ready light: No Speedlight attached: Lights up in green when flash is recommended
Speedlight attached: Lights up in red when Nikon dedicated Speedlight is ready to fire, or blinks to warn of insufficient light for correct exposure
Number of 36-exposure film rolls per set of fresh batteries: For autofocus operation using AF Zoom-Nikkor 28-70mm f/3.5-4.5D lens covering the full range from infinity (∞) to the closest distance and back to infinity (∞) before each shot, in Continuous Servo AF mode with film advance mode at  and a shutter speed of 1/125 sec. or faster.

	At 20°C (68°F)	At -10°C (14°F)
LR6 (AA-type alkaline)*	50	9
R6P (AA-type manganese)*	14	0
KR-AA (AA-type NiCd)*	40	16
FR6 (AA-type lithium)*	250	130
CR123A lithium** (with MB-10)	90	25




*F90X body only or when using MB-10 with standard MS-10 battery holder.

**When using MB-10 with optional MS-11 battery holder.

Lithium batteries are useful especially when shooting at lower temperatures, however film advance speed may slow down.

Power source: Four 1.5V LR6 (AA-type alkaline), 1.2V KR-AA (AA-type NiCd), 1.5V R6P [AA-type manganese (black type)] or 1.5V FR6 (AA-type lithium) batteries; two 3V CR123A lithium batteries also usable for Multi-Power Vertical Grip MB-10 with MS-11 battery holder attached

* ML-3 cannot be used when FR6 (AA-type lithium) batteries are used.

Battery power confirmation:  for sufficient power;  indicates batteries are nearing exhaustion; blinking  indicates batteries are just about exhausted; no indication/mark appears when batteries are completely exhausted or improperly installed

Dimensions (W × H × D): Approx. 154 × 106 × 69mm or 6.1 × 4.2 × 2.7 in.

Weight (without batteries): Approx. 755g or 26.6 oz.

All specifications apply when fresh batteries are used at normal temperature (20°C/68°F). Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.
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FUJII BLDG., 2-3, MARUNOUCHI 3-CHOME, CHIYODA-KU, TOKYO 100-8331, JAPAN

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