



10

Digital cameras

Camere digitale



40

SLR cameras

Fotocamere reflex
monobiettivio



64

Compact finder
cameras

Fotocamere
compatte



83

Lenses and accessories

Obiettivi ed accessori



167

Speedlights and
accessories

Lampeggiatori
ed accessori



188

Camera accessories /
Various

Accessori di
fotocamere / Vari



237

Nikonos underwater
cameras

Fotocamere Nikonos
subacqueo



255

Binoculars

Binocoli

284

Nikon distributors in Europe
Distributori Nikon in Europa



A Chapter of a Success Story

In 1948 a company called Nikon, at that time quite unknown, introduced its first viewfinder camera in this country. Only eleven years on, it launched the efficient Nikon F onto the market – this new SLR camera set the trend and sounded the bells for a new era of professional 35mm photography. Virtually from one day to the other, Nikon became the name for innovation, versatility, longevity and ease of operation. In technical terms, the first Nikon cameras and the current versions couldn't be more different. However one thing has not changed over the decades: Nikon's extraordinary philosophy with regard to quality, which has marked every chapter in this long success story. This has guaranteed practical functionality, professionally versatile systems and optimum value up to this day.

Un capitolo di una splendida storia

Nel 1948, una ditta quasi sconosciuta di nome Nikon presentava un primo apparecchio fotografico. Solamente undici anni più tardi, lanciava sul mercato la straordinaria Nikon F, e questa fotocamera reflex capace di offrire prestazioni che ancora oggi non sono state eguagliate, apriva una nuova era della fotografia professionale per quanto riguarda il formato 35 mm. Praticamente da un giorno all'altro, Nikon è diventato sinonimo d'innovazione, di diversificazione, di longevità e comodità d'uso. La differenza fra i primi apparecchi Nikon ed i modelli attuali è enorme. Tecnicamente tutto è stato rovesciato. Ma una cosa non è cambiata durante questi decenni, ed è l'eccezionale filosofia della qualità di Nikon. Proprio questa filosofia gioca un ruolo determinante in ogni capitolo della storia di un successo permanente, che continua ancora oggi; essa è garante di funzionalità pragmatica, di diversificazione professionale del sistema e di mantenimento ottimale della qualità.



Nikon I (1948)



Nikon M (1950)



Nikon S (1951)



Nikon S2 (1954)



Nikon SP (1957)



Nikon S3 (1958)



Nikon S4 (1959)



Nikon F (1959)



Nikon S3M (1960)



Nikon F Photomic (1962)



Nikonos (1963)



Nikon F Photomic T (1965)



Nikkormat FT (1965)



Nikkormat FS (1965)



Nikon F Photomic Tn (1967)



Nikkormat FTn (1967)



Nikon F Photomic FTn (1968)



Nikonos II (1968)



Nikon F2 (1971)



Nikon F2 Photomic (1971)



Nikkormat EL (1972)



Nikon F2 Photomic S (1973)



Nikkormat FT2 (1975)



Nikonos III (1975)



Nikkormat ELw (1976)



Nikon F2 Photomic SB (1976)



Nikon F2 Photomic A (1977)



Nikkormat FT3 (1977)



Nikon FM (1977)



Nikon EL2 (1977)



Nikon F2 Photomic AS (1977)



Nikon FE (1978)



Nikon EM (1979)



Nikon F3 (1980)



Nikonos IV-A (1980)



Nikonos F3 HP (1982)



Nikon FM2 (1982)



Nikon FG (1982)



Nikon F3/T (1982)



Nikon F3AF (1983)



Nikon FE2 (1983)



Nikon FA (1983)



Nikon FG-20 (1984)



Nikonos V (1984)



Nikon F-301 (1985)



Nikon F-501 (1986)



Nikon F-401 (1987)



Nikon F-801 (1988)



Nikon F4 (1988)



Nikon F-401s (1989)



Nikon QV-1000C (1989)



Nikon F-601 (1990)



Nikon F-601M (1990)



Nikon F-801s (1991)



Nikon F-401x (1991)



Nikonos RS (1992)



Nikon F90 (1992)



Nikon FM2/T (1993)



Nikon 35Ti (1993)



Nikon F50 (1994)



Nikon F90X (1994)



Nikon F70 (1994)



Nikon 28Ti (1994)



Nikon E2/E2s (1995)



Nikon F5 (1996)



Nikon Pronea 600i (1996)



Nikon F3H (1996)



Nikon Coolpix 100 (1997)



Nikon Coolpix 300 (1997)



Nikon FE10 (1997)



Nikon F60 (1998)



Nikon Pronea S (1998)



Nikon E3/E3s (1998)



Nikon Coolpix 900/900s (1998)



Nikon Coolpix 600 (1998)



Nikon F100 (1998)



Nikon D1 (1999)



Nikon Coolpix 950 (1999)



Nikon Coolpix 700 (1999)



Nikon Coolpix 800 (1999)



Nikon S3 (2000)



Nikon F80 (2000)



Nikon Coolpix 990 (2000)



Nikon F65 (2000)



Nikon Coolpix 880 (2000)



Nikon D1x (2001)



Nikon D1H (2001)



Nikon Coolpix 995 (2000)



Nikon FM3A (2001)



Nikon Coolpix 775 (2001)



Nikon Coolpix 885 (2001)



Nikon Coolpix 5000 (2001)



Nikon D1H



Digital accessories

**Accessori
Camere digitale**



Nikon D1X



**Scanner
Coolscan LS IV ED**



Coolpix 5000



**Scanner
Coolscan LS 4000 ED**



Coolpix 995



**Scanner
Coolscan LS 8000 ED**



Coolpix 885



Coolpix 775

Nikon Digital Camera D1H

Order code	VAA109EG
Camera type	Single-lens reflex digital camera with interchangeable lenses
CCD	23.7 × 15.6 mm RGB CCD; 2.74 million pixels; 2.66 million effective pixels (2,012 × 1,324); captures 12-bit full-colour image
Image size	3,008 × 1,960 or 2,000 × 1,312
Sensitivity	ISO equivalency 200–1,600 (variable in 1/3 or 1 EV steps)
Storage system	Digitally stored; JPEG baseline (approx. 1/8, 1/16 compressed), uncompressed (12-bit RAW, 8-bit YcbCr-TIFF; 8-bit RGB-TIFF); monochrome mode
Storage media	CompactFlash™ cards (type I or II) and Microdrive™
Quality and number of frames	see table
Shooting modes	Single frame (S) mode: advances one frame with each shutter release; capture preview mode available Continuous shooting (C) mode: approx. 3 frames per sec. (up to 9 consecutive shots) Self-timer mode: timer duration can be set Playback (Play): playback mode, menu control PC: data transfer via personal computer
White Balance	Auto (TTL control with 1,005 pixels CCD) Manual (6 settings with fine tuning) Preset
LCD monitor	2 inch TFT display with 130,000 dots, low temperature; backlighting and brightness adjustable
Playback menu	Protect attribute Hide attribute NTSC or PAL switchable Indication directory switching
Playback function	Full frame Thumbnail (4/9 segments) Slide show Enlarged frame playback Histogram indication, highlight point display and focus confirmation indication
Delete functions	Card formatting All frames delete Selected frames delete
Video output Interface	NTSC or PAL switchable IEEE1394 and RS-232C (GPS connection)
Suitable lenses	D-type AF Nikkor: all functions possible D-type manual-focus Nikkor: all functions possible except autofocus AF Nikkor (other than D-type): all functions possible except 3D colour matrix metering and 3D multi-sensor balanced fill-flash for D1-series AI-P Nikkor: all functions possible except 3D colour matrix metering, 3D multi-sensor balanced fill-flash for D1 and autofocus



	Lenses without CPU control: Usable in [A] or [M] mode, centre-weighted or spot metering. Electronic rangefinder usable with lens with maximum aperture of f/5.6 or greater Approx. 1.5 × in 35 mm (135) format equivalent
Picture angle	
Viewfinder	Optical viewfinder; pentaprism with built-in dioptre adjustment (-3 to +1 m ⁻¹); eyepiece cover provided
Eyepoint	22 mm (at -1.0 m ⁻¹)
Focusing screen	B-type BriteView clear matte screen III; interchangeable with optional E-type screen with grid for D1-series
Viewfinder frame coverage	Approx. 96%
Viewfinder magnification	Approx. 0.8 × with 50 mm lens, set to infinity, and dioptre setting of -1.0 m ⁻¹
Viewfinder information	Focus indications, shutter speed, aperture, exposure mode, metering system, shutter speed lock, aperture lock, AE lock, electronic analogue display, frame counter, flash ready-light, five sets of focus brackets (area)
Reflex mirror	Instant-return type reflex mirror
Depth-of-field preview button	Stops lens down to aperture TTL phase detection with Nikon Multi-Cam 1300 autofocus module; detection range: EV -1 to EV 19 (ISO 100 equivalent at normal temperature)
Autofocus	
Lens servo control	Single servo AF (S) Continuous autofocus (C) Manual focus (M)
Focus tracking	Tracking automatically activated by subject's movement in (S) or (C) modes
Autofocus area metering	One of five focus areas can be selected
Autofocus area metering mode	Single area AF; dynamic AF mode (with setting for closest subject priority)
AF lock	Focus is locked by lightly pressing shutter release button (single autofocus) or by pressing AF-L/AE-L button
Exposure metering system	System: TTL full-aperture metering system; 3D colour matrix metering with 1,005-pixel CCD Centre-weighted metering with 75% of the meter sensitivity concentrated on the middle circle segment (8 mm diameter) Spot metering (middle circle segment of 4 mm diameter, approx. 2% of entire frame)
Exposure metering range	3D colour-matrix metering: EV 0-20 Centre-weighted metering: EV 0-20 Spot metering: EV 2-20 (at normal temperature, ISO 100 equivalent of lens aperture of f/1.4)



Remote control	Via 10-pin remote terminal, IEEE1394 (400 Mbit/sec.)
Power requirements	Ni-MH battery pack EN-4 (7.2 V DC), quick charger MH-17 (12 V DC) / 16/15; AC adapter EH-4 (100–240 V AC)
Tripod socket	1/4 in. (JIS)
Custom settings	35 settings can be selected on LCD monitor
Dimensions	Approx. 157 × 153 × 85 mm (W × H × D)
Weight	Approx. 1.1 kg (without battery)

Supplied with:

Neck strap
Video cable
Standard software: "NikonView" browser

Optional accessories:

Ni-MH battery pack EN-4
Quick charger MH-16
AC adapter EH-4
CompactFlash cards
Speedlight SB28DX
Speedlight SB50DX
IEEE1394 cable SCD1
"Nikon Capture" control software

System requirements for Windows®

Microsoft® Windows
98SE/2000/ME or later

Memory
Nikon ViewDX Minimum of 16 MB RAM (more than 32 MB recommended)

Memory
Nikon Capture Minimum of 64 MB RAM (more than 128 MB recommended)

System requirements for Macintosh®

Mac®OS 8.6 or later (CPU: Power PCTM G3, G4)

Memory
Nikon ViewDX Minimum of 16 MB RAM (more than 32 MB recommended)

Memory
Nikon Capture Minimum of 32 MB (more than 64 MB recommended)

D1X Nikon Digital Camera

Order code	VAA109EM
Type of camera	Digital SLR camera with interchangeable lenses
CCD	23.7 × 15.6 mm RGB CCD; 5.47 million pixels; captures 12-bit full colour image
Image size	3,008 × 1,960 or 2,012 × 1,324
Sensitivity	ISO equivalency 125–800 (variable in 1/3, 1/2 or 1 EV steps)
Storage system	System: digitally stored; JPEG baseline (approx. 1/8, 1/16 compressed), uncompressed (12-bit RAW, 8-bit YcbCr-TIFF, 8-bit RGB-TIFF), grey-scale mode
Storage media	CompactFlash™ card (type I or II) and Microdrive™
Capture modes	Single frame (S): advances one frame with each shutter release; capture preview mode available Continuous shooting (C) mode: approx. 3 frames per sec. (up to 9 consecutive shots) Self-timer mode; timer duration can be set Playback (Play): playback mode, menu control PC: data transfer via personal computer
White balance	Auto (TTL control with 1,005 pixels CCD) Manual (6 settings with fine tuning) Preset
LCD monitor	2 inch FT display with 130,000 dots, low temperature; back-lighting and brightness adjustable
Playback function	Protect attribute Hide attribute NTSC or PAL switchable Indication directory switching
Playback menu	Full frame Thumbnail (4/9 segments) Slide show Enlarged frame playback Histogram indication, highlight point display and focus confirmation indication
Delete function	Card formatting All frames delete Selected frames delete
Video output Interface	NTSC or PAL switchable IEEE1394 and RS-232C (GPS connection)
Suitable lenses	D-type AF Nikkor: all functions possible D-type manual-focus Nikkor: all functions possible except autofocus AF Nikkor (other than D-type): all functions possible except 3D colour matrix metering and 3D multi-sensor balanced fill-flash for D1-series AI-P Nikkor: all functions possible except 3D colour matrix metering, 3D multi-sensor balanced fill-flash for D1 and autofocus



	Lenses without CPU control: Usable in [A] or [M] mode, centre-weighted or spot metering. Electronic rangefinder usable with lens with maximum aperture of f/5.6 or greater
Picture angle	Approx. $1.5 \times$ focal length in 35 mm format equivalent
Viewfinder	Optical viewfinder; pentaprism; built-in dioptre adjustment (-3 to $+1 \text{ m}^{-1}$); eyepiece cover provided
Eyepoint	22 mm (at $-1,0 \text{ m}^{-1}$)
Focusing screen	B-type BriteView clear matte screen III; interchangeable with optional E-type screen with grid for D1-series
Viewfinder frame coverage	Approx. 96%
Viewfinder magnification	Approx. $0.8 \times$ with 50 mm lens, set to infinity, and dioptre setting of -1.0 m^{-1}
Viewfinder information	Focus indications, shutter speed, aperture, exposure mode, metering system, shutter speed lock, aperture lock, AE lock, electronic analogue display, frame counter, ready-light, five sets of focus brackets (area)
Reflex mirror	Instant-return type reflex mirror
Depth-of-field preview button	Stop down lens aperture by pressing depth-of-field preview button
Autofocus	TTL phase detection with Nikon Multi-Cam 1300 autofocus module; detection range: EV -1 to EV 19 (ISO 100 equivalent at normal temperature)
Lens servo control	Single servo AF (S) Continuous autofocus (C) Manual focus (M)
Focus tracking	Tracking automatically activated by subject's movement in (S) or (C) modes
Autofocus area metering	One of five focus areas can be selected
Autofocus area metering mode	Single area AF; dynamic AF mode (with setting for closest subject priority)
AF lock	Focus is locked by lightly pressing shutter release button (single autofocus) or by pressing AF-L/AE-L button
Exposure metering system	System: TTL full-aperture metering system; 3D colour matrix metering with 1,005-pixel CCD Centre-weighted metering with 75% of the meter sensitivity concentrated on the middle circle segment (8 mm diameter) Spot metering (middle circle segment of 4 mm diameter, approx. 2% of entire frame)
Exposure metering range	3D colour-matrix metering: EV 0–20 Centre-weighted metering: EV 0–20 Spot metering: EV 2–20 (at normal temperature, ISO 100 equivalent of lens aperture of f/1.4)
Remote control	Via 10-pin remote terminal, IEEE1394 (400 Mbit/sec.)



Power requirements	Ni-MH battery pack EN-4 (7.2 V DC), quick charger MH-17 (12 V DC) / 16/15; AC adapter EH-4 (100–240 V AC)
Tripod socket	1/4" (JIS)
Custom settings	35 settings can be selected on LCD monitor
Dimensions	Approx. 157 × 153 × 85 mm (W × H × D)
Weight	Approx. 1.1 kg (without batteries)

Supplied with:

Neck strap
Video cable

Standard software:

"NikonView" browser

Optional accessories:

Ni-MH battery pack EN-4

Quick charger MH-16

AC adapter EH-4

CompactFlash cards

Speedlight SB28DX

Speedlight SB50DX

IEEE1394 cable SCD1

"Nikon Capture" control software

System requirements for Windows®

Microsoft® Windows 98SE/2000/ME or later

Memory, Nikon ViewDX Minimum of 16 MB RAM (more than 32 MB recommended)

Memory, Nikon Capture Minimum of 64 MB RAM (more than 128 MB recommended)

System requirements for Macintosh®

Mac® OS 8.6 or later (CPU: Power PCTM G3, G4)

Memory, Nikon ViewDX Minimum of 16 MB RAM (more than 32 MB recommended)

Memory, Nikon Capture Minimum of 32 MB (more than 64 MB recommended)

Nikon Coolpix 5000

Order code	VAA116EA
Camera type	Digital compact camera
CCD Sensor	2/3 inch CCD with 5.06 million pixels
Resolution	2560 × 1920 pixels
Lens	3× zoom-Nikkor; 7.1 to 21.4 mm lens (35 mm camera format equivalent to 28 to 85 mm); f/2.8 to 4.8
Digital zoom	Button controlled, up to 4× digital zoom
Autofocus (AF)	Contrast-detect TTL; 5-segment multi AF, continuous AF (monitor on), single AF, AF spot metering, manual focus
Focus range	50 cm to infinity; 2 cm to infinity in macro mode
LCD monitor	1.8-inch, 110,000-dot, TFT LCD monitor with 5-step brightness adjustment
Storage media	CompactFlash™ (CF) card type I and II
Shooting modes	Programmed auto (P); aperture-priority auto (A); shutter-priority auto (S); manual (M); custom settings, up to three configurations can be memorised
Menu options	White balance, exposure metering, continuous shooting, BSS (best-shot selector), lens, image adjustment (auto, standard, more contrast, less contrast, brighter, darker, black and white, image sharpening), digital zoom (up to 4× magnification), noise reduction, low-noise-mode, hue adjustment
Capture modes	Single, L series (max. 10 exposures at 1.5 fps); H series (max. 4 exposures at 3 fps); high speed series (SXGA, XGA or VGA size at 5 fps); ultra-high speed series (up to 100 exposures in QVGA size at 30 fps); multi-shot 16 (16 frames at 5 fps), movie sequence with sound (max. 40 sec. at 15 fps in QVGA size)
Shutter	Mechanical and electronic shutter; speeds: 8 to 1/4000 sec., bulb up to 60 sec.
Aperture	7-blade iris diaphragm, 10 aperture steps selectable
Exposure modes	Programmed auto and manual ± 2 EV in 1/3 EV steps; auto exposure bracketing
Exposure compensation	
Exposure range	EV -2 to +18 (wide angle), EV -0.5 to +18 (telephoto), (ISO 100 equivalent)
Sensitivity	ISO 100 equivalent; ISO 200, 400, 800 can be set manually



White balance	Matrix auto with TTL control; 5 manual modes with fine tuning (sun, light-bulb, fluorescent, daylight, cloudy, speedlight), white balance bracketing
Self timer	10 sec. or 3 sec. duration
Built-in speedlight	Guide number 10 at ISO 100
Flash modes	Auto, anytime flash (fill-flash), flash cancel (off), slow sync, red-eye reduction
Accessory shoe	ISO 518 (standard)
External speedlights	Sync terminal for Nikon speedlights SB 50DX, 28DX, 28, 27, 22s
Delete mode	Deletes all or selected frames
Computer interface	USB interface
Video output	Selectable, NTSC or PAL
I/O terminal	Power input; video output; digital interface (USB)
Power source	Rechargeable EN-EL1 Li-ion battery
Battery life	Approx. 100 min, when using monitor (at 20°C/68°F)
Dimensions	Approx. 101.5 × 81.5 × 67.5 mm (W × H × D)
Weight	Approx. 360 g (without batteries)



System requirements Windows®

USB System: Windows® 98/98SE,
Windows® 2000,
Windows® ME or later
(pre-installed version)
CPU: MMX® Pentium or later

System requirement Macintosh®
System: Mac® OS8.6 or later
(only built-in USB ports are sup-
ported)

Types iMac™, iBook™,
Power Macintosh®
G3 (blue and white),
PowerMac™
G4 or later; PowerBook®
G3 (with USB built-in) or later

Supplied with:

Battery pack EN-EL1
Battery charger MH52
Lens cap, neck strap
Video cable
32MB CompactFlash™ card
USB cable

Supplied software:

Nikon View Ver. 4 (CD-ROM)
Photoshop® Elements (CD-ROM)
Photostation Easy

Optional accessories:

Rechargeable lithium-ion battery EN-EL1
AC adapter EH-21
Battery pack MB-E 5000
CompactFlash memory cards
PC card adapter EC-AD1
Adapter for converter URE6/7

Nikon Coolpix 995

Order code	VAA113EC
Camera type	Digital camera
CCD sensor	1/1.8 inch CCD with 3.24 million pixels
Image size	2,048 × 1,536 pixels; UXGA (1,600 × 1,200); SXGA (1,280 × 960); XGA (1,024 × 768); VGA (640 × 480) and 3:2 (2,048 × 1,360) selectable
Lens	4 × zoom Nikkor; f = 8 to 32 mm [35 mm (135) format equivalent to 38–152 mm]; aperture 2.8 to 5.6 with macro; 9 elements in 7 groups, all elements are made of glass; Nikon Super Integrated (SIC) coating applied
Digital zoom	Up to 4 × button-controlled digital zoom
Autofocus	Contrast-detect TTL AF; 5-area multi AF or spot AF selectable continuous autofocus (with use of LCD monitor) single AF manual (50 steps from 2 cm to infinity with focus confirmation indication)
Focusing range	30 cm to infinity, 2 cm to infinity with macro mode
LCD panel	1.8 inch TFT LCD panel with 110,000 dots
Auto-OFF power-safe mode	After 30 sec.; can be set manually at 30 sec., 1, 5, or 30 min.
Storage system	CompactFlash™ type I and II (CF) card
Shooting modes	Fully automatic mode; shutter-priority auto; aperture-priority auto; manual; custom modes
Shooting menu	White balance; exposure metering; continuous; Best-Shot Selector (BSS) function; noise reduction; saturation control; image adjustment (auto, normal, more contrast, less contrast, lighten, darken, monochrome); image sharpening; image size/quality; sensitivity; focus; exposure; directory settings and card formatting (digital zoom up to 4 × magnification)
Capture modes	Single frame; continuous; multi-shot mode (16 frames in 1/16 size); VGA image sequences; ultra high-speed continuous shots with approx. 30 fps for 80 QVGA-size images (resolution 320 × 240 pixels); film sequence mode (playback of QVGA images for 40 sec. with 15 images per sec. in quick-time)
Shutter	Mechanical and charge-coupled electronic shutter; shutter speeds between 8 and 1/2300 sec. and bulb
Aperture	Iris diaphragm with 7 blades, 10 steps in 1/3 EV increments selectable
Exposure control	Programmed auto; shutter priority auto; aperture-priority auto; manual



Exposure compensation	± 2 EV in 1/3 EV steps; automatic exposure bracketing (5 steps within ± 2/3 EV)
Exposure range	EV -2 to +15.5 (W) EV -0.8 to +16.7 (T), ISO 100 equivalent
Sensitivity	Approx. ISO 100 equivalent, 100, 200, 400, 800 and auto; can be controlled in any exposure mode
White balance	Matrix auto white balance with TTL control; 5-mode manual setting with compensation functions (sun, light-bulb, fluorescent, daylight, cloudy, speed-light) with ± fine tuning; white balance bracketing
Self timer	10 sec. or 3 sec. timer duration
Built-in speedlight	Pop-up type; guide number 10 (at ISO 100); flash range: approx. 0.4–2.5 m (T) approx. 0.4–3.7 m (W) approx. 0.2–2.5 m (macro in T)
Speedlight control	Sensor flash system
Speedlight modes	Auto flash; flash cancel; any-time flash; slow sync; red-eye reduction mode
Playback menu	Quick review; full frame, film sequence, thumbnail (4 or 9 pictures); presentation mode (slide show); zoom playback (continuous up to 4 × magnification); histogram indication and highlight point display; focus confirmation indication; hide and protect attributes can be set to each image
Delete functions	Delete all frames or selected frames
Interface	USB interface
Video output	NTSC or PAL selectable
I/O terminal	Power input; video output; digital interface (USB), external speedlight
Power source	Rechargeable lithium-ion EN-EL1 battery; AC adapter/charger MH-50
Battery life	Approx. 110 min. when using the LCD monitor (at normal temperature of 20° C)
Dimensions	Approx. 140 × 82 × 40 mm (W × H × D)
Weight	Approx. 390 g (without batteries)



System requirements	Windows®
USB	System: Windows® 98/98SE Windows® 2000 Windows® ME or later (preinstalled version) CPU: MMX® Pentium or later

System requirements Macintosh®
System: Mac® OS8.6 or later
(only built-in USB ports supported)

Types iMac™
iBook™, Power Macintosh®
G3 (blue/white), PowerMac™
G4 or later; PowerBook®
G3 (with built-in USB port)
or later

Standard accessories:

Battery pack EN-EL1
Battery charger MH-50
Lens cap, neck strap
Video cable
16 MB CompactFlash™ card
USB cable

Standard software:

Nikon View Version 3 (CD-ROM)
Photoshop® 5.0 LE (CD-ROM)
Photostation 4.0 (CD-ROM)

Optional accessories:

Bag CS-E995
Rechargeable lithium-ion battery EN-EL1
AC adapter EH-21
CompactFlash cards
PC card adapter EC-AD1
Remote control MC-EU1
Teleconverter TC-E2 (2×) and TC-E3ED (3×)
Wide-angle converter WC-E24 and WC-E63
Fisheye converter FC-E8
Slide copy adapter ES-E28

Nikon Coolpix 885

Order code	VAA114EA black VAA114EC silver
Camera type	Digital compact camera
CCD Sensor	1/1.8 inch CCD with 3.31 million pixels
Resolution	2048 × 1536 pixels
Lens	3× zoom-Nikkor; 8 to 24 mm lens (35 mm camera format equivalent to 38 to 114 mm); f/2.8 to 4.9
Digital zoom	Button controlled 4× digital zoom in steps
Autofocus (AF)	Contrast-detect TTL; continuous AF (monitor on), single AF
Focus range	30 cm to infinity; 4 cm to infinity in macro mode
LCD monitor	1.5-inch, 110,000-dot TFT LCD monitor with 5-step brightness adjustment
Auto-OFF power-safe mode	After 30 sec.; can be set manually at 30 sec., 1.5, or 30 min.
Storage media	CompactFlash™ (CF) card type I
Shooting modes	Auto; menu options: portrait, party/indoor, night portrait, landscape, museum, fireworks show, beach/snow, sunset, close up, back light, night landscape
Custom settings	CSM function; white balance, metering, shooting mode, fine tuning (auto, standard, more contrast, less contrast, brighter, darker), image sharpening, image size & quality, sensitivity, exposure options, focus options, directory settings and card formatting; movie mode
Capture modes	Single, continuous, multi-shot 16 (16 frames 1/16 in size), VGA sequence, ultra high speed continuous (70 QVGA images at approx. 30 fps)
Shutter	Mechanical and electronic shutter; speeds: 8 to 1/1000 sec., bulb up to 60 sec.
Aperture	7-blade iris diaphragm, 10 aperture steps selectable
Exposure modes	Programmed auto and manual
Exposure compensation	± 2 EV in 1/3 EV steps; auto exposure bracketing
Exposure range	EV -3 to +15 (wide angle), EV -1.4 to +16.6 (telephoto), (ISO 100 equivalent)
Sensitivity	ISO 100 equivalent; 200, 400, auto; can be set in CSM mode
White balance	Auto with TTL control; 5 manual modes with fine tuning (sun, light-bulb, fluorescent, daylight, cloudy, speedlight)
Self timer	10 sec. or 3 sec. duration
Built-in speedlight	Guide number 7 at ISO 100; range: approx. 0.4 – 2.3 m (T) approx. 0.4 – 3.7 m (W)
Flash modes	Auto, flash cancel (off), anytime flash (fill-flash), slow sync, red- eye reduction



Delete mode	Deletes all or selected frames
Computer interface	USB interface
Video output	Selectable, NTSC or PAL
I/O terminal	Power input; video output; digital interface (USB/serial)
Power source	Rechargeable EN-EL1 Li-ion battery
Battery life	Approx. 90 min, when using monitor (at 20°C/68°F)
Dimensions	Approx. 95 × 69 × 52 mm (W × H × D)
Weight	Approx. 225 g (without batteries)

System requirements	Windows®
USB	System: Windows® 98/98SE, Windows® 2000, Windows® ME or later (pre-installed version) CPU: MMX® Pentium or later

System requirement	Macintosh®
Types	System: Mac® OS8.6 or later (only built-in USB ports are supported) iMac™, iBook™, Power Macintosh® G3 (blue and white), PowerMac™ G4 or later; PowerBook® G3 (with USB built-in) or later



Supplied with:

Battery pack EN-EL1
 Battery charger MH50
 Lens cap, neck strap
 Video cable
 8 MB CompactFlash™ card
 USB cable

Supplied software:

Nikon View Ver. 4 (CD-ROM)
 Photoshop® 5.0 LE (CD-ROM)
 Photostation Easy

Optional accessories:

Rechargeable lithium-ion battery EN-EL1
 AC adapter EH-21
 CompactFlash memory cards
 PC card adapter EC-AD1
 Adapter for converter URE4

Nikon Coolpix 775

Order code	VAA115EA
Camera type	Digital camera
CCD sensor	1/2.47 inch CCD with 2.01 million pixels
Image size	1,600 × 1,200 pixels
Lens	3 × zoom Nikkor; f = 5.8–17.4 mm [35 mm (135) format equivalent to 38–115 mm]; aperture 2.8 to 5.6
Digital zoom	Up to 2.5× button-controlled digital zoom
Autofocus	Contrast-detect TTL AF; continuous autofocus (with use of LCD monitor); single AF
Focusing range	30 cm to infinity; 4 cm to infinity in macro mode
LCD panel	1.5 inch TFT-LCD panel with 110,000 dots; 5 grades of brightness selectable
Auto-OFF power-safe mode	After 30 sec.; can be set manually at 30 sec, 1, 5 or 30 min.
Storage system	CompactFlash™ type I (CF) card
Shooting modes	Fully automatic mode; menu settings: film sequence, play and 7 subject status programs; party, night, portrait, landscape, beach, snow, sunset
Shooting menu	White balance; exposure metering; continuous; Best-Shot Selector (BSS); image adjustment (auto, normal, more contrast, less contrast, lighten, darken, monochrome); image sharpening; image size/quality; sensitivity; exposure; focus; directory settings and card formatting (digital zoom up to 2.5 × magnification)
Capture modes	Single frame; continuous; multi-shot mode (16 frames in 1/16 size); VGA image sequences; ultra high-speed continuous shots with approx. 30 fps for 80 QVGA-size images (320 × 240 pixels); film sequence mode (playback of QVGA images for 40 sec. with 15 images per sec. in quicktime)
Shutter	Mechanical and electronic shutter; shutter speeds of between 8 and 1/1000 sec.
Diaphragm	Iris diaphragm with 7 blades, 10 steps in 1/3 EV increments selectable



Exposure control	Programmed auto; shutter-priority auto; aperture-priority auto; manual
Exposure compensation	± 2 EV in 1/3 EV steps; automatic exposure bracketing (5 steps within ± 2/3 EV)
Exposure range	EV -2 to +15.5 (W); EV -0.8 to +16.7 (T), ISO 100 equivalent
Sensitivity	Approx. ISO 100 equivalent
White balance	Matrix auto white balance with TTL control; 5-mode manual setting with compensation functions (sun, light-bulb, fluorescent, daylight, cloudy, speed-light)
Self timer	10 sec. or 3 sec. timer duration
Built-in speedlight	Guide number 7 (at ISO 100); flash range: approx. 0.4–2.5 m (T) approx. 0.4–3.7 m (W) approx. 0.2–2.5 m (macro in T)
Speedlight control	Sensor flash system
Speedlight modes	Auto flash flash cancel anytime flash slow sync red-eye reduction mode
Playback menu	Quick review full frame film sequence thumbnail (4 or 9 pictures) presentation mode (slide show) zoom playback (continuous up to 4 × magnification) hide and protect attributes can be set to each image
Delete functions	Delete all frames or selected frames
Interface	USB interface
Video output	NTSC or PAL selectable
I/O terminal	Power input; video output; digital interface (USB/serial)
Power source	Rechargeable lithium-ion EN-EL1 battery; AC adapter/charger MH-50
Battery life	Approx. 110 min. when using the LCD monitor (at normal temperature of 20° C)
Dimensions	Approx. 87 × 66.5 × 44 mm (W × H × D)
Weight	Approx. 185 g (without batteries)



System requirements Windows®
USB System: Windows® 98/98SE
Windows® 2000
Windows® ME or later
(preinstalled version)
CPU: MMX® Pentium or later

System requirements Macintosh®
System: Mac® OS8.6 or later
(only built-in USB ports supported)

Types iMac™
iBook™, Power Macintosh®
G3 (blue/white), PowerMac™
G4 or later; PowerBook®
G3 (with built-in USB port) or
later

Standard accessories:

Battery pack EN-EL1
Battery charger MH-50
Lens cap, neck strap
Video cable
8 MB CompactFlash™ card
USB cable

Standard software:

Nikon View Version 4 (CD-ROM)
Photoshop® 5.0 LE (CD-ROM)
Photostation Easy

Optional accessories:

Rechargeable lithium-ion battery EN-EL1
AC adapter EH-21
CompactFlash cards
PC card adapter EC-AD1

Modes and No of frames (approx.) with 96 MB CF Card

Modi e N° fotogrammi appross. con CF Card 96 MB

	D1X	D1H	E5000	E995/885	E775	
Pixel	3008×1960	2000×1360	2560×1920	2048×1360	1600×1200	Pixel
RAW (uncompressed)	11	23	–	–	–	RAW (senza compressione)
Hi (uncompressed YCbCr-TIFF)	8	18	–	–	–	Hi (YCbCr-TIFF senza compressione)
Hi (uncompressed RGB-TIFF)	5	12	6	9	–	Hi (RGB-TIFF senza compressione)
Fine (approx. 1/4 compressed)	29	65	35	60	96	Fine (compressione circa 1/4)
Normal (approx. 1/8 compressed)	58	128	70	120	192	Normal (compressione circa 1/8)
Basic (approx. 1/16 compressed)	114	246	150	240	384	Basic (compressione circa 1/16)

Remote cord release MC-EU1

This cable permits remote zoom setting, interval shooting, playback, and LCD illumination on/off. Display shows set mode and number of frames available.

Order code	FAW11901
Supported digital cameras	Nikon Coolpix 880/990/995 (firmware version 1.1 or later)
Shooting intervals	2 minutes to 24 hours
Data transfer rate	19.2 kHz
Power source	1 lithium battery (CR2032)
Weight	Approx. 58.5 g (without battery)
Dimensions	Approx. 13 × 38 × 99 mm (H × W × D)
Length of cord	Approx. 80 cm



Slide copying adapter ES-E28

When attached to camera, this copy adapter allows digital copying of 35 mm films (slide films and negative films).

Order code	VAW12101
Dimensions	70 mm \varnothing × 53 mm
Diameter of filter	52 mm \varnothing
Diameter of mount	28 mm \varnothing
Weight	Approx. 120 g (without film holder)



AC adapter/battery charger EH-21

for Coolpix 5000/995/885/775

Order code	VAK112EA
Rated input	100–240 V (50/60 Hz)
Rated output	8.4 V/1.3 A
Charging	approx. 2 hours



Lithium-ion battery pack EN-EL1

for Nikon 5000/995/885/775

Order code	VAW12001
Type	Rechargeable lithium-ion battery pack
Rated output	7.4 V/650 mAh
Dimensions	Approx. 16 × 32 × 52 mm (H × W × D)
Weight	Approx. 45 g (without protective cover)



Battery charger MH-50

to EN-EL1

Order code	VAK116EA
Rated input	100–240 V (50/60 Hz)
Charging voltage	8.4 V/120 mAh
Charging	approx. 6.5 hours



Battery charger MH-52

to EN-EL1

Order code	VAK118EA
Rated input	100–240 V (50/60 Hz)
Charging voltage	8.4 V/550 mAh
Charging	approx. 2.5 hours

Battery pack MB-E 5000

for six Batteries 1.5 V LR 6

Order code	VAW13001
-------------------	----------

Step-down ring UR-E3

For Coolpix 775 as adapter for tele and wide angle converter, or for slide coping adapter.

Order number VAW12401

Step-down ring UR-E4

For Coolpix 885 as adapter for tele and wide angle converter, or for slide coping adapter.

Order number VAW12501

Step-down ring UR-E5

For Coolpix 5000 as adapter for wide angle converter WC-E68

Order number VAW12701

Step-down ring UR-E6

For Coolpix 5000 as adapter for tele converter TC-E2, wide angle converter WC-E24, or Fisheye converter FC.E8.

Order number VAW12801

Step-down ring UR-E7

For Coolpix 775 with UR-E3 as adapter for wide angle converter WC-E68.

For Coolpix 885 with UR-E3 as adapter for wide angle converter WC-E68.

Order number VAW12901

PC card adapter EC-AD1

For Compact Flash memory card

Order code VAW11301

Weight Approx. 24 g

Dimensions Approx. 54 × 85.6 × 5 mm
(H × W × D)

Multi-flash bracket unit SK-E900

Bracket with cable and ISO flash shoe.

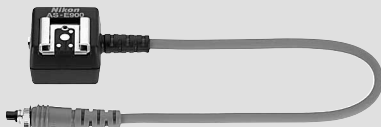
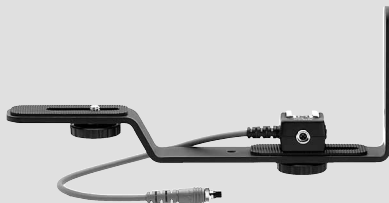
Enables use of external flash unit for the Coolpix 990 (automatic and manual operation).

Order code VAW11601

Multi-flash adapter AS-E900

Enables use of external flash unit (automatic and manual operation).

Order code VKA1309



AC adapter EH-4

for Nikon D1/D1H/D1X

Order code	VAK109EA
Rated input/frequency	100–240 V; 50–60 Hz
Rated output	9 V direct voltage
Operating temperature	0–40° C
Dimensions	72 × 120 × 28 mm (W × H × D)
Weight	380 g



Quick charger MH-16

for Nikon D1/D1H/D1X

Order code	VAK108EA
Charging	Charging is completed after approx. 90 minutes (indicated by charging light). Charging and discharging is done successively. Full charging, incl. discharge, after approx. 8 hours

Rated input/frequency	100–240 V; 50/60 Hz
Charging voltage	8.7 V/1.4 A (changes automatically to 1.2 A)

Compatible batteries Nikon Ni-MH battery pack EN-4; EN-3 and MN-15

Dimensions Approx. 70 × 46 × 150 mm
(W × H × D)

Weight Approx. 250 g (without mains cable)



Ni-MH battery pack EN-4

for Nikon D1/D1H/D1X

Order code	VAW11421
Battery type	Rechargeable nickel-metal-hybrid batteries
Electrical power	7.2 V/2000 mAh
Dimensions	Approx. 62 × 119 × 40 mm



IEEE 1394 cable SC-D1

SCD1 FireWire cable

Order code	VAG11001
Connection	6 pin–6 pin
Length	2 m



Converter TC-E2 tele

Order code	VAF00211
Focal length	2.0 × focal length of lens in use
Combined focal length	190 mm
Optical construction	2 elements in 4 groups
Aperture	F/4
Picture angle	11°
Minimum distance	110 cm
Dimensions	65 ∅ × 45 mm
Weight	168 g



Converter TC-E3ED tele

Order code	VAF00221
Focal length	3.0 × focal length of lens in use
Combined focal length	285 mm
Optical construction	4 elements in 2 groups
Aperture	F/4
Picture angle	7°
Minimum distance	1.5 m
Dimensions	75 ∅ × 78.6 mm
Weight	260 g



Converter WC-E24 wide angle

Order code	VAF00201
Focal length	0.66 × focal length of lens in use
Combined focal length	25 mm
Optical construction	2 elements in 2 groups
Aperture	f/2.5
Picture angle	86°
Minimum distance	12 cm
Dimensions	49.5 ∅ × 25 mm
Weight	65 g



Converter WC-E63 wide angle

Order code	VAF00231
Focal length	0.63 × focal length of lens in use
Combined focal length	24 mm
Aperture	f/2.5
Optical construction	4 elements in 4 groups
Picture angle	86°
Minimum distance	12 cm
Dimensions	75 ∅ × 33.8 mm
Weight	205 g



Converter WC-E68 wide angle

Order code	VAF00241
Focal length	0.68 × focal length of lens in use
Combined focal length	19 mm
Aperture	f/2.8
Picture angle	99°
Minimum distance	3 cm

Converter FC-E8 fisheye

Order code	VAF00202
Focal length	0.21 × focal length of lens in use
Combined focal length	8 mm
Optical construction	5 elements in 4 groups
Aperture	f/2.5
Picture angle	183°
Minimum distance	5 cm
Dimensions	74 ∅ × 50 mm
Weight	205 g



Coolscan LS IV ED

35 mm/IX240 Film Scanner

Order code	VRA536EA
Film type	35 mm (135)/IX240 film, slide glass for microscope
Resolution	2,900 ppi
Adapter and holder	Slide mount adapter MA-20(S); strip film adapter SA-21 (2 to 6 frames); strip film holder FH-3 (1 to 6 frames); IX240 film adapter IA-20(S) (15/25/40 frames; optional) optional
Scanning area (max.)	25.1 × 38 mm
Effective scanning area (size/pixels)	(2,870 × 4,332 pixels) SA-21: 23.3 × 36.0 mm (2,657 × 4,101) MA-20(S): 25.1 × 36.8 mm (2,870 × 4,203) FH-3: 24.0 × 36.0 mm (2,736 × 4,104) IA-20(S): 16.1 × 26.9 mm (1,836 × 3,067) FH-G1: 22.9 × 35.0 mm (2,610 × 3,989)
Light source	R, G, B and D-LED array
Colour separation	RGB line sequential
Imaging optics	Scanner Nikkor ED lens (7 elements in 4 groups including 3 ED glass elements)
Focusing	Auto focus and manual focus

SCANNING / SIGNAL PROCESSING

Scan time	Approx. 42 sec. at 2,900 ppi; 8-bit output (scan time with display on screen if custom settings are off)
Scanning density	3.6
Thumbnail scanning and batch scanning	35 mm (135) strip film: 2 to 6 frames; IX240 film cartridge: 15/ 25/40 frames (optional)
A/D conversion	12 bits
Output data	16 bits or 8 bits per colour channel, user selectable
Digital ICE3™	Digital ICE™; Digital ROC™; Digital GEM™
Colour management system	Built-in

DATA TRANSFER

Interface	USB 1.1 12 Mbits/sec. (1.5 Mbytes/s)
------------------	---

OPERATING CONDITIONS

Power requirements	100~240 VAC; 0.3~0.2 A; 50/60 Hz
Environmental temperature	10~35°C
Relative humidity	20~60% (non-condensing)
Dimensions	93 × 169 × 315 mm (W × H × D)
Weight	3 kg



Supplied with:

Slide mount adapter MA-20(S)
Automatic strip film adapter SA-21
Strip film holder FH-3
USB cable

Standard software:

Nikon scan 3.× driver software
Adobe Photoshop 5.0 LE
PhotoStation 4.5
SilverFast 5

System requirements for Windows®

CPU	For Windows® MMX Pentium 166 MHz or later (Pentium II or later recommended)
OS	Windows 98 SE (second edition); Windows ME; Windows 2000 or later
RAM	32 MB (64 MB or more are recommended)

System requirements for Macintosh®

CPU	For Macintosh® Power PC G3 or later (Power PC G4 or later recommended)
OS	System 8.6 or later
RAM	24 MB (64 MB or more recommended)
Hard disk space (HD)	20 MB free for installation with additional 20 MB available while Nikon Scan is running (200 MB or more recommended, or 400 MB or more when using Digital ROC™ or Digital GEM™). A minimum of 128 MB RAM is required when using Digital Miscellaneous ROC™, Digital GEM™ or IX240 film adapter IA-20(S) (optional). Additional memory is required for further applications, or if Nikon Scan 3 functions as a Twain source.
Remark	The scanner may not function as expected when connected to a USB hub.

Coolscan LS 4000 ED

35 mm/IX240 Film Scanner

Order code	VRA535EA
Film type	35 mm (135)/IX240 film, slide glass for microscope
Resolution	4,000 ppi
Adapter and holder	Slide mount adapter MA-20(S); strip film adapter SA-21 (2 to 6 frames); strip film holder FH-3 (1 to 6 frames); IX240 film adapter IA-20(S) (15/25/40 frames, optional); roll film adapter SA-30, optional; slide feeder SF-200 (S), optional; medical slide holder, optional
Scanning area (max.)	25.1 × 38 mm
Effective area (size/pixels)	(3,946 × 5,959 pixels) SA-21: 23.3 × 36.0 mm (3,654 × 5,646) MA-20(S): 25.1 × 36.8 mm (3,946 × 5,782) FH-3: 24.0 × 36.0 mm (3,762 × 5,646) IA-20(S): 16.1 × 26.9 mm (2,525 × 4,219) SA-30: 23.3 × 36.0 mm (3,654 × 5,646) SF-200(S): 25.1 × 36.8 mm (3,946 × 5,488) FH-G1: 22.9 × 35.0 mm (3,591 × 5,488)
Light source	R, G, B and D-LED array
Colour separation	RGB line sequential
Imaging optics	Scanner Nikkor ED lens (7 elements in 4 groups including 3 ED glass elements)
Focusing	Auto focus and manual focus



SCANNING/SIGNAL PROCESSING

Scan time	Approx. 38 sec. at 4,000 ppi; 16-bit output (scan time with display on screen if custom settings are off)
Density range	4.2
Thumbnail scanning and batch scanning	35 mm (135) strip film: 2 to 6 frames; IX240 film cartridge: 15/25/40 frames (optional); 35mm (135) strip film with SA 30: 2 to 40 frames; 35 mm (135) mount film with SF 200: 1 to 50 frames
A/D conversion	14 bit
Output data	16 bit or 8 bit per colour channel, user selectable
Digital ICE3™	Digital ICE™, Digital ROC™, Digital GEM™
Multi-sample scanning	2, 4, 8, or 16 times, user selectable
Colour management system	Built-in

DATA TRANSFER

Interface FireWire IEEE1394

OPERATING CONDITIONS

Power requirements 100~240 VAC; 0.3~0.2 A;
50/60 Hz

Environmental

temperature 10~35 °C

Relative humidity 20~60 % (non-condensing)

Dimensions 93 × 169 × 315 mm
(W × H × D)

Weight 3 kg

Supplied with:

Slide mount adapter MA-20(S)

Automatic strip film adapter SA-21

Strip film holder FH-3

FireWire board IEEE1394

FireWire cable IEEE1394 (6 pin-6pin)

Standard software:

Nikon Scan 3. × driver software

FotoStation 4.5

SilverFast 5

System requirements for Windows®

CPU For Windows®
MMX Pentium 166 MHz or
later (Pentium II or later
recommended)

OS Windows 98 SE (second
edition); Windows ME;
Windows 2000 or later

RAM 64 MB (128 MB or more are
recommended)

System requirements for Macintosh®

CPU For Macintosh®
Power PC G3 or later
(Power PC G4 or later
recommended)

OS System 8.6 or later

Video resolution 640 × 480 pixels or greater
with 16-bit RGB colour or more

Miscellaneous The scanner may not function
as expected when connected
to a USB hub.

Memory requirements for Windows® and Macintosh®

RAM 64 MB (128 MB or more are
recommended)

Hard disk space (HD) 20 MB free for installation with
additional 20 MB available
while Nikon Scan is running
(200 MB or more recommend-
ed, or 400 MB or more when
using Digital ROC™ or Digital
GEM™).

Super Coolscan LS 8000 ED

Multi-format film scanner for
35 mm and medium format

OPTICS / READING SYSTEM

Order code	VRA516EA
Film type	Medium format (120/220); 35 mm (135), 35 mm panorama; 16 mm; electron microscope; slide glass for microscope
Reading resolution	4000 ppi
Scanning area (max.)	
Effective area	63.5 × 88 mm (10,000 × 13,860 (size/pixels))
FH-835S	37.5 × 25.6 mm (5,905 × 4,032)
FH-835M	25.4 × 37.5 mm (4,000 × 5,904)
FH-869S/FH-869G	
(6 × 4.5)	56.9 × 42.5 mm (8,964 × 6,696)
(6 × 6)	56.9 × 56.9 mm (8,964 × 8,964)
(6 × 7)	56.9 × 70.0 mm (8,964 × 11,016)
(6 × 8)	56.9 × 77.5 mm (8,964 × 12,204)
(6 × 9)	56.9 × 83.7 mm (8,964 × 13,176)
(electron microscope)	56.9 × 83.7 mm (8,964 × 13,176)
FH-869GR	
(6 × 4.5)	60.3 × 45.0 mm (9,496 × 7,092)
(6 × 6)	61.6 × 61.7 mm (9,700 × 9,720)
(6 × 7)	62.8 × 74.5 mm (9,889 × 11,736)
(6 × 8)	63.4 × 80 mm (9,984 × 12,600)
(6 × 9)	63.5 × 88 mm (10,000 × 13,860)
(electron microscope)	56.9 × 83.7 mm (8,964 × 13,176)
(panoramic 24 × 58)	31.0 × 61.7 mm (4,876 × 9,720)
	(35 mm panoramic 24 × 65): 31.6 × 68.8 mm (4,972 × 10,836)
FH-869M	
(6 × 4.5, 6 × 6)	56.9 × 56.9 mm (8,964 × 8,964)
(6 × 6, 6 × 7, 6 × 9)	56.9 × 83.7 mm (8,964 × 13,176)
FH-816	15.0 × 21.5 mm (2,362 × 3,384)
FH-8G1	46.0 × 24.0 mm (7,248 × 3,780)

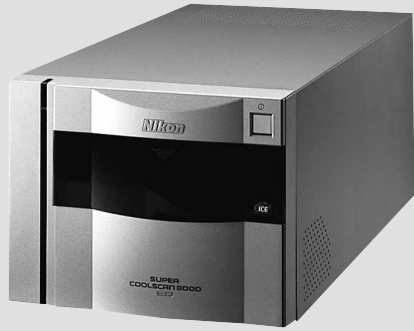
Illumination	R, G, B and D-LED array
Imaging optics	Scanner Nikkor ED lens (14 elements in 6 groups including 6 ED glass elements)
Focusing	Auto focus and manual focus

SCANNING / SIGNAL PROCESSING

Density range	4.2
Thumbnail scanning	
35 mm strip film:	2 to 12 frames (2 strips)
and batch scanning	
35 mm mount film:	1 to 5 frames
120/220 strip film:	1 to 4 frames 120/220 (6 x 4.5)
120/220 mount film:	1 to 2 frames
16 mm film:	1 to 60 frames (3 strips)
A/D conversion	14 bit
Output data	16 bits or 8 bits per colour channel, user selectable
Digital ICE3™	Digital ICE™; Digital ROC™; Digital GEM™
Multi-sample scanning	2, 4, 8 or 16 times, user selectable
Colour management system	Built-in

DATA TRANSFER

Interface	IEEE1394 (FireWire)
------------------	---------------------



OPERATING CONDITIONS

Power requirements	100~240 VAC; 0.3~0.2 A; 50/60 Hz
Environmental temperature	10~35°C
Relative humidity	20~85 % (non-condensing)
Dimensions	245 × 200 × 485 mm (W × H × D)
Weight	9 kg

Supplied with:

35 mm film strip holder FH-835S
35 mm mounted film holder FH-835M
120/220 strip film holder FH-869S
IEEE1394 (FireWire) board
IEEE1394 (FireWire) cable (6 pin-6 pin)
Nikon Scan 3.x driver software
PhotoStation 4.5
SilverFast 5.x

Standard accessories:

120/220 mounted film holder **FH-869M**/VRW55303
120/220 strip film holder with glass
FH-869G/VRW55401
120/220 film rotated holder with glass
FH-869R/VRW55501
16 mm film holder **FH-816**/VRW55601
Medical slide holder **FH-8G**/VRW55701

System requirements for Macintosh®

CPU	Power PC G3 or later (Power PC G4 or later recommended)
OS	System 8.6 or later
RAM	32 MB (64 MB or more recommended)
Interface	FireWire® Support 2.3.3 or later recommended. Built-in interface with FireWire® Support 2.0. If you are using an old model (G3 desktop beige), you can install the FireWire board that is provided.

System requirements for Windows®

CPU	MMX Pentium 166 MHz or later (Pentium II or later recommended)
OS	Windows 98 SE*3 (second edition); Windows ME; Windows 2000 or later
RAM	32 MB (64 MB or more recommended)
Interface	OHCI-type interfaces are supported. If your computer has an empty PCI slot but no FireWire interface, you can install the IEEE1394 (FireWire) board that is provided.

Tabular summary
Tavola sinottica

Nikon F3/ F3 HP/F3 Ti



Nikon F5



Nikon FM3A



Nikon F100



Nikon F90X



Nikon F80



Nikon F65



TABULAR SUMMARY • TAVOLA SINOTTICA

Nikon	F5	F100	F90X	F80	F65	F3HP	FM3A	Nikon
Autofocus								Autofocus
Single autofocus	●	●	●	●	●	–	–	AF Singolo:
Focus priority	●	●	●	●	●	–	–	Priorità alla messa a fuoco
Release priority	●	●	●	●	●	–	–	Priorità allo scatto
Continuous autofocus	●	●	●	●	●	–	–	AF Continuo:
Release priority	●	●	●	●	●	–	–	Priorità allo scatto
Focus priority	●	●	●	●	●	–	–	Priorità alla messa a fuoco
Focus tracking (moving subject)	●	●	●	●	●	–	–	Focus Tracking automatico con soggetto in movimento
Autofocus area	5	5	5	5	5	–	–	Area di messa a fuoco: centrale/ampia
Cross-type AF mode	●	–	●	–	–	–	–	Sensore a croce
Manual focus	●	●	●	●	●	●	●	Messa a fuoco manuale
Exposure modes								Controllo dell'esposizione
Programmed auto	P	P	P	P	P	–	–	Auto-programmata
Flexible program	●	●	●	–	–	–	–	Programma flessibile
Vari-program	–	–	7	–	5	–	–	Vari-program
Shutter priority auto	●	●	●	●	●	–	–	Auto a priorità dei tempi
Aperture priority auto	●	●	●	●	●	●	●	Auto a priorità dei diaframmi
Manual	●	●	●	●	●	●	●	Manuale
Exposure metering								Misurazione dell'esposizione
3D-colour matrix	●	–	–	–	–	–	–	Color Matrix 3D
3D-matrix (with D-type AF lenses)	●	●	●	●	●	–	–	Matrix 3D (con obiettivi AF-D)
Matrix metering	●	●	●	●	●	–	–	Matrix
Number of segments	1005	10	8	10	6	–	–	Numero settori
Centre-weighted integral	75/25%	75/25%	75/25%	75/25%	–	80/20%	–	Semi-spot (media ponderata)
Variable	●	–	–	–	–	–	–	Flessibile
Spot	●	●	●	●	–	–	–	Spot
Exposure compensation	± 5 LW	± 5 LW	± 5 LW	± 3 LW	± 2 LW	± 2 LW	± 2 LW	Compensazione dell'esposizione
Exposure bracketing	●	●	with/con MF 26	●	–	–	–	Auto bracketing
Auto exposure lock	●	●	●	●	–	●	–	Memoria esposimetrica
Metering range (ISO 100): Matrix and/or integral	LW 0–20	LW 0–21	LW 1–21	LW 0–21	LW 1–20	LW 1–18	LW 1–20	Campo di misurazione (100 ISO) Matrix/Semi-spot
Spot metering	LW 2–20	LW 0–21	LW 3–21	LW 3–21	LW 1–20	–	–	Campo di misurazione: Spot
Shutter speeds								Tempi di posa
Automatic	1/8000–30 s	1/8000–30 s	1/8000–30 s	1/4000–30 s	1/2000–30 s	1/2000–8 s	1/4000–8 s	In automatica
Manual	1/8000–30 s B, (T)	1/8000–30 s B	1/8000–30 s B	1/4000–30 s B	1/2000–20 s –	1/2000–8 s B, T, X	1/4000–1 s B	In manuale
Adjustable in 1/3 EV steps	●	●	●	–	–	–	–	Con incrementi di 1/3 EV
Mechanical	–	–	–	–	–	1/60 s	–	Tempi meccanici
Flash synchronisation	1/250 s (1/300 s)	1/250 s	1/250 s	1/125 s	1/90 s	1/80 s	1/250 s	Sincro-flash
Viewfinder								Mirino
High eyepoint (HP)	●	–	●	–	–	●	–	A proiezione arretrata (HP)
Frame coverage	100%	96%	92%	92%	89%	100%	93%	Copertura dell'area ripresa
Interchangeable viewfinder	4	–	–	–	–	4	–	Mirino intercambiabile
Interchangeable viewfinder focusing screens	12	2	2	–	–	21	3	Schermi di messa a fuoco intercambiabili
Viewfinder information								Informazioni nel mirino
Shutter speed/aperture	●	●	●	●	●	●	●	Tempo/diaframma
Metering system	●	●	–	●	–	–	–	Sistema di misurazione
Exposure modes	●	●	●	●	–	–	–	Modo di esposizione
Autofocus area	●	●	●	●	●	–	–	Area AF
Flash recommended	–	–	●	–	●	–	–	Raccomandazione uso flash
Frame counter	●	●	●	●	–	–	–	Contafotogrammi
Viewfinder illumination	●	–	●	–	–	●	–	Illuminazione display
Film								Film
Film speed range (ISO): Manual DX-coded film	6–6400 25–5000	6–6400 25–5000	6–6400 25–5000	6–6400 25–5000	– 25–5000	12–6400 –	12–6400 25–5000	Gamma sensibilità (ISO) Regolazione manuale Regolazione automatica (DX)
Automatic film loading system	●	●	●	●	●	–	–	Caricamento automatico
Automatic film advance	●	●	●	●	●	with/con MD 4	with/con MD 12	Avanzamento automatico

Nikon	F5	F100	F90X	F80	F65	F3HP	FM3A	Nikon
Film rewind: automatic/manual	●/●	●/●	●/–	●/●	●/●	MD 4/●	MD 12/●	Riavvolgimento: motorizzato/manuale
Maximum shooting speed: frames per second (fps)	8	4.5	3.5	2.5	2.5	with/con MD 4 5.5	with/con MD 4 3.2	Cadenza massima: fotogrammi al secondo
Flash functions								Funzioni flash
Built-in speedlight	–	–	–	–	●	–	–	Flash incorporato
Guide number (ISO 100)	–	–	–	12	12	–	–	Numero guida
Angle of coverage	–	–	–	28 mm	28 mm	–	–	Copertura lunghezza focale
TTL automatic	●	●	●	●	●	●	●	Automatismo TTL
Matrix balanced fill flash	●	●	●	●	●	–	–	Bilanciamento automatico con misurazione Matrix
3D-balanced fill flash	●	●	with/con SB 28/27	●	●	–	–	Fill-flash con bilanciamento 3D
5-segment TTL sensor	●	●	●	–	–	–	–	Sensore TTL a cinque settori
Rear-curtain synchronisation	●	●	●	●	●	–	–	Sincro sulla seconda tendina (Rear)
Automatic slow synchronisation	●	●	●	●	●	–	–	Sincro a tempi lenti (slow)
Manual ± compensation	with/con SB 28/27	with/con SB 28/27	with/con SB 28/27	–	–	–	–	Compensazione manuale ± del lampo
Flash exposure bracketing	●	–	with/con MF 26	–	–	–	–	Compensazione automatica ± del lampo
Automatic zoom setting with SB 28/28DX/27	●	●	●	●	–	–	–	Predisposizione auto zoom della parabola con SB 28/28DX/27
Red-eye reduction	–	–	with/con SB 28/27	●	●	–	–	Riduzione «occhi rossi»
FP high-speed synchronisation (1/250–1/4000 sec.)	with/con SB 28/27	–	with/con SB 28/27	–	–	–	–	Sincro FP con tempi rapidi (1/250–1/4000 sec.)
Repeating flash (strobe effect) with SB 28/28DX	●	●	●	–	–	●	–	Flash stroboscopio con SB 28/28DX
Flash sync terminal	●	●	●	–	–	●	–	Preso sincro PC
Other features								Varie
LCD panel	●	●	●	●	●	–	–	Display LCD
Depth-of-field preview button	●	●	●	●	●	●	●	Pulsante profondità di campo
Multiple exposure	●	●	with/con MF 26	●	–	●	–	Esposizione multiple
Self-timer (sec.) Two-shot self-timer	10 s –	10 s	2–30 s ●	10 s –	10 s –	10 s –	4–10 s –	Autoscatto Due scatti consecutivi
Standard cable release connector	●	–	–	●	–	●	●	Filettatura per flessibile meccanico
Remote-control terminal	●	●	●	–	●	with/con MD 4	with/con MD 12	Preso per flessibile elettrico
Terminal for Sharp® Electronic Organizer	–	–	●	–	–	–	–	Preso per Agenda Elettronica Sharp®
Terminal to personal computer	●	●	–	–	–	–	–	Collegamento a Personal Computer
Interchangeable camera back	●	●	●	–	●	●	●	Dorso intercambiabile
Power source Battery pack	8×LR6/AM3 ●	4×LR6/AM3 –	4×LR6/AM3 –	2×CR123 –	2×CR2	2×SR44/G13 (MD4)	CR1/3N	Alimentazione Alimentatore ricaricabile
Dimensions (W×H×D)	158/149/79	155/113/66	154/106/69	141.5/98.5/71	139.5/93/65.5	148/96/65	142.5/90/58	Dimensioni (L × H × P)
Weight (without batteries)	1210 g	785 g	755 g	515 g	395 g	720 g	570 g	Peso (senza batterie)

Nikon F5

Order code	FAA320NA
Type of camera	integral-motor, electronic autofocus reflex camera
Picture format	24 × 36 mm
Lens mount	Nikon F bayonet mount
Lenses	all Nikkor AF-S, AF-I and AF-D lenses and – with certain limitations – all Nikkor AF and conventional Nikkor lenses
Focusing modes	autofocus and manual focusing with electronic focusing aid
AF settings	single autofocus with focus priority: shutter can be released only when automatic focus is correctly set; continuous autofocus with release priority: focus is continuously set and automatically activated when subject moves
AF area	five selectable focus areas
AF area modes	single area AF and dynamic AF, selectable
AF module	Nikon Multi-CAM 1300, AF range: EV -1 to EV +19 (at ISO 100)
AF lock	using the shutter release button for single AF; using the AF-L/AE-L button for continuous AF
Viewfinder	exchangeable DP-30 high-eyepoint multi-meter finder provided as standard; 0.75× magnification with 50 mm lens set at infinity; approx. 100% frame coverage; metering system selector; dioptre adjustment; accessory shoe and eyepiece shutter; interchangeable with DA-30 Action Finder, DW-31 6× High-Magnification Finder or DW-30 Waist-Level Finder
Viewfinder information	LCD display: metering system, focus indicators, exposure modes, shutter, aperture, electronic analog display, frame counter/exposure compensation value and correction symbol, exposure level, ready LED, aperture direct-readout, focus area indicators
Focusing screen	Nikon EC-B; 12 different focusing screens are available as accessories
Top LCD panel	shows shutter speed, aperture, exposure modes, focus area and active area, flexible program, exposure compensation, frame counter, exposure compensation value, exposure bracketing, multiple exposure, lock for shutter speed/aperture/focus area, battery condition
Rear LCD panel	flash synchronization, film speed, symbol for DX and custom settings, flash exposure bracketing and PC link connection
LCD panel illuminator	activated by the power switch
Exposure metering	3D color matrix metering, center-weighted metering and spot metering: together with a AF-S/AF-I/AF-D/AF-P/AF-Nikkor lens, the 3D color matrix metering evaluates each scene according to subject brightness, contrast, distance information (not with AF-P/AF-lenses) and color



Exposure modes	Programmed auto Shutter-priority auto Aperture-priority auto Manual
Exposure compensation	with button in 1/3 EV steps over ± 5 EV
Auto exposure lock	by pressing AE-L/AF-L button while meter is on
Metering range	from EV 0 to EV 20 in 3D color matrix and center-weighted, EV 2 to EV 20 in spot (at ISO 100 with f/1.4 lens)
Film speed range	automatic for DX-coded film (ISO 25-5000), manual for films without DX coding (ISO 6 to 6400)
Shutter	electromagnetically controlled vertical-travel focal-plane shutter
Shutter speeds	automatic, continually adjustable speed between 1/8000 to 30 s; adjustable in 1/3 steps; electromagnetically controlled, low-speed bulb setting
Film loading and advance	automatic loading control system and film advance to 1st frame
Settings	single frame (S) continuous, with approx. 3 frames per second (CL) continuous, with approx. 8 frames per second (CH) continuous silent, with approx. 1 frame per second (CS)
Frame counter	additive type; counts back when film is being rewound
Film rewind	automatic (approx. 6 sec. per 36-exposure roll with AA-type batteries or 4 sec. with Ni-MH battery unit) or manual rewind; stops automatically when film is rewound
Self-timer	electronically controlled; 10 s duration; blinking LED indicates self-timer operation; cancellable
Depth-of-field preview button	stops lens down to the aperture set in all exposure modes
Reflex mirror	instant-return type; with lockup position
Remote terminal	10-pin remote terminal accepts remote control accessories and personal computers with ISO middle contact;
Accessory shoe	contacts for TTL, monitor and ready-light as well as Posi-Mount locking system with SB-25/26/27
Flash synchronization	slow sync and rear-curtain sync possible
Synchronization speeds	1/250 s to 1/60 s. in programmed auto or aperture-priority auto; 1/250 s to 30 s in slow sync; 1/250 s to 30 s in shutter-priority auto or manual exposure mode (shorter set times automatically switch back to 1/250 s); TTL high-speed sync at 1/300 s using custom mode; fast FP sync up to 1/4000 s (with Speedlight SB-26)



TTL Multi-Sensor	five-segment sensor for TTL auto flash control available for all Nikon flash units with ISO flash shoe in connection with AF-Nikkor lenses
Pre-flashes	Nikon Flash Units SB-25/26/27 in connection with an AF-Nikkor fire pre-flashes for evaluation by the TTL Multi-Sensor
3D Multi-Sensor fill flashes	takes distance information from AF-D/AF-I/AF-S Nikkor lenses into account when using a SB-25/26/27 Flash Unit
Flash ready light	shows when attached Nikon flash unit is ready; blinks to warn of insufficient light for correct exposure
Custom settings	Nikon F5 factory settings may be adapted for special requirements
Connection to PC	Nikon software links your camera to a PC running Windows 95® or a Macintosh® to allow setting of various F5 operations and downloading of shooting data
Camera back	may be exchanged for Nikon MF-27 Data Display Back or MF-28 Multi-Control Back
Power source	eight 1.5 volt batteries type LR6/AM3 or, as an accessory, Ni-MH Battery Unit MN-30
Battery life	approx. 90 rolls of 36-exposure film using alkaline batteries or approx. 250 rolls using lithium batteries; approx. 100 rolls using the Battery Unit (at 20 °C and AF mode)
Dimensions	158 × 149 × 79 mm (W × H × D)
Weight	1210 g (without batteries)



Supplied with:
 Multi-Meter Finder DP-30
 Body Cap BF-1A
 Carry strap

Accessories:

Action Finder DA-30
 6× High Magnification Finder DW-31
 Waist-Level Finder DW-30
 Data Display Back MF-27
 Multi-Control Back MF-28
 12 different focusing screens
 Ni-MH Battery Unit MN-30
 Ni-MH Charger MH-30
 TTL Cable SC-24 (for finder DW-31/30)
 Rubber Eyecup DK-2
 Remote Control Cord MC-20/30
 Extension Cable MC-21
 Connecting Cord MC-23 (simultaneous activation)
 Adapter Cord MC-25
 Infrared Remote Control ML-3

Nikon Photo Manager F5 software for Windows 95® or Macintosh®

MC-33/MC-34 connecting cord required

Nikon F100

Order code	FAA350NA
Camera type	Integral-motor autofocus 35 mm single-lens reflex with electronically controlled focal-plane shutter
Picture format	24 mm × 36 mm
Lens mount	Nikon F mount (with AF coupling, AF contacts)
Lenses	D-type AF Nikkor: all functions possible; A Nikkor other than D-type: all functions except 3D matrix metering possible; M-P Nikkor: all functions except 3D matrix metering and autofocus possible; lenses without CPU: in A and M with centre-weighted or spot metering possible. Electronic range finder usable up to aperture f/5.6
Focusing	Auto and manual focusing with electronic range finder
AF modes	Single servo AF (S) with focus priority; shutter release only possible if focus indicator appears in viewfinder Continuous servo AF (C): shutter release possible anytime (release priority); 0 appears in viewfinder when focus is not locked. With a moving subject, the camera continuously focuses on subject as long as the shutter release button is kept lightly pressed Manual focus (M); shutter release possible anytime; 0 appears in viewfinder when focusing
AF metering area	TTL phase detection, Nikon Multi-CAM 1300 autofocus module; detection range: EV 1 to EV 19 (ISO 100/21°, at normal temperature)
AF start button	By pressing [AF-on] AF start button AF focusing is activated; by pressing [CSM] button [AF on] can be reprogrammed (focusing without pressing shutter release button) AF metering area modes: single area AF: only one of the five metering areas is active Dynamic AF: the primary sensor area is designated (the first to detect the subject), then if the detected subject moves, dynamic AF automatically shifts to the next sensor that detects the subject, then the next again, shifting among the progression of sensors as the subject moves. Dynamic AF mode with closest-subject priority
Focus lock	By lightly pressing shutter release button in single servo AF or by pressing [AF-L/AE-L] button in continuous servo AF
Viewfinder	Fixed eye-level pentaprism, with dioptre adjustment (-3 to +1 m ⁻¹)
Dioptre adjustment	(-3 to +1 m ⁻¹)
Eyepoint	21 mm (at -1 m ⁻¹)
Viewfinder coverage	Approx. 96%; magnification approx. 0.76× with 50 mm lens set to infinity (at 1 m ⁻¹)



Focusing screen	B-type BriteView clear matte screen III, interchangeable with optional E-type screen with grid
Viewfinder information	Focus indications, metering system, shutter speed lock, AE lock, shutter speed, aperture lock, aperture, exposure mode, electronic analogue exposure display, exposure compensation, frame counter/exposure compensation value, ready-light, five sets of focus brackets (area)
LCD panel	Film speed, DX indication; shutter speed; shutter speed lock; aperture lock; aperture; exposure compensation; auto exposure/flash exposure bracketing; electronic analogue exposure display; custom settings; exposure mode; flexible program; flash mode; AF area mode; battery power; frame counter
Exposure metering system	TTL full-aperture exposure metering system; three metering systems selectable (limitations depending on lens used): 3D matrix metering [v]: 10-segment sensor meters light available; with D-type AF Nikkor, 3D matrix metering is automatic, brightness, contrast and subject distance information are used to ensure accurate exposure Centre-weighted metering 75% of the meter's sensitivity is concentrated on the 12 mm dia. circle Spot metering Exposure is metered in a 4 mm dia. circle (approx. 2 % of entire frame). With the use of CPU Nikkor all five auto metering areas can be used for spot metering.
Exposure modes	[P] programmed auto: camera automatically sets shutter and aperture [S] Shutter-priority auto: camera automatically sets aperture according to selected shutter speed. [A] Aperture-priority auto: camera automatically sets shutter speed according to aperture [M] manual setting: aperture and shutter speed can be set manually
Metering range	3D matrix metering: EV 0–21; centre-weighted metering: EV 0–21 spot metering: EV 3–21 (at normal temperature ISO 100/21°, 50 mm lens f/1.4)
Exposure meter coupling	CPU and M
Auto exposure lock	Detected exposure value locked by pressing [AF-L/AE-L] button
Auto exposure/flash exposure bracketing	Two or three shots; compensation steps: 1/3, 1/2, 2/3 or 1 EV
Exposure compensation	Exposure compensated in ±5 EV range, in 1/3 steps



Depth-of-field preview button	In all modes possible by pressing depth-of-field preview button
Film speed setting	DX or manual selectable (manual setting effective over DX detected film speed); film speed range DX: ISO 25/15° to 5000/38°; manual: ISO 6/9° to 6400/39° in 1/3 steps
Shutter	Electronically controlled, vertical-travel focal-plane shutter
Shutter speeds	In P, A: 30 to 1/8000 sec.; in S: 30 to 1/8000 sec. (in 1/3 steps); in M: 30 to 1/8000 sec. (in 1/3 steps), bulb
Sync contact	X contact only; flash sync speed up to 1/250 sec.
Flash control	Controlled by five-segment TTL sensor: 3D multi-sensor balanced fill-flash compatible with SB-25/26/27/28DX/50DX and D-type AF-Nikkor Multi-sensor balanced fill-flash with SB-25/26/27/28/28DX/50DX and other than D-type AF-Nikkor Centre weighted fill-flash with SB28DX/28/25/26/25/24/23/22/22/20 and non-CPU lenses with centre-weighted metering with TTL auto flash: ISO 25/15° to 1000/31°
Film speed range	
Flash modes	Front-curtain sync (normal sync); red-eye reduction with slow sync; slow sync; rear-curtain sync
Flash-ready light	Lights up when flash (SB-28, 27, 26, 23, etc.) is ready to fire; blinks for 3 sec. after exposure for full output warning
Accessory shoe	ISO type hot shoe contact with middle contact (sync contact, ready-light contact, TTL contact, LCD panel contact) and safety lock
Flash cord terminal	Standard terminal with screw cap
Self-timer	Electronically controlled; timer duration: 10 sec.
Depth-of-field preview button	Control of depth of focus on matte screen
Film advance	Automatic with built-in motor; S, C, Cs selectable
Film advance speed	S: one frame advance (with continuous AF, manual exposure mode, shutter speed 1/250 sec. or faster, 36-exposure film) C: continuous shooting; approx. 4.5 fps (AA-type alkaline batteries); approx. 5 fps (with multi-power high speed battery pack MB-15) Cs: Continuous low-noise, low-speed shooting; approx. 3 fps (AA-type alkaline batteries); approx. 3 fps (with multi-power high speed battery pack MB-15)
Film rewind	Automatic rewind with built-in motor (activated by pressing two film rewind buttons); rewind speed with 36-exposure film: C - approx. 9 sec., Cs - approx. 19 sec. (AA-type alkaline batteries)



Multiple exposure	Activated with film advance mode dial
Frame counter	Additive-type; count-down type with film rewind
Camera back	Removable; AF area and modes can be selected; interchangeable with data back MF-29
Remote control socket	10-pin socket for data transfer, electr. release, etc.
Power switch	With positions ON, OFF and [*] for LCD lighting
Custom settings	22 different custom settings (see instruction manual)
Connection to PC	Nikon Software allows connection to a PC Windows 95® or Macintosh®; with this several Nikon F100 functions can be set and picture files can be down-loaded.
Power source	Standard battery holder MS-12 for four alkaline or lithium batteries; as optional accessory 3 V lithium battery holder MS-13 for two CR123A or DL123A batteries; as optional accessory multi-power high speed battery pack MB-15 (for separate Ni-MH battery holder MN-15) and battery holder MS-15 for six alkaline or lithium batteries)
Tripod socket	1/4 inch (JIS)
Dimensions	Approx. 155 × 113 × 66 mm (W × H × D)
Weight	Approx. 785 g



Supplied with:

Body cap BF-1A
Neck strap

Accessories:

Data back MF-29
3 V lithium battery holder MS-13
Battery holder for multi-power high speed battery pack MB-15
Ni-MH battery pack MN-15
Quick charger MH-15
E-type focusing screen
AC-2WE Photo Secretary II for F100 (for Windows®)
Ever-ready case CF-57/58

Battery holder MB-15

Order code	FAW04501
Use	Ergonomic handling, as well as comfortable handling for shooting of vertical-format pictures due to alternative shutter release button; AF start button and setting dial for custom setting of shutter and aperture
Usable	With Nikon F100
Power source	Six alkaline batteries LR-6 or lithium batteries FR-6 or Ni-MH battery pack MN-15
Shooting frequency	5 frames/sec.
Dimensions	156,5 × 97,5 × 69 mm
Weight	Approx. 305 g



Nikon F90X

Order code	FAA280NC
Type of camera	integral-motor; electronic autofocus reflex camera
Picture format	24 × 36 mm
Lens mount	Nikon F bayonet mount
Lenses	all Nikkor AF-D lenses and – with limitation – all Nikon AF and conventional Nikkor lenses
Focusing modes	autofocus and manual focusing with electronic focusing aid
Autofocus settings	single servo autofocus with focus priority shutter can be released only when automatic focus is correctly set, continuous servo autofocus with release priority; shutter can be released at any time and focus is continuously set; for moving subjects regardless of autofocus setting, focus tracking in automatically activated
Autofocus area	wide and sport; selectable; Nikon CAM 246 cross-type autofocus sensor module
Autofocus detection range	EV-1 to EV 19 (ISO 100)
Autofocus lock	by means of shutter in single autofocus (S) mode; by means of AF-L lever in continuous setting
Viewfinder	fixed pentaprism high-eyepoint viewfinder; viewfinder field approx. 92 %
Viewfinder information	autofocus area, focus indications, exposure setting, shutter speed, aperture, electronic analog display, frame counter/ exposure compensation value/ variprogram and exposure compensation symbol (LCD, flexible program mark, flash recommended and flash-readiness LED, viewfinder display may be illuminated
Focusing screen	Nikon type B BriteView screen, interchangeable with E-type screen
External panel	shutter speed, aperture, exposure mode, exposure metering system, focus area, manual focus mark, 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 and battery check; external panel may be illuminated
Exposure metering system	eight-segment matrix metering for all operation settings as well as center-weighted (75%/25%) and spot metering; matrix metering evaluates each scene for brightness and contrast and determines the best exposure method for that subject; with Nikkor AF-D lenses, distance information is also taken into account
Exposure settings	programmed auto (multi-program and vari-program), shutter-priority auto, aperture-priority auto and manual Multi-programmed auto: shutter speed and aperture automatically adjusted, taking account of



lens focal length; combination of shutter speed and aperture may be changed (flexible program) using dial in increments of 1/3 EV for shutter speed
 Shutter-priority auto: shutter speed automatically adjusted depending on preselected aperture
 Aperture-priority auto: aperture automatically adjusted depending on preselected shutter speed
 Manual: aperture and shutter speed adjusted manually
 Vari-program: seven integrated vari-programs: portraits, portraits with red-eye reduction, hyperfocal, landscape, silhouette, sport and close-up

matrix and center-weighted metering: EV -1 to EV 21 (with ISO 100 at f/1.4 aperture); spot metering: EV 3 to EV 2 (ISO 100)

possible with AE lock lever

± 5 EV in 1/3 increments

can be previewed in aperture priority auto or manual mode automatic for DX-coded films (ISO 25–5000), manual adjustment for films without DX coding (ISO 6–6400)

electromagnetically controlled vertical-travel focal-plane shutter

automatic infinitely speed adjustment from 1/8000 to 30 sec in programmed auto and aperture priority; in 1/3 EV steps in shutter priority and manual setting; electromagnetically controlled long exposure in B setting

automatic loading control system and film advance to frame number 1 settings:

single frame

continuous low with

2 frames/sec

continuous high with

4,3 frames/sec

additive type; reverse counting film rewind

automatic when rewind button pressed; automatic rewind stop

electronic self-timer with variable duration between

2 and 30 sec; cancelable

10-pole socket for remote activation accessories and electronic organizer

standard ISO hot-shoe contact; contacts for flash-readiness light, TTL and monitor,

posi-mount system

slow sync, rear-curtain sync control and red-eye reduction functions built-in

variable flash sync control from 1/60 to 1/250 sec in programmed auto and aperture priority auto; slow sync and rear-curtain sync from 1/250 to 30 sec; returns automatically to 1/250 sec in shutter priority auto and manual setting

Metering range

Auto exposure lock Exposure compensation

Depth of field preview button Film speed range

Shutter

Shutter speed

Film loading and advance

Frame counter

Film rewind

Self timer

Terminal

Accessory shoe

Flash sync control

Flash synchronisation



when shorter speeds set;
 FP high speed sync with speed-
 light SB-28/26 allows high
 shutter speeds from 1/250 to
 1/4000 sec, in manual mode
 five-zone sensor for TTL auto-
 flash control; available with all
 Nikon flash units with standard
 ISO-type shoe and with Nikkor
 AF AI-P or AF-D lenses
 Nikon speedlight SB-27/28
 initiates multiple test flashes
 to detect the scene's special
 features
 takes distance information from
 a Nikkor AF-D into account
 when using SB-25/26 flash unit
 four 1.5V batteries type
 LR6/AM3 or NiCd accus
 at 20°; approx. 50 rolls of 36-
 exposure film (battery power
 check provided)
 may be exchanged for MF-25
 World Time data back or MF-26
 multi-control back
 154 × 106 × 69 mm
 (W × H × D)
 755 g (without batteries)

TTL multi-sensor

Monitor pre-flash

**3D-multi-sensor
fill-flashes**

Power source

Battery life

Camera back

Dimensions

Weight

Supplied with:

Body cap BF-1A
 Strap

Accessories:

- World Time Data back MF-25
- Multi-control back MF-26
- Multi-power grip MB-10
- Eyepiece DK-6
- Focusing screen type E
- Remote control cord MC-20
- Extension cable (10-pole) MC-21
- Remote cord MC-22
- Adapter cord MC-25 (to connect conventional
Remote-control accessories)
- External battery unit DB-6
- Cordless remote control ML-3
- Connecting cord MC-23 (simultaneous activation
of two cameras)
- Electronic Organizer connecting cord MC-27
- AC-2E IC Electronic Organizer card



Multi-Power Grip MB-10

Order code FAW03701
Function the ergonomic design means more comfortable holding and provides an alternative shutter release button for shooting vertical-format pictures
Use with Nikon F90X and F90 (the vertical release button works only with Nikon F90X)
Power source four 1.5 V batteries type LR6/AM-3 or with accessory Battery holder MS-11 two 3 V lithium CR123A batteries
Dimensions 154 × 100 × 60 mm (W × H × D)
Weight 215 g (without batteries)

Nikon F80

Order code	FAA360NA black FAA360AA silver
Type of camera	Integral-motor autofocus 35 mm single-lens reflex with electronically controlled focal-plane shutter and built-in speedlight
Picture format	24 × 36 mm (standard 35 mm film format)
Lens mount	Nikon F mount (with AF coupling, AF contacts)
Lens	The following lenses can be used: all AF-S, AF-I and AF-D Nikkor and – with limitations – all Nikkor AF and conventional Nikkor lenses; electronic range-finder usable with lens with maximum aperture of f/5.6 or faster
Viewfinder	Fixed eye-level pentaprism with built-in dioptre adjustment (–1.8 to +0.8 dpt)
Eyepoint	17 mm (at –1.0 dpt)
Focusing screen	Clear matte screen II with the possibility to display focus brackets and on-demand grid lines
Viewfinder frame coverage	Approx. 92 %
Finder magnification	Approx. 0.71 × to 0.75 × with 50 mm lens set to infinity
Viewfinder information	Focus indication; metering system; AF lock; shutter speed; aperture; exposure mode; electronic analogue exposure display/exposure compensation display; exposure compensation; frame counter/exposure compensation value; five sets of focus brackets (area); 12 mm dia. reference circle for centre-weighted metering
Reflex mirror	Automatic, instant-return type
Lens aperture	Instant-return type, with depth-of-field preview button
Autofocus	TTL-phase detection, Nikon Multi-CAM900 autofocus module; detection range EV –1 to EV 19 (ISO 100/21°, at normal temperature)
Lens servo	Single servo AF (S); continuous servo AF (C); manual focus (M); focus tracking automatically activated with moving objects, in single servo AF (S) as well as in continuous servo AF (C)
Focus area	One of five focus areas can be selected
AF area modes	Single area AF; dynamic AF; and dynamic AF mode with closest subject priority
Focus lock	Focus is locked by pressing AE-L/AF-L button or by lightly pressing shutter release button in single servo AF
Metering system	TTL full-aperture exposure metering system; three metering systems selectable (limitations depending on lens used) 3-D matrix metering; centre-weighted metering: approx. 75 % of the meter's sensitivity concentrated on the 12 mm dia. circle in the centre of the viewfinder Spot metering: 4 mm dia. circle (approx. 1 % of entire frame)



Metering range	3-D matrix metering: EV 0–21 Centre-weighted metering: EV 0–21; Spot metering: EV 3–21 (at normal temperature, ISO 100/21°, 50 mm f/1.4 lens)
Exposure compensation	Exposure compensated in ± 3 EV range, in 1/2 steps
Auto exposure bracketing	With AE-L/AF-L button; number of shots: two or three; compensation steps: 1/2
Film speed setting	DX or manual selectable
Film speed range	DX: ISO 25/15° to 5000/38°; manual: ISO 6/9° to 6400/39° in 1/3 steps
Shutter	Electronically controlled vertical-travel focal-plane shutter
Shutter speeds	In P, A: 30 to 1/4000 sec.; in S: 30 to 1/4000 sec. (in 1/2 steps); in M: 30 to 1/4000 sec. (in 1/2 steps); B
Sync contact	X-contact only; flash synchronization up to 1/125 sec.
Built-in speedlight	Activated by pressing speedlight lock-release button, guide number: 12 (at ISO 100/21°); flash coverage sufficient for 28 mm lens; film speed range: ISO 25/15° to ISO 800/30°
Flash control	Controlled by five-segment TTL multi-sensor automatic balanced fill-flash with TTL multi-sensor: 3-D multi-sensor balanced fill flash compatible with built-in speedlight SB-28, 27, 26, 25 and D-type AF Nikkor lens; multi-sensor balanced fill-flash with built-in speedlight or external speedlights SB-29, 28, 27, 26, 25, 24, 23, 22s, 22, 20 and manual control or spot metering
Flash sync mode	Front-curtain sync (normal sync), red-eye reduction, red-eye reduction with slow sync, slow sync, rear-curtain sync
Ready light	Lights up when built-in flash is fully charged (SB-28, SB-27, SB-26, SB-23, etc.); blinks (3 sec.), after flash for full output warning
Accessory shoe	Standard ISO-type hot-shoe contact as well as sync and control contacts; safety lock provided
Self-timer	Electronically controlled; timer duration: 10 sec.
Depth-of-field preview button	Stop-down lens aperture by pressing depth-of-field preview button
Film loading	Film automatically advances to first frame when camera back is closed (shutter and reflex mirror not activated)
Film advance	Automatic advance with built-in motor; single or continuous servo AF (S or C) selectable
Film advance speed	With continuous servo AF (C) and manual exposure mode, shutter speed 1/250 sec., or faster (imprint data between film frames not selected); 36-exposure film, approx. 2.5 fps (3V lithium batteries)



Film rewind	Automatic rewind with built-in motor; rewind speed with 36-exposure film and 3V lithium batteries: approx. 23 sec.
Multiple exposure	Activated using film advance mode dial
LCD panel information (illuminator built-in)	film speed, DX indication, shutter speed, exposure compensation value, aperture, exposure compensation, flash exposure compensation, auto exposure bracketing, bracketing bar graphs, custom, flexible program, flash sync mode, AF area mode, focus area, battery power, frame counter
Camera back	Hinged back with film confirmation window; AF area mode selector, focus area selector
Power source	Two CR123A or DL123A lithium batteries; optional battery pack MB-16 is also available (for four AA-type alkaline, alkaline-manganese, lithium, NiCd or NiMH batteries)
Power switch	Power ON and OFF position; auto switch-off 6 sec. after power turned on if no operations are performed
Battery power confirmation	Shown in LCD panel, with exposure meter on
Battery capacity	With two 3 V lithium batteries: approx. 40 films (at 20°); or 36 films (at -10°)
Custom setting	19 (F80SBD) or 18 (F80/F80D); see instruction manual
Reset	Various settings can be reset to their original default settings (with some exceptions)
Dimensions (W × H × D)	F80: approx. 141.5 × 98.5 × 71 mm; F80D: approx. 141.5 × 98.5 × 71.5 mm; F80S: approx. 141.5 × 98.5 × 73.5 mm
Weight (without batteries)	F80: approx. 515 g F80D: approx. 520 g F80S: approx. 525 g



Accessories:

Battery pack MB-16

Softcase CF-59/60

Caution

Infrared film cannot be used with this camera, because the F80 detects the film perforation with an infrared ray.

Nikon F80 Data

Technical data the same as with Nikon F80, but with additional data back with LCD data panel and buttons

Order code	FAA362NA black FAA362AA silver
Imprint function	Year/month/day, day/hour/minute, no imprint; month/day/year and day/month/year
Accuracy	Built-in clock: 24-hour type with timing accuracy within ± 90 seconds a month; leap year adjustment until 2049
Usable film	ISO 32/16° to 3200/36° DX-coded film

Accessories:

Battery pack MB-16

Softcase CF-59/60

Caution

Infrared film cannot be used with this camera, because the F80 detects the film perforation with an infrared ray.



Nikon F80SBD

Technical data the same as with Nikon F80S, but with additional data imprint between film frames

Order code	FAA364NA black
Imprint function	Selected/cancelled with shooting data imprint dial; imprinted data: shutter speed, aperture and exposure compensation value
Place of imprint	Between film frames

Accessories:

Battery pack MB-16

Softcase CF-59/60

Caution

Infrared film cannot be used with this camera, because the F80 detects the film perforation with an infrared ray.



Battery pack MB-16

for Nikon F80

Order code	FAW05301
Use	Increases the number of shots per set of batteries, for more consistent performance even at low temperatures
Power source	Four 1.5 V batteries LR6/AM3 or with optional MS-16 for two 3V lithium batteries
Dimensions	Approx. 140 × 89 × 59 mm (W × H × D)
Weight	105 g



Nikon F65

Order code	FAA370NA black FAA370AA silver
Camera type	Integral-motor autofocus 35 mm single-lens reflex with electronically controlled focal-plane shutter and built-in speedlight
Picture format	24 × 36 mm (standard 35 mm film format)
Lens mount	Nikon F mount (with AF coupling and AF contacts)
Suitable lenses	AF Nikkor, and AI-P and G-Nikkor lenses (except AF Nikkor for F3AF and IX-Nikkor)
Viewfinder	Fixed eye-level pentaprism, built-in dioptre adjustment (-1.5 to +0.8 dpt)
Eyepoint	17 mm (at -1 dpt)
Focusing screen	B-type clear matte screen V with focus brackets
Viewfinder frame coverage	Approx. 89 %
Finder magnification	Approx. 0.68× to 0.60× with 50 mm lens set to infinity (at -1.5 to +0.8 dpt)
Viewfinder information	Focus indications; focus area; shutter speed; aperture; electronic analogue exposure display/exposure compensation value display; exposure compensation; frame counter/exposure compensation value; ready-light / flash recommended / full flash output; five sets of focus brackets (area); 12 mm dia. reference circle for centre-weighted metering.
Reflex mirror	Automatic, instant-return type
Lens aperture	Instant-return type; with depth-of-field preview button
Autofocus	TTL phase detection, Nikon Multi-Cam 900 autofocus module with AF-assist illuminator (approx. 0.5 m–3 m)
Detection range	EV -1 to EV 19 (ISO 100/21° at normal temperature)
Lens servo	AF: Auto-Servo AF: camera automatically selects single servo AF or continuous servo AF operation, according to the subject status (static or moving), Single servo AF: focus is locked when the subject is in focus Continuous servo AF: automatic focus tracking with extrapolation M: manual focus
Focus area	One of five can be selected
Focus area mode	Dynamic AF mode with closest-subject priority
Dynamic AF mode	Single area mode with M (manual focus)
Metering system	Full-aperture exposure metering system; three metering systems selectable (limitations depending on lens used) 3D six-segment matrix metering with G- or D-type AF Nikkor Six-segment matrix metering with AF Nikkor other than G- or D-type (except AF Nikkor for F3AF and IX-Nikkor), AI-P Nikkor Centre-weighted metering: automatically selected with manual exposure mode



Metering range	3D matrix metering: EV 1–20; centre-weighted metering: EV 1–20 (at normal temperature, ISO 100/21° and f/1.4 lens)
Exposure modes	Fully automatic Vari-program: portraits, landscapes, close-ups, sports, night programme programmed auto (with flexible program) shutter-priority auto aperture-priority auto manual balance
Exposure compensation	Exposure compensated in ± 2 EV range, in 1/2 steps (except in M and A)
Auto exposure bracketing	Bracketing range: ± 2 EV; three shots; bracketing steps: 0.5, 1, 1.5 or 2 EV
Film speed setting	Automatically set to DX-coded film (manual not selectable)
Film speed range	DX: ISO 25/15° to 5000/38°, automatically set to ISO 100/21° with non-DX-coded film
Shutter	Electronically controlled vertical-travel focal-plane shutter
Shutter speeds	In Vari-program, P, A: automatically set between 30 to 1/2000 sec. (in 1/2 steps) in S: 30 to 1/2000 sec. (in 1/2 steps) in M: 20 to 1/2000 sec (in 1/2 steps), time
Flash sync contact	X-contact only; flash synchronisation up to 1/90 sec.
Built-in speedlight	In Vari-program: automatically activated In P, S, A, M: activated by pressing flash lock-release button
Guide number	12 (at ISO 100/21°); flash coverage: sufficient for 28 mm lens; film speed range: ISO 25/15° to ISO 800/30°
Flash control	Controlled by TTL sensor matrix balanced fill-flash: built-in speedlight or external speedlight and CPU Nikkor lens (except in manual exposure mode M) Standard TTL automatic flash: in M (and with lens without CPU)
Flash modes	Front-curtain sync (normal sync); slow sync; rear-curtain sync; red-eye reduction; red-eye reduction with slow sync; flash cancel
Flash-ready light	Flash fully charged: lights up in green; full output warning: blinks in green
Accessory shoe	Standard ISO-type hot shoe contact and middle contact with safety lock
Self-timer	Electronically controlled: timer duration 10 sec; can be switched off
Depth-of-field preview button	Electronically controlled; control of depth of focus on matte screen
Film loading	Film automatically advances to first frame when camera back is closed
Film advance	Automatic advance with built-in motor; continuous shooting possible with sports continuous mode (built-in speedlight cannot be used); film advance speed: approx. 2.5 fps (with fresh batteries)



Film rewind	Automatic rewind at the end of film roll with built-in motor; rewind speed with fresh batteries: approx. 16 sec. with 36-exposure film
Multiple exposure LCD panel information	Selectable in P, S, A and M Shutter speed, aperture, exposure compensation, exposure compensation value, auto exposure bracketing, multiple exposure, flash sync mode, focus area, battery power, frame counter, self-timer, remote control
Camera back	Hinged back with film confirmation window
Power source	Two 3 V CR2 lithium batteries
Power switch	Power ON and OFF position
Power switch off	Automatic switch-off 5 sec. after last use
Battery power confirmation	In LCD panel, with exposure meter ON
Battery life	(with two 3 V lithium batteries) at 20° C approx. 50 films of 36 exposures at -10 °C approx. 25 films without flash
Dimensions (W × H × D)	F65: approx. 139.5 × 92.5 × 65.6 mm F65D: approx. 139.5 × 92.5 × 68 mm
Weight	F65: approx. 395 g (without batteries) F65D: approx. 400 g (without batteries)

Nikon F65 Data

The same technical data as Nikon F65, however with additional data back with LCD data panel and buttons.

Order code	FAA372NB FAA372AB
Imprinted data	Year/month/day; day/hour/minute; no imprint; month/day/year and day/month/year
Timing accuracy	Built-in 24 hour clock with ±90 sec. per month; automatic leap-year adjustment up to the year 2049
Film speed range	ISO 32/16° to 3200/36° with DX coding

Accessories:

Ever-ready case CF-61

Infrared remote control ML-L3

Battery holder MB-17



Nikon F3/F3 HP/F3 Ti

Order code	F3/FAA120NA F3HP/FAA121NA Same model as F3 but with high-eyepoint finder DE-3 F3TIB black/FAA122NA F3 with high-eyepoint finder DE-4 in robust titanium model
Type of camera	Electronically controlled reflexcamera
Picture format	24 × 36 mm
Lenses	All not AF Nikkor (AI) and AF Nikkor lenses
Shutter	Horizontal-travel titanium foil focal-plane shutter
Shutter release	Electromagnetic. 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. Threaded to accept standard cable release
Backup mechanical release lever	Mechanical 1/60 sec exposure time, regardless of the exposure setting (except for T). Used when there is little or no battery power
Automatic exposure control	Aperture-priority automatic exposure control with stepless shutter speeds from 8 sec to 1/2000 sec
Manual exposure control	Quartz digital control for 16 shutter speeds from 8 sec to 1/2000 sec including X (1/80 sec); B and T also provided
Mechanical shutter control	Possible at T setting on shutter speed dial, or at 1/60 sec when using backup mechanical release lever
Viewfinder	Eyelevel finder DE-2 as standard; interchangeable with other viewfinders. 0.8 × magnification with 50 mm lens. 100% coverage
Eyepiece cover	Provided. Prevents scattered light from entering the finder eyepiece
Focusing screen	Type K as standard. 19 other types as accessories
Exposure metering	TTL metering. Silicon photodiode and metering circuits incorporated into camera body. Meter works with all interchangeable viewfinders
Metering range	EV 1 to EV 18 (e.g. f/1.4 at 1 sec to f/11 at 1/2000 sec with 50 mm f/1.4 lens and ASA 100 film)
Film speed setting	ASA/ISO 12 to 6400
Accessory shoe	Provided. Special Nikon type located at base of rewind knob. Accepts flash unit SB-17 or cord SC-12 (for TTL control of flash unit SB-11/14). Two flash adapters available: for flash units with ISO hot shoe contacts and for flash unit for Nikon F2



Flash synchronization	All speeds up to 1/80 sec with electronic flash; with SB-17 flash unit, the sync speed is automatically set to 1/80 sec at A (automatic operation) or at 1/125 sec or above. Synchronization is also possible at slower speeds. Threaded sync terminal provided for off-camera and multiple-flash photography
Viewfinder display	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 flash units SB 11/14/16A/17/21A are ready. The aperture in use is also shown in the viewfinder
Viewfinder illuminator	Provided. Illuminates both LCD and ADR
Exposure compensation	Provided. From +2 to -2 in one-third increments
Exposure memory	Possible
Multiple exposure	Possible
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 facility. Incorporates brake mechanism and air damper for reduced vibration and noise
Depth-of-field preview	Coaxial with the mirror lock lever
Film advance lever	30° stand-off angle and 140° winding angle; wound in single stroke or series of small strokes
Frame counter	Additive type; automatically reset when camera back is opened
Film rewind	By rewind crank after depressing film rewind button. Automatic film rewind possible with motor drive MD-4
Camera back	Interchangeable. Opened by pulling out the film rewind knob (after unlocking)
Batteries	Two type SR 44/G 13 1.5 V silver oxide round cells. When MD-4 is mounted, the camera takes its power from the motor batteries
Dimensions	About 96.5 × 148.5 × 65.5 mm (H × W × D)
Weight	About 700 g



Accessories:

- High-eyepoint finder DE-3
- Action finder DA-2
- Waist-level finder DW-3
- Motor MD-4
- Various focusing screens
- Flash units 16A/17
- Data Back MF-14/MF-17/MF-18

Nikon FM3A

Order code	FAA380NA black FFAA380AA silver
Camera type	35 mm single-lens reflex camera with electronically and mechanically controlled focal-plane shutter
Picture format	24 × 36 mm
Lens mount	Nikon F mount
Shutter	Vertical-travel focal-plane shutter
Shutter speed	A (aperture-priority auto): 8 sec. to 1/4000 sec. electronic stepless control (indications are 1 sec. to 1/4000 sec.)
Viewfinder	Eye-level pentaprism type
Eyepoint	14 mm (at -1.0 dpt)
Focusing screen	K3 type (split-image micro-prism type, clear matte screen III) provided as standard; B3 type and E3 type are optional accessories
Viewfinder frame coverage	Approx. 95%
Viewfinder magnification	Approx. 0.8× with 50 mm lens set to infinity
Viewfinder information	Shutter speed; exposure meter indication; shutter indication; direct aperture value; exposure compensation mark; ready light
Reflex mirror	Instant-return type
Exposure meter sync	AI type (automatic compensation at full aperture f-stop)
Metering system	Full aperture exposure metering system: approx. 60% of the meter's sensitivity is concentrated on the 12 mm dia. circle; centre-weighted
Metering range	EV 1 to EV 20 at ISO 100/21° with 50 mm f/1.4 lens
Film speed setting	Automatic setting to DX code or manual; automatic: DX – ISO 25/15° to 5000/38°; manual: ISO 12/12° to 6400/39°
Exposure compensation	Exposure compensated to ±2 EV in units of 1/3 EV steps (no plus compensation at ISO 12/12° and no minus compensation at ISO 6400/39°)
Auto exposure lock	Enabled by pressing the AE lock button
Film advance	Single-stroke type; lever provided; 30° standoff angle and 135° winding angle; automatic film advance enabled with MD-12 (optional)
Frame counter	Additive type 1 to 36; automatic reset
Film rewinding	Manual with rewind crank after pressing film reset button
Self timer	Mechanically controlled; timer duration of approx. 4 to 10 sec.; can be switched off instant-return type
Lens aperture	Activated by pressing exposure lever
Multiple exposure	X contact; synchronisation up to 1/250 sec.
Sync contact	TTL auto flash: with SB-28, SB-29, etc.
Flash control	To -1 EV activated with TTL flash compensation button on the camera
Flash compensation	Lights up: flash is fully charged (SB-28/SB-29, etc.); blinks: full out-put warning, or shutter speed settings from 1/500 to 1/1000 sec.
Flash-ready light	



Film speeds with TTL AE	ISO 12/12° to 1000/31°
Cable contact	JIS contact with screw lock
Accessory shoe	Hot-shoe contact (sync contact, ready-light contact, monitor contact, stop-signal contact for TTL flash) with safety lock
Camera back	Hinged back; pops open when the film rewind lever is pulled up; detachable; interchangeable with data back FM16
Power source	One 3 V lithium battery CR-1/3N, or two 1.55 V silver-oxide batteries SR44, or two 1.5 V (AA-type) alkaline batteries LR44
Meter-on timer	Lightly pressing the shutter release button switches meter on; meter stays on for approx. 16 sec. after finger leaves the button, then switches off automatically
Battery power check	Displayed for 16 seconds with the meter-on timer. The exposure meter does not work if the batteries are exhausted
Number of film rolls that can be shot	By lightly pressing the shutter-release button for 10 seconds, then pressing it all the way, until the timer activates. With 36-frame film rolls, a shutter speed of 1/250 sec. in aperture-priority auto mode: one 3 V lithium battery: approx. 110 films at 20° or 60 films at -10 °C two 1.55 V silver-oxide batteries: approx. 120 films at 20° or 65 films at -10 °C two 1.5 V alkaline batteries: approx. 50 films at 20° or 10 films at -10 °C
Tripod socket	1/4 inch (ISO 1222)
Body finish	In silver and black
Dimensions	142.5 × 90 × 58 mm (W × H × D)
Weight	570 g (with batteries)



Supplied with:
Body cover BF-1A

Accessories:

- Motor MD-12
- Data back MF-16
- Camera cases CF-27S/CF-28S/CF-29S
- Rubber eyecup DK-3
- Focusing screen B-3/E-3
- Cable release AR-3



Nuvis V



Lite Touch Zoom 140 ED



Nuvis S



Lite Touch Zoom 120 ED



Nuvis S 2000



One Touch Zoom 90



Nuvis 300



Lite Touch Zoom 70 W



Nuvis A20



AF 240 SV



EF 400 SV

Nikon Nuvis V

Order code	FFA142AB
Camera type	IX240 (Advanced Photo System™) type autofocus AE lens-shutter camera with Nikon zoom lens 22.5–66 mm
Usable film	IX240 system (Advanced Photo System™) film cartridge (for 16.7 × 30.2 mm frame format)
Print aspect ratio	Classic- frame C, wide frame H and panorama frame P
Lens	22.5 – 66 mm f/5.2 – f/7.7 (28–82.5 mm converted to 35 mm type); 6 elements in 6 groups
Shutter	Programmed electronic shutter; also serves as diaphragm blades
Viewfinder	Real-image zoom viewfinder; frame coverage approx. 85% for H-type printed image area; approx. 0.34× magnification at 22.5 mm, 0.85× at 66 mm
Dioptr adjustment	–1,5 to +1,5 m ⁻¹
Viewfinder information	C/H/P-type image size marks (C-type and H-type with parallax compensation marks); autofocus frame; orange LED (flash ready-light) – lights up: flash ready; blinks: flash being charged; green LED (in-focus indicator) – lights up: subject focused; blinks slowly (at 2 Hz): subject is too close; blinks quickly (at 8 Hz): subject is difficult to focus
Focusing	Wide-area passive-type autofocus system; activated by lightly pressing shutter release button; distance range from 0.45 m to infinity
Focus lock	Focus is locked as long as shutter release button is lightly pressed
Exposure control	Electronically controlled program AE; auto exposure range (ISO 200/24°): EV 6–17 at 22.5 mm, EV 6–18 at 66 mm; flash fires automatically if the available light is low
Film speed setting	ISO 50/18°, 100/21°, 200/24°, 400/27°, 800/30° or 1600/33° automatically set
Film operation	Drop-in loading system; wrong film loading prevention mechanism; frame counter: shown in the LCD panel; count-down type
Self-timer	Electronically controlled; activated by depressing shutter release button; 10 sec. timer duration, blinking/lighting up in two steps
Film advance	Film is automatically thrust to first frame after inserting cartridge; film automatically advances by one frame after each shot; auto rewind at end of film roll; mid-roll rewind function available
Built-in flash	Four flash modes available: auto flash, flash cancel, anytime flash and slow sync; flash automatically fires when available light is low or subject is backlit



Flash shooting range	Approx. 0.45–4.2 m at 22.5 mm, approx. 0.45–2.8 m at 66 mm (ISO 200/24°); shutter release button is locked during flash charging; recycling time approx. 8 sec.
Red-eye reduction mode	Red-eye Reduction lamp lights up for approx. 1 sec. before flash fires
Battery life	Approx. 10 rolls of 25 exposure film when flash is used for half of exposures
LCD panel	Frame counter, flash mode, red-eye reduction, remote control/self-timer, cartridge, low battery power, data recording, title and number of desired prints
Power source	One 3 V lithium battery CR2
Data recording function	Magnetic recording system; date/title/number of desired prints; date displaying in LCD panel with five choices: year/month/day, hour/minute, month/day/year, day/month/year or no recording; 24-hour cycle with no am/pm; leap-year adjustment until 2030; built-in clock with timing accuracy within ± 90 sec. a month; power source is same as camera body; number of desired prints (1 to 9) can be specified; title recording function; selectable from 30 titles in 12 languages which can be printed on back of pictures
Dimensions	Approx. 91.5 × 62 × 30 mm (W × H × D)
Weight	Approx. 155 g (without battery)

Accessories:

Remote control ML-L1
Case CSL 24

Remote Control ML-L1

Order code	FFW00101
Remote control	Infrared remote release
Release delay	Approx. 2 sec.
Switch-off	Automatic; 2 min. after last use
Range	Frontal approx. 5 m
Battery life	Approx. 10 years
Dimensions	Approx. 60 × 27 × 10 mm (W × H × D)
Weight	Approx. 13 g (including battery)



Nikon Nuvis S

Order code	FFA092AB
Camera type	IX240 (Advanced Photo System™) type autofocus AE lens-shutter camera with Nikon zoom lens 22.5 – 66 mm
Usable film	IX240 film cartridge (Advanced Photo System™) (for frame format 16.7 mm × 30.2 mm)
Print aspect ratio	Classic-frame C; wide frame H; panorama frame P
Lens	22.5 – 66 mm f/5.2 – f/7.7 (28 – 82.5 mm converted to 35 mm type); 6 elements in 6 groups
Shutter	Programmed electronic shutter with diaphragm function
Viewfinder	Real-image zoom viewfinder; frame coverage approx. 85% for H-type printed image area; approx. 0.34× magnification at 22.5 mm, approx. 0.85× at 66 mm; diopter adjustment: –1.5 to +1.5 m ⁻¹
Viewfinder information	C/H/P-type image size frame marks (C and H-type with parallax compensation marks); autofocus frame; orange LED (flash ready-light) – lights up: flash ready; blinks: flash being charged; green LED (in-focus indicator) – lights up: subject focused; blinks slowly (at 2 Hz): subject too close; blinks quickly (at 8 Hz): subject is difficult to focus
Focusing	Wide-area passive autofocus system; activated by lightly pressing shutter release button; distance range from 0.45 m to infinity
Focus lock	Focus is locked as long as shutter release button is lightly pressed
Exposure control	Electronically controlled program; auto exposure range (ISO 200/24°): EV 6 – 17 at 22.5 mm, EV 6 – 18 at 66 mm; flash fires automatically if the available light is low
Film speed setting	ISO 50/18°, 100/21°, 200/24°, 400/27°, 800/30° and 1600/33° automatically set
Film operation	Drop-in loading system; wrong film-loading prevention mechanism; frame counter: shown in LCD panel; count-down type
Self-timer	Electronically controlled; activated by depressing shutter release button; 10 sec. timer duration, blinking/lighting up in 2 steps
Film advance	Film is automatically advanced to the first frame after inserting cartridge; film automatically advances by one frame after each shot; auto rewind at the end of film roll; mid-roll rewind function available
Remote control	Available as optional accessory
Built-in flash	Four modes available: auto flash, flash cancel, anytime flash and slow sync; flash fires automatically if light is low or subject is back lit



Flash shooting range	Approx. 0.45 – 4.2 m at 22.5 mm; approx. 0.45 – 2.8 m at 66 mm (ISO 200/24°); shutter release button is locked during flash charging; recycling time approx. 8 sec.
Red-eye reduction mode	Red-eye reduction lamp lights up for approx. 1 sec. before flash fires
Battery life	Approx. 10 rolls of 25-exposure film when flash is used for half of exposures
LCD panel	(power is on): frame counter; flash mode; red-eye reduction; remote control/self-timer; cartridge; low battery power; data recording; title and number of desired prints
Power source	One 3 V lithium battery CR2
Data recording function	Magnetic recording system; date/title/No. of desired prints; date display in the LCD panel with five choices: year/month/day, hour/minute, month/day/year, day/month/year, or no recording; 24-hour cycle with no am/pm; leap year adjustment until 2030; built-in clock with timing accuracy within ± 90 sec. a month; power source same as camera body; number of desired prints (1 to 9) can be specified; title recording function: selectable from 30 titles in 12 languages which can be printed on the back of pictures
Dimensions	Approx. 91.5 × 62 × 30 mm (W × H × D)
Weight	Approx. 155 g (without battery)



Accessory:

Infrared remote control ML-L1

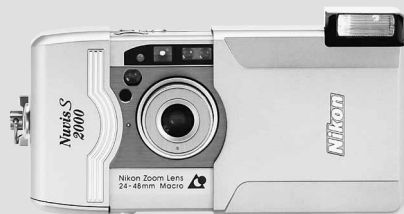
Remote Control ML-L1

Order code	FFW00101
Remote control	Infrared remote release
Release delay	Approx. 2 sec.
Switch-off	Automatic; 2 min. after last use
Range	Frontal approx. 5 m
Battery life	Approx. 10 years
Dimensions	Approx. 60 × 27 × 10 mm (W × H × D)
Weight	Approx. 13 g (including battery)



Nikon Nuvis S 2000

Order code	FAA122AB
Camera type	IX240 (Advanced Photo-System™) type autofocus viewfinder camera
Usable film	IX240 cartridge
Print aspect ratio	APS 16.7 × 30.2 mm; wide frame H, classic C and panorama P
Lens	24–48 mm f/4.5–f/8.2 (30 mm–60 mm converted to 35 mm format); 5 elements in 4 groups
Focusing range	Approx. 0.60 m to infinity
Shutter	Programmed electronic shutter; also serves as diaphragm blades; shutter speeds approx. 2.5 sec. – 1/500 sec.
Viewfinder	Real-image zoom viewfinder, frame coverage approx. 85% for H-type printed image area; magnification approx. 0.32× at 24 mm; approx. 0.56× at 48 mm
Viewfinder information	C/H/P-type image size frame marks; with parallax compensation marks and AF metering area; orange LED – lights up: flash ready; blinks (at 4 Hz): flash being charged; blinks quickly (at 8 Hz) flash is popped up incorrectly; green LED – lights up: subject focussed, blinks slowly (at 2 Hz) subject is too close; blinks quickly (at 4 Hz) film is being rewound
Focusing	Passive autofocus system and large AF metering area; activated by lightly pressing shutter release button; distance range from 0.4 m to infinity; with AF assist illuminator (also serves as red-eye reduction lamp)
Focus lock	Focus is locked as long as shutter release button is lightly pressed
Exposure control	Electronically controlled program; auto exposure range at ISO 200/24°: EV 6–17 at 24 mm, EV 6–18 at 48 mm; flash fires automatically if the available light is low
Film speed setting	ISO 50/18°, 100/21°, 200/24°, 400/27° and 800/30° automatically set
Film operation	Drop-in auto loading system; wrong film loading prevention mechanism
Frame counter	Shown in LCD panel: count-down type
Self-timer	Electronically controlled; activated by depressing shutter release button; 10 sec. timer duration, blinking/lighting up in two steps;
Film advance	Film is automatically thrust to first frame after inserting cartridge; film automatically advances by one frame after each shot; auto rewind at end of film roll; mid-roll rewind function available



Built-in flash	with following properties: auto flash, flash cancel, anytime flash and slow sync, flash automatically fires when available light is low or subject is back lit; red-eye reduction lamp, lights up for approx. 1 sec. before flash fires; shutter release button is locked during flash charging
Flash shooting range	Approx. 0.6 – 5.3 m at 24 mm; 0.6 – 2.8 m at 48 mm (ISO 200/24°); shutter release button is locked during flash charging
Flash recycling time	Approx. 6 sec.
Battery life	Approx. 10 rolls of 25 exposures when flash is used for half of exposures
LCD panel	Frame counter; flash mode; red-eye reduction; cartridge; infinity setting; low battery power; date/hour; print on back of pictures
Power source	One 3 V lithium battery CR2
Data recording function	Magnetic recording system; five choices one LCD panel: year/month/day, hour/minute, month/day/year, day/month/year or no recording; 24-hour cycle; leap-year adjustment until 2037; built-in clock with timing accuracy within ± 90 sec. a month; power supply is the same as camera body
Dimensions	Approx. 89 × 60.5 × 29 mm (W × H × D) (camera closed) Approx. 122.5 × 60.5 × 29 mm (W × H × D) (camera open)
Weight	Approx. 140 g (without battery)



Accessory:
Infrared remote control ML-L1

Remote Control ML-L1

Order code	FFW00101
Remote control	Infrared remote shutter release
Shutter release delay	Approx. 2 sec.
Switch-off	automatic; 2 min. after last use
Range	frontal approx. 5 m
Battery life	Approx. 10 years
Dimensions	Approx. 60 × 27 × 10 mm (W × H × D)
Weight	Approx. 13 g (including battery)

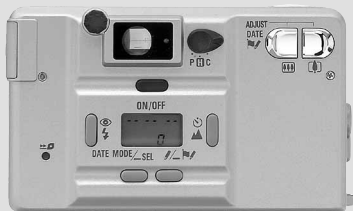


Nikon Nuvis 300

Order code	FFA132AB
Camera type	IX240 (Advanced Photo-System™) type autofocus AE lens-shutter camera with 28–80 mm Nikon zoom lens
Usable film	IX240 film cartridge
Print aspect ratio	APS 16.7 × 30.2 mm; wide frame H, classic C und panorama P
Lens	28–80 mm f/4.2–f/11; (35–100 mm converted to 35 mm type); 8 elements in 7 groups
Focusing range	0.7 to infinity
Shutter	Programmed electronic shutter; also serves as diaphragm blades; shutter speeds: approx. 1/3 sec. to 1/400 sec.
Viewfinder	Real-image zoom viewfinder; frame coverage approx. 85% for H-type printed image area; approx. 0.4 × magnification at 28 mm, approx. 0.92 × at 80 mm
Dioptre adjustment	–3 to +1 m ⁻¹
Viewfinder information	C/H/P-type image size frame marks with parallax compensation marks; autofocus frame; green LED – lights up: subject focused; blinks quickly (at 8 Hz): subject is too close; blinks slowly (at 4 Hz): available light is too low
Focusing	Infrared-active autofocus system; activated by lightly pressing shutter release button; distance range: 0.7 m to infinity (at 28 mm) or 0.75 m to infinity (at 80 mm); infinity setting, shutter release button is locked when distance to subject is less than 0.7 m (at 28 mm) or 0.75 m (at 80 mm)
Focus lock	Focus is locked as long as shutter release button is lightly pressed
Exposure control	Electronically controlled program; auto exposure range (ISO 200/24°): EV 7–16.5 at 28 mm, EV 8.75–17.5 at 80 mm; flash fires automatically if the available light is low
Film speed setting	ISO 50/18°, 100/21°, 200/24°, 400/27°, 800/30°, 1600/33° and 3200/36°, automatically set
Film operation	Drop-in loading system; double-exposure prevention (DEP)
Film advance	Film is automatically wound to the first frame after inserting cartridge; film automatically advances by one frame after each shot; auto rewind at the end of film roll; mid-roll rewind function available
Frame counter	Shown in the LCD panel; count-down type
Self-timer	Electronically controlled; activated by depressing shutter release button; 10 sec. timer duration, blinking/lighting up in two steps



Built-in flash	With following properties: auto flash, flash cancel, any-time flash and slow sync, flash automatically fires when available light is low or subject is back lit, Red-eye reduction lamp, lights up for approx. 1 sec. before flash fires; shutter release button is locked during flash charging
Flash recycling time	Approx. 6 sec.
Flash shooting range	Approx. 0.7–6 m at 28 mm; approx 0.75–2.2 m at 80 mm (ISO 200/24°)
Battery life	Approx. 10 rolls of 25 exposures when flash is used for half of exposures
LCD panel	Frame counter; flash mode; red-eye reduction; self-timer; cartridge; infinity setting; low battery power; title, date/time and film speed
Battery source	One 3 V lithium battery CR2
Data recording function	Magnetic recording system; five date/time formats: year/month/day, month/day/year, day/month/year, day/hour/minute or no recording; 24-hour cycle with automatic leap-year adjustment until 2027; built-in clock with timing accuracy within ± 90 sec. a month; power supply is the same as camera body; titles: five titles in five languages can be printed on the back of the pictures
Dimensions	Approx. 98.5 × 59 × 36.5 mm (W × H × D)
Weight	Approx. 155 g (without batteries)



Accessory:
Infrared remote control ML-L1

Remote Control ML-L1

Order code	FFW00101
Remote control	Infrared remote shutter release
Shutter release delay	Approx. 2 sec.
Switch-off	Automatic; 2 min. after last use
Range	Frontal approx. 5 m
Battery life	Approx. 10 years
Dimensions	Approx. 60 × 27 × 10 mm (W × H × D)
Weight	Approx. 13 g (including battery)



Nikon Nuvis A20

Order code	FFA050BA
Camera type	IX240 (Advanced Photo-System™) type autofocus lens-shutter camera
Usable Film	IX240 film cartridge
Print aspect ratio	APS 16.7 × 30.2 mm; wide frame H, classic C and panorama P
Information exchange system	Optical information exchange
Lens	25 mm f/5.6 (31 mm converted to 35 mm format; 3 elements in 3 groups)
Focusing range	0.9 m to infinity
Lens cover	Also serves as power switch
Focusing	Infrared-active autofocus system
Focus lock	Focus is locked as long as shutter release button is lightly pressed
Shutter speed	1/200 sec. and 1/125 sec.; 1/50 sec. with flash
Viewfinder	Reversed-Galilean Albada-type bright-frame viewfinder
Viewfinder information	C/H/P-type image size frame marks and autofocus frame
Exposure control	Electronically controlled program
Film speed setting	ISO 100/21° or 200/24° automatically set; with faster speeds automatically set to ISO 200/24°
Film operation	Drop-in loading system; double-exposure prevention (DEP); film is automatically wound to the first frame after inserting cartridge; film automatically advances by one frame after each shot; auto rewind at the end of film roll; mid-roll rewind function available
Self-timer	Electronically controlled; activated by depressing shutter release button; 10 sec. timer duration; can be switched off
Built-in flash	with following properties: auto flash, flash can be set (flash button) when available light is low or subject is back lit; flash can be set (flash button) to reduce red-eyes (lights up for approx. 0.7 sec. before flash fires); shutter release button is locked during flash charging
Flash shooting range	Guide number 12.9 (ISO 200/24°); range 0.9–4.5 m (ISO 200/24°)
Flash recycling time	Approx. 7 sec.
Battery life	Approx. 15 films of 25 exposures when flash is used for half of exposures
Power source	Two 1.5 V LR6 (AA-size alkaline) batteries
Dimensions	Approx. 113 × 62 × 35.5 mm (W × H × D)
Weight	Approx. 150 g (without batteries)



Lite Touch Zoom 140 ED

Order code	FCA500AA
Camera type	35 mm autofocus lens-shutter camera with Nikon zoom lens
Usable film	DX-coded 35 mm film
Picture format	24 × 36 mm;
Panorama	Lite Touch Zoom 140 ED QD only: 13.3 × 36 mm
Lens	38–140 mm f/5.3–10.5; 10 elements in 8 groups (with ED lenses and aspherical lenses)
Shutter	Programmed electronic shutter; also serves as diaphragm blades
Shutter speed	2 sec. to 1/500 sec.
Lens cover	Slide type lens cover with power-switch function
Viewfinder	Real-image viewfinder; frame coverage greater than approx. 80% in regular-size frame; magnification approx. 0.44× at 38 mm, approx. 1.13× at 140 mm
Dioptr adjustment	Approx. -1.5 to +1.5 m ⁻¹ ; anti-fog viewfinder
Viewfinder information	Image-size frame marks with parallax compensation marks; autofocus frame marks; green LED focus indication – lights up: subject in focus, blinks slowly (at 8 Hz): focussing is not possible; orange LED flash-ready light – lights up: flash is ready, blinks slowly (at 2 Hz): flash is charging, blinks quickly (at 8 Hz): pop-out flash is being pressed down
Focusing	Passive autofocus system activated by lightly pressing the shutter release button; distance range of approx. 0.74 m to infinity
Focus lock	Focus is locked as long as shutter release button remains lightly pressed
Exposure control	Electronically controlled program AE; auto exposure range at ISO 100/21°: EV 4–16 at 38 mm or EV 6–16 at 140 mm; with ISO 400/27°: EV 6–17 at 38 mm or EV 6–18 at 140 mm; flash automatically fires if available light is low
Film speed setting	ISO 50/18°, 100/21°, 200/22°, 400/27°, 800/30°, 1600/33° or 3200/36° automatically set
Film loading	Automatically advances to first frame after film loading; with film type confirmation window
Frame counter	Shown in LCD panel; additive-type frame counter; counting backwards during film rewind
Self-timer	Electronically controlled; activated by depressing shutter release button; process indication by blinking or lit self-timer lamp; timer duration 10 sec.; can be switched off
Film advance	Automatically advances one frame after each exposure; automatic rewind at end of film roll; mid-roll rewind possible
Built-in flash	Four modes: auto flash; flash cancel, anytime flash and slow sync; flash fires automatically when available light is low or subject back-lit



Flash shooting range	With ISO 100/21°: approx. 0.75 m to 4.1 m at 38 mm; approx. 0.8 m to 2 m at 140 mm With ISO 400/27°: approx. 0.75 m to 8.2 m at 38 mm; ap- prox. 0.8 m to 4 m at 140 mm; the shutter release button is locked during charging of the flash; flash recycling time ap- prox. 6 sec.
Red-eye reduction mode	Before flash fires red-eye reduction lamp lights up for approx. 6 sec.
LCD panel	Frame counter; flash mode; red-eye reduction; self-timer/ remote control; infinity mode; low battery power; data imprint (LT 140 QD only)
Power source	One 3 V lithium battery CR123 or DL 123A
Battery life	Approx. 12 films of 24 expo- sures if flash is used for half of exposures
Dimensions	Approx. 114 × 60 × 41 mm (W × H × D)
Weight	Approx. 210 g (without battery)



Lite Touch Zoom 140 ED Data

The same technical data as with Nikon Lite Touch 140 ED, but with additional data back with LCD data panel and buttons

Order code	FCA502AB
Data imprint	With seven-point LED; in pan- orama format also possible; automatic sensitivity setting for DX-coded films (ISO 50/16°–300/36°)
Imprinted data	Year/month/day/hour and mi- nutes (24 hour clock) in four different formats: year/month/ day; month/day/year; day/ month/year; day/hour/minute, or no imprint; leap-year adjust- ment up to the year 2039; power supply is the same as camera body
Timing accuracy	Built-in clock with ±90 sec. per month
Dimensions	Approx. 114 × 60 × 41 mm (W × H × D)
Weight	Approx. 210 g (without battery)

Accessory:

Infrared remote control ML-L1

Remote Control ML-L1

Order code	FFW00101
Remote control	Infrared remote shutter release
Shutter release delay	Approx. 2 sec.
Switch-off	Automatic; 2 min. after last use
Range	Frontal approx. 5 m
Battery life	Approx. 10 years
Dimensions	Approx. 60 × 27 × 10 mm (W × H × D)
Weight	Approx. 13 g (including battery)



Lite Touch Zoom 120 ED

Order code	FCA450AA
Camera type	35 mm autofocus lens-shutter camera with Nikon zoom lens
Usable film	DX-coded 35 mm film
Picture format	24 × 36 mm; panorama (Lite Touch Zoom 120 ED QD only): 13.3 × 36 mm
Lens	38–120 mm f/5.3–f/10.5; 7 elements in 5 groups (with ED lenses and aspherical lenses)
Shutter	Programmed electronic shutter; also serves as diaphragm blades
Shutter speed	2 sec. to 1/360 sec.
Lens cover	Slide type lens cover with power-switch function
Viewfinder	Real-image viewfinder; frame coverage greater than approx. 80% in regular-size frame; magnification approx. 0.44× at 38 mm, approx. 1.13× at 120 mm
Dioptr adjustment	Approx. -1.5 to +1.5 m ⁻¹ ; anti-fog viewfinder
Viewfinder information	Image-size frame marks with parallax compensation marks; autofocus frame marks; green LED focus indication – lights up: subject is focussed, blinks slowly (at 2 Hz): focussing is not possible; orange LED flash-ready light – lights up: flash is ready; blinks slowly (at 2 Hz): flash is charging, blinks quickly (at 8 Hz): pop-out flash is being pressed down
Focusing	Passive autofocus system activated by lightly pressing the shutter release button; distance range of approx. 0.75 m to infinity at 38 mm; of approx. 0.8 m to infinity at 120 mm
Focus lock	Focus is locked as long as shutter release button remains lightly pressed
Exposure control	Electronically controlled program AE; auto exposure range with ISO 100/21°: EV 4–17 at 38 mm or EV 6–19 at 120 mm; with ISO 400/27°: EV 6–17 at 38 mm or EV 6–19 at 120 mm; flash fires automatically if available light is low
Shutter speed setting	ISO 50/18°; 100/21°, 200/22°, 400/27°, 800/30°, 1600/33° or 3200/36° automatically set
Film loading	Automatically advances to first frame after film loading; with film type confirmation window
Frame counter	Shown in LCD panel; additive-type frame counter; counting backwards during film rewind
Self-timer	Electronically controlled; activated by depressing shutter release button; process indication by blinking or lit self-timer lamp; timer duration 10 sec.; can be switched off
Film advance	Automatically advances one frame after each exposure; automatic rewind at end of film roll; mid-roll rewind available



Built-in flash	Four modes: auto flash; flash cancel, anytime flash and slow sync; flash fires automatically when available light is low or subject back-lit
Flash shooting range	With ISO 100/21°: approx. 0.75 m to 4.1 m at 38 mm; approx. 0.8 m to 2 m at 120 mm With ISO 400/27°: approx. 0.75 m to 8.2 m at 38 mm; approx. 0.8 m to 4 m at 120 mm; the shutter release button is locked during charging of the flash; flash recycling time approx. 6 sec.
Red-eye reduction mode	Red-eye reduction lamp lights 1 sec. before flash fires
LCD panel	Frame counter; flash function; red-eye reduction; self-timer/remote control; infinity mode
Power source	One 3V lithium battery CR123 or DL 123A
Battery life	Approx. 12 films of 24 exposures if flash is used for half of exposures
Dimensions	Approx. 114 × 60 × 41 mm (W × H × D)
Weight	Approx. 210 g (without battery)



Lite Touch Zoom 120 ED Data

The same technical data as with Nikon Lite Touch 120 ED, but with additional data back with LCD data panel and buttons

Order code	FCA452AB
Data imprint	With seven-point LED; in panorama format also possible
Imprinted data	Year/month/day/hour and minutes (24-hour clock) in four different formats: year/month/day; month/day/year; day/month/year; day/hour/minute, or no imprint; leap-year adjustment up to the year 2039; power supply is the same as camera body
Timing accuracy	Built-in clock with ±90 sec. per month
Dimensions	Approx. 114 × 60 × 41 mm (W × H × D)
Weight	Approx. 210 g (without battery)

Accessory:

Infrared remote control ML-L1

Remote Control ML-L1

Order code	FFW00101
Remote control	Infrared remote shutter release
Shutter release delay	Approx. 2 sec.
Switch-off	Automatic; 2 min. after last use
Range	Frontal approx. 5 m
Battery life	Approx. 10 years
Dimensions	Approx. 60 × 27 × 10 mm (W × H × D)
Weight	Approx. 13 g (including battery)



One Touch Zoom 90

Order code	FCA470AA
Type of camera	35 mm auto-focus lens-shutter camera with Nikon zoom lens
Usable film	DX-coded 35 mm film
Picture format	24 × 36 mm
Lens	38–90 mm, f/4.8–f/10.5; 6 elements in 6 groups
Lens cover	Built-in barrier type
Shutter	Programmed electronic type; also serves as diaphragm blades
Viewfinder information	Image size frame marks (with parallax compensation marks); autofocus frame
LED indicators	Lights up: ready to shoot; blinks: flash being charged
Focusing	Activated by lightly pressing shutter release button; distance range approx. 0.7 m to infinity; the shutter locks when the subject is closer than 0.7 m; macro mode 0.3 to 0.7 m
Exposure control	Electronically-controlled program AE auto exposure range (ISO 100/21°): EV 6–16 at 38 mm, EV 6–18 at 90 mm
Film speed setting	ISO 100/21°, 200/24°, 400/27° and 800/30° automatically set; ISO 100/21° is automatically selected for non-DX-coded films
Film advance	Film automatically advances by one frame after each shot; auto rewind at the end of film roll; mid-roll rewind function available
Frame counter	Shown in the LCD panel; additive type; counts backwards during film rewind
Self-timer	Electronically controlled; activated by depressing the shutter release button; self-timer lamp blinks and lights up to show when ready; timer duration 10 sec.; cancellable
Built-in flash	Four flash modes available: auto flash, flash cancel, anytime flash, slow sync flash; flash automatically fires when available light is low; shutter release button locked while flash is charging
Flash shooting range	ISO 100/21° approx. 0.7 m to 3.5 m at 38 mm; approx 0.7 to 3.2 m at 90 mm; flash recycling time approx. 1 sec.
Red-eye reduction mode	Red-eye reduction lamp lights up for approx. 1 second before flash fires
LCD panel	Displays frame counter, flash mode, red-eye reduction, self-timer, infinity focus mode, low battery power
Battery life	Approx. 15 rolls of 24-exposure film when flash is used for half the exposures
Power source	One 3 V lithium battery (CR2)
Dimensions	Approx. 117 × 64.4 × 50.4 mm (W × H × D)
Weight	Approx. 215 g (without battery)



One Touch 90 Data

Technical data as with Nikon One Touch 90

Order code	FCA472AA
Imprint function	Imprint of year, month, day, hour, (24-hour cycle) and minute; leap year adjustment until 2049
Dimensions	117 × 64.4 × 53.8 mm

Lite Touch Zoom 70 W

Order code	FCA460AA
Camera type	35 mm autofocus lens-shutter camera with Nikon zoom lens
Usable film	DX-coded 35 mm film
Picture format	24 × 36 mm
Lens	28–70 mm, f/5.6–10.5; 5 elements in 4 groups
Shutter	Programmed electronic shutter
Shutter speed	1 sec. to 1/220 sec.
Viewfinder	Real-image viewfinder, frame coverage greater than approx. 80%; magnification approx. 0.28× at 28 mm, approx. 0.62× at 70 mm; dioptre adjustment to approx. -0.8 m^{-1}
Viewfinder information	Image-size frame marks (with parallax compensation marks); autofocus frame
Red LED	Lights up: ready to shoot; blinks: flash ready; no flash; lights up for an instant: subject in focus; blinks (at 8 Hz): flash is being pressed down
Focusing	Activated by lightly pressing the shutter release button; distance range: approx. 0.9 m to infinity at 28 mm, 0.6 to 1 m in macro mode; infinity mode
Focus lock	Focus is locked as long as shutter release button remains lightly pressed
Exposure control	Electronically controlled program AE; auto exposure range at ISO 100/21°: EV 5–15 at 28 mm, or EV 6–15 at 70 mm; flash fires automatically if available light is low
Film speed setting	DX-coded films: ISO 50/18°; 100/21°, 200/22° or 400/27° automatically set; (non-DX-coded films automatically set to ISO 100/21°)
Film loading	Automatically advances to first frame after film loading; with film type confirmation window
Frame counter	Shown in LCD panel; additive-type; counting backwards during film rewind
Self-timer	Electronically controlled; activated by depressing shutter release button; process indication by blinking or lit self-timer lamp (total of 10 sec.); timer duration 10 sec.; can be switched off
Built-in flash	Four modes: auto flash; flash cancel, anytime flash and slow sync; flash fires automatically if available light is low or subject back-lit; shutter release button is locked during charging of the flash
Flash shooting range	(with ISO 100/21°) approx. 0.9 m to 3.3 m at 28 mm; approx. 1.2 m to 3.8 m at 70 mm; flash recycling time approx. 6 sec.



Red-eye reduction mode	Before flash fires red-eye reduction lamp lights up for approx. 1 sec.
Battery life	Approx. 10 film rolls of 24 exposures if flash is used for half of exposures
LCD panel	Frame counter; flash mode; red-eye reduction; self-timer; infinity mode; battery power
Power source	One 3 V lithium battery CR2
Dimensions	117 × 63 × 42 mm (W × H × D)
Weight	Approx. 200 g (without battery)

Accessory:

Infrared remote control ML-L1

Lite Touch Zoom 70 W Data

The same technical data as with Nikon Lite Touch Zoom 70 W, but with additional data back with LCD data panel and buttons

Order code	FCA462AB
Data imprint	Five data formats can be selected by button: year/month/day/hour/minute; no imprint; month/day/year; day/month/year; leap-year adjustment up to the year 2049; adjustment of shorter and longer months; 24-hour clock
Power source	One DR2025 lithium battery
Dimensions	117 × 63 × 47 mm (W × H × D)
Weight	Approx. 210 g (without battery)



AF 240 SV

Order code	FCA430AA
Camera type	35 mm lens-shutter camera
Film format	24 × 36 mm (standard 35 mm film format)
Lens	28 mm f/5.6 (3 elements in 3 groups)
Focusing	Active autofocus system with focus lock
Focusing distance	1 m to infinity
Shutter	Mechanical lens shutter; fixed shutter speed of 1/100 sec.
Viewfinder	Reverse-Galilean Albada-type bright-frame viewfinder; magnification: 0.63×
Frame coverage	Approx. 85%
Frame counter	Additive type; automatically resets to "5" when the camera back is opened
Film speed setting	Auto setting to ISO 100/21° or 400/27° with DX-coded film (ISO 100/21° with DX-coded film with ISO 200/24° or non DX-coded film)
Film operation	Film automatically advances to first frame when camera back is closed; automatic film advance and rewind; mid-roll rewind is possible
Built-in flash	Built-in auto flash with recycling time of approx. 6 sec.; flash cancel and anytime flash by pressing dedicated buttons on the front of camera; red-eye reduction provided
Flash shooting distance range	1–2.7 m at ISO 100/21°; 1–5.4 m at ISO 400/27°; auto power off: camera power automatically turns off 20 sec. after the flash-ready LED comes on; to turn the power on again, lightly press the shutter release button or turn the power switch on
Power source	Two 1.5V LR6 (AA-size alkaline) batteries
Battery life	Approx. 30 rolls of 24-exposure film (20 rolls of 36-exposure film), when flash is used for half of all exposures
Tripod socket	Available
Dimensions	Approx. 110 × 67 × 37 mm (W × H × D)
Weight	Approx. 155 g (without batteries)



Nikon EF 400 SV

Order code	FCA440AA
Camera type	35 mm lens-shutter camera
Film format	24 × 36 mm
Lens	28 mm f/5.6 (3 elements in 3 groups)
Focusing	Fixed focus from 1.2 m to infinity
Shutter	Mechanical lens shutter: fixed shutter speed 1/100 sec.
Viewfinder	Reverse Galilean Albada-type bright-frame viewfinder; magnification: 0.63 ×
Field coverage	Approx. 85 %
Frame counter	Additive type, automatically resets to "S" when the camera back is opened
Film speed	Auto setting to ISO 100/21° or 400/27° with DX-coded film (ISO 100/21° with DX-coded and ISO 200/24° film with non-DX-coded film)
Film advance	Film automatically advances to first frame when camera back is closed; automatic film advance and rewind; mid-roll rewind is possible
Built-in flash	Built-in auto flash; flash cancel and anytime flash by pressing dedicated buttons on the front of camera; red-eye reduction provided
Auto power-off	Camera power automatically turns off 20 sec. after the flash-ready LED comes on. To turn the power on again, lightly press the shutter release button or turn the power switch on
Flash shooting distance range	1.2–2.7 m at ISO 100/21° 1.2–5.4 m at ISO 400/27°
Power source	Two 1.5V LR6 (AA-size alkaline) batteries
Battery life	Approx. 30 rolls of 24-exposure film (20 rolls of 36 exposure film), when flash is used for half of all exposures
Tripod socket	available
Dimensions	Approx. 110 × 67 × 37 mm (W × H × D)
Weight	Approx. 145 g (without batteries)



Tabular summary
Tavola sinottica

**Lens hoods/Filters/
Various**



**Paraluce/Filtri/
Vari**



Nikkor AF lenses
Obiettivi Nikkor AF



**Hard cases/Soft leather
pouches/Metal cases**

**Astucci rigidi/Sacchetti
soffici/Valigia metallica**



**Nikkor AF
special lenses**

**Obiettivi speciali
Nikkor AF**



**EL-Nikkor enlarging
lenses**

**Obiettivi per ingranditori
EL-Nikkor**



AF-S Teleconverters
**AF-S Moltiplicatori
di focale**



**Nikkor lenses for
large-format cameras**

**Obiettivi Nikkor per
grande formato**



Nikkor lenses
Obiettivi Nikkor



**Special lenses/
Teleconverter**

**Obiettivi speciali/
Moltiplicatori di focale**

TABULAR SUMMARY • TAVOLA SINOTTICA

AF Nikkor Lenses/Obiettivi AF Nikkor

Lens	Optical constr. (groups/lenses)	Picture angle	Minimal Aperture	Closest Market focusing distance	Maximum Reproduction Ratio (Macro Setting)	Filter Diameter	Lens hood	Lens case	Weight (g)	Dimensions (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII
Obiettivo	Schema ottico (gruppi/lenti)	Angolo di campo	Apertura minima	Distanza minima di messa a fuoco	Rapporto di massima riproduzione (Selezione Macro)	Diametro ghiera portafiltri	Paraluce	Astuccio	Peso (g)	Dimensioni (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII
Zoom																
AF-S 17–35 mm/2.8 D IF-ED	10/13	104°–62°	22	0,28	1/4.6	77	CL-76	HB-23	745	82,5×106	①	–	①	–	–	–
AF 18–35 mm/3.5–4.5 D IF-ED	8/11	100°–62°	22	0,33	1/6.7	77	CL-S2	HB-23	370	82,7×82,5	①	–	①	–	–	–
AF 24–50 mm/3.3–4.5 D	9/9	84°–46°	22	0,6 [0,5]	1/10.6 [1/8.5]	62	CL-32S	HB-3	355	67,5×74,1	①	–	①	–	–	–
AF 24–85 mm/2.8–4 D IF	11/15	84°–28°30'	22	0,5 [0,21]	1/5.9 [1/2]	72	CL-S2	HB-25	545	78,5×82,5	①	–	①	–	–	–
AF 24–120 mm/3.5–5.6 D IF	11/15	84°–20°30'	22	0,5	1/4.8	72	CL-49	HB-11	550	79×80	①	–	①	–	–	–
AF-S 28–70 mm/2.8 D IF-ED	11/15	74°–34°20'	22	0,7 [0,5]	1/8.6 [1/5.6]	77	CL-74	HB-19	935	88,5×121,5	④	–	④	–	–	–
AF 28–80 mm/3.3–5.6 G	8/8	74°–30°10'	22	0,4	1/3.8	58	CL-15S	HB-20	265	65×79,5	①	–	①	–	–	–
AF 28–105 mm/3.5–4.5 D IF	12/16	74°–23°20'	22	0,5 [0,22]	1/5.2 [1/2]	62	CL-49	HB-18	455	73×81,5	①	–	①	–	–	–
AF 28–200 mm/3.5–5.6 D IF	13/16	74°–12°20'	22	2 [0,85–1,5*3]	1/12.7	72	CL-49	HB-12	520	78×86,5	①	–	①	–	–	–
AF 35–70 mm/2.8 D	12/15	62°–34°20'	22	0,6 [0,28]	1/7.7 [1/4]	62	CL-33S	HB-1	665	71,5×94,5	①	–	①	–	–	–
AF 70–300 mm/4–5.6 D ED	9/13	34°20'–8°10'	32	1,5	1/3.9	62	CL-72	HB-15	505	74×116	①	–	①	–	–	–
AF 70–300 mm/4–5.6 G	9/13	34°20'–8°10'	22	1,5	1/3.9	62	CL-72	HB-26	470	74×116,5	–	–	–	–	–	–
AF-S 80–200 mm/2.8 D IF-ED*1	18/14	30°10'–12°20'	22	1,5	1/6.3	77	CL-M2	HB-17	1580	88×207	④	–	–	①	②	②
AF 80–200 mm/2.8 D ED*1	11/16	30°10'–12°20'	22	1,8 [1,5]	1/7.1 [1/5.9]	77	CL-43A	HB-7	1300	87×187	④	–	④	①	–	–
AF VR 80–400 mm/4.5–5.6 D ED*1	11/17	30°10'–6°10'	32	2,3	1/4.8	77	CL-M1	HB-24	1340	91×171	④	–	④	–	–	–
Fisheye																
AF Fisheye 16 mm/2.8 D	5/8	180°	22	0,25	1/10	Provided	CL-31S	Built-in	290	63×57	①	–	①	–	–	–
Wideangle/Grandangolari																
AF 14 mm/2.8 D ED	12/14	114°	22	0,2	1/6.5	Provided		Built-in	670	87×86,5	①	–	①	–	–	–
AF 18 mm/2.8 D	10/13	100°	22	0,25	1/9.1	77	CL-47	HB-8	380	82×58	①	–	①	–	–	–
AF 20 mm/2.8 D	9/12	94°	22	0,25	1/8.3	62	CL-30S	HB-4	270	69×42,5	①	–	①	–	–	–
AF 24 mm/2.8 D	9/9	84°	22	0,3	1/8.9	52	CL-30S	HN-1	270	64,5×46	①	–	①	–	–	–
AF 28 mm/1.4 D	8/11	74°	16	0,35	1/8.3	72	CL-44	HK-7	520	75×77,5	①	–	①	–	–	–
AF 28 mm/2.8 D	6/6	74°	22	0,25	1/5.6	52	CL-30S	HN-2	205	65×44,5	①	–	①	–	–	–
AF 35 mm/2 D	5/6	62°	22	0,25	1/4.2	52	CL-30S	HN-3	205	64,5×43,5	①	–	①	–	–	–
Normal/Normali																
AF 50 mm/1.4 D	6/7	46°	16	0,45	1/6.8	52	CL-30S	HR-2	230	64,5×42,5	③	–	③	–	–	–
AF 50 mm/1.8	5/6	46°	22	0,45	1/6.6	52	CL-30S	HR-2	160	63×39	①	–	①	–	–	–
Telephoto/Teleobiettivi																
AF 85 mm/1.4 D IF	8/9	28°30'	16	0,85	1/8.8	77	CL-44	HN-31	550	80×72,5	①	–	①	–	–	–
AF 85 mm/1.8 D	6/6	28°30'	16	0,85	1/9.2	62	CL-15S	HN-23	380	71,5×58,5	①	–	⑤	–	–	–
AF DC 105 mm/2 D	6/6	23°20'	16	0,9	1/7.7	72	CL-38	Built-in	640	79×111	–	–	–	–	–	–
AF DC 135 mm/2 D	6/7	18°	16	1,1	1/7.1	72	CL-38	Built-in	815	79×120	–	–	–	①	–	–
AF 180 mm/2.8 D IF-ED	6/8	13°40'	22	1,5	1/6.6	72	CL-38	Built-in	760	78,5×144	④	–	④	–	–	–
AF 300 mm/2.8 IF-ED*1	6/8	8°10'	22	3	1/7.0	39	CT-303	Built-in, HE-6	2700	133×255	④	①	④	①	–	–
AF-S 300 mm/2.8 D IF-EDII*1	8/11	8°10'	22	2,3	1/7.0	52	CL-300, CT-305	HK-26B	2560	124×269	–	①	–	①	②	②
AF-S 300 mm/4 D IF-ED*1	6/10	8°10'	32	1,45	1/3.7	77	CL-M2	Built-in	1440	90×222,5	–	①	–	①	②	①
AF-S 400 mm/2.8 D IF-EDII*1	9/11	6°10'	22	3,5	1/8.3	52	CT-402	HK-27B	4440	159,5×351,5	–	①	–	①	②	②
AF-S 500 mm/4 D IF-EDII*1	9/11	5°	22	4,6	1/9.0	52	CT-502	HK-28B	3230	139,5×394	–	①	–	①	②	①
AF-S 600 mm/4 D IF-EDII*1	7/10	4°10'	22	5,6	1/9.1	52	CT-605	HK-29B	4730	166×430	–	①	–	①	②	①
Special Purpose/Speciali																
AF Micro 60 mm/2.8 D	7/8	39°40'	32	0,219	1	62	CL-32S	HN-22	440	70×74,5	①	–	①	–	–	–
AF Micro 105 mm/2.8 D	8/9	23°20'	32	0,314	1	52	CL-15S	HS-7	560	75×104,5	⑤	–	–	–	–	–
AF Micro 200 mm/4 D IF-ED*1	8/13	12°20'	32	0,5	1	62	CL-45	HN-30	1190	76×193	–	–	–	–	–	–
AF Micro 70–180 mm/4.5–5.6 D ED*1/14/18		34°20'–13°40'	32	0,37	1/1.32	62	CL-71	HB-14	1010	75×167	①	–	①	–	–	–

Lens	Optical constr. (groups/lenses)	Picture angle	Minimal Aperture	Closest Market focusing distance	Maximum Reproduction Ratio (Macro Setting)	Filter Diameter	Lens hood	Lens case	Weight (g)	Dimensions (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII
Obiettivo	Schema ottico (gruppi/lenti)	Angolo di campo	Apertura minima	Distanza minima di messa a fuoco	Rapporto di massima riproduzione (Selezione Macro)	Diametro ghiera portafiltri	Paraluce	Astuccio	Peso (g)	Dimensioni (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII

AF-S Teleconverter*2

TC-14E II	5/5	–	–	–	–	–	CL-S1, CL-30S	–	200	66×24,5	–	–	–	–	–	–
TC-20E*3 II	6/7	–	–	–	–	–	CL-S1, CL-31S	–	355	66×55	–	–	–	–	–	–

*1 Tripod mounting collar is provided.

*2 Compatible with AF-S lenses except.

*3 0.85 m (2.8 ft.) at 2.8 mm or 1.5 m (4.9 ft.) at 200 mm.

① Usable.

② Usable. Autofocusing is possible.

③ When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

④ Usable, but there is occasional vignetting.

⑤ There is occasional vignetting. And when used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

– Not usable.

Note:

Lens hood names indicate type:

HN for Screw-in, HR for Rubber Screw-in, HK for Slip-on, HS for Snap-on, and HB for Bayonet.

*1 Collare per montaggio su treppiede in dotazione.

*2 Compatibile soltanto con gli obiettivi AF-S escluso.

*3 0,85 m a 28 mm a 1,5 m o 200 mm.

① Impiegabile.

② Se impiegato con diaframmi più chiusi di f/11 e tempi rapidi, c'è il rischio di occasionali esposizioni irregolari.

③ Impiegabile, ma con il rischio di occasionali vignettature.

④ Vignettature occasionali. Se impiegato con diaframmi più chiusi di f/11 e tempi rapidi, c'è il rischio di occasionali vignettature.

⑤ Utilizzabile se il filtro posteriore è rimosso.

– Non impiegabile.

Nota:

Le designazioni dei paraluce ne indicano il tipo di attacco:

HN, a vite; HR, a vite in gomma; HK, a incastro; HS, a innesto rapido; HB, a baionetta.

Manual lenses / Obiettivi manuali

Lens	Optical constr. (groups/lenses)	Picture angle	Minimal Aperture	Closest Market focusing distance	Maximum Reproduction Ratio (Macro Setting)	Filter Diameter	Lens hood	Lens case	Weight (g)	Dimensions (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII
Obiettivo	Schema ottico (gruppi/lenti)	Angolo di campo	Apertura minima	Distanza minima di messa a fuoco	Rapporto di massima riproduzione (Selezione Macro)	Diametro ghiera portafiltri	Paraluce	Astuccio	Peso (g)	Dimensioni (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII

Wideangle/Grandangolari

15 mm/3.5*1	11/14	110°	22	0,3	1/12.5	Provided	CL-17	Built-in	630	90×83,5	①	–	①	–	–	–
18 mm/3.5*1	10/11	100°	22	0,25	1/8.3	72	CL-37	HK-9	350	75×61,5	①	–	③	–	–	–
20 mm/2.8*1	9/12	94°	22	0,25	1/8.3	62	CL-30S	HK-14	260	65×42,5	①	–	①	–	–	–
24 mm/2*1	10/11	84°	22	0,3	1/8.6	52	CL-31S	HK-2	300	63×51,5	①	–	①	–	–	–
24 mm/2.8*1	9/9	84°	22	0,3	1/8.8	52	CL-30S	HN-1	275	63×46	①	–	①	–	–	–
28 mm/2*1	8/9	74°	22	0,25	1/5.4	52	CL-31S	HN-1	345	63×58,5	①	–	①	–	–	–
28 mm/2.8*1	8/8	74°	22	0,2	1/3.9	52	CL-30S	HN-2	250	63×44,5	①	–	①	–	–	–
35 mm/1.4*1	7/9	62°	16	0,3	1/5.6	52	CL-31S	HN-3	400	67,5×62	②	–	②	–	–	–
35 mm/2	6/8	62°	22	0,3	1/5.7	52	CL-31S	HN-3	280	63×51,5	①	–	①	–	–	–
45 mm/2.8 P	4/3	50°	22	0,45		52		HN-35	120	61,5×17	–	–	–	–	–	–

Normal/Normali

50 mm/1.2	6/7	46°	16	0,5	1/7.9	52	CL-31S	HS-12, HR-2	360	68,5×47,5	①	–	①	–	–	–
50 mm/1.4	6/7	46°	16	0,45	1/6.8	52	CL-30S	HS-9, HR-1	250	63×40	②	–	②	–	–	–
50 mm/1.8	5/6	46°	22	0,6	1/9.6	52	CL-30S	HR-4, HS-11	145	63×27,5	①	–	①	–	–	–

Telephoto/Teleobiettivi

85 mm/1.4*1	5/7	28°30'	16	0,85	1/7.9	72	CL-34A	HN-20	620	80,5×64,5	②	–	②	–	–	–
105 mm/1.8	5/5	23°20'	22	1	1/7.6	62	CL-15S	Built-in	580	78,5×80,5	②	–	②	–	–	–

Lens	Optical constr. (groups/lenses)	Picture angle	Minimal Aperture	Closest Market focusing distance	Maximum Reproduction Ratio (Macro Setting)	Filter Diameter	Lens hood	Lens case	Weight (g)	Dimensions (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII
Obiettivo	Schema ottico (gruppi/lenti)	Angolo di campo	Apertura minima	Distanza minima di messa a fuoco	Rapporto di massima riproduzione (Selezione Macro)	Diametro ghiera portafiltri	Paraluce	Astuccio	Peso (g)	Dimensioni (mm)	TC-201	TC-301	TC-14A	TC-14B	TC-14EII	TC-20EII
105 mm/2.5	4/5	23°20'	22	1	1/7.7	52	CL-32S	Built-in	435	64×69,5	①	–	③	–		
135 mm/2	4/6	18°	22	1,3	1/7.5	72	CL-15S	Built-in	860	80,5×93,5	②	–	②	–		
135 mm/2.8	4/5	18°	32	1,3	1/7.5	52	CL-32S	Built-in	435	64×83,5	③	–	①	①		
180 mm/2.8 ED	5/5	13°40'	32	1,8	1/7.5	72	CL-38	Built-in	800	78,5×130	②	–	②	–		
200 mm/2 IF-ED*2	8/10	12°20'	22	2,5	1/9.5		CT-200	Built-in, HE-4	2550	132×225,5	②	–	④	②		
300 mm/2.8 IF-ED*2	6/8	8°10'	22	3	1/8.3	39	CT-302	Built-in, HE-4	2400	132×255	③	①	③	①		
400 mm/2.8 IF-ED*2	6/8	6°10'	22	4	1/8.3	52	CT-400	Built-in, HE-3	5150	163×378,5	④	②	–	②		
400 mm/3.5 IF-ED*2	6/8	6°10'	22	4,5	1/9.8	122/39*4	CL-61A	Built-in	2800	134×296	–	①	③	①		
500 mm/4 P IF-ED*2	6/8	5°	22	5	1/9.1	39	CT-500	HK-17	3000	138×384	–	①	–	①		
600 mm/5.6 IF-ED*2	6/7	4°10'	32	5	1/7.3	39	CT-603	Built-in, HE-4	2800	132×387,5	–	①	–	①		
800 mm/5.6 IF-ED*2	6/8	3°	32	8	1/9.1	52	CT-800	Built-in, HE-3	5450	163×546	–	②	–	②		

Reflex/Reflexe

500 mm/8*2	6/6	5°	–	1,5	1/2.5	82/39*4	CL-39	HN-27	840	89×109	③	–	③	⑤		
1000 mm/11*2	5/5	2°30'	–	8	1/7.1		CL-29	Built-in	1900	119×233,5	③	⑤	–	⑤		

Zoom

28–85 mm/3.5–4.5	11/15	74°–28°30'	22	0,8 [0,23]	1/8.3 [1/3.4]	62	CL-33S	HK-16	510	67×89	①	–	①	–		
35–70 mm/3.3–4.5	7/8	62°–34°20'	22	0,5 [0,35]	1/6.7 [1/4.3]	52	CL-31S	HN-2	250	63×61	①	–	①	–		
35–105 mm/3.5–4.5	12/16	62°–18°	22	1,4 [0,27]	1/11.6 [1/4]	52	CL-33S	HK-11	510	64×86,5	①	–	①	–		
35–200 mm/3.5–4.5	13/17	62°–12°20'	22	1,6 [0,3]	1/7 [1/4]	62	CL-13A	HK-15	740	70×119	③	–	–	–		
70–210 mm/4.5–5.6	8/11	34°20'–11°50'	32	1,5	1/6	52	CL-38	HR-1	375	64×104	①	–	①	–		

Special Purpose/speciali

PC 28 mm/3.5	9/8	74°	22	0,30		72		HN-9	380	78×69	–	–	–	–		
PC-Micro 85 mm/2.8 D*5	5/6	28°30'	45	0,39	1/2	77	CL-75	HB-2	770	83,5×109,5	–	–	–	①		
Micro 55 mm/2.8*1	5/6	43°	32	0,25	1/2	52	CL-31S, CL-15S*6	HN-3	290	63,5×62	①	–	①	–		
Micro 105 mm/2.8*1	9/10	23°20'	32	0,41	1/2	52	CL-33S, CL-38*7	HS-14	515	66,5×83,5	①	–	①	–		
Micro 200 mm/4 IF*2	6/9	12°20'	32	0,71	1/2	52	CL-36	Built-in	800	66×172	–	①	③	①		

Teleconverter

TC-201	5/7	–	–	–	–	–	CL-30S	–	230	64,5×52	–	–	–	–		
TC-301	5/5	–	–	–	–	–	CL-33S	–	325	64,5×115	–	–	–	–		
TC-14A	5/5	–	–	–	–	–	CL-30S	–	145	65×25,5	–	–	–	–		
TC-14B	5/5	–	–	–	–	–	CL-30S	–	165	65×34	–	–	–	–		
Teleconverter	3/5	–	–	–	–	–	Nr. 61	–	200	65,4×56	–	–	–	–		

*1 Features Close-Range Correction (CRC) system.

*2 Tripod mounting collar is provided.

*3 Manual-type diaphragm with preset ring.

*4 Front filter / rear filter.

*5 The camera's exposure metering and flash control system do not work properly when shifting and/or tilting the lens, or when using an aperture other than the maximum aperture.

Shifting and/or tilting the lens to a large degree can cause some vignetting.

This lens cannot be used with the Nikon PRONEA S camera.

*6 With a PK-13 ring.

*7 With a PN-11 ring.

① Usable.

② When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

③ Usable, but there is occasional vignetting.

④ There is occasional vignetting. And when used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.

⑤ Usable if the rear screw-in filter is removed.

– Not usable.

*1 Con sistema CRC per la correzione alle brevi distanze.

*2 Collare per montaggio su trepiede in dotazione.

*3 Diaframma manuale con anello di preselezione.

*4 Filtro anteriore/Filtro posteriore.

*5 I sistemi di misurazione esposimetrica e di controllo flash della fotocamera non lavorano correttamente con l'obiettivo decentrato e/o basculato, o quando si fa uso di un'apertura di diaframma diversa da quella massima. Ampi movimenti di basculaggio e/o decentramento possono dare origine a vignettature. Questo obiettivo non è utilizzabile con la fotocamera Nikon Pronea S.

*6 Con anello PK-13.

*7 Con anello PN-11 ring.

① Impiegabile.

② Se impiegato con diaframmi più chiusi di f/11 e tempi rapidi, c'è il rischio di occasionali esposizioni irregolari.

③ Impiegabile, ma con il rischio di occasionali vignettature.

④ Vignettature occasionali. Se impiegato con diaframmi più chiusi di f/11 e tempi rapidi, c'è il rischio di occasionali vignettature.

⑤ Utilizzabile se il filtro posteriore è rimosso.

– Non impiegabile.

AF Nikkor Fisheye 16 mm f/2.8 D

Order code	JAA626DA
Focal length	16 mm
Maximum aperture ratio	1:2.8
Picture angle	180°
Optical construction	8 elements in 5 groups
Minimum distance	0.25 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	bayonet mount
Lens hood	built-in
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	63 mm \varnothing × 68 mm
Weight	290 g



Supplied with:

Front lens cover FA-84
Rear lens cover LF-1
4 Bayonet filters: L37C, O56, A2, B2
Filter bag CA-2

Accessories:

Hard case CL-31S
Soft case CL-S1

AF Nikkor 14 mm f/2.8 D ED

Order code	JAA626DA
Focal length	14 mm
Maximum aperture ratio	1:2.8
Picture angle	114°
Optical construction	14 elements in 12 groups
Minimum distance	0.2 m
Aperture range	2.8–22
Diaphragm type	automatic
Lens hood	built-in
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	87 mm \varnothing × 86.5 mm
Weight	670 g



Supplied with:

Front lens cover
Rear lens cover LF-1

Accessories:

Hard case CL-31S
Soft case CL-S1

AF Nikkor 18 mm f/2.8D

Order code	JAA126DA
Focal length	18 mm
Maximum aperture ratio	1:2.8
Picture angle	100°
Optical construction	13 elements in 10 groups (with aspherical lens)
Minimum distance	0.25 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	77 mm Ø
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	82 mm Ø × 58 mm
Weight	380 g

Supplied with:

Front lens cover FA-47
Rear lens cover LF-1

Accessories:

Lens hood HB-8
Hard case CL-47
Soft case CL-51



AF Nikkor 20 mm f/2.8 D

Order code	JAA127DA
Focal length	20 mm
Maximum aperture ratio	1:2.8
Picture angle	94°
Optical construction	12 elements in 9 groups
Minimum distance	0.25 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	62 mm Ø
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	69 mm Ø × 52 mm
Weight	270 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HB-4
Hard case CL-30S
Soft case FLC-61
[62-mm-filters](#)



AF Nikkor 24 mm f/2.8 D

Order code	JAA125DA
Focal length	24 mm
Maximum aperture ratio	1:2.8
Picture angle	84°
Optical construction	9 elements in 9 groups
Minimum distance	0.30 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	52 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	64.5 mm \varnothing × 46 mm
Weight	270 g



Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-1
Hard case CL-30S
Soft case CL-S1

[52-mm-filters](#)

AF Nikkor 28 mm f/1.4 D

Order code	JAA124DA
Focal length	28 mm
Maximum aperture ratio	1:1.4
Picture angle	74°
Optical construction	11 elements in 8 groups (with aspherical lens)
Minimum distance	0.35 m
Aperture range	1.4–16
Diaphragm type	automatic
Filter mount	72 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	75 mm \varnothing × 77.5 mm
Weight	565 g



Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Lens hood HK-7
Hard case CL-44
Soft case FLC-S2

[72-mm-filters](#)

AF Nikkor 28 mm f/2.8 D

Order code	JAA128DA
Focal length	28 mm
Maximum aperture ratio	1:2.8
Picture angle	74°
Optical construction	5 elements in 5 groups
Minimum distance	0.30 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	52 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	64.5 mm \varnothing × 39 mm
Weight	195 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-2
Hard case CL-30S
Soft case CL-S1
[52-mm-filters](#)



AF Nikkor 35 mm f/2.0 D

Order code	JAA129DA
Focal length	35 mm
Maximum aperture ratio	1:2.0
Picture angle	62°
Optical construction	6 elements in 5 groups
Minimum distance	0.25 m
Aperture range	2.0–22
Diaphragm type	automatic
Filter mount	52 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	64,5 mm \varnothing × 43,5 mm
Weight	205 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-3
Hard case CL-30S
Soft case FLC-61
[52-mm- \$\varnothing\$ filters](#)



AF Nikkor 50 mm f/1.4 D

Order code	JAA011DB
Focal length	50 mm
Maximum aperture ratio	1:1.4
Picture angle	46°
Optical construction	7 lenses in 6 groups
Minimum distance	0.45 m
Aperture range	1.4–16
Diaphragm type	automatic
Filter mount	52 mm Ø
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	64,5 mm Ø × 42,5 mm
Weight	225 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HR-2
Hard case CL-30S
Soft case CL-S1
52 mm Ø filters



AF Nikkor 50 mm f/1.8

Order code	JAA009AD
Focal length	50 mm
Maximum aperture ratio	1:1.8
Picture angle	46°
Optical construction	6 lenses in 5 groups
Minimum distance	0.45 m
Aperture range	1.8–22
Diaphragm type	automatic
Filter mount	52 mm Ø
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	65 mm Ø × 39 mm
Weight	155 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HR-2
Hard case CL-30S
Soft case CL-S1
52 mm Ø filters



AF Nikkor 85 mm f/1.4 D

Order code	JAA332DA
Focal length	85 mm
Maximum aperture ratio	1:1.4
Picture angle	28°30'
Optical construction	9 lenses in 8 groups
Minimum distance	0.85 m
Aperture range	1.4–16
Diaphragm type	automatic
Filter mount	77 mm Ø
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	80 mm Ø × 72,5 mm
Weight	560 g

Supplied with:

Lens hood HN-31
Front lens cover FA-47
Rear lens cover LF-1

Accessories:

Hard case CL-44
Soft case CL-52
77 mm Ø filters
Teleconverter TC-201
Teleconverter TC-14A



AF Nikkor 85 mm f/1.8 D

Order code	JAA328DA
Focal length	85 mm
Maximum aperture ratio	1:1.8
Picture angle	28°30'
Optical construction	6 lenses in 6 groups
Minimum distance	0.85 m
Aperture range	1.8–16
Diaphragm type	automatic
Filter mount	62 mm Ø
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	71,5 mm Ø × 58,5 mm
Weight	375 g

Supplied with:

Lens hood HN-23
Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Hard case CL-155
Soft case CL-52
62 mm Ø filters
Teleconverter TC-201
Teleconverter TC-14A



AF DC Nikkor 105 mm f/2.0 D

Order code	JAA327DA
Focal length	105 mm
Maximum aperture ratio	1:2.0
Picture angle	23°
Optical construction	6 elements in 6 groups plus built-in dust proof glass
Minimum distance	0.9 m
Aperture range	2–16
Diaphragm type	Automatic diaphragm
Filter mount	72 mm
Special characteristics	the Defocus-Image Control systems enables you to defocus the back- or the foreground in a controlled, softened manner, the degree of which you can determine yourself. Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	79 mm \varnothing × 111 mm
Weight	640 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Hard case CL-38
Soft case CL-54
72 mm \varnothing filters



AF DC-Nikkor 135 mm f/2.0 D

Order code	JAA329DA
Focal length	135 mm
Maximum aperture ratio	1:2.0
Picture angle	18°
Optical construction	7 elements in 6 groups, plus built-in dust proof glass front plate
Minimum distance	1.10 m
Aperture range	2.0–16
Diaphragm type	automatic
Filter mount	72 mm \varnothing
Lens hood	built-in
Special characteristics	the Defocus-Image-Control system enables you to defocus the back- or the foreground in a controlled, softened manner, the degree of which you can determine yourself. Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	79 mm \varnothing × 120 mm
Weight	815 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Hard case CL-38
Soft case CL-54
72 mm \varnothing filters



AF Nikkor 180 mm f/2.8 D IF-ED

Order code	JAA330DA
Focal length	180 mm
Maximum aperture ratio	1:2.8
Picture angle	13°40'
Optical construction	8 lenses in 6 groups
Minimum distance	1.50 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	72 mm \varnothing
Lens hood	built-in
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	78,5 mm \varnothing × 144 mm
Weight	750 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Hard case CL-38
Soft case CL-54
72 mm \varnothing filters



AF-S Nikkor 300 mm f/2.8 D IF-ED II

Order code	JAA335DA black JAA335DB grey
Focal length	300 mm
Maximum aperture ratio	1:2.8
Picture angle	8°10'
Optical construction	11 elements in 8 groups
Minimum distance	2.30 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	slip-in glass filter holder accepts 52 mm screw-in filters; gelatine filter holder accepts gelatine filters; dustproof glass plate built-in into front rotatable, 360°
Tripod socket	rotatable, 360°
Special characteristics	M: manual focus (for all Nikon AI cameras) A: ultra-fast auto focus with built-in coreless motor (for Nikon F5/F4 and F90 models) M/A: autofocus with switch on lens for immediate manual focusing limitation of AF range; four lens-mounted buttons for focus memory
Dimensions	124 mm \varnothing × 268.5 mm
Weight	2560 g

Supplied with:

Lens hood HK-26
Soft case CL1-L1
Front lens cap
Rear lens cover LF-1
Gelatine filterholder
Neck strap LN-1

Accessories:

Teleconverter TC 14 EII, TC 20 EII



AF-S Nikkor 300 mm f/4.0 D IF-ED

Order code	JAA334DA
Focal length	300 mm
Maximum aperture ratio	1:4.0
Picture angle	8°10'
Optical construction	10 elements in 6 groups (two lenses ED-glasses)
Minimum distance	1.45 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	slip-in glass filter holder accepts 52 mm screw-in filters; gelatine filter holder accepts gelatine filters; dustproof glass plate built-in into front rotatable, 360°
Tripod socket	rotatable, 360°
Special characteristics	M: manual focus (for all Nikon AI cameras) A: ultra-fast auto focus with built-in coreless motor (for Nikon F5/F4 and F90 models) M/A: autofocus with switch on lens for immediate manual focusing limitation of AF range; four lens-mounted buttons for focus memory
Dimensions	90 mm \varnothing × 222.5 mm
Weight	1440 g

Supplied with:

Front lens cap
Rear lens cover LF1

Accessories:

Teleconverter TC-14E II and TC-20E II



AF-I Nikkor 400 mm f/2.8 D IF-ED

Order code	JAA525DA
Focal length	400 mm
Maximum aperture ratio	1:2.8
Picture angle	6°10'
Optical construction	10 elements in 7 groups
Minimum distance	3.3 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	slip-in glass filter holder accepts 52 mm screw-in filters; gelatine filter holder accepts gelatine filters; dustproof glass plate built-in into front rotatable, 360°
Tripod socket	rotatable, 360°
Special characteristics	M: manual focus (for all Nikon AI cameras) A: ultra-fast auto focus with built-in coreless motor (for Nikon F5/F4 and F90 models) M/A: autofocus with switch on lens for immediate manual focusing limitation of AF range; four lens-mounted buttons for focus memory
Dimensions	159.5 mm \varnothing × 351.5 mm
Weight	4440 g

Supplied with:

Metal case
Front lens cap, Rear lens cover LF1
Lens hood HK-27, Gelatine filterholder

Accessories:

Teleconverter TC-14E and TC-20E



AF-S Nikkor 500 mm f/4.0 D IF-ED

Order code	JAA526DA
Focal length	500 mm
Maximum aperture ratio	1:4.0
Picture angle	5°
Optical construction	11 elements in 9 groups (3 elements ED)
Minimum distance	4.6 m
Aperture range	4–22
Diaphragm type	Automatic diaphragm
Filter mount	Special filter holder 52 mm, UV-Filter built-in
Trip socket	Rotatable 360°
Special characteristics	Focusing: M: manual setting (possible with AI cameras) A: ultra-fast autofocus with built-in Silent-Wave motor (with F5, F100, F80 and D1 series) M/A: autofocus with optional manual setting
Dimensions	139.5 mm \varnothing × 394 mm
Weight	3230 g

Supplied with:

Suitcase metal
Front lens cap
Rear lens cover LF-1
Lens hood HK-28
Filter holder

Accessories:

[Teleconverter TC-14E II](#) and [TC-20E II](#)



AF-S Nikkor 600 mm f/4.0 D IF-ED

Order code	JAA527DA
Focal length	600 mm
Maximum aperture ratio	1:4.0
Picture angle	4°10'
Optical construction	10 elements in 7 groups (3 elements ED)
Minimum distance	5.6 m
Aperture range	4–22
Diaphragm type	Automatic diaphragm
Filter mount	Special filter holder 52 mm, UV-Filter built-in
Trip socket	Rotatable 360°
Special characteristics	Focusing: M: manual setting (possible with AI cameras) A: ultra-fast autofocus with built-in Silent-Wave motor (with F5, F100, F80 and D1 series) M/A: autofocus with optional manual setting
Dimensions	166 mm \varnothing × 430 mm
Weight	4730 g

Supplied with:

Suitcase metal
Front lens cap
Rear lens cover LF-1
Lens hood HK-29

Accessories:

[Teleconverter TC-14E II](#)
[Teleconverter TC-20E II](#)



AF-S Zoom-Nikkor 17–35 mm f/2.8 D IF-ED

Order code	JAA770DA
Focal length	17–35 mm
Maximum aperture ratio	1:2.8
Picture angle	104°–62°
Optical construction	13 elements in 11 groups
Minimum distance	0.28 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	77 mm \varnothing
Special characteristics	Focusing: M : manual setting (possible with AI cameras) A : ultra-fast autofocus with built-in Silent-Wave motor (with F5, F100, F80 and D1 series) M/A : autofocus with optional manual setting
Dimensions	83 mm \varnothing × 106 mm
Weight	745 g

Supplied with:

Front lens cover FA-47
Rear lens cover LF-1
Lens hood HB-23

Accessories:

Hard case CL-76
Soft case CL-53
77 mm \varnothing filters

AF Zoom-Nikkor 18–35 mm f/3.5–4.5D IF-ED

Order code	JAA772DA
Focal length	18–35 mm
Maximum aperture ratio	1:3.5–4.5
Picture angle	100°–62°
Optical construction	11 elements in 8 groups
Minimum distance	0.33 m
Aperture range	3.5–22
Diaphragm type	automatic
Filter mount	77 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	82.5 mm \varnothing × 82.5 mm
Weight	370 g

Supplied with:

Front lens cover FA-47
Rear lens cover LF-1
Lens hood HB-23

Accessories:

Hard case CL-52
Soft case CL-52
77 mm \varnothing filters



AF Zoom-Nikkor 24–50 mm f/3.3–4.5 D

Order code	JAA756DA
Focal length	24–50 mm
Maximum aperture ratio	1:3.3–4.5
Picture angle	84°–46°
Optical construction	9 single elements
Minimum distance	0.60 m, with macro setting 0.50 m
Aperture range	3.3–22
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	67.5 mm \varnothing × 74.1 mm
Weight	365 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HB-3
Hard case CL-32S
Soft case CL-S2
62 mm \varnothing filters



AF Zoom-Nikkor 24–85 mm f/2.8–4.0 D IF

Order code	JAA774DA
Focal length	24–85 mm
Maximum aperture ratio	1:2.8–4.0
Picture angle	84°–28°30'
Optical construction	15 lenses in 11 groups
Minimum distance	0.5 m 0.21 m, with macro setting
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	72 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	78.5 mm \varnothing × 82.5 mm
Weight	545 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Lens hood HB-25
Hard case CL-32S
Soft case CL-S2
72 mm \varnothing filters



AF Zoom-Nikkor 24–120 mm f/3.5–5.6 D IF

Order code	JAA757DA
Focal length	24–120 mm
Maximum aperture ratio	1:3.5–5.6
Picture angle	84°–20°30'
Optical construction	15 elements in 11 groups
Minimum distance	0.50 m
Aperture range	3.5–22
Diaphragm type	automatic
Filter mount	72 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	79 mm \varnothing × 80 mm
Weight	555 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Lens hood HB-11
Hard case CL-49
Soft case CL-52
72 mm \varnothing filters



AF-S Zoom-Nikkor 28–70 mm f/2.8 D IF-ED

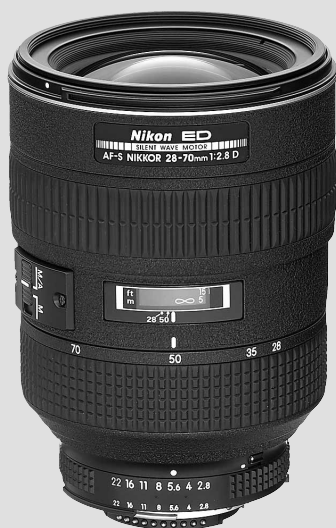
Order code	JAA767DA
Focal length	28–70 mm
Maximum aperture ratio	1:2.8
Picture angle	74°–34°20'
Optical construction	15 elements in 11 groups (with aspherical lens)
Minimum distance	0.70 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	77 mm \varnothing
Special characteristics	Focusing: M: manual setting (possible with AI cameras) A: ultra-fast autofocus with built-in Silent-Wave motor (with F5, F100, F80 and D1 series) M/A: autofocus with optional manual setting
Dimensions	88.5 mm \varnothing × 121.5 mm
Weight	935 g

Supplied with:

Front lens cover FA-47
Rear lens cover LF1
Lens hood HB-19

Accessories:

Hard case CL-74
Soft case CL-54
77 mm \varnothing filters



AF Zoom-Nikkor 28–80 mm f/3.3–5.6 G silver/black

Order code	JAA777DA silver JAA777DC black
Focal length	28–80 mm
Maximum aperture ratio	1:3.3–5.6
Picture angle	74°–30° 10'
Optical construction	6 elements in 6 groups
Minimum distance	0.35 m
Diaphragm scale	automatic
Filter mount	58 mm ∅
Special characteristics	G-type lenses without aperture ring; aperture is camera-controlled at all times. Compatible with all aperture types of F5, F100, F80, F65, F50, F401, Pronea 600i, Pronea S and D1 series. Usable with F4, F90/90X, F70, F801 and F601M in P and S mode
Dimensions	66.5 mm ∅ × 64 mm
Weight	195 g

Supplied with:

Front lens cover FA-45
Rear lens cover LF-1

Accessories:

Lens hood HB-20
58 mm ∅ filters



AF Zoom-Nikkor 28–105 mm f/3.5–4.5 D IF

Order code	JAA766DA
Focal length	28–105 mm
Maximum aperture ratio	1:3.5–4.5
Picture angle	74°–23°20'
Optical construction	16 elements in 12 groups
Minimum distance	0.5 m, in macro position 0.22 m
Aperture range	3.5–22
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	73 mm \varnothing × 81.5 mm
Weight	455 g

Supplied:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HB-18
Hard case CL-49
Soft case CL-52
62 mm \varnothing filters



AF Zoom-Nikkor 28–200 mm f/3.5–5.6 D IF

Order code	JAA758DA
Focal length	28–200 mm
Maximum aperture ratio	1:3.5–5.6
Picture angle	74°–12°20'
Optical construction	16 elements in 13 groups
Minimum distance	2 m, in macro position 0.85 m
Aperture range	3.5–22
Diaphragm type	automatic
Filter mount	72 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	78 mm \varnothing × 86.5 mm
Weight	555 g

Supplied:

Front lens cover FA-47
Rear lens cover LF-1
Lens hood HB-12

Accessories:

Hard case CL-49
Soft case CL-54
72 mm \varnothing filters



AF Zoom Nikkor 35–70 mm f/2.8 D

Order code	JAA743DA
Focal length	35–70 mm
Maximum aperture ratio	1:2.8
Picture angle	62°–34°20'
Optical construction	15 elements in 12 groups
Minimum distance	0.6 m, in macro position 0.28 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	71.5 mm \varnothing × 94.5 mm
Weight	665 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF1

Accessories:

Lens hood HB-1
Hard case CL-33S
Soft case CL-53
62 mm \varnothing filters



AF Zoom-Nikkor 70–300 mm f/4.0–5.6 D ED

Order code	JAA764DA
Focal length	75–300 mm
Maximum aperture ratio	1:4.0–5.6
Picture angle	34°20'–8°10'
Optical construction	13 elements in 9 groups
Minimum distance	1.50 m
Aperture range	4.0–32
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	74 mm \varnothing × 116 mm
Weight	515 g

Supplied:

Front lens cover FA-85
Rear lens cover LF-1
Lens hood HN-15

Accessories:

Lens hood CL-72
Soft case CL-54
62 mm \varnothing filters



AF Zoom-Nikkor 70–300 mm f/4.0–5.6 G silver/black

Order code	JAA776DA silver JAA776DC black
Focal length	70–300 mm
Maximum aperture ratio	1:4.0–5.6
Picture angle	34°20'–8°10'
Optical construction	13 elements in 9 groups
Minimum distance	1.5 m
Aperture range	4.0–22
Diaphragm scale	automatic
Filter mount	62 mm \varnothing
Special characteristics	G-type lenses without aperture ring; aperture is camera-controlled at all times. Compatible with all aperture types of F5, F100, F80, F65, F50, F401, Pronea 600i, Pronea S and D1 series. Usable with F4, F90/90X, F70, F801 and F601M in P and S mode
Dimensions	74 mm \varnothing × 116.5 mm
Weight	470 g



Supplied with:
Front lens cover FA-85
Rear lens cover LF-1

Accessories:
Lens hood HB-26
Lens case CL-72
Soft case CL-S4
62 mm \varnothing filters

AF Zoom-Nikkor 80–200 mm f/2.8 D ED

Order code	JAA762DA
Focal length	80–200 mm
Maximum aperture ratio	1:2.8
Picture angle	30°10'–12°20'
Optical construction	16 elements in 11 groups
Minimum distance	1.80 m, in macro position 1.50 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	77 mm \varnothing
Tripod socket	built-in, rotatable
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture. The focus response time can be shortened by presetting the focus range
Dimensions	87 mm \varnothing × 187 mm
Weight	1300 g

Supplied with:
Front lens cover FA-47
Rear lens cover LF1
Hard case CL-43A

Accessories:
Lens hood HB-7
Soft case CL-S3
77 mm \varnothing filters



AF-S Zoom-Nikkor 80–200 mm f/2.8 D IF-ED

Order code	JAA765DA
Focal length	80–200 mm
Maximum aperture ratio	1:2.8
Picture angle	30°10'–12°20'
Optical construction	18 elements in 14 groups
Minimum distance	1.5 m
Aperture range	2.8–22
Diaphragm type	automatic
Filter mount	77 mm \varnothing
Special characteristics	Focusing: M: manual setting (possible with AI cameras) A: ultra-fast autofocus with built-in Silent-Wave motor (with F5, F100, F80 and D1 series) M/A: autofocus with optional manual setting
Dimensions	88 mm \varnothing × 207 mm
Weight	1580 g

Supplied with:

Front lens cover FA-47

Rear lens cover LF1

Accessories:

Lens hood HB-7

Hard case CL-43A

77 mm \varnothing filters



AF-VR Zoom-Nikkor 80–400 mm f/4.5–5.6 D ED

Order code	JAA771DA
Focal length	80–400 mm
Maximum aperture ratio	1:4.5–5.6
Picture angle	30°10'–6°10'
Optical construction	17 lenses in 11 groups
Minimum distance	2.3 m
Aperture range	4.5–32
Diaphragm type	automatic
Filter mount	77 mm \varnothing
Special characteristics	New-style system called VR is a special vibration reduction mechanism; allows to take pictures at shutter speeds approx. 3 steps slower than using a lens without VR and still get sharp results; the VR system works only with the F5, F100, F80 and D1 serie
Dimensions	91 mm \varnothing × 171 mm
Weight	1360 g

Supplied with:

Front lens cover FA-47

Rear lens cover LF-1

Accessories:

Lens hood HB-24

Hard case CL-15S

77 mm \varnothing filters



AF Micro Nikkor 60 mm f/2.8 D

Order code	JAA625DA
Focal length	60 mm
Maximum aperture ratio	1:2.8
Picture angle	39°40'
Optical construction	8 elements in 7 groups
Minimum distance	0.219 m
Maximum reproduction ratio	bis 1:1
Aperture range	2.8–32
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	70 mm \varnothing × 74.5 mm
Weight	440 g



Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HN-22
Hard case CL-325
Macroflash SB-29
Adapter URF-3 for macro flash Unit SB-29
62 mm \varnothing filters

AF Micro-Nikkor 105 mm f/2.8 D

Order code	JAA6727DA
Focal length	105 mm
Maximum aperture ratio	1:2.8
Picture angle	23°20'
Optical construction	9 elements in 8 groups
Minimum distance	0.314 m
Maximum reproduction ratio	1:1
Aperture range	2.8–32
Diaphragm type	automatic
Filter mount	52 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture
Dimensions	75 mm \varnothing × 113 mm
Weight	560 g



Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HS-7
Hard case CL-155
52 mm \varnothing filters
Macroflash SB-29
Adapter URF-3 for SB-29

AF Micro Nikkor 200 mm f/4.0 D IF-ED

Order code	JAA624DA
Focal length	200 mm
Maximum aperture ratio	1:4.0
Picture angle	12°20'
Optical construction	13 elements in 8 groups
Minimum distance	0.5 m
Maximum reproduction ratio	1:1
Aperture range	4.0–32
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture. The focus response time can be shortened by presetting the focus range
Tripod socket	rotatable 360°
Dimension	76 mm \varnothing × 193 mm
Weight	1200 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1
Hard case CL-45

Accessories:

Lens hood HN-30
62 mm \varnothing filters



AF Zoom-Micro-Nikkor 70–180 mm f/4.5–5.6 D ED

Order code	JAA763DA
Focal length	70–180 mm
Maximum aperture ratio	1:4.5–5.6
Picture angle	34°20'–13°40'
Optical construction	18 elements in 14 groups
Minimum distance	0.37 m
Maximum reproduction ratio	1:1
Aperture range	4.5–32
Diaphragm type	automatic
Filter mount	62 mm \varnothing
Special characteristics	Autofocus with all Nikon AF-cameras, compatible with all AI-cameras in manual mode; locking of smallest aperture. The focus response time can be shortened by presetting the focus range
Dimension	75 mm \varnothing × 167 mm
Weight	990 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1
Lens hood HB-14

Accessories:

Hard case CL-71
62 mm \varnothing filters



AF-S Teleconverter TC-14E II

Order code	JAA910DA
Use	with all AF-S lenses (lenses with built-in motor)
Focale length	1.4× that of the lens in use
Optical construction	5 elements in 5 groups
Diaphragm type	automatic
Aperture	
coupling range	2–32
Effective aperture	2.8–45
Reproduction ratio	1.4× that of the lens in use
Depth of field	about 70% of that of lens in use
Closest focusing distance	same as that of lens in use
Mount-to-mount length	24.5 mm
Dimensions	66 mm \varnothing × 24.5 mm
Weight	200 g

Supplied with:

Front lens cover BF-3
Rear lens cover LF-1

Accessories:

Lens case CL-30S
Soft case CL-S1



AF-S Teleconverter TC-20 E II

Order code	JAA911DA
Use	with all AF-S lenses (lenses with built-in motor)
Focale length	2× that of the lens in use
Optical construction	7 elements in 6 groups
Diaphragm type	automatic
Aperture	
coupling range	2–32
Effective aperture	4.0–64
Reproduction ratio	2× that of the lens in use
Depth of field	half that of the lens in use
Closest focusing distance	same as that of lens in use
Mount-to-mount length	55 mm
Dimensions	66 mm \varnothing × 55 mm
Weight	355 g

Supplied with:

Front lens cover BF-3
Rear lens cover LF-1

Accessories:

Lens case CL-30S
Soft case CL-S1



Nikkor 15 mm f/3.5

Order code	JAA103AB
Focal length	15 mm
Maximum aperture ratio	1:3.5
Picture angle	110°
Optical construction	14 elements in 11 groups
Special characteristic	CRC close-range correction system
Minimum distance	0.3 m
Aperture range	3.5–22
Diaphragm type	Automatic
Filter mount	Bayonet mount; 4 filters supplied: L1 BC, 056, A2, B2
Lens hood	Built-in
Hard case	Supplied CL-17
Dimensions	90 mm \varnothing × 94 mm
Weight	630 g

Accessories:

Front cover FA 110
Rear lens cover LF 1
Hard case CL-17



Nikkor 18 mm f/3.5

Order code	JAA105AB
Focal length	18 mm
Maximum aperture ratio	1:3.5
Picture angle	100°
Optical construction	11 elements in 10 groups
Special characteristic	CAC close-range correction system
Minimum distance	0.25 m
Aperture range	3.5–22
Diaphragm type	Automatic
Filter mount	72 mm \varnothing
Dimensions	75 mm \varnothing × 61.5 mm
Weight	350 g

Accessories:

Rear lens cover FA-51
Rear lens cover LF-1
Lens hood HK-9
Hard case CL-37



Nikkor 20 mm f/2.8

Order code	JAA108AA
Focal length	20 mm
Maximum aperture ratio	1:2.8
Picture angle	94°
Optical construction	12 elements in 9 groups
Special characteristic	CAC close-range correction
Minimum distance	0.25 m
Aperture range	2.8–22
Diaphragm type	Automatic
Filter mount	62 mm Ø
Dimensions	65 mm Ø × 42.5 mm
Weight	260 g

Supplied with:

Front lens cover FA-85
Rear lens cover LE-1

Accessories:

Lens hood HK-14
Hard case CL-30S
Soft case CL-52

62 mm Ø filters



Nikkor 24 mm f/2.0

Order code	JAA109AB
Focal length	24 mm
Maximum aperture ratio	1:2.0
Picture angle	84°
Optical construction	11 elements in 10 groups
Special characteristic	CRC close-range correction system
Minimum distance	0.3 m
Aperture range	2.8–22
Diaphragm type	Automatic
Filter mount	52 mm Ø
Dimensions	63 mm Ø × 51.5 mm
Weight	300 g

Supplied with:

Front lens cover FA 46
Rear lens cover LF 1

Accessories:

Lens hood HN-1
Hard case CL-30S
Soft case CL-51

52 mm Ø filters



Nikkor 24 mm f/2.8

Order code	JAA109AB
Focal length	24 mm
Maximum aperture ratio	1:2.8
Picture angle	84°
Optical construction	9 elements in 9 groups
Special characteristic	CRC close-range correction system
Minimum distance	0.3 m
Aperture range	2.8–22
Diaphragm type	Automatic
Filter mount	52s mm \varnothing
Dimensions	63 mm \varnothing × 46 mm
Weight	250 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-1
Hard case CL-30S
Soft case CL-S1
52 mm \varnothing filters



Nikkor 28 mm f/2.0

Order code	JAA111AC
Focal length	28 mm
Maximum aperture ratio	1:2.0
Picture angle	74°
Optical construction	9 elements in 8 groups
Special characteristic	CRC close-range correction system
Minimum distance	0.25 m
Aperture range	2.0–22
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	63 mm \varnothing × 58.5 mm
Weight	360 g

Supplied with:

Front lens cover FA 46
Rear lens cover LF 1

Accessories:

Lens hood HN 1
Hard case CL 31 S
Soft case FLC 61
52 mm \varnothing filters



Nikkor 28 mm f/2.8

Order code	JAA112AB
Focal length	28 mm
Maximum aperture ratio	1:2.8
Picture angle	74°
Optical construction	8 elements in 8 groups
Special characteristic	CRC close-range correction system
Minimum distance	0.2 m
Aperture range	2.8–22
Diaphragm type	Automatic diaphragm
Filter mount	52 mm \varnothing
Dimensions	63 mm \varnothing × 44.5 mm
Weight	250 g

Supplied with:

Front lens cover FA 46
Rear lens cover LF 1

Accessories:

Lens hood HN 2
Hard case CL 30 S
Soft case FLC 61
52 mm \varnothing filters



Nikkor 35 mm f/1.4

Order code	JAA115AD
Focal length	35 mm
Maximum aperture ratio	1:1.4
Picture angle	62°
Optical construction	9 elements in 7 groups
Special characteristic	CRC close-range correction system
Minimum distance	0.3 m
Aperture range	1.4–16
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	67.5 mm \varnothing × 62 mm
Weight	400 g

Supplied with:

Front lens cover FA 46
Rear lens cover LF 1

Accessories:

Lens hood HN 3
Hard case CL 31 S
Soft case FLC 61
52 mm \varnothing filters



Nikkor 35 mm f/2.0

Order code	JAA116AB
Focal length	35 mm
Maximum aperture ratio	1:2.0
Picture angle	62°
Optical construction	8 elements in 6 groups
Minimum distance	0.3 m
Aperture range	2.0–22
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	63.5 mm \varnothing × 51.5 mm
Weight	280 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-3
Hard case CL-31 S
Soft case CL-S1
52 mm \varnothing filters



Nikkor 45 mm f/2.8 P

Order code	JAA012AA silver JAA012AB black
Focal length	45 mm
Maximum aperture ratio	1:2.8
Picture angle	50°
Optical construction	4 elements in 3 groups
Minimum distance	0.45 m
Aperture range	2.8–22
Diaphragm type	Automatic diaphragm
Filter mount	52 mm \varnothing
Special	compatible with CPU controlled
characteristics	Nikon cameras
Dimensions	61.5 \varnothing × 17 mm
Weight	120 g

Supplied:

to FL45A silver

Front lens cover FA-45A
Rear lens cover LF-1P
Lens hood HN-35S
Soft case
52 mm- NC-filters

to FL45A black

Front lens cover FA-46
Rear lens cover LF-1
Lens hood HN-35B
Soft case

52 mm NC-filters



Nikkor 50 mm f/1.2

Order code	JAA003AB
Focal length	50 mm
Maximum aperture ratio	1:1.2
Picture angle	46°
Optical construction	7 elements in 6 groups
Minimum distance	0.5 m
Aperture range	1.2–16
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	68.5 mm \varnothing × 47.5 mm
Weight	360 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HS-12
Lens hood HR-2
Hard case CL-3LS
Soft case CL-S1



Nikkor 50 mm f/1.4

Order code	JAA001AF
Focal length	50 mm
Maximum aperture ratio	1:1.4
Picture angle	46°
Optical construction	7 elements in 6 groups
Minimum distance	0.45 m
Aperture range	1.4–16
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	63 mm \varnothing × 40 mm
Weight	250 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HS-9
Lens hood HR-1
Hard case CL-30S
Soft case CL-S1



Nikkor 50 mm f/1.8

Order code	JAA006AC
Focal length	50 mm
Maximum aperture ratio	1:1.8
Picture angle	46°
Optical construction	6 elements in 5 groups
Minimum distance	0.60 m
Aperture range	1.8–22
Diaphragm type	automatic
Filter mount	52 mm \varnothing
Dimensions	63.5 mm \varnothing × 27.5 mm
Weight	145 g



Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HR-4
Hard case CL-30 S
Soft case CL-61

Nikkor 85 mm f/1.4

Order code	JAA303AB
Focal length	85 mm
Maximum aperture ratio	1:1.4
Picture angle	28°30'
Optical construction	7 elements in 5 groups
Minimum distance	0.85 m
Aperture range	1.4–16
Diaphragm type	Automatic
Filter mount	72 mm \varnothing
Dimensions	80.5 mm \varnothing × 64.5 mm
Weight	620 g



Supplied with:

Front lens cover FA-51
Rear lens cover LF-1
Lens hood HN-20

Accessories:

Hard case CL-17
Soft case CL-S2

Nikkor 105 mm f/1.8

Order code	JAA306AA
Focal length	105 mm
Maximum aperture ratio	1:1.8
Picture angle	23°20'
Optical construction	5 elements in 5 groups
Minimum distance	1 m
Aperture range	1.8–22
Diaphragm type	Automatic diaphragm
Filter mount	62 mm \varnothing
Lens hood	Supplied
Dimensions	78.5 mm \varnothing × 80.5 mm
Weight	580 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Hard case CL-15 S
Soft case CL-S2



Nikkor 105 mm f/2.5

Order code	JAA305AC
Focal length	105 mm
Maximum aperture ratio	1:2.5
Picture angle	23°20'
Optical construction	5 elements in 4 groups
Minimum distance	1 m
Aperture range	2.5–22
Diaphragm type	Automatic diaphragm
Filter mount	52 mm \varnothing
Lens hood	Supplied
Dimensions	64 mm \varnothing × 69.5 mm
Weight	435 g

Supplied with:

Front lens cover FA-45
Rear lens cover LE-1

Accessories:

Hard case CL-328
Soft case CL-S2



Nikkor 135 mm f/2.0

Order code	JAA307AC
Focal length	135 mm
Maximum aperture ratio	1:2.0
Picture angle	18°
Optical construction	6 elements in 4 groups
Minimum distance	1.3 m
Aperture range	2.0–22
Diaphragm type	Automatic
Filter mount	72 mm \varnothing
Lens hood	Built-in
Dimensions	80.5 mm \varnothing × 93.5 mm
Weight	860 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1

Accessories:

Hard case CL-158
Soft case CL-52



Nikkor 135 mm f/2.8

Order code	JAA308AB
Focal length	135 mm
Maximum aperture ratio	1:2.8
Picture angle	18°
Optical construction	5 elements in 4 groups
Minimum distance	1.3 m
Diaphragm type	2.8–32
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Lens hood	Built-in
Dimensions	64 mm \varnothing × 83.5 mm
Weight	435 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Hard case CL-325
Soft case CL-52



Nikkor 180 mm f/2.8 ED

Order code	JAA311AF
Focal length	180 mm
Maximum aperture ratio	1:2.8
Picture angle	13° 40'
Optical construction	5 elements in 5 groups
Minimum distance	1.8 m
Aperture range	2.8–32
Diaphragm type	Automatic diaphragm
Filter mount	72 mm \varnothing
Lens hood	Built-in
Dimensions	78.5 mm \varnothing × 130 mm
Weight	800 g

Supplied with:

Front lens cover FA-50
Rear lens cover LF-1

Accessories:

Hard case CL-35 A
Soft case CL-54



Nikkor 200 mm f/2.0 IF-ED

Order code	JAA312AC
Focal length	200 mm
Maximum aperture ratio	1:2.0
Picture angle	12° 20'
Optical construction	10 elements in 8 groups
Minimum distance	2.5 m
Aperture range	2.0–22
Diaphragm type	Automatic
Filter mount	Standard gelatine filter can be inserted; front end of lens has built-in UV-Filter
Lens hood	Built-in telescopic lens hood HE-4
Tripod socket	Provided, rotatable
Dimensions	132 mm \varnothing × 225.5 mm
Weight	2550 g

Supplied with:

Leather lens hood
Rear lens cover LF-1
Metal case CT-200



Nikkor 400 mm f/2.8 IF-ED

Order code	JAA516AA
Focal length	400 mm
Maximum aperture ratio	1:2.8
Picture angle	6° 10'
Optical construction	8 elements in 6 groups
Minimum distance	4 m
Aperture range	2.8–22
Diaphragm type	Automatic
Filter mount	1 special holder for 52 mm filter; 1 special holder for gelatine filter; front end of lens has built-in UV-filter
Lens hood	Built-in telescopic lens hood HE-3
Tripod socket	Rotatable
Dimensions	163 mm \varnothing × 378.5 mm
Weight	5150 g

Supplied with:

Leather lens hood
Rear lens cover LF-1
Metal case CT-400



Nikkor 400 mm f/3,5 IF-ED

Order code	JAA501AC
Focal length	400 mm
Maximum aperture ratio	1:3.5
Picture angle	6° 10'
Optical construction	8 elements in 6 groups
Minimum distance	4.5 m
Aperture range	3.5–22
Diaphragm type	Automatic
Filter mount	1 special holder for 39 mm filter; 1 special holder for gelatine filter; front end of lens has built-in UV-filter
Lens hood	Built-in
Tripod socket	Rotatable, detachable
Dimensions	134 mm \varnothing × 296 mm
Weight	2800 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1
Hard case CL-61A



Nikkor 400 mm f/5.6 IF-ED

Order code	JAA505AD
Focal length	400 mm
Maximum aperture ratio	1:5.6
Picture angle	6° 10'
Optical construction	7 elements in 6 groups
Minimum distance	4 m
Aperture range	5.6–32
Diaphragm type	Automatic
Filter mount	72 mm \varnothing
Lens hood	Built-in
Tripod socket	Rotatable, detachable
Dimensions	85 mm \varnothing × 262 mm
Weight	1200 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1
Hard case CL-27A



Nikkor 500 mm f/4.0 P IF-ED

Order code	JAA518AA
Focal length	500 mm
Maximum aperture ratio	1:4.0
Picture angle	5°
Optical construction	8 elements in 6 groups
Minimum distance	5 m
Aperture range	4–32
Diaphragm type	Automatic
Filter mount	1 special holder for 39 mm filter; 1 special holder for gelatine filter; front end of lens has built-in UV-filter
Lens hood	Built-in
Tripod socket	Rotatable, detachable
Dimensions	138 mm \varnothing × 384 mm
Weight	3000 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1
Lens hood HK-17
Metal case CT-500



Nikkor 600 mm f/4.0 IF-ED

Order code	JAA507A
Focal length	600 mm
Maximum aperture ratio	1:4.0
Picture angle	4° 10'
Optical construction	8 elements in 6 groups
Minimum distance	6.5 m
Aperture range	4.0–22
Diaphragm type	Automatic
Filter mount	1 special holder for 39 mm filter; 1 special holder for gelatine filter; front end of lens has built-in UV-filter
Lens hood	Built-in telescopic lens hood HE-5
Tripod socket	Provided, rotatable
Dimensions	173 mm \varnothing × 473.5 mm
Weight	5650 g

Supplied with:

Leather lens hood
Rear lens cover LF-1
Metal case CT-602



Nikkor 600 mm f/5.6 IF-ED

Order code	JAA509AD
Focal length	600 mm
Maximum aperture ratio	1:5.6
Picture angle	4° 10'
Optical construction	7 elements in 6 groups
Minimum distance	5 m
Aperture range	5.6–32
Diaphragm type	Automatic
Filter mount	1 special holder for 39 mm filter; 1 special holder for gelatine filter; front end of lens has built-in UV-filter
Lens hood	Built-in telescopic lens hood HE-4
Tripod socket	Rotatable
Dimensions	132 mm \varnothing × 387.5 mm
Weight	2800 g

Supplied with:

Leather lens hood
Rear lens cover LF-1
Metal case CT-603



Nikkor 800 mm f/5.6 IF-ED

Order code	JAA517AA
Focal length	800 mm
Maximum aperture ratio	1:5.6
Picture angle	3°
Optical construction	8 elements in 6 groups
Minimum distance	8 m
Aperture range	5.6–32
Diaphragm type	Automatic
Filter mount	1 special holder for 52 mm filter; 1 special holder for gelatine filter; front of lens has UV filter
Lens hood	Built-in telescopic lens hood HE-3
Tripod socket	Rotatable
Dimensions	163 mm \varnothing × 546 mm
Weight	5450 g

Supplied with:

Leather lens hood
Rear lens cover LF-1
Metal case CT-800



Zoom-Nikkor 28–85 mm f/3.5–4.5

Order code	JAA726AA
Focal length	28–85 mm
Maximum aperture ratio	1:3.5–4.5
Picture angle	74°–28° 30'
Optical construction	15 elements in 11 groups
Minimal distance	0.8 m, with macro setting 0.23 m
Aperture range	3.5–22
Diaphragm type	Automatic
Filter mount	62 mm \varnothing
Special characteristics	Two-ring zoom with macro setting, maximum magnification 1:3.4
Dimensions	67 mm \varnothing × 89 mm
Weight	510 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HK-16
Hard case CL-33S
Soft case CL-S2



Nikkor Zoom 35–70 mm f/3.3–4.5

Order code	JAA722M
Focal length	35–70 mm
Maximum aperture ratio	1:3.3–4.5
Picture angle	62°–34° 20'
Optical construction	8 elements in 7 groups
Special characteristics	Two-ring operation for zoom and focusing; macro range 35–70 mm
Minimal distance	0.5 m, with macro setting 0.35 m
Aperture range	3.3–22
Diaphragm type	Automatic
Filter mount	52 mm
Dimensions	63 mm \varnothing × 69 mm
Weight	255 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-2
Hard case CL-31S
Soft case CL-S1



Nikkor Zoom 35–105 mm f/3.5–4.5

Order code	JAA713AA
Focal length	35–105 mm
Maximum aperture ratio	1:3.5–4.5
Picture angle	62°–18°
Optical construction	16 elements in 12 groups
Special characteristic	One-ring for zoom and focusing; macro range 35–105 mm
Minimum distance	1.4 m, with macro setting 0.27 m on 35 mm
Aperture range	3.5–22
Diaphragm type	Automatic
Filter mount	52 mm
Dimensions	64 mm \varnothing × 86.5 mm
Weight	510 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HK-11
Hard case CL-33 S
Soft case CL-S2



Nikkor Zoom 35–135 mm f/3.5–4.5

Order code	JAA723AA
Focal length	35–135 mm
Maximum aperture ratio	1:3.5–4.5
Picture angle	62°–18°
Optical construction	15 elements in 14 groups
Special characteristics	One-ring operation for zoom and focusing; with macro setting at 135 mm, max. magnification 1:3.8
Minimal distance	1.5 m, with macro setting 0.4 m
Aperture range	3.5–22
Diaphragm type	Automatic
Filter mount	62 mm
Dimensions	68 mm \varnothing × 112 mm
Weight	600 g

Supplied with:

Front lens cover FA 85
Rear lens cover LF 1

Accessories:

Lens hood HN 22
Hard case CL 41S
Soft case CL-S2



Nikkor 35–200 mm f/3.5–4.5

Order code	JAA725AA
Focal length	35–200 mm
Maximum aperture ratio	1:3.5–4.5
Picture angle	62°–12°20'
Optical construction	17 elements in 13 groups
Minimum distance	1.6 m, with macro 0.3 m
Aperture range	3.5–22
Diaphragm type	Automatic diaphragm
Filter mount	62 mm \varnothing
Dimensions	70 \varnothing × 119 mm
Weight	740 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HK-15
Lens case CL-13A
Soft case CL-54



Zoom-Nikkor 70–210 mm f/4.5–5.6

Order code	JAA761AA
Focal length	70–210 mm
Maximum aperture ratio	1:4.0–5.6
Picture angle	34° 20'–11° 50'
Optical construction	12 elements in 9 groups
Special characteristics	Two-ring operation for zoom and focusing
Minimum distance	1.5 m
Aperture range	4.0–32
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	64 mm \varnothing × 104 mm
Weight	375 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-24
Hard case CL-15S/CL-38
Soft case CL-54
62 mm \varnothing filters



Nikkor Zoom 100–300 mm f/5.6

Order code	JAA721AA
Focal length	100–300 mm
Maximum aperture ratio	1:5.6
Picture angle	24°–8°
Optical construction	14 elements in 10 groups
Special characteristics	One-ring operation for zoom and focusing; macro setting at 100 mm max. magnification 1:4.4
Minimum distance	2 m, with macro setting 0.71 m
Aperture range	5.6–32
Diaphragm type	Automatic
Filter mount	62 mm
Dimensions	74 mm \varnothing × 199 mm
Weight	930 g

Supplied with:

Front lens cover FA-85
Rear lens cover LF-1

Accessories:

Lens hood HN-24
Hard case CL-40



PC-Nikkor 28 mm f/3.5

Order code	JAA611AB
Focal length	28 mm
Maximum aperture ratio	1:3.5
Picture angle	74°
Utilizable picture angle	92°
Optical construction	9 lenses in 8 groups
Minimum distance	0.3 m
Aperture range	3.5–22
Diaphragm type	Preset type
Shifting range	11 mm
Filter mount	72 mm Ø
Dimensions	78 mm Ø × 64.5 mm
Weight	380 g

Supplied with:

Front lens cover FA-51
Rear lens cover LF-1
Hard case CL-34A

Accessories:

72-mm filter
Lens hood HN-9
Soft case CL-S2



PC-Micro Nikkor 85 mm f/2.8 D

Order code	JAA628DA
Focal length	85 mm
Maximum aperture ratio	1:2.8
Diagonal picture angle	diagonal: 28° 30'
angle	vertical: 16°
	horizontal: 23° 50'
Optical construction	6 lenses in 5 groups
Minimum distance	0.39 mm
Aperture range	2.8–45
Diaphragm type	Preset type
Depth-of-field preview button	Button to open lens to full aperture (self-locking)
Shifting range	± 12.4 mm
Tilting range	± 8.3°
Special characteristics	Built-in CPU transmits effective aperture values to the camera body. Transmission of distance signal to camera body for 3D matrix metering or 3D multi-sensor fill-in flash for shots with full aperture without tilting or shifting
Filter mount	77 mm Ø
Dimensions	83.5 mm Ø × 109.5 mm
Weight	775 g

Supplied with:

Front lens cover FA 47
Rear lens cover LF-1
Hard case CL-75

Optional accessories:

77-mm filter
Lens hood HB-22
Tripod mounting spacer AH-5



Micro-Nikkor 55 mm f/2.8

Order code	JAA616AB
Focal length	55 mm
Maximum aperture ratio	1:2.8
Picture angle	43°
Optical construction	6 elements in 5 groups
Minimum distance	0.25 m
Aperture range	2.8–32
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Dimensions	63.5 mm \varnothing × 62 mm
Weight	290 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Lens hood HN-3
Hard case CL-31 S
Soft case CL-S1

With PK 13:

Hard case CL-33S
Soft case CL-S3

With the PK 13 Ring or teleconverter TC 201, it is possible to extend the reproduction ratio to 1:1.



Extension Ring PK-13

Order code	FPW00902
Extension	27.5 mm
Dimensions	64.4 mm \varnothing × 30.5 mm
Weight	100 g

Supplied with:

Body cover BF-1A
Rear lens cover LF-1

Accessories:

Hard case CL-30 S
Soft case CL-S1



Micro-Nikkor 105 mm f/2.8

Order code	JAA619AA
Focal length	105 mm
Maximum aperture ratio	1:2,8
Picture angle	23°
Optical construction	10 elements in 9 groups
Minimum distance	0.41 m (M = 1:2)
Aperture range	2.8–32
Diaphragm type	Automatic
Filter mount	52 mm
Lens hood	Supplied, HS-14
Dimensions	66.5 mm \varnothing × 83.5 mm
Weight	515 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1
Lens hood HS-14

Accessories:

Hard case CL-335

With the PN-1 ring, the reproduction ratio can be extended to 1:0.88



Extension Ring PN-11

Order code	FPW01002
Extension	52.5 mm
Dimensions	70.5 mm \varnothing × 67 mm
Weight	245 g
Tripod socket	Rotatable

Supplied with:

Body cover BF-1A
Rear lens cover LF-1



Micro-Nikkor 200 mm f/4.0 IF

Order code	JAA618AB
Focal length	200 mm
Maximum aperture ratio	1:4.0
Picture angle	12° 20'
Optical construction	9 elements in 6 groups
Minimum distance	0.71 m
Aperture range	4.0–32
Diaphragm type	Automatic
Filter mount	52 mm \varnothing
Lens hood	Built-in
Tripod socket	Rotatable and detachable
Dimensions	66 mm \varnothing × 172 mm
Weight	800 g

Supplied with:

Front lens cover FA-46
Rear lens cover LF-1

Accessories:

Hard case CL-36
Teleconverter TC-301
Soft case CL-54

With the teleconverter TC 301 the reproduction ratio can be extended to 1:1.



Teleconverter TC 301

Order code	JAA902AC
Focal length	Twice that of the basic focal length
Optical construction	5 elements in 5 groups
Aperture coupling range	from f/2.8 to f/32
Effective aperture	from f/5.6 to f/64
Diaphragm type	Automatic
Reproduction ratio	Double that of lens in use
Depth of field	Half that of lens in use
Closest focusing distance	Same as that of lens in use
Mount-to-mount length	83 mm
Dimensions	64.5 mm \varnothing × 115 mm
Weight	325 g

Information on the use of the TC 201 is given in the table of Nikkor Lenses

Supplied with:

Body case BF-2
Rear lens cover LF-1

Accessories:

Hard case CL-33S
Soft case CL-51



Reflex-Nikkor 500 mm f/8.0 D

Order code	JAA506AB
Focal length	500 mm
Maximum aperture ratio	1:8.0
Picture angle	5°
Optical construction	6 elements in 6 groups
Special characteristics	Reflex lens
Minimum distance	1.5 m (M = 1:2.5)
Diaphragm type	Fixed aperture f/8.0
Filter mount	39 mm, 5 filters supplied: L 37C, 056, A2, B2, ND4
Tripod socket	Provided
Dimensions	89 mm \varnothing x 109 mm
Weight	840 g

Supplied with:

Front lens cover FA-120
Rear lens cover LF-1
Lens hood HN-27
Hard case CL-39

A filter must always be mounted!



Reflex-Nikkor 1000 mm f/11.0

Order code	JAA5126DA
Focal length	1000 mm
Maximum aperture ratio	1:11.0
Picture angle	2°30'
Optical construction	5 elements in 5 groups
Special characteristics	Reflex lens
Minimum distance	8 m
Aperture range	Fixed aperture f/11.0
Filter mount	39 mm, 5 filters supplied: L37C, 056, A2, B2, ND4
Lens hood	Built-in
Tripod socket	Provided
Dimensions	119 mm \varnothing x 233.5 mm
Weight	1900 g

Supplied with:

Front lens cover
Rear lens cover LF1
Lens case CL-29

A filter must always be mounted!



Teleconverter TC 14 A

Order code	JAA904AB
Focal length	× 1.4 that of the lens in use
Optical construction	5 elements in 5 groups
Aperture coupling range	from f/1.8 to f/32
Effective aperture	from f/2.8 to f/45
Diaphragm type	Automatic
Reproduction ratio	1,4 × that of lens in use
Depth of field	About 70 % of that of lens in use
Closest focusing distance	Same as that of lens in use
Mount-to-mount length	22 mm
Dimensions	65 mm Ø × 25.5 mm
Weight	145 g

Information on the use of the TC 14A is given in the Table of Nikkor Lenses.

Supplied with:

Body housing BF-1 A
Rear lens cover LF-1

Accessories:

Hard case CL-30S
Soft case CL-S1



Teleconverter TC 14 B

Order code	JAA903AB
Focal length	1.4 × that of lens in use
Optical construction	5 elements in 5 groups
Aperture coupling range	from f/2 to f/32
Effective aperture	from f/2.8 to f/45
Diaphragm type	Automatic
Reproduction ratio	1.4 × that of lens in use
Depth of field	About 70 % of that of lens in use
Closest focusing distance	Same as that of lens in use
Mount-to-mount length	22 mm
Dimensions	65 mm Ø × 34 mm
Weight	165 g

Information on the use of the TC 14B is given in the Table of Nikkor Lenses.

Supplied with:

Body housing BF-3
Rear lens cover LF-1

Accessories:

Hard case CL-30 S
Soft case CL-S1



Teleconverter TC-201

Order code	JAA901AD
Focal length	Double that of lens in use
Optical construction	7 elements in 5 groups
Aperture coupling range	from f/2 to f/32
Effective aperture	from f/4 to f/64
Diaphragm type	Automatic
Reproduction ratio	Double that of lens in use
Depth of field	Half that of lens in use
Closest focusing distance	Same as that of lens in use
Mount-to-mount length	44 mm
Dimensions	64.5 mm \varnothing × 52 mm
Weight	230 g

Information on the use of the TC 201 is given in the table of Nikkor Lenses.

Supplied with:

Body housing BF-1A
Rear lens cover LF-1

Accessories:

Hard case CL-30 S
Soft case CL-S1



Teleconverter TC-301

Order code	JAA902AC
Focal length	Double that of lens in use
Optical construction	5 elements in 5 groups
Aperture coupling range	from f/2.8 to f/32
Effective aperture	from f/5.6 to f/64
Diaphragm type	Automatic
Reproduction ratio	Double that of lens in use
Depth of field	Half that of the lens in use
Closest focusing distance	Same as that of lens in use
Mount-to-mount length	83 mm
Dimensions	64.5 mm \varnothing × 115 mm
Weight	325 g

Information on the use of the TC 301 is given in the table of Nikkor Lenses.

Supplied with:

Body housing BF-2
Rear lens cover LF-1

Accessories:

Hard cover CL-33 S
Soft case CL-S1



LENSHOODS • PARALUCE

Lens Obiettivo	Lenshood Paraluce			Mounting Attacco				Material Materiale		
	Order code	built-in	extention	screw mount	plug-in mount	snap-on mount	bayonet mount	synthetic	rubber	metal
	Codice di comando	incorporato	prolunga	a vite	a serraggio	a incastro	a baionetta	plastica	gomma	metallica
AF Fisheye										
AF 16 mm f/2.8 D		●								
AF Wideangle/grandangolari										
AF 14 mm f/2.8 D ED		●								
AF 18 mm f/2.8 D	HB-8 / JAB70801						X	X		
AF 20 mm f/2.8 D	HB-4 / JAB70401						X	X		
AF 24 mm f/2.8 D	HN-1 / JAB30601			X						X
AF 28 mm f/1.4 D	HK-7 / JAB60701				X					X
AF 28 mm f/2.8 D	HN-2 / JAB30701			X						X
AF 35 mm f/2.0 D	HN-3 / JAB30801			X						X
AF Standard										
AF 50 mm f/1.4 D	HR-2 / JAB31601			X					X	
AF 50 mm f/1.8	HR-2 / JAB31601			X					X	
AF Tele										
AF 85 mm f/1.4 D	HN-31 / JAB33001			X						X
AF 85 mm f/1.8 D	HN-23 / JAB32301			X						X
AF 105 mm f/2.0 DC D		●								X
AF 135 mm f/2.0 DC D		●								X
AF 180 mm f/2.8 D IF-ED		●								X
AF-S 300 mm f/2.8 D IF-ED II	HK-26 / JAB62901				X		X			X
AF-S 300 mm f/4.0 D IF-ED		●								X
AF-S 400 mm f/2.8 D IF-ED II	HK-25 / JAB62601						X			X
AF-S 500 mm f/4.0 D IF-ED	HK-24 / JAB62501						X			X
AF-S 600 mm f/4.0 D IF-ED	HK-23 / JAB62401						X			X
AF Zoom										
AF-S 17–35 mm f/2.8 D IF-ED	HB-23 / JAB72301						X	X		
AF 18–35 mm f/3.5–4.5 D IF-ED	HB-23 / JAB72301						X	X		
AF 24–85 mm f/2.8–4.0	HB-25 / JAB72501						X	X		
AF 24–120 mm f/3.5–5.6 D IF	HB-11 / JAB71101						X	X		
AF-S 28–70 mm f/2.8 D IF-ED	HB-19 / JAB71901						X	X		
AF 28–80 mm f/3.3–5.6 G black	HB-20 GB / JAB72001						X	X		
AF 28–80 mm f/3.3–5.6 G silver	HB-20 GS / JAB72011						X	X		
AF 28–105 mm f/3.5–4.5 D IF	HB-18 / JAB71801						X	X		
AF 28–200 mm f/3.5–5.6 D IF	HB-12 / JAB71201						X	X		
AF 35–70 mm f/2.8 D	HB-1 / JAB70101						X	X		
AF 70–300 mm f4.0/5.6 D ED	HB-15 / JAB71501						X	X		
AF 70–300 mm f4.0/5.6 G black	HB-26 GB / JAB72601						X	X		
AF 70–300 mm f4.0/5.6 G silver	HB-26 GS / JAB72621						X	X		
AF 80–200 mm f/2.8 D	HB-7 / JAB70701						X	X		
AF-S 80–200 mm f/2.8 D	HB-17 / JAB71701						X	X		
AF-VR 80–400 mm F 4.5–5.6 D ED	HB-24 / JAB72401						X	X		

Order code Codice di comando	
HN-1/JAB30601	AF 24 mm f/2.8 AF D PC 35 mm f/2.8 AI-S 24 mm f/2.8 AI-S 28 mm f/2.0
HN-2/JAB30701	AF 28 mm f/2.8 D AI-S 28 mm f/2.8
HN-3/JAB30801	AF 35 mm f/2.0 D AI-S 35 mm f/1.4 AI-S 35 mm f/2.0 AI-S 55 mm f/2.8 Micro
HN-9/JAB30401	PC 28 mm f 3.5
HN-12/JAB31301	Polarisation filters 52 mm Polarizzatore filtri 52 mm
HN-13/JAB31401	Polarisation filters 72 mm Polarizzatore filtri 72 mm
HN-20/JAB32201	AI-S 85 mm f/1.4
HN-22/JAB32201	AF 60 mm f/2.8 D Micro
HN-23/JAB32301	AI-S 80–200 mm f/4.0 AF 85 mm f/ 1.8 D
HN-26/JAB32601	Polarisation filters 62 mm Polarizzatore filtri 62 mm
HN-27/JXA10064	500 mm f/ 8.0 Reflex
HN-30/JAB32901	AF 200 mm f/4.0 D Micro
HN-31/JAB33001	AF 85 mm f/ 1.4 D
HN-34/JAB33201	Polarisation filters 77 mm Polarizzatore filtri 77 mm
HN-35S/JAB33301	AI 45 mm f/2.8 P silver/argento
HN-35B/JAB33302	AI 45 mm f/2.8 P black/nero
HK-2/JAB60301	AI-S 24 mm f/2.8
HK-7/JAB60701	AF 28 mm f/1.4 D
HK-9/JAB60901	AI-S 18 mm f/3.5
HK-11/JAB61101	AI-S 35–105 mm f/3.5–4.5
HK-14/JAB60701	AI-S 20 mm f/2.8
HK-16/JAB61801	AI-S 28–85 mm f/3.5–4.5
HK-17/JAB10069	AI-S 500 mm f/4.0 P IF-ED
HK-22/JAB62301	AF-S 300 mm f/2.8 IF-ED
HK-23/JAB62401	AF-S 600 mm f/4.0 IF-ED
HK-24/JAB62501	AF-S 500 mm f/4.0 IF-ED
HK-25/JAB62601	AF-S 400 mm f/2.8 IF-ED
HK-26B/JAB62901	AF-S II 300 mm f/2.8 IF-ED
HK-27B/JAB63001	AF-S II 400 mm f/2.8 IF-ED
HK-28B/JAB63101	AF-S II 500 mm f/4.0 IF-ED
HK-29B/JAB63201	AF-S II 600 mm f/4.0 IF-ED



HB-1/JAB70101	AF 35–70 mm f/2.8D AF 35–135mm f/3.5–4.5 D
HB-3/JAB70301	AF 24–50 mm f/3.3–4.5 D
HB-4/JAB70401	AF 20 mm f/ 2.8 D
HB-7/JAB70701	AF 80–200 mm f/ 2.8 D IF-ED
HB-8/JAB70801	AF 18 mm f/ 2.8 D
HB-11/JAB71101	AF 24–120 mm f/ 3.3–5.6 D
HB-12/JAB71201	AF 28–200 mm f/3.5–5.6 D
HB-14/JAB71401	AF 70–180 mm f/ 4.5–5.6 D Micro
HB-15/JAB71501	AF 70–300 mm f/ 4.0–5.6 D ED
HB-17/JAB71701	AF-S 80–200 mm f/ 2.8 D IF-ED
HB-18/JAB71801	AF 28–105 mm f/ 3.5–4.5 D
HB-19/JAB71901	AF-S 28–70 mm f/2.8 D
HB-20GS/JAB72011	AF 28–80 mm G f/3.5–5.6 silver/argento
HB-20GB/JAB72001	AF 28–80 mm G f/3.3–5.6 black/hero
HB-22/JAB72201	PC 85 mm f/2.8 D Micro
HB23/JAB72301	AF-S 17–35 mm f/2.8 D IF-ED AF 18–35 mm f/3.5–4.5 D
HB-24/JAB72401	AF-VR 80–400 mm f/4.5–5.6 D ED
HB-25/JAB72501	AF 24–85 mm f/2.8–4.0 D
HB-26GS/JAB72621	AF 70–300 mm G f/4.0–5.6 silver/argento
HB-26GB/JAB72601	AF 70–300 mm G f/4.0–5.6 black/hero
HR-1/JAB31501	AI-S 50 mm f/1.4 AI-S 70–210 mm f/4.5–5.6
HR-2/JAB31601	AF 50 mm f/ 1.4 D AF 50 mm f/ 1.8 AI-S 50 mm f/1.2
HS-7/JAB00202	AF 105 mm f/2.8 D Micro
HS-9/JAB00103	AI-S 50 mm f/1.4
HS-11/JAB00501	AI-S 50 mm f/1.8
HS-12/JAB00301	AI-S 50 mm f/1.2
HS-14/JAB00801	AS-I 105 mm f/2.8 Micro
HE-3/JAB61401	AI-S 400 mm f/2.8 IF-ED AI-S 800 mm f/5.6 IF-ED
HE-4/JAB61501	AI-S 200 mm f/2.0 IF-ED AI-S 600 mm f/5.6 IF-ED
HE-5/JAB61601	AI-S 600 mm f/4.0 IF-ED
HE-6/JAB61502	AF 300 mm f/2.8 IF-ED

FILTERS • FILTRI

Filter Filtri			Order code Codice di comando										Filter factor Coefficiente	
			39 mm	46 mm	52 mm	58 mm	62 mm	72 mm	77 mm	82 mm	95 mm	122 mm		Bajonett Baionetta
Skylight	L18C	FLA-61 FTA00201		FLA-20 FTA05401		ALA-30 FTA10101	ALA-22 FTA15402					FLA-62 FTA40101	1	
Ultraviolet Ultravioletto	L37		FLA-50 FTA45101										1	
	L37C	FLA-51 FTA00101		FLA-19 FTA05301		ALA-31 FTA10201	ALA-18 FTA15301	ALA-29 FTA60101	FLA-22 FTA55101	FLA-38 FTA205AA	FLA-41 FTA252AA	FLA-68 FTA40701	1	
	L39			FLA-18 FTA05101									1	
	NC black/nero	FLAN-3 FTA01701		FLAN-5 FTA07701	FLA-10 FTA70101	ALAN-6 FTA11401	ALAN-7 FTA16601	ALAN-8 FTA60801						1
	NC silver/argento			FLANC FTA07702										1
Yellow Giallo	bright chiaro	Y44		FLA-3 FTA05501									1,5/1	
	medium media	Y48	FLA-72 FTA01401	FLA-4 FTA05601		ALA-32 FTA10301	ALA-19 FTA15501	ALA-51 FTA60201		FLA-34 FTA202AA	FLA-44 FTA253AA	FLA-66 FTA40501	1,7/1,2	
	dark scuro	Y52	FLA-52 FTA00301	FLA-5 FTA05701									2/1,4	
Orange Arrancio	O56	FLA-53 FTA00401		FLA-6 FTA05801		ALA-33 FTA10401	ALA-20 FTA15601	ALA-52 FTA60301		FLA-36 FTA203AA	FLA-46 FTA254AA	FLA-63 FTA40201	3,5/2	
Red Rosso	R60	FLA-54 FTA00501		FLA-7 FTA05901		ALA-34 FTA10501	ALA-21 FTA15701	ALA-53 FTA60401		FLA-37 FTA204AA	FLA-47 FTA255AA	FLA-67 FTA40601	5/6	
Green Verde	bright chiaro	X0		FLA-8 FTA06001									2/1,7	
	dark scuro	X1		FLA-9 FTA06101									5/3,5	
Circular polarisation Polarizzatore circolare			FTA07401	FLA-10Z	FTA11301	ALA-35Z FTA16501	ALA-23Z FTA6701	ALA-56Z					2-4/2-4	
	slip-in slitta	C-PL1S FTA01501		C-PL1L FTA07501									2-4/2-4	
Neutral gray Grigio neutro	ND25	FLA-69 FTA01801											2	
	ND45	FLA-73 FTA01901		FLA-75 FTA07801			ALA-24 FTA15801						4	
	ND85	FLA-74 FTA02001		FLA-76 FTA07901									8	
	ND400			FLA-70 FTA06401									400	
Amber Ambra	bright chiaro	A2	FLA-55 FTA00601	FLA-13 FTA06501		ALA-36 FTA10701	ALA-25 FTA16001	ALA-54 FTA60501				ALA-64 FTA40301	1,2	
	dark scuro	A12	FLA-56 FTA00701	FLA-14 FTA06601		ALA-37 FTA10801							2	
Blue Blu	bright chiaro	B2	FLA-57 FTA00801	FLA-15 FTA06701		ALA-38 FTA10901	ALA-26 FTA16101	ALA-55 FTA60601				ALA-65 FTA40401	1,2	
	medium media	B8	FLA-58 FTA00901	FLA-11 FTA06801									1,6	
	dark scuro	B12	FLA-59 FTA01001	FLA-12 FTA06901		ALA-39 FTA11001							2,2	
Diffusing screen Diffusore	Nr. 1			FLA-S1 FTA07101		ALA-40 FTA11101	ALA-27 FTA16201							
	Nr. 2			FLA-S2 FTA07201		ALA-41 FTA11201	ALA-28 FTA16301							

Skylight L1BC

Colour films also register the invisible ultraviolet radiation. In mountainous areas, this can produce a bluish tinge. The Nikon L1BC filter corrects this bluish tinge by absorbing the UV light. This improves the contrast of the picture. Haze is suppressed and blue tinges corrected. The blue of the summer sky appears more natural and more remote details appear clearer. The L1BC filter is provided with a multilayer coat to prevent undesired flare.

Ultraviolet L37C, L37, NC, L39

Ultraviolet light is invisible to the human eye but may have a very adverse effect on both colour photographs and black/white photographs. The L37C/L37/NC filters are normal UV absorption filters, while type L39 absorbs more UV light and is used in particular for black/white photography, for example for photographs on the beach and in the mountains. The L37C/L37/NC filter is provided with a multilayer coat to prevent undesired flare. The L37C/L37/NC filters can remain on the lens as front lens protection since they do not produce any colour changes.

Yellow Y44, Y48, Y52

(only for black/white films)

Yellow filters absorb blue light, so that this colour is reproduced darker in the positive. This filter colour is particularly suitable for landscape photography and for shooting over large distances. Nikon yellow filters absorb not only blue light but also ultraviolet light. The blue sky is reproduced darker, and haze is in some cases better penetrated. Y44 is a clear yellow filter, while Y48 and Y52 have increasing filter actions.

Orange O56

(only for black/white films)

The orange filter too absorbs blue and ultraviolet as well as green. Consequently, green areas are reproduced in darker shades. A blue sky appears even darker than when the yellow filter is used. This filter is therefore often used for achieving a more «dramatic» effect in landscape photography. Clouds and surface structure are greatly emphasised.



Red R60

(only for black/white films)

The red filter increases the contrast. It absorbs all colours except red. A blue sky appears almost black, giving clouds a very dramatic appearance. Green areas, such as leaves or grass, are reproduced in very dark shades, so that red subjects are greatly contrasted with these areas. Red filters are also frequently used together with infrared film.

Green X0, X1

(only for black/white films)

Green filters absorb red and blue light but transmit yellow and green light. Consequently, the spectral sensitivity with the film is matched well with that of the human eye. X0 absorbs red to a lesser extent and is universally applicable. X1 absorbs red to a greater extent and is therefore suitable for photography in artificial light, for example portraits.

Circular polarisation filters

Polarisation filters suppress reflections from non metallic surfaces. When taking photographs through glass panes, or when undesired reflections from water surfaces have to be eliminated, polarisation filters are frequently used. These filters can also increase the contrast and the colour saturation without producing colour shifts. The blue of the sky is reinforced by the polarisation filters. Nikon circular polarisation filters are available in a rotatable mount. Must be used with all autofocus cameras. For lenses with big focal length new slip-in circular polarisation filters are available.

Accessories:

Lens hood for 52 mm polarisation filter, HN-12 for lenses from 35 mm to 200 mm • Lens hood for 62 mm polarisation filter, HN-26 for 62 mm lenses • Lens hood for 72 mm polarisation filter, HN-13 for 180 mm, 300 mm and 400 mm lenses

Neutral grey ND2S, ND4S, ND8S, ND400

Neutral grey filters absorb all colours equally and therefore have no effect on colour reproduction. They are for reducing the amount of incident light. This makes it possible, for example, to limit the depth of field when it is impossible to set a faster shutter speed. A neutral grey filter can be useful even when the light is so bright that there is no suitable speed/aperture combination for correct exposure. ND400 is used for scientific and infrared photography.

Amber A2

The «cold» light during cloudy weather produces a slight bluish cast even with daylight film. The pale amber filter A2 ensures «warmer» and hence more friendly colours.

Amber A12

The A12 filter is a conversion filter which is used when an artificial-light film is exposed in daylight.

Blue B2

The daylight film is «warmer» early in the morning and during the late afternoon. With a daylight film, this leads to a slightly reddish cast, which is corrected by the B2 filter.

Blue B8

The B8 filter has a more pronounced blue colour. It is used for correction when daylight film is exposed to light from white flash bulbs.

Blue B12

The B12 filter is a conversion filter which neutralises the reddish cast produced when a daylight film is exposed to artificial light.



Nikon soft focus filter no. 1/no. 2

with 52/62/72 mm diameter

Soft focus filter no. 1 is a weaker version suitable for portraits and similar images of large as well as backlit subjects. No. 2 is stronger and covers landscapes or distant views with a strong haze. Soft focus filters owe their attractive effect to a special coating with which pleasantly soft images can be obtained, even with small apertures.

Filter holder

Order code FA58/JXA10075
Filter thread 39 mm Ø
for lens AF-I 300 mm /2.8 IF-ED; AF-I 400/2.8 IF-ED; AF-I 500/ 4.00 D IF-ED; AF-I 600/4.00 D IF-E

Order code FA53/JXA10035
Filter thread 39 mm Ø
for lens AF 300 mm/2.8 IF-ED; 400 mm/ 2.8 IF-ED; 400 mm/3.5 IF-ED; 500 mm/4.0 P IF-ED; 600 mm/ 4.0 IF-ED; 600 mm/5.6 IF-ED

Order code FA49/JXA10079
Filter thread 52 mm Ø
for lens AF-I 300/2.8 IF-ED; AF-I 400/2.8 IF-ED; AF-I 500/4.00 D IF-ED; AF-I 600/4.00 D IF-ED

Gelatine filter holder

Order code AF1/FTW00101
Filter thread 52 mm Ø
Gelatine filter 75 × 75 mm
Accessories:
Lens hood HN-12

Order code AF2/FTW00201
Filter thread 72 mm Ø
Gelatine filter 90 × 90 mm
Lens hood including

Order code AF4/JXA10076
Filter thread 39 mm Ø
for lens AF-I 300/2.8 D IF-ED; AF-I400/ 2.8 IF-ED; AF-I 500/4.0 D-ED; AF-I 600/4.0 D IF-E

Order code FA54/JXA10053
Filter thread 39 mm Ø
for lens 300 mm/2.8 IF-ED

Order code FA48/JXA10080
Filter thread 52 mm Ø
for lens AF-I 300/2.8 D IF-ED; AF-I 400/2.8 IF-ED; AF-I 500/4.0 D IF-ED; AF-I 600/4.0 D IF-ED

Filter bag CA-1

Order code FTE001011
Space for 6 filters 52/62 mm Ø

Filter bag CA-2

Order code FTE002011
Space for 6 filters 39 mm Ø

Filter adapter UR-1

Order code FTW00301
Adapter 72–62 mm Ø



**Front lens cover
for 15 mm f/3.5**

Order code JXA10049

**Front lens cover
for 16 mm f/2.8**

Order code JXA10048

**Front lens cover
46 mm Ø**

Order code JBD00201

**Front lens cover
52 mm Ø**

Order code JAD00102

**Front lens cover
58 mm Ø**

Order code JAD00901

**Front lens cover
62 mm Ø**

Order code JAD0060

**Front lens cover
72 mm Ø**

Order code JAD0070

**Front lens cover
77 mm Ø**

Order code JAD00801

**Front lens cover metallic
95 mm Ø**

Order code JAD0030

**Leather lens hood
108 mm Ø**

Order code JXA10034

**Leather lens hood for
AF-I Nikkor 400 mm f/2.8D**

Order code JXA10078



Leather lens hood for AF-I Nikkor 500 mm f/4.0D

Order code JXA10081

Leather lens hood for AF-I Nikkor 500 mm f/4.0 P IF-ED

Order code JXA10070

Leather lens hood 89 mm Ø

Order code JXA10068

Rear lens cover LF-1

Order code /JAD50101

Rear lens cover LF-1P

Order code JPD50111

Rear lens cover LF-3 for IX Nikkor lenses

Order code JBD50101

Front cover BF-2

Order code JXA10052
Use for teleconverter TC-301

Front cover BF-3

Order code JXA10054
Use for teleconverter TC-14B

Nikon Bayonet – C mount adapter

Order code FPW01201
Use Video, 16 mm-Camera

Cleaning set

Order code 8H5J1014
Consisting of bellows, cleaning cloth
and cleaning paper



HARD CASES/SOFT POUCHES/METAL CASES • ASTUCCI RIGIDI/SACCHETTI SOFFICI/VALIGIA METALLICA

Lens Obiettivo	Hard case Astuccio rigido		Soft pouche Sacchetto soffice		Metal case Valigia metallica	
AF 16 mm Fisheye 2.8 D	CL-31S	JAE41501	CL-S1	JAE44601		
AF 14 mm 2.8 D ED	–		CL-S2	JAE44611		
AF 18 mm 2.8 D	CL-47	JAE43701	CL-S1	JAE44601		
AF 20 mm 2.8 D	CL-30S	JAE41401	CL-S1	JAE44601		
AF 24 mm 2.8 D	CL-30S	JAE41401	CL-S1	JAE44601		
AF 28 mm 1.4 D	CL-44	JAE43401	CL-S2	JAE44611		
AF 28 mm 2.8 D	CL-30S	JAE41401	CL-S1	JAE44601		
AF 35 mm 2.0 D	CL-30S	JAE41401	CL-S1	JAE44601		
AF 50 mm 1.4 D	CL-30S	JAE41401	CL-S1	JAE44601		
AF 50 mm 1.8 D	CL-30S	JAE41401	CL-S1	JAE44601		
AF 85 mm 1.4 D	CL-44	JAE43401	CL-S2	JAE44611		
AF 85 mm 1.8 D	CL-15S	JAE40603	CL-S2	JAE44611		
AF DC 105 mm 2.0 D	CL-38	JAE42801	CL-S3	JAE44621		
AF DC 135 mm 2.0 D	CL-38	JAE42801	CL-S3	JAE44621		
AF 180 mm 2.8 D IF-ED	CL-38	JAE42801	CL-S4	JAE44631		
AF S 300 mm 2.8 D IF-ED II			CL-L1	JAE30101		
AF S 300 mm 4.0 D IF-ED			CL-ML			
AF S 400 mm 2.8 D IF-ED II					CT-402	JAE91401
AF S 500 mm 4.0 D IF-ED					CT-502	JAE91203
AF S 600 mm 4.0 D IF-ED II					CT-606	JAE90804
AF 17–35 mm 2.8 D IF-ED	CL-76	JAE44901	CL-S3	JAE44621		
AF 18–35 mm 3.5–4.5 D IF-ED	–		CL-S2	JAE44611		
AF 24–50 mm 3.3–4.5 D	CL-32S	JAE41601	CL-S2	JAE44611		
AF 24–85 mm 2.8–4.0 D IF	CL-32S	JAE41601	CL-S2	JAE44611		
AF 24–120 mm 3.5–5.6 D IF	CL-49	JAE43901	CL-S2	JAE44611		
AF S 28–70 mm 2.8 D IF-ED	CL-74	JAE44701	CL-S4	JAE44631		
AF 28–80 mm 3.3–5.6 G						
AF 28–105 mm 3.5–4.5 D IF	CL-49	JAE43901	CL-S2	JAE44611		
AF 28–200 mm 3.5–5.6 D IF	CL-49	JAE43901	CL-S4	JAE44631		
AF 35–70 mm 2.8 D	CL-33S	JAE41702	CL-S3	JAE44621		
AF 70–300 mm 4.0–5.6 ED	CL-72	JAE44301	CL-S4	JAE44631		
AF 70–300 mm 4.0–5.6 G	CL-72	JAE44301	CL-S4	JAE44631		
AF 80–200 mm 2.8 D	CL-43A	JAE43302	CL-S3	JAE44621		
AF S 80–200 mm 2.8 IF-ED	CL-73	JAE44401				
AF 80–400 mm VR 4.5–5.6 ED	CL-M1	JAE21101	–			

 supplied/incluso

Lens Obiettivo	Hard case Astuccio rigido		Soft pouche Sacchetto soffice		Metal case Valigia metallica	
Fisheye						
16 mm f/2.8	CL-30S	JAE41401	CL-S1	JAE44601		
Wideangle/grandangolo						
15 mm f/3.5	CL-17	JAE40701				
18 mm f/3.5	CL-37	JAE42601				
20 mm f/2.8	CL-30S	JAE41401	CL-S1	JAE44601		
24 mm f/2.0	CL-31S	JAE41401	CL-S1	JAE44601		
24 mm f/2.8	CL-30S	JAE41501	CL-S1	JAE44601		
28 mm f/2.0	CL-31S	JAE41501	CL-S1	JAE44601		
28 mm f/2.8	CL-30S	JAE41401	CL-S1	JAE44601		
35 mm f/1.4	CL-31S	JAE41501	CL-S1	JAE44601		
35 mm f/2.0	CL-31S	JAE41501	CL-S1	JAE44601		
Standard						
45 mm f/2.8 P			CL-S1	JAE44601		
50 mm f/1.2	CL-31S	JAE41501	CL-S1	JAE44601		
50 mm f/1.4	CL-30S	JAE41401	CL-S1	JAE44601		
50 mm f/1.8	CL-30S	JAE41401	CL-S1	JAE44601		
Tele						
85 mm f/1.4	CL-34A	JAE41801	CL-S2	JAE44611		
105 mm f/1.8	CL-15S	JAE40603	CL-S2	JAE44611		
105 mm f/2.5	CL-32S	JAE41601	CL-S2	JAE44611		
135 mm f/2.0	CL-15S	JAE40603	CL-S2	JAE44611		
135 mm f/2.8	CL-32S	JAE41601	CL-S2	JAE44611		
180 mm f/2.8 ED	CL-35A	JAE41901	CL-S3	JAE44621		
200 mm f/2.0 IF-ED					CT-200	JAE90901
400 mm f/2.8 IF-ED					CT-400	JAE90701
400 mm f/3.5 IF-ED	CL-61A	JAE42102				
400 mm f/5.6 IF-ED	CL-27A	JAE41101				
500 mm f/4.0 P IF-ED					CT-500	JAE91201
600 mm f/ 4.0					CT-602	JAE90302
600 mm f/ 5.6 IF-ED					CT-603	JAE90801
800 mm f/5.6 IF-ED					CT-800	JAE91101

supplied/incluso

Lens Obiettivo	Hard case Astuccio rigido		Soft pouche Sacchetto soffice		Metal case Valigia metallica	
Zoom						
28–85 mm f/3.5–4.5	CL-33S	JAE41702	CL-S2	JAE44611		
Micro 105 mm f/2.8	CL-31S	JAE41501	CL-S1	JAE44601		
35–105 mm f/3.5–4.5	CL-33S	JAE41702	CL-S2	JAE44611		
35–135 mm f/3.5–4.5	CL-15S	JAE40603	CL-S2	JAE44611		
35–200 mm f/3.5–4.5	CL-13A	JAE40402	CL-S3	JAE44621		
70–210 mm f/4.5–5.6 D	CL-41	JAE43101				
100–300 mm f/5.6	CL-40	JAE43001				
Special/Speciale						
PC Nikkor 28 mm f/3.5	CL-34A	JAE41801	CL-S1	JAE44601		
PC Nikkor 85 mm f/2.8 D	CL-75	JAE44801	CL-S1	JAE44601		
Micro 55 mm f/2.8	CL-31S	JAE41501	CL-S1	JAE44601		
Micro 55 mm f/2.8 mit PK-13	CL-33S	JAE41702				
Micro 105 mm f/2.8	CL-33S	JAE41702				
Micro 105 mm f/2.8 mit PN-11	CL-35A	JAE41901				
Micro 200 mm f/4.0 IF	CL-36	JAE42001				
Reflex 500 mm f/8.0	CL-39	JAE42901				
Reflex 1000 mm f/11.0	CL-29	JAE41301				
Teleconverter TC-14A	CL-30S	JAE41401	CL-S1	JAE44601		
Teleconverter TC-14B	CL-30S	JAE41401	CL-S1	JAE44601		
Teleconverter TC-14E	CL-30S	JAE41401	CL-S1	JAE44601		
Teleconverter TC-20E	CL-31S	JAE41501	CL-S2	JAE44611		
Teleconverter TC-201	CL-30S	JAE41401	CL-S1	JAE44601		
Teleconverter TC-301	CL-33S	JAE41702				

 supplied/incluso

EL NIKKOR ENLARGING LENSES • OBIETTIVI D'INGRANDIMENTO EL-NIKKOR

EL-Nikkor Lenses Obiettivi EL-Nikkor	Focal length Lunghezza focale	Minimum aperture ratio Apertura minima	Optical construction Schema ottico	Picture ratio optimal Ingrandimento standard	Picture ratio possible Ingrandimento massimo	Angle of field Angolo di campo	Corrected for frequency range Spettro delle lunghezze d'onda corrette	Lens field Ø (mm) Diagonale dell'originale Ø (mm)	Format size (mm) Formato dell'originale (mm)	Weight Peso	Dimensions Ø (mm) Dimensioni (mm)	Filter thread Ø (mm) Diametro ghiera portafiltri anteriore (mm)	Attachment size Ø Diametro ghiera posteriore
40 mm f/4.0	40,1 mm	f/22	6-4	10×	5×-30×	52°	380-700 nm	40,5	24×36	100	52×39	40,5×0,5	39×1
50 mm f/2.8	50 mm	f/16	6-4	8×	2×-20×	46°	380-700 nm	43,2	24×36	105	51×39	40,5×0,5	39×1
63 mm f/2.8	63 mm	f/16	6-4	8×	2×-20×	46°	380-700 nm	55,2	32×45	120	51×42,5	40,5×0,5	39×1
75 mm f/4.0	75 mm	f/22	4-3	5×	2×-10×	52°	380-700 nm	80	60×60	90	51×33	40,5×0,5	39×1
80 mm f/5.6	80 mm	f/32	6-4	5×	2×-15×	56°	380-700 nm	95	60×70	100	51×38,5	40,5×0,5	39×1
105 mm f/5.6	105 mm	f/32	6-4	5×	2×-10×	51°	380-700 nm	120	60×90	110	51×40	40,5×0,5	39×1
135 mm f/5.6	135 mm	f/45	6-4	5×	2×-10×	53°	380-700 nm	160	90×120	190	56×47,5	52×0,75	39×1 50×0,75
150 mm f/5.6	150 mm	f/45	6-4	4×	2×-8×	51°	380-700 nm	180	100×130	210	56×50,2	52×0,75	39×1 50×0,75
180 mm f/5.6A	179,6 mm	f/45	6-4	4×	2×-8×	54°	380-700 nm	230	130×180	430	77×62	72×1	72×1
210 mm f/5.6	210 mm	f/45	6-4	4×	2×-8×	54°	380-700 nm	270	130×210	600	82×77	68×0,75	72×1
240 mm f/5.6	240 mm	f/45	6-4	4×	2×-4×	57°	300-700 nm	330	180×240	860	97×77,5	86×1	90×1
300 mm f/5.5	300 mm	f/45	6-4	4×	1×-8×	57°	380-700 nm	410	270×330	1190	97×94	86×1	90×1

EL-Nikkor 40 mm f/4.0 N

Order code	JNA005AA
Focal length	40.1 mm
Maximum aperture ratio	1:4.0
Picture angle	52°
Optical construction	6 elements in 4 groups
Standard magnification	10 ×
Magnification range	5 × – 30 ×
Aperture range	4.0–22
Corrected for wavelength range	380–700 nm
Diameter of original	40.5 mm ∅
Format size	24 mm × 36 mm
Dimensions	52 mm ∅ × 39 mm
Weight	100 g
Attachment size (dia × pitch)	40.5 mm ∅ × 0.5 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26"



EL-Nikkor 50 mm f/2.8 N

Order code	JNA001AC
Focal length	50 mm
Maximum aperture ratio	1:2.8
Picture angle	46°
Optical construction	6 elements in 4 groups
Standard magnification	8 ×
Magnification range	2 × – 20 ×
Aperture range	2.8–16
Corrected for wavelength range	380–700 nm
Diameter of original	43.2 mm ×
Format size	24 mm × 36 mm
Dimensions	51 mm ∅ × 39 mm
Weight	105 g
Attachment size (dia × pitch)	40.5 mm ∅ 0.5 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26"



EL-Nikkor 63 mm f/2.8 N

Order code	JNA004AA
Focal length	63 mm
Maximum aperture ratio	1:2.8
Picture angle	46°
Optical construction	6 elements in 4 groups
Standard magnification	8 ×
Magnification range	2 × – 20 ×
Aperture range	2.8–16
Corrected for wavelength range	380–700 nm
Diameter of original	55.2 mm ∅
Format size	32 mm × 45 mm
Dimensions	51 mm ∅ × 42.5 mm
Weight	120 g
Attachment size (dia × pitch)	40.5 mm ∅ × 0.5 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26"



EL-Nikkor 75 mm f/4.0 N

Order code	JNA101AB
Focal length	75 mm
Maximum aperture ratio	1:4.0
Picture angle	52°
Optical construction	4 elements in 3 groups
Standard magnification	5 ×
Magnification range	2 × – 10 ×
Aperture range	4.0–22
Corrected for wavelength range	380–700 nm
Diameter of original	80 mm ∅
Format size	60 mm × 60 mm
Dimensions	51 mm ∅ × 33 mm
Weight	90 g
Attachment size (dia × pitch)	40.5 mm ∅ × 0.5 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26"



EL-Nikkor 80 mm f/5.6 N

Order code	JNA102AB
Focal length	80 mm
Maximum aperture ratio	1:5.6
Picture angle	53°
Optical construction	6 elements in 4 groups
Standard magnification	5 ×
Magnification range	2 × – 15 ×
Aperture range	5.6–32
Corrected for wavelength range	380–700 nm
Diameter of original	95 mm ∅
Format size	60 mm × 70 mm
Dimensions	51 mm ∅ × 38,5 mm
Weight	100 g
Attachment size (dia × pitch)	40.5 mm ∅ × 0.5 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26"



EL-Nikkor 105 mm f/5.6

Order code	JNA103AB
Focal length	105 mm
Maximum aperture ratio	1:5.6
Picture angle	51°
Optical construction	6 elements in 4 groups
Standard magnification	5 ×
Magnification range	2 × – 10 ×
Aperture range	5.6–32
Corrected for wavelength range	380–700 nm
Diameter of original	120 mm ∅
Format size	60 mm × 90 mm
Dimensions	51 mm ∅ × 40 mm
Weight	110 g
Attachment size (dia × pitch)	40.5 mm ∅ × 0.5 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26"



EL-Nikkor 135 mm f/5.6 N

Order code	JNA201AC
Focal length	135 mm
Maximum aperture ratio	1:5.6
Picture angle	53°
Optical construction	6 elements in 4 groups
Standard magnification	5 ×
Magnification range	2 × – 10 ×
Aperture range	5.6 – 45
Corrected for wavelength range	380–700 nm
Diameter of original	160 mm ∅
Format size	90 mm × 120 mm
Dimensions	56 mm ∅ × 47.5 mm
Weight	190 g
Attachment size (dia × pitch)	52 mm ∅ × 0.75 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/26" 50 mm ∅ × 0.75 mm



EL-Nikkor 150 mm f/5.6 N

Order code	JNA202AA
Focal length	150 mm
Maximum aperture ratio	1:5.6
Picture angle	51°
Optical construction	6 elements in 4 groups
Standard magnification	4 ×
Magnification range	2 × – 8 ×
Aperture range	5.6–45
Corrected for wavelength range	380–700 nm
Diameter of original	180 mm ∅
Format size	100 mm × 130 mm
Dimensions	56 mm ∅ × 50.2 mm
Weight	210 g
Attachment size (dia × pitch)	52 mm ∅ × 0.75 mm
Rear mount size (dia × pitch)	39 mm ∅ × 1/25" 50 mm ∅ × 0.75 mm



Reversing adapters

Order code	ELUM1/JNW00101
Reversing adapter	40 mm f/4.0
EL Nikkor 40.5 mm Ø	50 mm f/2.8
	63 mm f/2.8
	75 mm f/4.0
	80 mm f/5.6
	105 mm f/5.6

Order code	ELUM3/JNW00401
Reversing adapter	135 mm f/5.6
EL Nikkor 52 mm Ø	150 mm f/5.6

Order code	ELUM3/JNW00201
Reversing adapter	52 mm Ø
EL Nikkor 34.5 mm Ø	
(old model)	75 mm f/4.0



Lens cover

(EL lenses)

Order code	EL2/JND00201
Lens cover	40 mm f/4.0
40.5 mm Ø	50 mm f/2.8
	63 mm f/2.8
	75 mm f/4.0
	80 mm f/5.6
	105 mm f/5.6

Order code	FA46/JAD00102
Lens cover	135 mm f/5.6
52 mm Ø	150 mm f/5.6

Order code	EL1/JND00101
Lens cover	75 mm f/f4
34.5 mm Ø	for EL-Nikkore (old model)

Order code	EL3/JND00301
Lens cover	
43 mm Ø	135 mm f/5.6

Extension ring

Order code	ELV/JXA16010
Extension ring	
for EL-Nikkor	50 mm–135 mm

TABULAR SUMMARY • TAVOLA SINOTTICA

Nikkor lenses for large-format cameras Obiettivo Nikkor per grande formato

Lens Obiettivo		Shift range/Tratto di spostamento			
		Aperture range Gamma dei diaframmi	Angle of coverage by f/22 Angolo di campo a f/22	Image circle by f/22 Cerchio d'immagine a f/22	Sinar DB
Nikkor M 200 mm	f/8.0	8,0–64	55°	210 mm	
Nikkor M 300 mm	f/9.0	9,0–128	57°	325 mm	●
Nikkor M 450 mm	f/9.0	9,0–128	52°	440 mm	●
Nikkor W 105 mm	f/5.6	5,6–45	73°	155 mm	
Nikkor W 135 mm	f/5.6	5,6–64	73°	200 mm	●
Nikkor W 150 mm	f/5.6	5,6–64	70°	210 mm	●
Nikkor W 180 mm	f/5.6	5,6–64	70°	253 mm	●
Nikkor W 210 mm	f/5.6	5,6–64	70°	295 mm	●
Nikkor W 240 mm	f/5.6	5,6–64	70°	333 mm	●
Nikkor W 300 mm	f/5.6	5,6–64	70°	420 mm	●
Nikkor W 360 mm	f/6.5	5,6–64	69°	494 mm	
Nikkor SW 65 mm	f/4.0	4,0–45	105° f/16	170 mm f/16	
Nikkor SW 75 mm	f/4.5	4,5–45	106° f/16	200 mm f/16	●
Nikkor SW 90 mm	f/4.5	4,5–64	105° f/16	235 mm f/16	●
Nikkor SW 90 mm	f/8.0	8,0–64	105°	235 mm	●
Nikkor SW 120 mm	f/8.0	8,0–64	105°	312 mm	
Nikkor SW 150 mm	f/8.0	8,0–64	106°	400 mm	
Nikkor T 270 mm	f/6.3 ED	6,3–64	32°	154 mm	
Nikkor T 360 mm	f/8.0 ED	8,0–64	32°	205 mm	
Nikkor T 500 mm	f/11.0 ED	11,0–64	24°	210 mm	
Nikkor T 600 mm	f/9.0 ED	9,0–64	29°	310 mm	
Nikkor T 720 mm	f/16.0 ED	16,0–64	17°	210 mm	
Nikkor T 800 mm	f/12.0 ED	12,0–64	22°	310 mm	
Nikkor T 1200 mm	f/18.0 ED	18,0–64	15°	310 mm	
Apo Micro Nikkor 120 mm	f/5.6 ED	5,6–45	55°	250 mm	●
Apo Micro Nikkor 210 mm	f/5.6 ED	5,6–64	51°	400 mm	●

Nikkor M 200 mm f/8.0

Order code	JGA707AA
Focal length	200 mm
Maximum aperture ratio	1:8.0
Optical construction	4 elements in 3 groups
Aperture range	8.0–64
Angle of coverage f/5.6	45°
Angle of coverage f/22	55°
Image circle f/5.6	166 mm
Image circle f/22	210 mm (5 × 7")
Shutter	Copal no. 0
Shutter speeds	1–1/500 sec T, B
Front mount size	54 mm
Attachment size	52 mm \varnothing × 0.75 mm
Rear mount size	31.5 mm
Flange attachment size	32.5 mm
Flange focal distance	193.7 mm
Overall length	43 mm
Weight	180 g



Nikkor M 300 mm f/9.0

Order code	JGA703AA
Focal length	300 mm
Maximum aperture ratio	1:9.0
Optical construction	4 elements in 3 groups
Aperture range	9.0–128
Angle of coverage f/9	55°
Angle of coverage f/22	57°
Image circle f/9	312 mm
Image circle f/22	325 mm (8 × 10")
Shutter	Copal no 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronisation	X-contact
Front mount size	54 mm
Attachment size	52 mm \varnothing × 0.75 mm
Rear mount size	42 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	293.8 mm
Overall length	43 mm
Weight	290 g



Nikkor M 450 mm f/9.0

Order code	JGA705AA
Focal length	450 mm
Maximum aperture ratio	1:9.0
Optical construction	4 elements in 3 groups
Aperture range	9.0–128
Angle of coverage f/9	50°
Angle of coverage f/22	52°
Image circle f/9	420 mm
Image circle f/22	440 mm (10 × 12")
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	60 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
Flange focal distance	435.8 mm
Overall length	55 mm
Weight	640 g



Nikkor W 105 mm f/5.6

Order code	JGA615AA
Focal length	105 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–45
Angle of coverage f/5.6	60°
Angle of coverage f/22	73°
Image circle f/5.6	121 mm
Image circle f/22	155 mm (4 × 5")
Shutter	Copal no. 0
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	54 mm
Attachment size	52 mm \varnothing × 0.75 mm
Rear mount size	42 mm
Flange attachment size	32.5 mm
Flange focal distance	103.2 mm
Overall length	44 mm
Weight	185 g



Nikkor W 135 mm f/5.6

Order code	JGA603AC
Focal length	135 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	60°
Angle of coverage f/22	73°
Image circle f/5.6	156 mm
Image circle f/22	200 mm (4 × 5")
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	54 mm
Attachment size	52 mm \varnothing × 0.75 mm
Rear mount size	42 mm
Flange attachment size	32.5 mm \varnothing × 0.5 mm
Flange focal distance	133.8 mm
Overall length	46 mm
Weight	200 g



Nikkor W 150 mm f/5.6

Order code	JGA605AB
Focal length	150 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	60°
Angle of coverage f/22	70°
Image circle f/5.6	174 mm
Image circle f/22	210 mm (13 × 18 cm)
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	54 mm
Attachment size	52 mm \varnothing × 0.75 mm
Rear mount size	42 mm
Flange attachment size	32.5 mm \varnothing × 0.5 mm
Flange focal distance	149.2 mm
Overall length	50 mm
Weight	230 g



Nikkor W 180 mm f/5.6

Order code	JGA607AA
Focal length	180 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	60°
Angle of coverage f/22	70°
Image circle f/5.6	208 mm
Image circle f/22	253 mm (13 × 18 cm)
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	54 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	178.8 mm
Overall length	60.5 mm
Weight	380 g



Nikkor W 210 mm f/5.6

Order code	JGA609AB
Focal length	210 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	60°
Angle of coverage f/22	70°
Image circle f/5.6	243 mm
Image circle f/22	295 mm (16 × 21cm)
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec. T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	60 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	209.1 mm
Overall length	69 mm
Weight	460 g



Nikkor W 240 mm f/5.6

Order code	JGA611AA
Focal length	240 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	60°
Angle of coverage f/22	70°
Image circle f/5.6	278 mm
Image circle f/22	333 mm (8 × 10")
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec. T, B
Flash synchronization	X-contact
Front mount size	85 mm
Attachment size	82 mm \varnothing × 0.75 mm
Rear mount size	60 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
Flange focal distance	227.3 mm
Overall length	77 mm
Weight	820 g



Nikkor W 300 mm f/5.6

Order code	JGA613AA
Focal length	300 mm
Maximum aperture ratio	1:5.6
Optical construction	6 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	60°
Angle of coverage f/22	70°
Image circle f/5.6	346 mm
Image circle f/22	420 mm (10 × 12")
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec, T, B
Flash synchronization	X-contact
Front mount size	100 mm
Attachment size	95 mm \varnothing × 1 mm
Rear mount size	80 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
Flange focal distance	287.1 mm
Overall length	94.5 mm
Weight	1250 g



Nikkor W 360 mm f/6.5

Order code	JGA617AA
Focal length	360 mm
Maximum aperture ratio	1:6.5
Optical construction	6 elements in 4 groups
Aperture range	6.5–64
Angle of coverage f/6.5	60°
Angle of coverage f/22	69°
Image circle f/6.5	415 mm
Image circle f/22	494 mm (11 × 14")
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec, T, B
Flash synchronisation	X-contact
Front mount size	100 mm
Attachment size	95 mm \varnothing × 1 mm
Rear mount size	80 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
Flange focal distance	345.8 mm
Overall length	107.5 mm
Weight	1420 g



Nikkor SW 65 mm f/4.0

Order code	JGA501AB
Focal length	65 mm
Maximum aperture ratio	1:4.0
Optical construction	7 elements in 4 groups
Aperture range	4.0–45
Angle of coverage f/4	80°
Angle of coverage f/16	105°
Image circle f/4	110 mm
Image circle f/16	170 mm (4 × 5")
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	54 mm
Flange attachment size	32.5 mm \varnothing × 0.5 mm
Flange focal distance	70.8 mm
Overall length	67 mm
Weight	370 g



Nikkor SW 75 mm f/4.5

Order code	JGA503AB
Focal length	75 mm
Maximum aperture ratio	1:4.5
Optical construction	7 elements in 4 groups
Aperture range	4.5–45
Angle of coverage f/4.5	80°
Angle of coverage f/16	106°
Image circle f/4.5	126 mm
Image circle f/16	200 mm (120 × 166 mm)
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	60 mm
Flange attachment size	32.6 mm \varnothing × 0.5 mm
Flange focal distance	81.3 mm
Overall length	73.5 mm
Weight	420 g



Nikkor SW 90 mm f/4.5

Order code	JGA505AC
Focal length	90 mm
Maximum aperture ratio	1:4.5
Optical construction	7 elements in 4 groups
Aperture range	4.5–54
Angle of coverage f/4.5	80°
Angle of coverage f/16	105°
Image circle f/4.5	154 mm
Image circle f/16	235 mm (13 × 18 cm)
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	85 mm
Attachment size	82 mm \varnothing × 0.75 mm
Rear mount size	70 mm
Flange attachment size	32.5 mm \varnothing × 0.5 mm
Flange focal distance	97.4 mm
Overall length	86.7 mm
Weight	600 g



Nikkor SW 90 mm f/8.0

Order code	JGA507AB
Focal length	90 mm
Maximum aperture ratio	1:8.0
Optical construction	8 elements in 4 groups
Aperture range	8.0–64
Angle of coverage f/8.0	80°
Angle of coverage f/22	105°
Image circle f/8.0	154 mm
Image circle f/22	235 mm (13 × 18 cm)
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm \varnothing
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	60 mm
Flange attachment size	32.5 mm \varnothing × 0.5 mm
Flange focal distance	97 mm
Overall length	71 mm
Weight	360 g



Nikkor SW 120 mm f/8.0

Order code	JGA509AB
Focal length	120 mm
Maximum aperture ratio	1:8.0
Optical construction	8 elements in 4 groups
Aperture range	8.0–64
Angle of coverage f/8	80°
Angle of coverage f/22	105°
Image circle f/8	200 mm
Image circle f/22	312 mm (8 × 10")
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 Sec, T, B
Flash synchronization	X-contact
Front mount size	80 mm
Attachment size	77 mm \varnothing × 0.75 mm
Rear mount size	80 mm
Flange attachment size	32.5 mm \varnothing × 0.5 mm
Flange focal distance	130.7 mm
Overall length	92.5 mm
Weight	610 g



Nikkor SW 150 mm f/8.0

Order code	JGA511AA
Focal length	150 mm
Maximum aperture ratio	1:8.0
Optical construction	8 elements in 4 groups
Aperture range	8–64
Angle of coverage f/8	80°
Angle of coverage f/22	106°
Image circle f/8	253 mm
Image circle f/22	400 mm (10 × 12")
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	100 mm
Attachment size	95 mm \varnothing × 1 mm
Rear mount size	100 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	165.9 mm
Overall length	115.5 mm
Weight	950 g



Nikkor T 270 mm f/6.3 ED

Order code	JGA801AA
Focal length	270 mm
Maximum aperture ratio	1:6.3
Optical construction	5 elements in 4 groups
Aperture range	6.3–64
Angle of coverage f/5.3	21°
Angle of coverage f/22	32°
Image circle f/6.3	100 mm
Image circle f/22	154 mm (4 × 5")
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	42 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	182.6 mm
Overall length	98 mm
Weight	400 g



Nikkor T 360 mm f/8.0 ED

Order code	JGA803AA
Focal length	360 mm
Maximum aperture ratio	1:8.0
Optical construction	5 elements in 4 groups
Aperture range	8–64
Angle of coverage f/8	24°
Angle of coverage f/22	32°
Image circle f/8	154 mm
Image circle f/22	205 mm (13 × 18 cm)
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	60 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	260.2 mm
Overall length	124 mm
Weight	450 g



ED-Nikkor T 500 mm f/11.0

Order code	JGA806AA
Focal length	500 mm
Maximum aperture ratio	1:11
Optical construction	6 elements in 4 groups
Aperture range	11–64
Angle of coverage f/11	17°
Angle of coverage f/22	24°
Image circle f/11	154 mm
Image circle f/22	210 mm (13 × 18 cm)
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	54 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	349.9 mm
Overall length	128.5 mm
Weight	760 g



ED-Nikkor T 600 mm f/9.0

Order code	JGA809AA
Focal length	600 mm
Maximum aperture ratio	1:9
Optical construction	6 elements in 5 groups
Aperture range	9–64
Angle of coverage f/9	19°
Angle of coverage f/22	29°
Image circle f/9	200 mm
Image circle f/22	310 mm (16 × 21 cm)
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec, T, B
Flash synchronization	X-contact
Front mount size	90 mm
Attachment size	86 mm \varnothing × 1 mm
Rear mount size	80 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
Flange focal distance	409.6 mm
Overall length	175.5 mm
Weight	1550 g



ED-Nikkor T 720 mm f/16.0

Order code	JGA820AA
Focal length	720 mm
Maximum aperture ratio	1:16
Optical construction	7 elements in 4 groups
Aperture range	16–64
Angle of coverage f/16	12°
Angle of coverage f/22	17°
Image circle f/16	154 mm
Image circle f/22	210 mm (5 × 7")
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	54 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	469.2 mm
Overall length	124.1 mm
Weight	780 g



ED-Nikkor T 800 mm f/12.0

Order code	JGA812AA
Focal length	800 mm
Maximum aperture ratio	1:12
Optical construction	7 elements in 5 groups
Aperture range	12–64
Angle of coverage f/12	14°
Angle of coverage f/22	22°
Image circle f/12	200 mm
Image circle f/22	310 mm (16 × 21 cm)
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec, T, B
Flash synchronization	X-contact
Front mount size	90 mm
Attachment size	86 mm \varnothing × 1 mm
Rear mount size	70 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
Flange focal distance	528.3 mm
Overall length	176.5 mm
Weight	1500 g



ED-Nikkor T 1200 mm f/18.0

Order code	JGA815AA
Focal length	1200 mm
Maximum aperture ratio	1:18
Optical construction	8 elements in 5 groups
Aperture range	18–64
Angle of coverage f/18	10°
Angle of coverage f/22	15°
Image circle f/18	200 mm
Image circle f/22	310 mm (8 × 10")
Shutter	Copal no. 3, special model for Nikon
Shutter speeds	1–1/125 sec, T, B
Flash synchronization	X-contact
Front mount size	100 mm
Attachment size	85 mm \varnothing × 1 mm
Rear mount size	60 mm
Flange attachment size	62 mm \varnothing × 0.75 mm
focal distance	755.7 mm
Overall length	179 mm
Weight	1480 g



Rear Lens Groups for Nikkor T Large-format Lenses

Elementi ottici posteriori per obiettivi ED Nikkor T per grande formato

By changing the rear lens group in the following Nikkor T large-format lenses, it is possible to alter the focal length without any loss of quality.

Sostituendo il gruppo di elementi ottici posteriori degli obiettivi Nikkor T dell'elenco seguente, si può, senza alcuna perdita di qualità, modificarne la lunghezza focale.

Basic Lens	Interchangeable Lens group	Ordering code	New focal length
360 mm f/8.0 ED	500 mm f/11.0 ED	JGA808AA	500 mm f/11.0 ED
360 mm f/8.0 ED	720 mm f/16.0 ED	JGA821AA	720 mm f/16.0 ED
500 mm f/11.0 ED	360 mm f/8.0 ED	JGA805AA	360 mm f/8.0 ED
500 mm f/11.0 ED	720 mm f/16.0 ED	JGA821AA	720 mm f/16.0 ED
600 mm f/9.0 ED	800 mm f/12.0 ED	JGA814AA	800 mm f/12.0 ED
600 mm f/9.0 ED	1200 mm f/18.0 ED	JGA816AA	1200 mm f/18.0 ED
720 mm f/16.0 ED	360 mm f/8.0 ED	JGA805AA	360 mm f/8.0 ED
720 mm f/16.0 ED	500 mm f/11.0 ED	JGA808AA	500 mm f/11.0 ED
800 mm f/12.0 ED	600 mm f/9.0 ED	JGA811AA	600 mm f/9.0 ED
800 mm f/12.0 ED	1200 mm f/18.0 ED	JGA816AA	1200 mm f/18.0 ED
1200 mm f/18.0 ED	600 mm f/9.0 ED	JGA811AA	600 mm f/9.0 ED
1200 mm f/18.0 ED	800 mm f/12.0 ED	JGA814AA	800 mm f/12.0 ED

Obiettivo di base	Elemento ottico posteriore	Codice di comando	Focale ottenuta
360 mm f/8.0 ED	500 mm f/11.0 ED	JGA808AA	500 mm f/11.0 ED
360 mm f/8.0 ED	720 mm f/16.0 ED	JGA821AA	720 mm f/16.0 ED
500 mm f/11.0 ED	360 mm f/8.0 ED	JGA805AA	360 mm f/8.0 ED
500 mm f/11.0 ED	720 mm f/16.0 ED	JGA821AA	720 mm f/16.0 ED
600 mm f/9.0 ED	800 mm f/12.0 ED	JGA814AA	800 mm f/12.0 ED
600 mm f/9.0 ED	1200 mm f/18.0 ED	JGA816AA	1200 mm f/18.0 ED
720 mm f/16.0 ED	360 mm f/8.0 ED	JGA805AA	360 mm f/8.0 ED
720 mm f/16.0 ED	500 mm f/11.0 ED	JGA808AA	500 mm f/11.0 ED
800 mm f/12.0 ED	600 mm f/9.0 ED	JGA811AA	600 mm f/9.0 ED
800 mm f/12.0 ED	1200 mm f/18.0 ED	JGA816AA	1200 mm f/18.0 ED
1200 mm f/18.0 ED	600 mm f/9.0 ED	JGA811AA	600 mm f/9.0 ED
1200 mm f/18.0 ED	800 mm f/12.0 ED	JGA814AA	800 mm f/12.0 ED

Apo-Micro-Nikkor ED 120 mm f/5.6

Order code	JGA901AB
Focal length	120 mm
Maximum aperture ratio	1:5.6
Optical construction	8 elements in 4 groups
Aperture range	5.6–45
Angle of coverage f/5.6	47°
Angle of coverage f/22	55°
Image circle (5.6 M 1 :1)	210 mm
Image circle (22 M 1 :1)	250 mm
Shutter	Copal no. 0, special model for Nikon
Shutter speeds	1–1/500 sec, T, B
Flash synchronization	X-contact
Front mount size	54 mm
Attachment size	52 mm \varnothing × 0.75 mm
Rear mount size	42 mm
Flange attachment size	32.5 × 0.5 mm
Flange focal distance	115.9 mm
Overall length	64 mm
Weight	295 g



Apo-Micro-Nikkor ED 210 mm f/5.6

Order code	JGA903AA
Focal length	210 mm
Maximum aperture ratio	1:5.6
Optical construction	8 elements in 4 groups
Aperture range	5.6–64
Angle of coverage f/5.6	41°
Angle of coverage f/22	51°
Image circle (f/5.6 M 1 :1)	310 mm
Image circle (f/22 M 1 :1)	400 mm (10 × 12")
Shutter	Copal no. 1, special model for Nikon
Shutter speeds	1–1/400 sec, T, B
Flash synchronization	X-contact
Front mount size	70 mm
Attachment size	67 mm \varnothing × 0.75 mm
Rear mount size	70 mm
Flange attachment size	39 mm \varnothing × 0.75 mm
Flange focal distance	202,7 mm
Overall length	104.5 mm
Weight	850 g



Tabular summary

Tavola sinottica



SB-23 AF Flash unit
SB-23 Lampeggiatore AF



SB-28 AF Flash
SB-28 Lampeggiatore AF



SB-16 Flash unit
SB-16 Lampeggiatore



SB-28 DX AF Flash
SB-28 DX
Lampeggiatore AF



SB-17 Flash unit
SB-17 Lampeggiatore



SB-27 AF Flash
SB-27 Lampeggiatore AF



SB-29 AF Macro flash
SB-29 AF Lampeggiatore
Macro



SB-50 DX AF Flash
SB-50 DX
Lampeggiatore AF



Flash accessories
Accessori
di lampeggiatore



SB-22s AF Flash
SB-22s Lampeggiatore AF

TABULAR SUMMARY • TAVOLA SINOTTICA

Nikon	SB-28	SB-28DX	SB-27	SB-50DX	SB-22S	SB-23	SB-16A	SB-16B	SB-17	SB-29
Guide number (ISO 100) Numero guida (ISO 100)	18–50	18–50	34	12–26	25	20	32	32	25	11
Angle of coverage (mm) Copertura di campo (mm)	18–85	18–85	24–50	14–50	28–35	35	24–85	24–85	28–35	H: 20 V: 24
Rotatable reflector Parabola ruotabile	●	●	–	●	–	–	–	–	–	–
Inclinable reflector Parabola inclinabile	●	●	●	●	●	–	●	●	●	–
Zoom-Reflector Parabola zoom	●	●	●	●	–	–	–	–	–	–
Automatic zoom setting Regolazione zoom automatica	●	●	F5/F90X/F70	●	–	–	–	–	–	–
Sync terminal Contatto di sincronizzazione	●	●	●	–	●	–	–	–	●	●
TTL-terminal (for additional flash) Contatto TTL (per un secondo flash)	●	●	–	–	–	–	●	●	●	●
Terminal for external battery pack SD-7/SD-8 Contatto per alimentatore esterno SD-7/SD-8	●	●	●	–	●	–	●	●	–	●
AF-Illuminator Illuminatore AF	●	●	●	●	●	●	–	–	–	●
LCD-Display Display-LCD	●	●	●	●	–	–	–	–	–	–
Stroboscopic flash Flash stroboscopico	●	●	–	–	–	–	–	–	–	–
STBY position Commutatore STBY	●	●	●	●	●	●	–	–	–	●
Dimensions (mm) H Dimensioni (mm) A	128	128	70	63	105	64	166,5	144	42	133
W L	69	69	107	107	80	67	82	82	101	119
D P	90	90	97	105	68	84	100	100	90	28,5
Weight (without batteries) Peso (senza batterie)	320 g	320 g	340 g	235 g	250 g	140 g	485 g	445 g	300 g	410 g

	Camera	SB-28	SB-28DX	SB-27	SB-50DX	SB-22S	SB-23	SB-16A	SB-16B	SB-17	SB-29	Prodotto	
	Nikon D1 series	-	-	-	-	-	-	-	-	-	-	Nikon D1 Series	
TTL	TTL-3D multi-sensor balanced fill flash (with AF-D lenses)	-	●	-	●	-	-	-	-	-	-	Fill-Flash con bilanciamento a sensore multiplo 3D (con obiettivi AF-D)	TTL
	TTL multi-sensor balanced fill flash	-	●	-	●	-	-	-	-	-	-	Fill-Flash con bilanciamento a sensore multiplo 3D	
	Matrix-balanced TTL fill flash	-	●	-	●	-	-	-	-	-	-	Bilanciamento del bianco TTL attraverso la misurazione color matrix 3D	
	TTL auto flash	-	●	-	●	-	-	-	-	-	-	Modalità auto flash TTL	
	TTL flash synchronisation at 1/500 sec	-	●	-	●	-	-	-	-	-	-	Synchro Flash TTL rapido 1/500 s	
A	Computer auto flash	●	●	●	-	●	-	-	●	-	-	Modalità flash auto	A
M	Manual control	●	●	●	●	●	●	-	●	-	●	Modalità flash manuale	M
	Rear-curtain synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione sul secondo (Rear)	
	Slow synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione lenta (Slow)	
	FP high-speed synchronisation 1/250 sec – 1/4000 sec	●	●	-	●	-	-	-	-	-	-	Sincronizzazione ultra rapida da 1/250 s a 1/4000 s	
	Nikon F5											Nikon F5	
TTL	TTL-3D multi-sensor balanced fill flash (with AF-D lenses)	●	●	●	●	-	-	-	-	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D (con obiettivi AF-D)	TTL
	TTL multi-sensor balanced fill flash	●	●	●	●	-	-	-	-	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D	
	Matrix-balanced TTL fill flash	-	-	-	-	-	-	-	-	-	●	Bilanciamento del bianco TTL attraverso la misurazione color matrix 3D	
	TTL auto flash	●	●	●	●	●	●	-	●	-	●	Modalità auto flash TTL	
A	Computer auto flash	●	●	●	●	●	-	-	●	-	-	Modalità auto flash	A
M	Manual control	●	●	●	●	●	●	-	●	-	●	Modalità flash manuale	M
	Rear-curtain synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione sul secondo (Rear)	
	Slow synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione lenta (Slow)	
	Repeating flash (strobe-effect)	●	●	-	-	-	-	-	-	-	-	Flash stroboscopico	
	TTL high-speed balanced at 1/300 sec	●	●	●	●	●	●	-	-	-	-	Synchro Flash TTL rapido 1/300 s	
	FP high-speed synchronisation 1/250 sec – 1/4000 sec	●	●	-	-	-	-	-	-	-	-	-	
	Nikon F100											Nikon F100	
TTL	TTL-3D multi-sensor balanced fill flash (with AF-D lenses)	●	●	●	●	-	-	-	-	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D (con obiettivi AF-D)	TTL
	TTL multi-sensor balanced fill flash	●	●	●	●	●	●	-	-	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D	
	Matrix-balanced TTL fill flash	●	●	●	●	●	●	-	●	-	●	Bilanciamento del bianco TTL attraverso la misurazione color matrix 3D	
	TTL auto flash	●	●	●	●	●	●	-	●	-	●	Modalità auto flash TTL	
A	Computer auto flash	●	●	●	-	●	-	-	●	-	-	Modalità auto flash	A
M	Manual control	●	●	●	●	●	●	-	●	-	●	Modalità flash manuale	M
	Rear-curtain synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione sul secondo (Rear)	
	Slow synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione lenta (Slow)	
	Repeating flash (strobe-effect)	●	●	-	-	-	-	-	-	-	-	Flash stroboscopico	
	FP high-speed synchronisation 1/250 sec – 1/4000 sec	●	●	-	-	-	-	-	-	-	-	-	

	Camera	SB-28	SB-28DX	SB-27	SB-50DX	SB-22S	SB-23	SB-16A	SB-16B	SB-17	SB-29	Prodotto	
	Nikon F90X	-	-	-	-	-	-	-	-	-	-	Nikon F90X	
TTL	TTL-3D multi-sensor balanced fill flash (with AF-D lenses)	●	●	●	●	-	-	-	●	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D (con obiettivi AF-D)	TTL
	TTL multi-sensor balanced fill flash	●	●	●	●	-	-	-	●	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D	
	Matrix-balanced TTL fill flash	-	-	-	●	-	-	-	●	-	●	Bilanciamento del bianco TTL attraverso la misurazione color matrix 3D	
	TTL auto flash	●	●	●	●	●	●	-	●	-	●	Modalità auto flash TTL	
A	Computer auto flash	●	●	●	-	-	-	●	-	-	-	Modalità auto flash	A
M	Manual control	●	●	●	●	-	-	-	●	-	●	Modalità flash manuale	M
	Rear-curtain synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione sul secondo (Rear)	
	Slow synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione lenta (Slow)	
	Repeating flash (strobe-effect)	●	●	-	-	-	-	-	-	-	-	Flash stroboscopico	
	FP high-speed synchronisation 1/250 sec - 1/4000 sec	●	●	-	-	-	-	-	-	-	-	-	
	Nikon F80											Nikon F80	
TTL	TTL-3D multi-sensor balanced fill flash (with AF-D lenses)	●	●	●	●	-	-	-	-	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D (con obiettivi AF-D)	TTL
	TTL multi-sensor balanced fill flash	●	●	●	●	●	●	-	-	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D	
	Matrix-balanced TTL fill flash	●	●	●	●	-	-	-	-	-	●	Bilanciamento del bianco TTL attraverso la misurazione color matrix 3D	
	TTL auto flash	●	●	●	●	●	●	-	●	-	●	Modalità auto flash TTL	
A	Computer auto flash	●	●	●	-	●	-	-	●	-	-	Modalità auto flash	A
M	Manual control	●	●	●	●	●	●	-	●	-	●	Modalità flash manuale	M
	Rear curtain synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione sul secondo (Rear)	
	Slow synchronisation	●	●	-	●	●	●	-	●	-	●	Sincronizzazione lenta (Slow)	
	Repeating flash (strobe-effect)	●	●	-	-	-	-	-	-	-	-	Flash stroboscopico	
	Nikon F65											Nikon F65	
TTL	3D matrix-balanced TTL fill flash	●	●	●	●	●	●	-	●	-	●	Fill-Flash con bilanciamento a sensore multiplo 3D	TTL
	TTL auto flash	●	●	●	●	●	-	-	●	-	-	Modalità auto flash TTL	
A	Computer auto flash	●	●	●	●	●	-	-	●	-	-	Modalità auto flash	A
M	Manual control	●	●	●	●	●	●	-	●	-	●	Modalità flash manuale	M
	Rear-curtain synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione sul secondo (Rear)	
	Slow synchronisation	●	●	●	●	●	●	-	●	-	●	Sincronizzazione lenta (Slow)	
	Repeating flash (strobe-effect)	●	●	-	-	-	-	-	-	-	-	Flash stroboscopico	
	Nikon F3											Nikon F3	
TTL	TTL auto flash	-	-	-	-	-	-	●	-	●	-	Modalità flash auto TTL	TTL
A	Computer auto flash	-	-	-	-	-	-	●	-	●	-	Modalità flash auto	A
M	Manual control	-	-	-	-	-	-	●	-	●	-	Modalità flash manuale	M
	Nikon FM 3A											Nikon FM 3A	
TTL	TTL auto flash	●	●	●	●	●	●	-	●	-	●	Modalità flash auto TTL	TTL
A	Computer auto flash	●	●	●	-	●	-	-	●	-	-	Modalità flash auto	A
M	Manual control	●	●	●	●	●	●	-	●	-	●	Modalità flash manuale	M

AF Speedlight SB-28

Order code	FSA02911
Electronic construction	Automatic insulated Gate Bipolar Transistor (IGBT) and series circuitry; TTL auto flash mode with Nikon D1, F5, F90X, F80, F65; computer auto flash with any Nikon SLR (with wide flash unit coupler AS-4 or AS-7 with Nikon F3)
AF assist illumination	Automatically fires LED beam toward subject when performing autofocus in dim light or in the dark with Nikon AF cameras
Angle of coverage	6 settings, plus 2 with built-in wide flash adapter; in horizontal or vertical position 18 or 20 mm (wide-angle flash diffuser card) 24, 28, 35, 50, 70 and 85 mm flash head in standard position; automatic zoom setting with Nikon D1, F5, F4, F100, F90X, F80, F65, F60, Pronea S and Pronea 600i using AF lenses; manually set with other cameras
Bounce capability	Flash head tilts down to 7° or up to 90°; rotates horizontally 180°; built-in diffuser card unfolds to create catchlights in subject's eyes in bounce-flash and close-up photography
Built-in diffuser card	Built-in wide-angle diffuser card up to 18 mm
Guide number	(ISO 100/21°): 36 (in zoom-head position 35 mm)
Flash modes	OFF/M/AUTO Auto: TTL auto flash: all Nikon cameras with TTL flash control Matrix balanced fill flash with all Nikon AF cameras with matrix exposure metering and use of AF Nikkor lenses (with F5 cameras also with AI lenses) 3D multi-sensor balanced fill flash with Nikon F100, F90X, F80 using D-type AF lenses A: automatic flash control with built-in sensor; available apertures: from f/2.8 to f/8 (ISO 100/21°) M: with manual flash, the flash output can be selected between full output to 1/16; automatic switch-off after approx. 80 sec. after last use of the camera or flash unit, if stand-by is activated
Number of flashes	Depends on automatic features used: approx. 150 if auto is switched off, without use of AF assist illuminator, zoom-head position adjustment, or LCD panel illumination (using fresh alkaline-manganese batteries)
Flash recycling time	Approx. 6.5 sec. depending on the type of auto operation used
Flash shooting range	0.6 to 18 m (ISO 100/21°)



LCD panel	Information or symbols: red-eye reduction; zoom head position, flash modes, under exposure, aperture, indirect flash, exposure compensation, distance measurement system (m or ft), light output/compensation and film speed
Film speed range	With TTL auto: ISO 25/15° to 1000/31°
Ready light	Lights up: unit is ready to fire; blinks: flash-output is too low
Flash exposure compensation	Exposure compensation is possible in 1/3 steps from +1 to -3 EV
Monitor pre-flash	Used with Nikon F100, F90X cameras, the speedlight initiates multiple test flashes to detect the scene's special features
Red-eye reduction	Used with Nikon D1, F100, F90X, F80 cameras, the speedlight fires a pre-flash to prevent red eyes
Hand release	Provided
Safety lock	Fixes the SB-28 to the Nikon camera's accessory shoe
Terminals	For external power source and sync cord
Power source	Four 1.5 V (LR6) alkaline or 1.5 V (FR6) lithium batteries; or 1.2 V NiCD battery pack (KR-AA), or 1.2 V NiMH battery pack; external battery pack SD-8A (optional)
Dimensions	Approx. 69 × 128 × 90 mm (W × H × D)
Weight	320 g (without batteries)

Supplied with:
Bag SS-28

Optional accessories:
External battery pack SD-8A



AF Speedlight SB-28DX

Order code	FSA03101
Electronic construction	Automatic insulated Gate Bipolar Transistor (IGBT) and series circuitry
TTL auto flash mode	TTL auto flash mode with Nikon F5, F4, F90, F90X, F80, F65, F60); computer auto flash with any Nikon SLR camera (with flash unit coupler AS-4 or AS-7 with Nikon F3)
AF assist illumination	Automatically fires LED beam toward subject when performing autofocus in dim light or in the dark with Nikon AF cameras
Angle of coverage	6 settings, plus 2 with built-in wide-angle diffuser card; in horizontal or vertical position 18 or 20 mm; (with diffuser card) 24, 28, 35, 50, 70 and 85 mm, flash head in standard position; automatic zoom setting with Nikon D1, DiX, D1H, F5, F100, F90X, F80, F65, Pronea S and Pronea 600i using AF lenses; manually set with other cameras
Bounce capability	Flash head tilts down to 7° or up to 90°; rotates horizontally 180°
Built-in diffuser card	Built-in wide-angle diffuser card unfolds to create catch-light in subject's eyes in bounce-flash and close-up photography up to 18 mm (ISO 100/21°): 36 (zoom-head position 35 mm)
Guide number	(ISO 100/21°): 36 (zoom-head position 35 mm)
Flash modes	3D multi-sensor balanced fill flash for Nikon D1, D1X (using D-type AF lenses); apart from monitor pre-flash, distance information is also included in metering Multi-sensor balanced fill-flash for D1, D1X, D1H (with AF Nikkor lenses other than D-type); monitor pre-flash meters exposure of main subject and matrix meter meters exposure of background Centre-weighted fill flash for D1, D1X, D1H (AI-type Nikkor lenses); balanced exposure of main subject and background is based on monitor pre-flash results (for exposure of main subject), and centre-weighted exposure metering (for exposure of background) Standard TTL flash for D1, D1X, D1H (with all compatible lenses); auto switch-off approx. 80 sec. after last use of camera and flash unit, if stand-by is activated
Number of flashes	Varies according to auto mode used: approx. 150 if auto is switched off, without use of AF assist illuminator or zoom-head position adjustment (using fresh alkaline-manganese batteries)



Flash recycling time	Approx. 6.5 sec. depending on the type of auto mode used
Flash shooting range	0,6 to 18 m (ISO 100/21°)
LCD panel	Information or symbols: red-eye reduction; zoom-head position, flash modes, under exposure, aperture, indirect flash, exposure compensation, distance measurement system (m or ft), light output/compensation and film speed
Film speed range	With TTL auto flash: ISO 25/15° to 1000/31°
Ready light	Lights up: unit is ready to fire; blinks: flash-output is too low
Flash exposure compensation	Exposure compensation is possible in 1/3 steps from +1 to -3 EV
Monitor pre-flash	Used with Nikon F100, F90X cameras, the speedlight initiates multiple test flashes to detect the scene's special features
Red-eye reduction	Used with Nikon D1, D1X, D1H, F100, F90X, F80 cameras, the speedlight fires a pre-flash to prevent red eyes
Hand release	Provided
Safety lock	Fixes the SB-28DX to the Nikon camera's accessory shoe
Terminals	For external power source and sync cord
Power source	Four 1.5 V (LR6) alkaline or 1.5 V (FR6) lithium batteries, or 1.2 V NiCD battery pack (KR-AA) or 1.2 V NiMH battery pack; external battery pack SD-8A (optional)
Dimensions	Approx. 69 × 128 × 90 mm (W × H × D)
Weight	Approx. 320 g (without batteries)

Supplied with:

Bag SS-28

Optional accessories:

External battery pack SD-8A



Electronic flash unit SB-27

Order code	FSA02711
Light emission control	insulated gate bipolar transistor (IGBT) and series circuitry; automatic flash exposure control (TTL) for all Nikon cameras with TTL sensor; automatic light control for other Nikon cameras
AF illuminator	with Nikon AF camera, automatically fires LED beam toward subject when light conditions are insufficient for automatic focusing
Zoom capability	in horizontal position: 24, 28, 35 and 50 mm; in vertical position: 35, 50 and 70 mm; automatic power zoom with Nikon F4/F90X/F90/F801S/F801/F70 using AF lenses; manually set with other cameras
Flash head	rotates 180° from one horizontal position to the other
Built-in diffuser	unfolds to produce catchlight in bounce flash photography and for close-ups
Guide number	34 (zoom head position 50 mm, ISO 100)
Number of flashes	depends on automatic features used; approx. 140 in manual mode, without use of AF illuminator or zoom operation, using fresh alkaline-manganese batteries
Recycle time	depends on automatic features used; approx. 5 to 30 sec using no features
Shooting distance range	0.6 to 18 m (ISO 100)
Ready light	provided
Flash-readiness check	also visible in viewfinder
Manual operation	possible
TTL film speed range	see exposure calculation table
Settings	OFF/M/AUTO Auto: TTL automatic flash on all Nikon cameras with TTL flash sensor; matrix-controlled fill-flash on all Nikon AF cameras with matrix metering and AF Nikkor lens (on F4 cameras also with AI lenses); 3D matrix fill-flash on Nikon F90/F70 models using AF-D lenses A: automatic flash adjustment using built-in sensor; usable aperture range: f/2.8 to f/8 (ISO 100) M: manual flash, light output is adjustable from full output to 1/16; automatically switches off approx. 80 sec after camera/flash is last operated, in standby mode
Monitor pre-flash	used with Nikon F90/F70 cameras, the flash unit initiates multiple test flashes to detect the scene's special features
Red-eye reduction	used with Nikon F90/F70 cameras, the flash unit initiates a pre-flash to prevent red-eye



Flash exposure compensation	exposure compensation is possible in steps of one third from +1 to -3 LW, provided the camera type offers this feature; see exposure calculation table
Safety lock	fixes the SB-27 to the Nikon camera's accessory shoe
LCD panel	information and symbols; red-eye reduction, zoom head position, flash setting, underexposure, working aperture, indirect flash, exposure compensation, measurement system (m or ft), light output/compensation and film speed
Terminals	for external power source and sync cord
Power source	four 1.5 V LR6/AM3 or NiCd batteries; separate SD-7/SD-8 battery unit
Dimensions	70 × 107 × 97 mm (H × W × D)
Weight	340 g (without batteries)

Supplied with:
Bag SS-27

Accessories:
Battery unit SD-8



Speedlight SB-50DX

Order number	FSA03201
Electronic construction	Automatic Insulated Gate Bipolar Transistor (IGBT) and series circuitry
TTL auto flash mode	TTL auto flash mode with Nikon D1 series, F5, F100, F80, F65
Computer auto flash	Manual control: full output
Guide number	12–26 (with ISO 100/21°)
Angle of coverage	24 mm; 14 mm with wide-angle diffuser card
Flash recycling time	Approx. 3.5 sec.
Number of flashes	Approx. 260
AF assist illumination	Automatically fires LED beam toward subject when performing autofocus in dim light or in the dark with Nikon AF cameras
Diffuser	Attach diffuser to the camera's built-in speedlight for double-flash (bounce) operation
Infrared filter	SW-91R enables use of SB 50DX as an infrared remote control
Power source	Two 3VCR 123 lithium batteries
Dimensions	63 × 107 × 105 mm (W × H × D)
Weight	235 g (without batteries)

Supplied with:

Soft case SS-50
Infrared filter SW-91R



AF Speedlight SB-22S

Order code	FSA02301
Electronic construction	Automatic insulated Gate Bipolar Transistor (IGBT) and series circuitry
TTL auto flash mode	TTL auto flash mode with Nikon F5, F4, F100, F90X, F80 and F65 (older cameras see combination table)
Computer auto flash Guide number	Manual control: full output (ISO 100/21°) 28; 20 with wide-angle diffuser card
Angle of coverage	35 mm; 28 mm with wide-angle diffuser card
Film speed range	ISO 25/15° to 1000/31°
Flash recycling time	Approx. 5 sec. (manual control: full output)
Number of flashes	Approx. 230 (manual control: full output)
AF assist illumination	Automatically fires LED beam toward subject when performing autofocus in dim light or in the dark with Nikon AF cameras
Other features	ready-light, hand release, sync/multiple flash terminals
Power source	Four 1.5 V (LR6) alkaline or 1.5 V (FR6) lithium batteries; or 1.2 V NiCD battery pack (KR-AA), or 1.2 V NiMH battery pack
Dimensions	Approx. 68 × 105 × 80 mm (W × H × D)
Weight	Approx. 210 g (without batteries)

Supplied with:
Soft case SS-22



Electronic flash unit SB-23

Order code	FSA02301
Electronic construction	Automatic insulated Gate Bipolar Transistor (IGBT) and series circuitry
Light output control	With silicon thyristor-rectifier and series circuitry; automatic flash-light measurement (TTL) with all Nikon TTL cameras
Modes	Programmed TTL automatic
TTL automatic	flash possible with Nikon F5/F100/F90X/F80/F65
Guide number	20 (ISO 100)
Angel of coverage	35 mm
Film speed range	ISO 25/15° to 1000/31°
Recycling time	Approx. 2 sec
Flash-ready lamp	Provided
Number of flashes	Approx. 400 with alkaline-manganese batteries; the flash capacity is reduced when using the AF illuminator
AF illuminator	Where there is insufficient light for automatic focusing when using a Nikon AF camera, the AF illuminator illuminates the object automatically with light indicated on an LED
Power source	four 1.5 V alkaline batteries type LR6/AM3 or accu NiCd
Dimensions	67 × 64 × 84 mm (H × W × D)
Weight	140 g (without batteries)

Supplied with:
Soft case SS-23



Electronic flash unit SB-16

Order code	SB16A/FSA016AA for Nikon F3 SB16B/FSA016AB for all Nikon cameras with an ISO flash shoe
Guide number	(ASA/ISO 100 and 1 m) 32 with zoom head set at N; 19 at W1 with wide-flash adapter SW-7; 8 for secondary flash
Angle of coverage	At N setting: 60° horizontal and 45° vertical; at W1 setting with wide-flash adapter SW-7: 78° horizontal, 60° vertical
Main flash	Rotatable and tiltable; pull-out reflector for various focal lengths: Position T for 85 mm Position S for 50 mm Position N for 35 mm Position W1 for 28 mm
Secondary flash	Rigid built-in; for brightening with indirect flashes
Power supply	4 × 1.5 V type AM 3/E 91 round cells 4 × 1.2 V type 3U NC batteries
TTL flash control	SB-16A for F3 SB-16B for all Nikon TTL cameras from ASA/ISO 25 to 400; usable apertures f/2–f/22
Automatic flash control	Via built-in sensor with two stopped-down apertures
Manual flash	Possible
Motor synchronization	With 1/16 power in position MD; additional flash does not function in this position
Dimensions (W × H × D)	SB-16A: about 82 × 166.5 × 100 mm SB-16B: about 82 × 144 × 100 mm
Weight (without batteries)	SB-16A: approx. 510 g SB-16B: approx. 470 g



Wide-flash adapter SW-7

for electronic flash unit SB-16 (spare)

Order code FXA10146

Battery holder MS5

Order code FXA10149
Use With flash unit SB-16 (spare)



Electronic flash unit SB-17

Order code	FSA017AA
Light output control	Silicon thyristor-controlled rectifier and series circuitry. Automatic TTL flash output control with Nikon F3
Guide number	(ASA/ISO 100) 25; 18 with wide-flash adapter SW-6
Angle of coverage	60° horizontal (with SW-6: 70°) and 45° vertical (with SW-6: 53°)
Wide-flash adapter	SW-6 supplied
Number of flashes	Varies in automatic mode; about 160 in manual mode with alkaline batteries
Recycling time	Varies in automatic mode: about 8 sec in manual mode
Flash-ready lamp	Present
Flash-ready lamp contact	Provided
Manual release	Provided; also serves as flash-ready light
TTL automatic modes	TTL metering with Nikon F3. Film speeds from 25 to 400 ASA; usable aperture range from f/2 to f/22 M: On Manual, the SB-17 gives its highest flash output quite independently of the distance between flash unit and subject MD: On MD, the SB-17 can be synchronized with motor-driven cameras (3.5 fps). Up to 4 flash exposures can be made in rapid succession. The guide number is reduced from 25 to 7 as a result A: Automatic exposure control via the built-in light sensor. Film speeds from 25 to 800 ASA, two apertures: f/4 at 0.6–6.2 m (with ASA/ISO 100) and f/8 at 0.6–3.1 m. For Nikon F3 directly in the F3 accessory shoe
Power source	Four AM 3/E 91 1.5 V alkaline batteries
Accessory shoe	AS-6 for all Nikon cameras with an ISO flash shoe (without TTL)
Case	Supplied
Dimensions	101 × 90 × 42.5 mm
Weight	300 g (without batteries)

Supplied with:

Bag SS-17

Accessory:

Wide-flash adapter SW-6 (spare)

Battery holder MS-6

Order code	FXA10147
Use	With flash unit SB-15/17 (spare)



TTL Macro Speedlight SB-29

Order code	FSA90501
Speedlight type	Macro electronic speedlight with two flash modules that can be selected individually
Electronic construction	Automatic silicon-controlled rectifier and series circuitry
TTL auto flash mode	TTL auto flash with Nikon F5, F100, F90X, F80, F65, F3, HP, T, P; older cameras see combination table
Flash mode	TTL; manual or manual with 1/4 output
Guide number	(ISO 100/21° and 1 m): guide no. 11 with full out-put and both flash modules guide no. 12 with full out-put and one flash module guide no. 6 with 1/4 out-put in M and both flash modules guide no. 5.5 with 1/4 out-put in M and one flash module
Film speed range	ISO 25/15° to 1000/31°
Angle of coverage	Horizontal approx. 94°/20 mm at distance of 1 m; vertical approx. 84°/24 mm at distance of 1 m
Frequency of individual flashes	Approx. 40 Hz
Flash recycling time	Approx. 3 sec. (manual control: full output)
Number of flashes	Approx. 300 (manual control: full output), with LR6 alkaline batteries; approx. 350 flashes with 1.5 V AA-type lithium batteries with 4 sec. recycling time
Ready-light	Lights up: flash is ready to fire
Hand release	Provided
Sync contacts	Sync/multiple flash terminal provided
Power source	Four 1.5 V (LR6) alkaline or 1.5 V (FR6) lithium batteries; or 1.2 V NiCD battery pack (KR-AA), or 1.2 V NiMH battery pack
Dimensions	Flash unit: approx. 119 × 133 × 28.5 mm (W × H × D) Control unit: approx. 69 × 106.5 × 88.5 mm (W × H × D)

Supplied with:

Three adapter rings (∅ 52, 62, 72 mm)



Flash unit coupler AS-4

With central contact and recycling contact

Order code FSW50701
Use Nikon F3 with all flash units with an ISO flash shoe



Flash unit coupler AS-6

With central contact and recycling contact

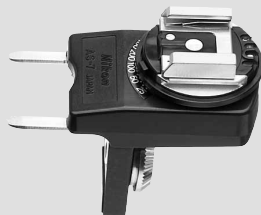
Order code FSW51201
Use all Nikon cameras with an ISO flash shoe – flash units SB-17/SB-16A



Flash unit coupler AS-7

With central contact and recycling contact and TTL metering with SB-16A/SB-17

Order code FSW51701
Use With Nikon F3
Special characteristic Film rewinding possible with mounted flash unit



Flash unit coupler AS-8

Order code FSW51901
Use With flash unit SB-16 on F3
Metering system TTL



Flash unit coupler AS-9

Order code FSW52001
Use With flash unit SB-16 on all Nikon cameras with an ISO flash shoe
Metering system TTL with all Nikon TTL cameras



Flash unit coupler AS-17

for F3 with ISO flash shoe and TTL metering

Order code FSW53301
Use AS-17 is especially for Nikon F3 cameras with TTL flash auto mode and enables the mounting of Nikon flash unit onto F3 cameras

Dimensions 57 × 46 × 55 mm
Weight 70 g



TTL cord SC-12

for Nikon F3

Order code FSG01201
Use with flashes SB-11/SB-14/140
Length 1.1 m



TTL cord SC-23

for all Nikon cameras with ISO accessory shoe

Order code FSG02101
Use with flashes SB-11/SB-14/140
Length 1.1 m



Connecting cord SC-13

for sensor SU-3

Order code FSG01301
Use with flashes SB-11/SB-14/140
Length 1.1 m



TTL cord SC-14

for Nikon F3

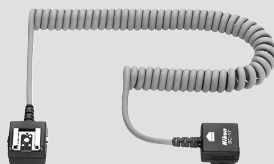
Order code FSG01501
Use with flashes SB-16A/SB-17
Length 1.0 m



TTL cord SC-17

for all Nikon cameras with ISO accessory shoe

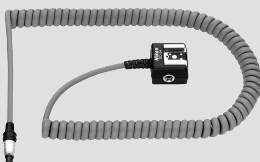
Order code FSG01801
Use with all flashes with ISO accessory shoe
Length 1.5 m



TTL cord SC-24

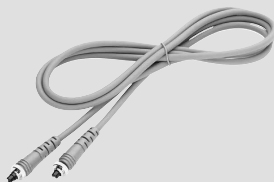
for Nikon F5/F4

Order code FSG02201
Use with waist-level finder DW-20 and high-magnification finder DW-21 and all flashes with ISO accessory shoe
Length 1.5 m



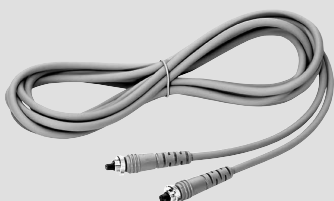
TTL multiframe connecting cord SC-18

Order code FSG01901
Function TTL multiframe operation
Use with all Nikon flashes with TTL multiframe bush (see tabular summary)
Length 1.5 m



TTL multiframe connecting cord SC-19

Order code FSG02001
Function TTL multiframe operation
Use with all Nikon flashes with TTL multiframe bush (see tabular summary)
Length 3.0 m



TTL multiflash adapter AS-10

Order code	FSW52101
Function	connection possibilities for additional flashes with ISO accessory shoe in TTL mode; with tripod screw-thread
Use	with TTL multiflash connecting cord SC-18/SC-19



Flash adapter AS-15

Order code	FSW52901
Function	external flash synchro connection
Use	with all Nikon cameras with ISO accessory shoe



Tripod adapter AS-11

for second flash SB-16/SB-17

Order code	FSW52201
Function	The tripod adapter prevents unnecessary flashing of the ready light and makes it possible to check whether the flash unit is charged and indicates when full power is reached; TTL multiflash mode with TTL multiflash connecting cord SC-18/SC-19



TTL sensor unit SU-4

for remote release of Nikon flash units

Order code	FSW53101
Use	SU-4 is a wireless accessory part, enabling the use of multiple light sources through two or more flash units in TTL mode
Dimensions	63 × 53 × 28 mm
Weight	52 g



Supplied with:

Diffusor SG-2
Case SS-SU4

Sync cord SC-11

Order code	FSG01401
Use	flash/camera, if a flash synchro connection exists (see tabular summary)
Length	34 cm



Sync cord SC-15

Order code	FSG01601
Use	flash/camera, if a flash synchro connection exists (see tabular summary)
Length	1.0 m
Execution	spiralcord



High Performance Battery pack SD-8 A

Order code	FSW02302
Function	external power source for a higher flash capacity
Use	with all Nikon flashes with corresponding attachment (see tabular summary)
Connection	with cord SC-16
Charging time for full power	3 sec with alkaline-manganese batteries; 2 sec with NiCd accus
Flash output	250 flashes with full power with alkaline-manganese batteries; 100 flashes with full power with NiCd-accus
Power source	six 1.5 V alkaline-manganese batteries type LR6/AM32 or six 1,2 V NiCd accus
Dimensions	69 × 158 × 25 mm (B × H × T)
Weight	140 g (without batteries)



Bracket SK-4

for SB-11 (replacement)

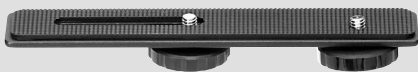
Order code FXA10121



Bracket SK-5

for SB-14 (replacement)

Order code FXA10136



Bracket SK-7

for TTL sensor unit SU-4

Order code FSW53201
Use Metal plate with fixing screw, enabling the positioning of camera and SU-4 side to side

Hot shoe cover

to Pronea 600i

Order code FXA10281



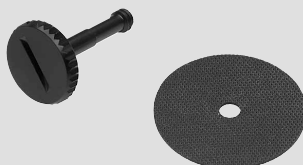
Hot shoe cover BS1

to F65

Order code FXA10312

Fixing screw FM-6

Order code FXA10236
Use fixation of SD-8 at the tripod screw-thread



Power bracket SK-6

for Nikon flash units SB-28/26/25/24

Order code	FSW53002
Function	for side mounting of flash unit hand-held UL flash through instant disengagement feature; also functions as additional power source; handling ease through rotating handgrip with SK-6 used as external power source (with alkaline batteries): max. number of flashes and min. recycle time at full power approx. 200 flashes (ISO 100) at approx. 3.5 sec recycle time; with external battery pack SD-8A (ISO 100); approx. 350 flashes at approx. 3 sec recycle time
Flash output	
Power source	four 1.5 V alkaline-manganese or NiCd batteries (type LR6/AM3)
Dimensions	273 × 111 × 78 mm
Weight	460 g (without batteries)

Accessories:

External battery packs SD-8A



Battery pack LD-2

for Medical-Nikkor 120 mm f/4 and Nikon TTL macro flash unit SB-21

Order code	FSW02001
Function	external power supply with connecting cord SC-21 and SC-21A
Flash output	with alkaline batteries and full flash output: Medical-Nikkor 120 mm: approx. 450 flashes at approx. 4 sec recycle time (ISO 100); TTL macro flash SB-21: approx. 300 flashes at approx. 4 sec recycle time (ISO 100)
Power source	eight 1.5 V alkaline-manganese batteries type LR6
Dimensions	149 × 78 × 49 mm
Weight	325 g (without batteries)



Connecting cord SC-21

Order code	JXA10046
Length	1.5 m
Function	connects battery pack LD-2 or domestic power supply adapter LA-2 to Medical Nikkor 120 mm f/4 or Nikon TTL macro flash unit SB-21



Connecting cord SC-21 A

Order code	JXA10065
Length	3.0 m
Function	as for connecting cord SC-21





Motors/Motor accessories

Motori ed accessori



Close-up accessories

**Accessori per
macrofotografia**



Viewfinders for F5

Mirini per F5



Data backs

Dorsi datari



Viewfinders for F3

Mirini per F3



**Ever-ready cases/
compartment cases**

**Borse-pronto/
Borse universali**



Viewfinder accessories

**Accessori per mirini
oculari**



Neck strap

Tracolla

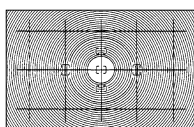


Release accessories

**Accessori per
scatto flessibile**

Various

Accessori vari



Focusing screens

Vetrini di messa a fuoco

**Oldies and
accessories**

**Vecchi modelli
ed accessori**

Motor MD-4

for Nikon F3

Order code	FRA00801
Shooting mode	Single frame (S), continuous (C) and locked mode (L) by means of handle on motor drive
Triggering	By electromagnetic trigger button which, when depressed half way, also switches on the exposure meter of the camera. The exposure meter remains on for 16 seconds after the trigger is released

Maximum shooting speeds

Battery type	Number of pictures/sec	
	Standard	With fixed mirror
8 × 1.5V LR6	3.8	4
Battery MN-2	5.5	6
MA-4 power pack	5	5.5

	With exposure times longer than 1/125 sec, shooting speeds are lower
Frame counter	Subtractive type; indicates number of remaining frames
Automatic transport stop	Motor switches off automatically at end of film roll and indicates this by an LED
Automatic rewind	4.5 sec with NiCd battery unit MN-2 and 8 sec with alkaline batteries for 36-frame film. Automatic rewind stop in conjunction with MF-6B camera back
Special characteristic	Recommended for extremely low temperatures since the motor supplies the camera with power
Dimensions	About 146.5 × 115 × 71 mm (H × W × D)
Weight	About 480 g

Battery holder MS-3

Order code	FXA10105
Use	With motor MD-4

Charger MH-2

for battery unit MN-2

Order code	FRW020AC
Dimensions	78 × 57 × 127 mm (H × W × D)
Weight	560 g

Battery unit MN-2

for motor MD-4

Order code	FRW01801
Charging time	3 1/2 hours continuously
Dimensions	43 × 37 × 114 mm (H × W × D)
Weight	250 g

Camera back MF-6B

Order code	FRW51602
Use	With Nikon F3 and motor MD-4
Special characteristic	Automatic switch off of rewind

Accessories:

Power pack MA-4
Remote cord MC-4A/10/12



Motor MD-12

for Nikon FM-2/FM-2 Ti/MF3A

Order code	FRA00602
Shooting speeds	up to about 3.5 fps (at shutter speeds faster than 1/125 sec)
Shooting modes	single frame (S) continuous (C)
Shutter speeds	with S setting: FM-2: 1–1/4000 sec FE-2: 8–1/4000 sec auto, M 250 with C setting: FM-2: 1/2–1/4000 sec FE-2: 8–1/4000 sec auto, M 250
Pilot light	LED lights during operation
Power switch	On/Off switch
Exposure meter	the release button also serves as its On/Off switch; it switches off automatically after 50 sec possible; integral Nikon 3-pole jack
Remote control	
Power source	eight 1,5 V (AM-3E91) round cells in integral battery holder
Weight	410 g (without batteries)
Dimensions	without handle: 144 × 36 × 42 mm with handle: 144 × 68.5 × 109.5 mm



Accessories:

Battery holder GA-33 (spare)
Remote cord MC-4A10/12A

Battery pack DB-6

for Nikon F4E (F4 + MB-23) and F90

Order code	FAW03601
Function	shoot many pictures with this battery pack without changing batteries; especially suited for shots through AF-I telephoto lens
Power source	6 single-cell D-type batteries (LR-14/AM-2)
Battery check	camera function
Overload switch	in case of overheating or technical problems, warning light comes on and circuit switches off automatically
Dimensions	151 × 187 × 53 mm (W × H × D)
Weight	550 g (without batteries)



Accessories:

Leather case, strap (supplied)
Connection cord MC-28 (for F4E)
Connection cord MC-29 (for F90)

Connecting cord MC-28

Order code	FRG20901
Use	connection of battery pack DB-6 with Nikon F4E

Connecting cord MC-29

Order code	FRG21001
Use	connection of battery pack DB-6 with Nikon F90



Rechargeable NiMH battery pack MN-30

for Nikon F5

Order code	FAW03901
Intended purpose	Takes rechargeable NiMH batteries for the Nikon F5, which hold their charge longer than alkaline batteries and are more effective at low temperatures; also 8 frames/sec are possible instead of 7,4 frames/sec and film rewind is quicker
Capacity	approx. 100 rolls of 36 exp. film at 20°C/68°F
Dimensions	115.5 × 30.5 × 59 mm (H × W × D)
Weight	270 g

Quick Charger MH-30

for NiMH battery pack MN-30

Order code	FAW04201
Charge time	approx. 100 minutes; charge control lamp; when two battery packs are connected one is charged/discharged after another
Rated input	100–240 V, 50/60 Hz, 0.39 A
Rated output	14.5 V DC 0.8 A
Dimensions	85 × 51 × 160 mm (H × W × D)
Weight	380 g (without mains cable)

Connecting cord MC-32

Order code	FRG21201
Function	This cord with two banana plugs is used for the connection of external 12 V power sources to the Nikon F5

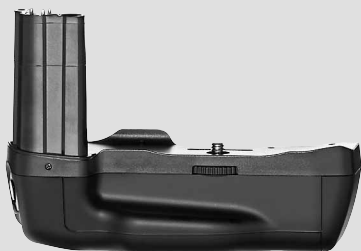
Battery holder MS-30

for Nikon F5 (replacement)

Order code	FXA10276
Purpose	for 8 alkaline manganese batteries type LR6/AM3

Multi-power grip MB-10

Order code	FAW03701
Function	The ergonomic design means more comfortable holding and provides an alternative shutter release button for shooting vertical-format pictures with Nikon F90X and F90 (the vertical release button works only with Nikon F90X)
Use	four 1,5 V batteries type LR6/AM3 or with accessory battery holder MS-11 two 3 V lithium CR123A batteries
Power source	
Dimensions	154 × 100 × 60 mm (W × H × D)
Weight	215 g (without batteries)



Battery pack MB-11

for Nikon Pronea S

Order number	FAW05101
Use	Increases the number of shots per set of batteries, for more consistent performance even at low temperatures
Power source	Four 1.5 V alkaline-manganese (LR6/AM3) batteries
Dimensions	Approx. 116 × 46 × 53 mm
Weight	66 g (without batteries)



Multi-power high speed battery pack MB-15

for Nikon F100

Order number	FAW04501
Use	Ergonomic handling, as well as more comfortable handling for shooting of vertical-format pictures due to alternative shutter release button
Power source	Four 1.5 V alkaline-manganese (LR6/AM3) batteries
Dimensions	Approx. 156.5 × 97.5 × 69 mm
Weight	210 g (without batteries)



Quick charger MH-15

for NiMH Battery Pack MN-15

Order number	FAW04901
Charging	Charging is completed after approx. 70 minutes, indicated by charging light; two battery packs can be connected simultaneously; charging or discharging is done successively
Rated input/frequency	100–240 V; 50/60 Hz; 19 W (charging and mains operation)
Charging voltage	8.0 V/1.6 A (mains operation) 8.7 V/1.2 A (charging operation)
Dimensions	85 × 51 × 160 mm
Weight	380 g (without mains cable)



NiMH battery pack MN-15

for Nikon F100

Order number	FAW04601
Use	Allows the use of rechargeable NiMH battery packs with F100; these have a longer life than alkaline batteries and feature better low-temperature behaviour; further they enable 5 fps instead of 4.5 fps and faster rewind
Battery life	Approx. 100 films of 36 exposures at 20°
Dimensions	Approx. 118 × 29 × 58 mm
Weight	180 g



Battery holder MS-12

for Nikon F100 (spare part)

Order number	FXA10294
Use	Four 1.5V alkaline-manganese (LR6/AM3) batteries



Battery holder MS-13

for Nikon F100

Order code

FAW04401

Use

Two 3 V lithium batteries type CR123



Battery holder MS-15

for MB-15/F100

Order code

FXA10295

Use

Four 1.5 V alkaline-manganese batteries (LR6/AM3)



Multi-power high-speed battery pack MB-16

for Nikon F80

Order code

FAW05301

Use

Increases the number of shots per set of batteries, for more consistent performance even at low temperatures

Power source

Four 1.5 V alkaline-manganese batteries (LR6/AM3)

Dimensions

Approx. 141 × 37 × 71 mm (W × H × D)



Battery holder MS-16

for MB-16

Order code

FXA10307



Multi-power high-speed battery pack MB-17

for Nikon F65

Order code

FAW05401

Use

Increases the number of shots per set of batteries, for more consistent performance even at low temperatures

Power source

Four 1.5 V alkaline-manganese batteries (LR6/AM3)

Dimensions

Approx. 139 × 43 × 65 mm (W × H × D)



Anti-cold battery holder DB-2

for Nikon F3/FM-2/FM-2Ti

Order code

FAW01801

Use

To ensure camera functions in extremely low temperatures

Power source

Two alkaline-manganese batteries type AA (AM 3/E91)



Battery holder MS-8

for Nikon F90 X (replacement)

Order code

FXA10257



Battery holder MS-10

for MB-10/F90 X

Order code

FXA10268

Use

Four 1.5 V alkaline-manganese batteries LR6/AM3



Battery holder MS-11

for MB10/F90 X

Order code

FAW03801

Use

Two 3 V lithium batteries CR2023



Shooting speed selection MK-1

for Motor MD-4 (F3)

Order code

FRW52301

Shooting speeds

C1: 1 shot/sec.
C2: 2 shots/sec.
C3: 3 shots/sec.
C/S: the MD-4 motor determines the shooting speed

Dimensions

146.5 × 33.5 × 75 mm

Weight

150 g



Connecting cord MC-11

(replacement)

Order code

FRG01301

Use

for connection power pack MA-4 and motor MD-4 / MB-22

Length

3 m



Tripod adapter AH-3

Order code

FRW51502

Use

for attaching Nikon MD-4/12 motors to a tripod or to reprocopy outfit PF-4; therefore the connection of the tripod is in the middle of the camera



Multi-meter finder DP-30

(replacement)

Order code	FAB024AA
For use with	Nikon F5 cameras
Special characteristics	It offers an eyepoint of 22 mm and virtually 100% frame coverage; Diopter adjustment from -3 to +1 and an eyepiece shutter are built in
Exposure metering	Matrix centre-weighted integral and spot metering
Dimensions	45 × 59 × 72 mm (H × W × D)
Weight	205 g



Action finder DA-30

Order code	FAB02501
For use with	Nikon F5 cameras
Special characteristics	It offers an eyepoint of 9 cm and 100 % frame coverage
Exposure metering	Centre-weighted integral and spot metering
Dimensions	61 × 59 × 89 mm (H × W × D)
Weight	365 g



6 × High-magnification finder DW-31

Order code	FAB02701
Use with	Nikon F5 cameras
Special characteristics	Suitable for micro- and macro-photography and for reproductions; a rubber eyecup. Diopter adjustment from -5 to +3 and an eyepiece cover are included; connection available for TTL cord SC-24
Exposure metering	Spot metering
Dimensions	70 × 61 × 73 mm (H × W × D)
Weight	160 g



Waist-level finder DW-30

Order code	FAB02601
Use with	Nikon F5 cameras
Special characteristics	The finder has a flip-up magnifier providing 5 × magnification for accurate focusing; it has a connection for TTL cord
Exposure metering	Spot metering
Dimensions	74 × 61 × 73 mm
Weight	95 g



Cover for finder FE-15

Order code	FAW01601
Use	For prism DE-2/DE-3 and for DW-4/DW-3



Eyelevel finder DE-2

(replacement)

Order code	FAB001AA
Use with	Nikon F3 cameras
Dimensions	39 × 59 × 66 mm (H × W × D)
Weight	120 g



High-eyepoint finder DE-3

Order code	FAB011AA
Use with	Nikon F3 cameras
Special characteristics	The entire frame is visible to the eye up to 2.5 cm away from the eyepiece
Dimensions	52.5 × 43.5 × 69 mm (H × W × D)
Weight	165 g



Action finder DA-2

Order code	FAB014AA
For use with	Nikon F3 cameras
Special characteristics	The entire frame is visible to the eye up to 8 cm away from the eyepiece
Dimensions	59.5 × 52.9 × 73.2 mm (H × W × D)
Weight	300 g



6× High-magnification finder DW-4

Order code	FAB013AA
Use with	Nikon F3 cameras
Special characteristics	This finder is suitable for obtaining very fine focusing, for example in micro or macro photography and for reproduction. Fitted with a rubber eyecup, a -5 to +3 diopter adjustment and an eyepiece shutter
Dimensions	54.2 × 26.5 × 59.6 mm (H × W × D)
Weight	220 g



Waste-level finder DW-3

Order code	FAB012AB
Use with	Nikon F3 cameras
Special characteristics	Built-in flip-up magnifier provides 5× magnification for accurate focusing
Dimensions	73 × 54.2 × 59.6 mm (H × W × D)
Weight	90 g



Cover for finder FE-17

Order code	60000070
Use	For action finder DA-2

Eyepiece magnifier DG-2

Order code	FAF20202
Magnification	2× the central portion of the finder image
Diopter setting	from -5 to +1 diopter
Eyecup	built-in

The magnifier is provided with hinges so that it can be flipped upwards to expose the entire finder image to allow accurate composition of the picture.



Right-angle viewing attachment DR-4

Order code	FAF20401
Coverage	100% of the camera viewfinder
Ratio	1:1
Diopter setting	from -5 to +3 dpt.
Eyecup	Built-in
Weight	100 g



Eye cup

for Nikon F5/F4/F3HP/F3Ti

Order code DK2/FAF50801

for Nikon F3

Order code DK4/FAF50302

for Nikon FM-3A/FM-2

Order code DK3/FAF50402

for Nikon F100/F90X

Order code DK6/FAF50901

for Nikon F60

Order code DK10/FXA10296

for Nikon F70/Pronea 600i

Order code DK9/FAF51101

for Nikon F601

Order code FE12/FAF50601

Adapter DK-12

for DR-4 to Nikon F5

Order code FXA10297

Adapter DK-13

for DR-4 to Nikon F3

Order code FPW01401

Antifog eyepiece DK-14A

for Nikon F5

Order code FAF51201

Antifog eyepiece DK-15A

for Nikon F100

Order code FAF51301

Eyepiece adapter FE-10

Order code FAF50501

Use for attaching a right-angle viewing DR 3 or an eyepiece magnifier DG 2 to the Nikon F-601/F70/F50

Eyepiece adapter DK-7

Order code FAF51001

Use for attaching a right-angle viewing DR 3 or an eyepiece magnifier DG 2 to the Nikon F3HP (DE-3)/F4/F4S/F4E (DP-20)

Eyepiece cover DK-5

for Nikon F-601/F70/F50

Order code FXA10193

Eyepiece cover DK-8

for Nikon F100/F90X/F801S

Order code FXA10216



Correction lenses for Nikon F100/F90X/F90

Order code	Correction
KA810/FAF05901	-5 dpt
KA811/FAF05801	-4 dpt
KA813/FAF05701	-3 dpt
KA812/FAF05601	-2 dpt
KA814/FAF05101	0 dpt
KA818/FAF05201	+0,5 dpt
KA815/FAF05301	+1 dpt
KA816/FAF05401	+2 dpt
KA817/FAF05501	+3 dpt
KA819/FXA10215	neutral glass
DK15A/FA51301	antifog eyepiece to F100



for Nikon F80/F70/F60/F50/ F601/PRONEA 600i

Order code	Correction
KA510/FAF04901	-5 dpt
KA511/FAF04801	-4 dpt
KA512/FAF04701	-3 dpt
KA513/FAF04601	-2 dpt
KA514/FAF04101	0 dpt
KA518/FAF04201	+0,5 dpt
KA515/FAF04301	+1 dpt
KA516/FAF04401	+2 dpt
KA517/FAF04501	+3 dpt to F3



for Nikon F3

Order code	Correction
KA10/FAF00901	-5 dpt
KA11/FAF00801	-4 dpt
KA12/FAF00701	-3 dpt
KA13/FAF00601	-2 dpt
KA14/FAF00101	0 dpt
KA18/FAF00201	+0,5 dpt
KA15/FAF00301	+1 dpt
KA16/FAF00401	+2 dpt
KA17/FAF00501	+3 dpt
KA19/FXA10091	neutral glass



for Nikon F3HP/F5/F4/F4S/F4E

Order code	Correction
KA20/FAF01701	-3 dpt
KA213/FAF01601	-2 dpt
KA214/FAF01101	-0 dpt
KA215/FAF01301	+1 dpt
KA216/FAF01401	+2 dpt
KA219/FXA10138	neutral glass to F3HP
KA419/FXA10225	neutral glass to F4/F4S/F4E
KA420/FXA10280	neutral to F5
DK14A/FAF51201	antifog eyepiece to F5



for Nikon FM2/FM2T/FM3A

Order code	Correction
KA110/FAF02901	-5 dpt
KA111/FAF02801	-4 dpt
KA112/FAF02701	-3 dpt
KA113/FAF02601	-2 dpt
KA114/FAF02101	0 dpt
KA118/FAF02201	+0,5 dpt
KA115/FAF02301	+1 dpt
KA116/FAF02401	+2 dpt
KA117/FAF02501	+3 dpt
KA119/FXA10066	neutral glass

Infrared Remote control ML-2

Order code	FRW53101
Function	wireless remote control set for cameras or speedlights by infrared light
Use	with all Nikon cameras which have an electric remote control synchro contact
Range	approx. 100 m
Number channels	CH-1, 2, 3 or all simultaneously
Number of transmissions	approx. 4500 with alkaline batteries
Shutter function	(S) for single frame settings (C) for continuous delay (3 sec) function check
Power source	4 alkaline-manganese or rechargeable NiCd Batteries type LR6/AM-3; each for transmitter and receiver
Fixation	transmitter: tripod mount 1/4" receiver: ISO accessory shoe, rotating 360°
Dimensions	transmitter: 163 × 22 × 69 mm receiver: 64 × 93 × 75 mm
Weight	transmitter: 130 g receiver: 120 g (without batteries)

Transmitter ML-2T and receiver ML-2R are also separately available

Supplied with:
Mounting bracket

Accessories:
Remote cord MC-12A
Intervalometer MT-2

Transmitter ML-2T

Order code FXA10230

Receiver ML-2R

Order code FXA10231



Infrared Remote control ML-3

Order code	FRW20101
Function	infrared remote shutter release; automatic photocell shutter release
Use	for all Nikon F90 models; with connecting cord MC-25 for all Nikon cameras with electric remote control synchro connection
Range	approx. 9 m
Number of channels	three: CH1, CH2 and A. TRIG
Shutter function setting	single frame (S) continuous (C) function check delay (3 sec)
Transmitter:	
Standby	approx. 72 hours in A. TRIG setting (photocell) using alkaline batteries
Output channels	three: CH1, CH2 and A. TRIG
Tripod socket	1/4"
Power source	two alkaline batteries type AM4/LR03
Dimensions	117 × 22 × 30 mm (W × H × D)
Weight	40 g (without batteries)
Receiver:	
Number of channels	two: CH1 and CH2
Connection cord	approx. 28 cm
Unit base	rotates 360°
Compatibility	receiver reacts to CH1, CH2, ALL, TEST and DELAY signals from ML-2
Power source	F90 battery; connection socket for 6 V power source
Dimensions	50 × 36 × 47 mm (W × H × D)
Weight	51 g (without batteries)

Transmitter ML-3T

Order code FXA10253

Receiver ML-3R

Order code FFW10254



Infrared Remote control ML-L1

for Nikon Nuvis und Lite Touche

Order code FWW00101



Infrared Remote control ML-L3

for Nikon F65

Order code FFW002AA

Connecting cord MC-16A

Order code FRG01701
Length 1 m
Use for connecting intervalometer MT-2 to motor MD4/12 and for cameras F4s/F4E/F-801S



Remote shutter cord MC-20

for Nikon F5/F90X; with other cameras/motors in combination with the MC-26 adapter cord

Order code FRG20101
Length 80 cm
Function remote adjustment and release of timed exposures up to 9 hours, 59 min, 59 s; exposure time is counted cumulatively or deducted from total
LCD panel five-figure, seven-segment display; may be illuminated
Plug and socket 10 pole
Power source one 3 V lithium battery, type CR 2032; no battery required with Nikon F90X, camera supplies power



Remote shutter cord MC-30

for F5/F90X

Order code FRG21101
Attachment 10 pole
Length 80 cm

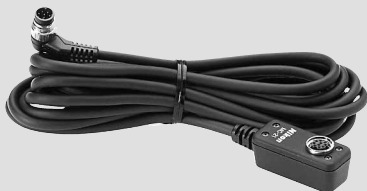
The remote shutter cord MC-30 has the same function as the release button of the camera



Extension cord MC-21

for remote control accessories

Order code FRG20301
Length 3 m
Plug and socket 10 pole (both ends)



Remote cord MC-22

for individual release setups

Order code FRG20401
Length 1.15 m
Plug and socket 10 pole; banana plugs at one end; may be extended as desired



Connecting cord MC-23

simultaneous release of two Nikon F5/F90X

Order code	FRG20501
Length	45 cm
Plug and socket	10 pole (both ends)



Adapter cord MC-25

for connecting standard remote control accessories to the Nikon F5/F90X

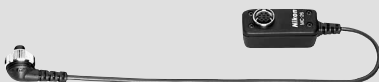
Order code	FRG20701
Length	25 cm
Plug and socket	10 pole/2 pole



Adapter cord MC-26

for connecting MC-20/MC30 remote shutter cord to standard Nikon Cameras and motors

Order code	FRG20201
Length	25 cm
Plug and socket	2 poles/10 poles



Remote shutter cord MC-10

for Nikon motors MD-4/MD-12

Order code	FRG01202
Length	3 m

No display in Nikon F3 LCD; Nikon FM-2 exposure meter remains on until motor is switched off



Remote shutter cord MC-12B

for all cameras and motors with 2 poles remote shutter connection

Order code	FRG01403
Length	0.8 m

Press cable release to view display in camera's LCD; Nikon MFM-2 exposure meter remain on until motor is switched of



Remote shutter cable MC-4A

for individual remote appliance

Order code	FRG00702
Length	1 m
Plug and socket	2 pole/banana plug; can be extended as desired
Use	for all cameras/motors with a remote shutter release plug (2 pole)



Connecting cord MC-17S

simultaneous release of two cameras/motors

Order code	FRG01601
Length	40 cm
Use	for all cameras/motors, with a remote shutter release plug (2 pole)



Cable release AR-3

Order code	FWW00601
Length	30 cm
Use	for all cameras with a cable release plug; with fixing plate



Release adapter AR-8

Order code	FWW01001
Use	adapter between conical thread and Leica bell with Nikon FM-2



Soft shutter release AR-9

Order code	FWW01201
Function	release without vibration due to a better recognition of the release pressure point and a bigger support
Use	for all cameras with cable release-thread



Terminal release MR-3

Order code	FRW51203
Function	additional terminal release with cable release connection
Use	for all cameras/motors with a remote shutter release plug (2 pole)



Double cable release AR-7

mechanical/mechanical

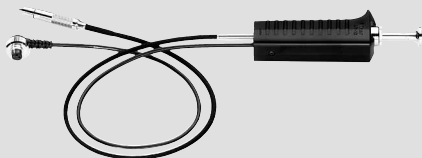
Order code	FPW21701
Function	maintenance of the automatic diaphragm control between the camera and the bellow focusing attachment PB-6 release plug
Use	for all cameras with a cable release plug



Double cable release AR-10

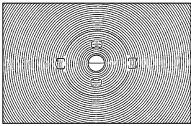
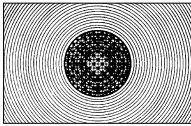
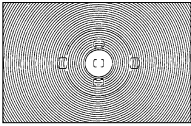
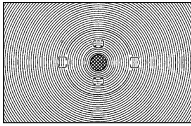
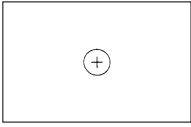
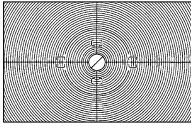
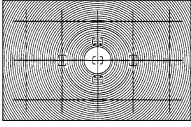
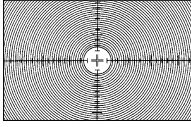
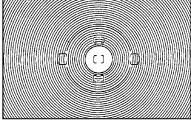
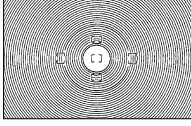
electrical/mechanical

Order code	FPW21901
Function	same as AR-7
Use	for all cameras with a remote shutter release plug; with adaptercord MC-25 and for Nikon F90

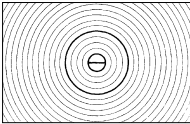
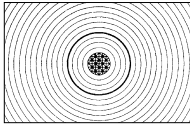
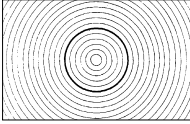
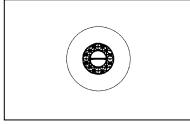

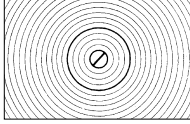

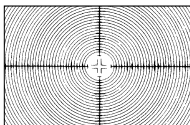
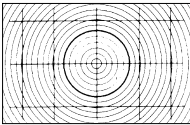
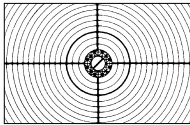
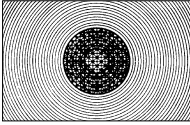
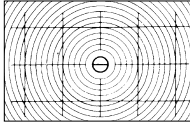


FOCUSING SCREEN • VETRINI DI MESSA A FUOCO

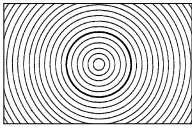
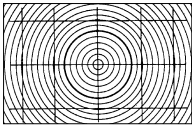
for Nikon F5/per Nikon F5

Order code Codice di comando	Description	Descrizione	Order code Codice di comando	Description	Descrizione
F5A 	Focusing screen A Focusing screen with matte Fresnel field; 12 mm centre circle for reference and split-image range-finder; for general photography using lenses with high light intensity	Vetrino di messa a fuoco A Telemetro orizzontale centrale, cerchio di 12 mm indicante la zona di maggiore sensibilità esposimetrica, zona esterna ad anelli di Fresnel; per la fotografia generale con obiettivi luminosi	F5G 	Focusing screen G Clear Fresnel screen with 12 mm microprism centre circle; for focusing in poor light conditions; available in four versions, depending on lens focal length	Vetrino di messa a fuoco G Aera esterna trasparente dotata di anelli di Fresnel con zona centrale di microprismi di 12 mm di diametro, facilita la messa a fuoco con scarsa luminosità. 4 modelli a seconda delle focale e dei diaframmi
Type A F5A/FAC12201			Type G F5G1/FAC11701 F5G2/FAC11801 F5G3/FAC11901 F5G4/FAC12001		
F5B 	Focusing screen EC-B/B Focusing screen with matte Fresnel field; 5 mm and 12 mm centre circle for reference and focusing zone; for general photography	Vetrino di messa a fuoco EC-B/B Aera smerigliata ed anelli di fresnel; cerchio di riferimento di 5 mm e 12 mm; per fotografia generale	F5J 	Focusing screen J Focusing screen with matte Fresnel field; 5 mm (microprism) and 12 mm centre circle for reference; for general photography	Vetrino di messa a fuoco J Cerchi 5 mm a micro-prismi cerchio 12 mm di riferimento, anelli di Fresnel; per fotografia generale
Type B F5B/FAC11101 F5ECB/FAC11001	Selected focusing zone is indicated on the focusing screen	La zone della misurazione selezionata è indicata sul vetrino di messa a fuoco	Type J F5J/FAC12101		
F5C 	Focusing screen C Fine clear-glass screen; 4 mm centre circle for reference and cross hairs; for high magnifications	Vetrino di messa a fuoco C Zona centrale trasparente 4 mm dotata di reticolo a croce; smerigliatura fine sulla restante aera; per forti ingrandimenti	F5L 	Focusing screen L Corresponds to type A but with diagonal split image (45°); facilitates focusing on horizontal lines	Vetrino di messa a fuoco L Simile al tipo A, ma con telemetro 45°, facilita la messa a fuoco di un soggetto con linee orizzontali
Type C F5C/FAC11501			Type L F5L/FAC11301		
F5E 	Focusing screen E Focusing screen with matte Fresnel field; 5 mm and 12 mm centre circle for reference and focusing zone; vertical and horizontal lines; for architectural photography	Vetrino di messa a fuoco E Zona centrale 5 mm e 12 mm finemente smerigliata, circondata da anelli di Fresnel, aera munita di reticolo; per la fotografia d'architettura	F5M 	Focusing screen M Clear glass with double cross hairs and millimetre scales; 5 mm centre circle for reference; for microphotography with high magnification	Vetrino di messa a fuoco M Superficie trasparente dotata di doppio reticolo a scala millimetrica orizzontale e verticale, cerchio di riferimento di 5 mm, per microfotografia a forte ingrandimento
Type E F5E/FAC11201			Type M F5M/FAC11601		
F5F 	Focusing screen F Focusing screen with matte Fresnel field; 5 mm and 12 mm centre circle for reference and focusing zone; for reflex lenses	Vetrino di messa a fuoco F Aera smerigliata ad anelli di Fresnel; cerchi di riferimento 5 mm e 12 mm; per obiettivi reflex	F5U 	Focusing screen U Focusing screen with matte Fresnel field; 5 mm and 12 mm centre circle for reference and focusing zone; for telephoto lenses from 200 mm	Vetrino di messa a fuoco U Aera smerigliata ad anelli di Fresnel; cerchi di riferimento 5 mm e 12 mm; per obiettivi di lunghezza focale pari o superiore a 200 mm
Type F F5F/FAC12301			Type U F5U/FAC11401		

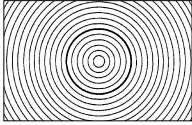
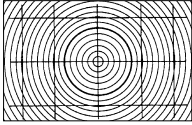
for Nikon F3/per Nikon F3

Order code Codice di comando	Description	Descrizione	Order code Codice di comando	Description	Descrizione
F3A 	Focusing screen A Focusing screen with matte Fresnel field; 12 mm centre circle for reference and split-image range-finder	Vetrino di messa a fuoco A Telemetro orizzontale centrale, cerchio di 12 mm indicante la zona di maggiore sensibilità esposimetrica, zona esterna ad anelli di Fresnel. Per la fotografia generale con obiettivi luminosi	F3J 	Focusing screen J Focusing screen with matte Fresnel field, 4 mm microprisms in 12 mm centre circle for reference; for general photography	Vetrino di messa a fuoco J Cerchio 4 mm a microprismi, cerchio 12 mm di riferimento, anelli di Fresnel
Type A F3A/FAC04201			Type J F3J/FAC05501		
F3B 	Focusing screen B Focusing screen with matte Fresnel field; 12 mm centre circle for reference. For macro photography and telephoto lenses	Vetrino di messa a fuoco B Area smerigliata ad anelli di Fresnel. Cerchio di riferimento di 12 mm. Per macrofotografia e teleobiettivi	F3K 	Focusing screen K Combination of types A and J; for general photography	Vetrino di messa a fuoco K Combinazione dei tipi A e J. Per la fotografia generale
Type B F3B/FAC04301 F3U/FAC06201	Focusing screen U Same focusing screen as B, but especially designed for lenses of 100 mm or longer	Vetrino di messa a fuoco U Identico al modello B, ma particolarmente adatto agli obiettivi di lunghezza focale superiore a 100 mm	Type K F3K/FAC04101		
F3C 	Focusing screen C Fine matte focusing screen; clear glass centre circle; cross hairs in 4 mm centre circle; for high magnifications	Vetrino di messa a fuoco C Zona centrale trasparente 4 mm dotata di reticolo a croce. Smerigliatura fine sulla restante aera. Per forti ingrandimenti	F3L 	Focusing screen L Corresponds to type A but with diagonal split image (45°); facilitates focusing on horizontal lines	Vetrino di messa a fuoco L Simile al tipo A, ma con telemetro 45° Facilita la messa a fuoco di un soggetto con linee orizzontali
Type C F3C/FAC04401			Type L F3L/FAC05601		
F3D 	Focusing screen D Fine matte focusing screen; particularly suitable for long telephoto lenses and for close-up photography	Vetrino di messa a fuoco D A zona unica, smerigliato finemente su tutta la superficie. Per lunghi teleobiettivi e per macrofotografia con rapporti medi	F3M 	Focusing screen M Clear glass with double cross hairs and millimetre scales; for microphotography with high magnification	Vetrino di messa a fuoco M Superficie trasparente dotata di doppio reticolo a scala millimetrica orizzontale e verticale. Per microfotografia a forte ingrandimento
Type D F3D/FAC04501			Type M F3M/FAC05701		
F3E 	Focusing screen E With matte Fresnel field with 5 mm and 12 mm centre circle for reference; vertical and horizontal lines. For architectural photography in conjunction with the PC-Nikkor lens	Vetrino di messa a fuoco E Zona centrale 12 mm finemente smerigliata, circondata da anelli di Fresnel, area munita di reticolo. Per foto d'architettura con i PC-Nikkor e le riproduzioni	F3P 	Focusing screen P Focusing screen with matte Fresnel field; diagonal split-image; microprisms and 12 mm centre circle for reference; vertical and horizontal lines in addition	Vetrino di messa a fuoco P Area con anelli di Fresnel dotata di telemetro a 45°, corona di microprismi, cerchio di riferimento di 12 mm, una linea centrale orizzontale e una verticale. Adatto alla fotografia generale
Type E F3E/FAC04601			Type P F3P/FAC05801		
F3G 	Focusing screens G1, 2, 3, 4 Clear Fresnel focusing screens with 12 mm microprism collar. For focusing under poor light conditions; available in 4 models	Vetrino di messa a fuoco G1, 2, 3, 4 Area esterna trasparente dotata di anelli di Fresnel con zona centrale a microprismi di 12 mm di diametro. Facilita la messa a fuoco con scarsa luminosità. 4 modelli a seconda delle focali e dei diaframmi	F3R 	Focusing screen R Focusing screen with matte Fresnel field and split-image range finder which does not darken when slow lenses are used; with vertical and horizontal lines; suitable for architectural photography	Vetrino di messa a fuoco R Area con anelli di Fresnel dotata di telemetro e reticolo. Il telemetro non si oscura nemmeno con obiettivi dotati di apertura massima compresa tra f/3,5 e f/5,6. Per la fotografia d'architettura
Type G F3G1/FAC04701 F3G2/FAC04801 F3G3/FAC04901 F3G4/FAC05001			Type R F3R/FAC05901		

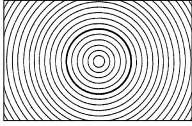
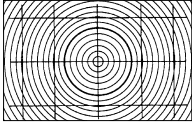
for Nikon F100/per Nikon F100

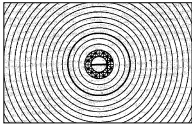
Order code Codice di comando	Description	Descrizione	Order code Codice di comando	Description	Descrizione
F1B 	Focusing screen A Matte screen with Fresnel field with 12 mm central circle for reference; with split-image range-finder; for general photography using lenses with high light intensity	Vetrino di messa a fuoco B Area smerigliata ad anelli di Fresnel. Cerchio di riferimento di 12 mm. Per macrofotografia e teleobiettivi	F1E 	Focusing screen G Clear Fresnel focusing screen with 12 mm microprism centre circle; for focusing in low light conditions; available in 4 versions depending on lens focal length	Vetrino di messa a fuoco E Zona centrale 12 mm finemente smerigliata, circondata da anelli di Fresnel, area munita di reticolo. Per foto d'architettura con i PC-Nikkor e le riproduzioni
Type B F1B/FAC13001			Type E F1E/FAC13101		

for Nikon F90X/per Nikon F90X

Order code Codice di comando	Description	Descrizione	Order code Codice di comando	Description	Descrizione
FA910 	Focusing screen B Matte screen with Fresnel field and 12 mm centre circle for reference and focusing zone; for general photography	Vetrino di messa a fuoco B Area smerigliata ad anelli di Fresnel. Cerchio di riferimento di 12 mm. Per macrofotografia e teleobiettivi	FA911 	Focusing screen E Matte screen with Fresnel field and 12 mm centre circle for reference; vertical and horizontal lines and focusing zone; for architectural photography and reproduction	Vetrino di messa a fuoco E Zona centrale 12 mm finemente smerigliata, circondata da anelli di Fresnel, area munita di reticolo. Per foto d'architettura con i PC-Nikkor e le riproduzioni
Type B FA910/FAC10601			Type E FA911/FAC10501		

for Nikon FM3A/per Nikon FM3A

Order code Codice di comando	Description	Descrizione	Order code Codice di comando	Description	Descrizione
B3 	Focusing screen B Matte screen with Fresnel field and 12 mm centre circle for reference and focusing zone; for general photography	Vetrino di messa a fuoco B Area smerigliata ad anelli di Fresnel. Cerchio di riferimento di 12 mm. Per macrofotografia e teleobiettivi	E3 	Focusing screen E Matte screen with Fresnel field and 12 mm centre circle for reference; vertical and horizontal lines and focusing zone; for architectural photography and reproduction	Vetrino di messa a fuoco E Zona centrale 12 mm finemente smerigliata, circondata da anelli di Fresnel, area munita di reticolo. Per foto d'architettura con i PC-Nikkor e le riproduzioni
Type B FA301/FAC14101			Type E FA302/FAC14201		

K3 	Focusing Screen K Matte screen with Fresnel field and 4 mm microprism in 12 mm centre circle for reference; split-image range finder	Vetrino di messa a fuoco K telemetro centrale ad immagine spezzata con corona di microprismi; cerchio di riferimento 12 mm diametro di massima sensibilità esposimetrica; anelli Fresnel sulla restante superficie; per la fotografia generale
Type K FA300/FAC14001		

Close-up attachment lenses

Nikon close-up attachment lenses occupy little space and are easy to carry with you. They screw directly into the front thread of the lens (52/62 mm dia.), providing a simple and convenient way of increasing magnification. The lenses have no effect on automatic exposure control and TTL metering. Nikon Integrated Coating is applied for improving image contrast and reducing flare. The twoelement achromatic lenses (3T/4T/5T/6T) provide a high image quality. The longer the focal length of the lens used, the greater the magnification which can be achieved. The close-up attachment lenses can be used with a larger number of Nikkor and AF Nikkor lenses, either singly or in combination, and are an attractive option for beginners in close-up photography.

Close-up attachment lens no. 0

Order code FPF001AB
For thread diameter 52 mm
Diopter 0.7



Close-up attachment lens no. 1

Order code FPF002AC
For thread diameter 52 mm
Diopter 1.5



Close-up attachment lens no. 2

Order code FPF003AC
For thread diameter 52 mm
Diopter 3.0



Close-up attachment lens no. 3T

Order code FPF004AB
Special characteristic Two element achromatic lens
For thread diameter 52 mm
Diopter 1.5



Close-up attachment lens no. 4T

Order code FPF005AB
Special characteristic Two element achromatic lens
For thread diameter 52 mm
Diopter 2.9



Close-up attachment lens no. 5T

Order code FPF00601
Special characteristic Two element achromatic lens
For thread diameter 62 mm
Diopter 1.5



Close-up attachment lens no. 6T

Order code FPF00701
Special characteristic Two element achromatic lens
For thread diameter 62 mm
Diopter 2.9



CLOSE-UP ACCESSORIES • ACCESSORI PER MACROFOTOGRAFIA

Distance between close-up attachment lenses and subject, magnification and field of photography
 Distanza tra soggetto e lente addizionale, rapporto d'ingrandimento e area inquadrata

	Lens Obiettivo	Distance between close-up attachment lens and subject Distanza soggetto- obiettivo	Magnification (1/-) Rapporto di riproduzione (1/-)	Area covered Area inquadrata
Nr. 0	50 mm f/1.45	150-38,1	1/27-1/5,5	65,7×98,5-31,1×19,6
	50 mm f/1.25	151-41,6	1/27,4-1/6,2	65,6×98,5-14,8×22,2
	AF 50 mm f/1.85	150-38,1	1/27-1/5,3	65,6×98,4-12,8×19,1
	50 mm f/1.85	150-38,1	1/27,4-1/5,4	65,7×98,5-12,9×19,3
	24 mm f/2.85	151-27,7	1/57,9-1/7,8	139×208-18,6×27,9
	28 mm f/2.85	151-19,6	1/49-1/3,7	118×178-8,8×13,2
	35 mm f/2.5	152-27,5	1/39-1/4,9	94,1×141-11,8×17,6
	AF 35-70 mm f/3.3-4.55	42-152 (32)	1/5,1-1/39 (1/3,7-1/7)	123×85-94×141 (89×134-16,9×25,4)
Nr. 1	50 mm f/1.45	77,1-33,4	1/13-1/5	31,3×47-10,8×16,2
	50 mm f/1.25	77,9-35,9	1/13-1/5	31,3×46,9-12×18
	AF 50 mm f/1.85	77,1-33,4	1/13-1/4,4	31,3×46,9-10,5×15,8
	50 mm f/1.85	76,9-33,3	1/13-1/4,4	31,3×47-10,6×15,9
	24 mm f/2.85	77,8-25,8	1/27,6-1/6,9	66,2×99,3-16,5×24,7
	28 mm f/2.85	77,6-19,1	1/24-1/3,4	56,5×84,7-8,3×12,4
	35 mm f/2.5	78,3-26,1	1/19-1/4,4	44,8×67,2-10,6×16
	AF 35-70 mm f/3.3-4.55	37-79 (30)	1/4,2-1/19 (1/3,3-1/6,1)	101×151-45×67 (78×11,7-14,7×22,1)
Nr. 2	50 mm f/1.45	43,5-27,5	1/6,6-1/3,4	15,7×23,6-8,1×12,1
	50 mm f/1.25	44,3-29,2	1/6,6-1/3,7	15,7×23,6-8,8×13,2
	AF 50 mm f/1.85	43,4-27,5	1/6,6-1/3,3	15,7×23,6-7,9×11,8
	50 mm f/1.85	43,2-27,3	1/6,6-1/3,3	15,7×23,6-7,9-11,9
	24 mm f/2.85	44,1-23	1/13,9-1/5,6	33,3×49,9-13,4×20,2
	28 mm f/2.85	44-18,2	1/12-1/3,1	28,4×42,6-7,4×11,1
	35 mm f/2.5	44,6-23,4	1/9,4-1/3,7	22,5×33,8-8,7×13,1
	AF 35-70 mm f/3.3-4.55	30-45,6 (26)	1/3,1-1/9,4 (1/2,6-1/4,9)	74×11,1-22,6×34 (6,2×9,3-11,7×17,6)

	Lens Obiettivo	Distance between close-up attachment lens and subject Distanza soggetto- obiettivo	Magnification (1/-) Rapporto di riproduzione (1/-)	Area covered Area inquadrata
3T	85 mm f/2.5	46-77	3,8-7,8	13,7×9-28×18,6
	105 mm f/2.55	51-78	3,3-6,3	12×8-22,7×15
	Micro 105 mm f/2.85	79,6-34,6	1/6,3-1/5,1	15,1×22,7-3,6×5,4
	AF Micro 105 mm f/2.85	81,9-29,3	1/6,3-1,2	15,2×22,8-2×3
	135 mm f/2.85	57-80	2,7-4,9	10×6,6-17,6×11,7
	135 mm f/3.55	57-80	2,7-4,9	10×6,5-17,6×11,7
	200 mm f/4.5	68-83	2,0-3,3	7,2×4,8-12×8
	Micro 200 mm f/4.5	88,5-50,3	1/3,3-1/1,15	11,8×7,9-4,1×2,7
	4T	85 mm f/2.5	35-44	2,5-4,0
105 mm f/2.55		38-46	2,2-3,2	7,8×5,2-11,6×7,7
Micro 105 mm f/2.85		47-30,7	1/3,2-1/1,2	7,7×11,5-2,9×4,3
AF Micro 105 mm f/2.85		49,5-27,8	1/3,2-1,4	7,8×11,7-1,7-2,6
135 mm f/2.85		41-47	1,7-2,5	6,1×4,1-9×6
135 mm f/3.55		41-47	1,7-2,5	6,1×4,1-9×6
200 mm f/4.5		48-51	1,2-1,7	4,2×2,8-6,1×4,1
Micro 200 mm f/4.5	56,1-42,2	1/1,7-1,22	6×4-2,9×1,93	
3T+4T	85 mm f/2.5	29,2-33,5	1,9-2,7	6,8×4,5-9,4×6,2
	105 mm f/2.55	31,8-35,1	1,6-2,2	5,8×3,8-7,7×5,1
	Micro 105 mm f/2.85	36,7-29	1/2,2-1,0	5,2×7,8-2,3×3,5
	AF Micro 105 mm f/2.85	38,6-27	1/2,2-1,6	5,2×7,8-1,5×2,3
	135 mm f/2.85	34,6-36,6	1,2-1,7	4,4×2,9-6×4
	135 mm f/3.55	34,7-36,5	1,3-1,7	4,6×3,1-6×4
	200 mm f/4.5	40-40	0,83-1,1	3×2-4×2,7
Micro 200 mm f/4.5	45,2-38	1/1,1-1,58	4×2,7-2,2×1,5	

	Lens Obiettivo	Distance between close-up attachment lens and subject Distanza soggetto- obiettivo	Magnification (1/-) Rapporto di riproduzione (1/-)	Area covered Area inquadrata
5T	35-70 mm f/3.5 (35 mm)	45-81	9,4-18,5	34×23-67×44
	35-70 mm f/3.5 (50 mm)	45-81	6,9-13,5	25×17-47×31
	35-70 mm f/3.5 (70 mm)	45-81	4,9-9,7	18×12-35×23
	50-135 mm f/3.5 (50 mm)	60,4-84,3	7,5-13,0	26,9×17,9-46,6×31,1
	50-135 mm f/3.5 (85 mm)	60,4-84,3	4,5-7,8	16,3×10,8-28,2×18,8
	50-135 mm f/3.5 (105 mm)	60,4-84,3	3,7-6,3	13,1×8,8-22,8×15,2
	50-135 mm f/3.5 (135 mm)	60,4-84,3	2,9-5,1	10,5×7,0-18,4×12,2
	50-135 mm f/3.5	43,5	3,7	13,5×9
	105 mm f/1.3	49,5-76,6	3,4-6,7	12,2×8,1-23,9×16
	80-200 mm f/4 (80 mm)	62-87	4,4-8,3	16×11-30×19
	80-200 mm f/4 (105 mm)	62-87	3,3-6,3	12×8-23×15
6T	80-200 mm f/4 (135 mm)	62-87	2,6-4,9	9,4×6,2-18×12
	80-200 mm f/4 (200 mm)	62-87	1,8-3,4	6,5×4,3-12×8,2
	35-70 mm f/3.5 (35 mm)	36-49	6,6-9,5	24×16-23×34
	35-70 mm f/3.5 (50 mm)	36-49	4,8-6,9	17×12-25×17
	35-70 mm f/3.5 (70 mm)	36-49	3,4-5,0	12×8,2-18×12
	50-135 mm f/3.5 (50 mm)	44,8-51,9	4,7-6,7	16,9×11,3-23,9×16
	50-135 mm f/3.5 (85 mm)	44,8-51,9	2,8-4,0	10,2×6,8-14,4×9,6
	50-135 mm f/3.5 (105 mm)	44,8-51,9	2,3-3,2	8,2×5,5-11,7×7,8
	50-135 mm f/3.5 (135 mm)	44,8-51,9	1,8-2,6	6,6×4,4-9,4×6,2
	50-135 mm f/3.5	37	2,8	10×6,6
	105 mm f/1.8	36,1-44,2	2,2-3,4	7,9×5,3-12,3×8,2
5T+6T	80-200 mm f/4 (80 mm)	47-54	2,8-4,3	10×6,7-15×10
	80-200 mm f/4 (105 mm)	47-54	2,1-3,2	7,6×5-12×7,7
	80-200 mm f/4 (135 mm)	47-54	1,7-2,5	6×4-9×6
	80-200 mm f/4 (200 mm)	47-54	1,1-1,8	4×2,6-6,5×4,3
	35-70 mm f/3.5 (35 mm)	31-38	5,0-6,3	18×12-23×15
	35-70 mm f/3.5 (50 mm)	31-38	3,7-4,6	13×9-17×11
	35-70 mm f/3.5 (70 mm)	31-38	2,6-3,3	9,4×6,2-12×7,9
	50-135 mm f/3.5 (85 mm)	38-41	2,1-2,7	7,6×5,0-9,6×6,4
50-135 mm f/3.5 (105 mm)	38-41	1,7-2,1	6,0×4,0-7,8×5,2	
50-135 mm f/3.5 (135 mm)	38-41	1,3-1,7	4,8×3,2-6,2×4,2	
105 mm f/1.8	29,8-33,1	1,6-2,3	5,8×3,9-8,2×5,4	
80-200 mm f/4 (80 mm)	41-43	2,1-2,8	7,6×5-10×6,7	
80-200 mm f/4 (105 mm)	41-43	1,5-2,2	5,4×3,6-8×5,3	
80-200 mm f/4 (135 mm)	41-43	1,2-1,7	4,3×2,9-6,1×4	
80-200 mm f/4 (200 mm)	41-43	0,84-1,2	3×2-4,3×2,9	

Bellows focusing attachment PB-6

Order code	FPA003AA
Suitable lenses	20 mm – 200 mm
Bellows extension	48 mm – 208 mm
Magnification	See table
Support movement	180 mm
Dimensions	98 × 155 × 238 mm (W × H × L)
Weight	1000 g



Extension bellows PB-6E

Order code	FPW21401
Bellows extension	83 mm – 438 mm (PB-6 with PB-6E)
Magnification	see table
Dimensions	82 × 155 × 230 mm (W × H × D)
Weight	800 g



Macro copy stand PB-6M

Order code	FPW21301
Magnification	PB-6 bellows attachment with PB-6M macro copy stand; see table
Baseboard	one white acrylic board, one grey aluminium alloy board
Dimensions	90 × 144 × 27 mm (W × H × D)
Weight	150 g with acrylic board 177 g with aluminium board



Slide copying adapter PS-6

Order code	FPW21201
Originals to be copied	35 mm film framed (up to 4 mm frame thickness) or unframed in strips or rolls
Originals	
Suitable lenses	20 mm – 55 mm
Reproduction ratio	see table
Movable slideholder	6 mm upwards and downwards 9 mm to each side
Bellows extension	60 mm
Dimensions	88 × 118 × 42 mm (W × H × D)
Weight	300 g



Bellows spacer PB-6D

Order code	FPW21801
Use	with the bellows space (two pieces required) a motorized camera can be used with the PB-6



Slide copier ES-1

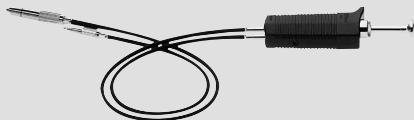
Order code	FHW00301
Function	slide copying
Use	micro Nikkor 55 mm f/2.8 and PK-13 or AF micro Nikkor 60 mm f/2.8 D and BR-5 or PB-6 bellows
Dimensions	72 mm \varnothing × 80 mm
Weight	150 g



Double cable release AR-7

mechanical/mechanical

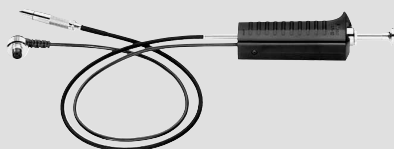
Order code	FPW21701
Function	maintenance of the automatic diaphragm control between the camera and the bellow focusing attachment PB-6 release plug
Use	for all cameras with a cable release plug



Double cable release AR-10

electrical/mechanical

Order code	FPW21901
Function	same as AR-7
Use	for all cameras with a remote shutter release plug; with adap- tercord MC-25 and for Nikon F90X



Grey card

Order code	GRK/FXA10064
-------------------	--------------

Inversion ring BR-2A

Order code FPW00202
Mount 52 mm \varnothing / bayonet
Function mounting a 52 mm \varnothing lens to camera in inverted position



Adapter ring BR-5

Order code FTW00401
Mount 52 mm \varnothing / 62 mm \varnothing
Function mounting a 62 mm \varnothing lens to camera in inverted position in conjunction with BR-2A only
Use



Conversion ring BR-3

Order code FPW00301
Mount 52 mm \varnothing / bayonet
Function adapter between bayonet mount on inverted lens to 52 mm threaded mount
Use 52 mm \varnothing filters and lens hoods



Auto ring BR-6

Order code FPW01301
Mount 52 mm \varnothing / bayonet / shutter cable
Function retention of automatic diaphragm function for lenses mounted in inverted position by means of AR-7/AR-10 twin shutter cable
Use 52 mm \varnothing filters and lens hoods



Adapter ring UR-F3

Order code FSW90301
Function connecting AF micro Nikkor 60 mm f/2.8 D to TTL macro flash SB-21



Magnifications with PB-6/PB-6E

Rapporto di riproduzione con PB-6/PB-6E

Lens Obiettivo	Subject field		Reproduction ratio																								Campo
			∞	3/∞	360	180	144	108	72	36	18	12	9	7,2	6	5,1	4,5	4	3,6	3,3	3	2,6	2,3	2	1,8	1,6	
		1/∞=3	1/∞=3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
20 mm f/2.8	① Reverse	Extension																									
		Working distance																									
24 mm f/2.8 24 mm f/2	① Reverse	Extension																									
		Working distance																									
28 mm f/2.8 28 mm f/2 28 mm f/3.5 PC	② Normal	Extension																									
		Working distance																									
	① Reverse	Extension																									
		Working distance																									
35 mm f/2	③ Normal	Extension																									
		Working distance																									
35 mm f/1.4	① Reverse	Extension																									
		Working distance																									
35 mm f/2.8	③ Normal	Extension																									
		Working distance																									
35 mm f/2.8 PC	① Reverse	Extension																									
		Working distance																									
50 mm f/1.2 50 mm f/1.8 50 mm f/1.4	③ Normal	Extension																									
		Working distance																									
	① Reverse	Extension																									
		Working distance																									
55 mm f/2.8 Micro	④ Normal	Extension																									
		Working distance																									
	Reverse	Extension																									
		Working distance																									
58 mm f/1.2 Noct	⑤ Normal	Extension																									
		Working distance																									
	⑥ Reverse	Extension																									
		Working distance																									
85 mm f/1.4 85 mm f/2	③ Normal	Extension																									
		Working distance																									
	⑥ Reverse	Extension																									
		Working distance																									
105 mm f/2.8 Micro	③ Normal	Extension																									
		Working distance																									
105 mm f/1.8 105 mm f/2.5	⑥ Reverse	Extension																									
		Working distance																									
135 mm f/3.5 135 mm f/2.8 135 mm f/2	③ Normal	Extension																									
		Working distance																									
	⑥ Reverse	Extension																									
		Working distance																									
180 mm f/2.8 ED	③ Normal	Extension																									
		Working distance																									
200 mm f/4	③ Normal	Extension																									
		Working distance																									

Working distance:

Distance between subject (in sharp focus) and the front edge of the lens barrel. If the lens is reversemounted, this distance is the distance between the subject and the rear edge of the lens.

Notes:

Magnification at setting. – If there are several lenses, the magnification data applies only to the first lens (e.g. for 24 mm f/2.8 and f/2.0, it applies to 24 mm f/2.8).
 – The 135 mm f/2.0 and PC-Nikkor 28 mm f/3.5 lenses can not be reverse-mounted since the diameters of the front rings are too large. – For close-up and macrophotography, we particularly recommend the following lens: Micro Nikkor 55 mm f/2.8 and Micro Nikkor 105 mm f/2.8.

- ① Optimum picture quality with f/8
- ② The smaller the aperture the better the picture quality. Unsuitable for reproduction.
- ③ The smaller the aperture the better the picture quality.
- ④ Optimum picture quality with f/8; the quality deteriorates with smaller apertures. The 50 mm f/1.2 lens is not suitable for reproduction.
- ⑤ Unsuitable for reproduction.
- ⑥ The picture quality in the corners becomes poorer with low magnification.

Distanza di lavoro:

Distanza compresa tra il soggetto ed il bordo anteriore dell'obiettivo. Invertendo l'obiettivo, la distanza ottenuta è quella compresa tra il soggetto ed il bordo porta-obbiettivi del soffietto.

Notes:

I rapporti di riproduzione sono quelli ottenuti all'infinito. – Se più di un obiettivo figura in una colonna (ad. es. 24/2.8 e 24/2) i rapporti di riproduzione si riferiscono al primo menzionato. – Il 135/2 ed il 28/3.5 PC non possono essere invertiti. – Nella fotografia macro sono particolarmente consigliati il 55 mm f/2.8 Micro ed il 105 mm f/2.8 Micro.

- ① Qualità ottimale d'immagine a f/8.
- ② Più chiudete il diaframma dell'obiettivo, più migliora la qualità. Non conviene per la riproduzione.
- ③ Più chiudete il diaframma dell'obiettivo, più migliora la qualità.
- ④ La qualità d'immagine è ottimale a f/8 e diminuisce a diaframmi più chiusi. Il 50 mm f/1.2 non conviene per la riproduzione.
- ⑤ Non conviene per la riproduzione.
- ⑥ La qualità d'immagine diminuisce ai bordi con deboli rapporti di ingrandimento.

☐ = only with PB-6

◻ = with PB-6 and PB-6E in combination

☐ = solamente con PB-6

◻ = con PB-6 et PB-6E

Magnifications with PS-6

Rapporto di riproduzione PS-6

Lens Obiettivo			Subject field																				Campo						
			∞	360	180	144	108	72	36	18	12	9	7.2	6	5.1	4.5	4	3.6	3.3	3	2.6	2.3		2	1.8	1.6	1.5		
		Reproduction ratio		1/∞=3	1/103	1/53	1/43	1/33	1/23	1/13	1/8	1/6	1/5.1	1/4.5	1/4	1/3.6	1/3.3	1/3	1/2.6	1/2.3	1/2	1/1.8	1/1.6	1/1.5					
20 mm f/2.8	Reverse	Extension																								Invertito	Allungamento		
		Working distance																										Distanza di ripresa	
24 mm f/2.8 24 mm f/2	Reverse	Extension																									Invertito	Allungamento	
		Working distance																										Distanza di ripresa	
28 mm f/2.8 f/2, f/3.5 PC	Reverse	Extension																									Invertito	Allungamento	
		Working distance																										Distanza di ripresa	
35 mm f/2, f/1.4, f/2.8, f/2.8 PC	Reverse	Extension																									Invertito	Allungamento	
		Working distance																										Distanza di ripresa	
50 mm f/1.2 50 mm f/1.8 50 mm f/1.4	Normal	Extension																									Normale	Allungamento	
		Working distance																										Distanza di ripresa	
	Reverse	Extension																										Invertito	Allungamento
		Working distance																											Distanza di ripresa
55 mm f/2.8 Micro	Normal	Extension																									Normale	Allungamento	
		Working distance																										Distanza di ripresa	
	Reverse	Extension																										Invertito	Allungamento
		Working distance																											Distanza di ripresa

Magnifications with PB-6M

Rapporto di riproduzione con PB-6M

Lens Obiettivo			Subject field																				Campo						
			∞	360	180	144	108	72	36	18	12	9	7.2	6	5.1	4.5	4	3.6	3.3	3	2.6	2.3		2	1.8	1.6	1.5		
		Reproduction ratio		1/∞=3	1/103	1/53	1/43	1/33	1/23	1/13	1/8	1/6	1/5.1	1/4.5	1/4	1/3.6	1/3.3	1/3	1/2.6	1/2.3	1/2	1/1.8	1/1.6	1/1.5					
20 mm f/2.8	Reverse	Extension																									Invertito	Allungamento	
		Working distance																										Distanza di ripresa	
24 mm f/2.8 24 mm f/2	Reverse	Extension																									Invertito	Allungamento	
		Working distance																										Distanza di ripresa	
28 mm f/2.8 28 mm f/2 28 mm f/3.5 PC	Normal	Extension																									Normal	Allungamento	
		Working distance																										Distanza di ripresa	
	Reverse	Extension																										Invertito	Allungamento
		Working distance																											Distanza di ripresa
35 mm f/2 35 mm f/1.4 35 mm f/2.8 35 mm f/2.8 PC	Normal	Extension																									Normal	Allungamento	
		Working distance																										Distanza di ripresa	
	Reverse	Extension																										Invertito	Allungamento
		Working distance																											Distanza di ripresa
50 mm f/1.2 50 mm f/1.8 50 mm f/1.4	Normal	Extension																									Normal	Allungamento	
		Working distance																										Distanza di ripresa	
	Reverse	Extension																										Invertito	Allungamento
		Working distance																											Distanza di ripresa
55 mm f/2.8 Micro	Normal	Extension																									Normal	Allungamento	
		Working distance																										Distanza di ripresa	
	Reverse	Extension																										Invertito	Allungamento
		Working distance																											Distanza di ripresa

Working distance:

Distance between subject (sharply focused) and the front edge of the lens barrel. If the lens is reverse-mounted, this distance is the distance between the subject and the rear edge of the lens.

Notes:

- Magnification at setting.
- If there are several lenses, the magnification data applies only to the first lens (e.g. for 24 mm f/2.8 and f/2.0, it applies to 24 mm f/2.8).
- The 135 mm f/2.0 and PC-Nikkor 28 mm f/3.5 lenses cannot be reverse-mounted since the diameters of the front rings are too large.
- For close-up and macrophotography, we particularly recommend the following lenses: Micro Nikkor 55 mm f/2.8 and Micro Nikkor 105 mm f/2.8

Distanza di lavoro:

Distanza compresa tra il soggetto ed il bordo anteriore dell'obiettivo. Invertendo l'obiettivo, la distanza ottenuta è quella compresa tra il soggetto ed il bordo porta-obiettivi del soffietto

Note:

- I rapporti di riproduzione sono quelli ottenuti all'infinito.
- Se più di un obiettivo figura in una colonna (ad. es. 24/2.8 e 24/2) i rapporti di riproduzione si riferiscono al primo menzionato.
- Il 135/2 ed il 28/3.5 PC non possono essere invertiti.
- Nella fotografia macro sono particolarmente consigliati il 55 mm f/2.8 Micro ed il 105 mm f/2.8 Micro.

Auto extension rings with AI diaphragm coupling

Extension ring PK-11A

Order code	FPW00703
Extension	8 mm
Dimensions	64.4 mm \varnothing × 17.8 mm
Weight	50 g



Extension ring PK-12

Order code	FPW00802
Extension	14 mm
Dimensions	64.4 mm \varnothing × 23.6 mm
Weight	75 g



Extension ring PK-13

Order code	FPW00902
Extension	27.5 mm
Dimensions	64.4 mm \varnothing × 30.5 mm



Extension ring PN-11

Order code	FPW01002
Extension	52.5 mm
Dimensions	70.5 mm \varnothing × 67 mm
Weight	245 g



Extension ring combination

Extension ring combination	Extension (mm)
PK-11A	8
PK-12	14
PK-11A+PK12	22
PK-13	27.5
PK-11A+PK-13	35.5
PK-12+PK-13	41,5
PK-11A+PK-12+PK-13	49,5

CLOSE-UP ACCESSORIES • ACCESSORI PER MACROFOTOGRAFIA

The Nikon auto extension rings can be inserted in your camera bayonet with a simple action and permit a large number of different magnifications. The three PK rings – PK-11, 12 and 13 – and the PN-11 ring can be used either singly or in combination between camera and lens and retain the automatic function and meter coupling of the Nikkor and Nikon Series lenses. In other words, the picture composition, focusing and metering can be carried out at the bright, full-aperture position without having to stop down the lens manually before shooting. The extension rings have no effect on automatic exposure control of the corresponding Nikon cameras.

I tre anelli – PK-11, 12 e 13 – e l'anello PN-11 si montano tra il corpo macchina e l'obiettivo da soli od in combinazione. Essi conservano l'automatismo di preselezione del diaframma e di accoppiamento esposimetrico con gli obiettivi Nikkor AI e Nikon Serie E. Usufite quindi del vantaggio della luminosità massima su tutti i tempi di visione e di misurazione. È inutile diaframmare manualmente prima di scattare. All'occorrenza, questi anelli permettono anche la regolazione automatica dell'esposizione.

Nikkor 20 mm f/2.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/8	∞×∞–7,5×11,2 ∞×∞–18,9×28,4	∞–9,8 ∞–25,0	1,0–1,1
PK-11 A	1/2,6–1/2	2,4×3,6–1,8×2,7 6,1×9,2–4,6×7,0	5,4–5,0 13,7–12,7	1,3–1,4
PK-12	1/1,5–1/1,2	1,4×2,1–1,2×1,8 3,5×5,3–3,0×4,4	4,7–4,7 12,1–11,8	1,6–1,7
PK-11 A + PK-12	1,1–1,2	0,88×1,3–0,79×1,2 2,2×3,4–2,0×3,0	4,6–4,7 11,8–11,8	2,0–2,1
PK-13	1,3–1,5	0,70×1,1–0,64×0,97 1,8×2,7–1,6×2,5	4,7–4,7 11,9–12,1	2,3–2,4
PK-11 A + PK-13	1,7–1,9	0,55×0,82–0,51×0,76 1,4×2,1–1,3×1,9	4,9–4,9 12,4–12,6	2,8–2,9
PK-12 + PK-13	2,0–2,2	0,47×0,70–0,44×0,66 1,2×1,8–1,1×1,7	5,0–5,1 12,8–13,0	3,1–3,3
PK-11 A + PK-12 + PK-13	2,4–2,5	0,39×0,59–0,37×0,56 0,99×1,5–0,94×1,4	5,3–5,4 13,4–13,7	3,7–3,9

AF Nikkor 28 mm f/2.8 D

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/7,6	∞×∞–7,2×10,8 ∞×∞–18,2×27,4	∞–11,8 ∞–30,1	1,0–1,1
PK-11 A	1/3,6–1/2,4	3,4×5,1–2,3×3,5 8,6×13,0–5,9×8,8	7,5–6,3 19,0–16,0	1,3–1,5
PK-12	1/2,1–1/1,6	1,9×2,9–1,5×2,3 4,9×7,4–3,9×5,8	6,0–5,6 15,1–14,2	1,6–1,8
PK-11 A + PK-12	1/1,3–1/1,1	1,2×1,9–1,1×1,6 3,1×4,7–2,7×4,0	5,4–5,4 13,8–13,6	2,0–2,2
PK-13	1,0–1,1	0,99×1,5–0,87×1,3 2,5×3,8–2,2×3,3	5,3–5,3 13,6–13,6	2,3–2,5
PK-11 A + PK-13	1,2–1,4	0,77×1,1–0,69×1,0 1,9×2,9–1,8×2,6	5,4–5,4 13,7–13,8	2,7–3,0
PK-12 + PK-13	1,4–1,6	0,66×0,98–0,60×0,90 1,7×2,5–1,5×2,3	5,5–5,6 13,9–14,2	3,1–3,4
PK-11 A + PK-12 + PK-13	1,7–1,9	0,55×0,82–0,51×0,77 1,4×2,1–1,3×1,9	5,7–5,8 14,4–14,7	3,7–3,9

AF Nikkor 24 mm f/2.8 D, Nikkor 24 mm f/2.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/8,8	∞×∞–8,4×12,5 ∞×∞–21,2×31,8	∞–11,8 ∞–30,0	1,0–1,1
PK-11 A	1/3,0–1/2,3	2,9×4,3–2,1×3,2 7,3×11,0–5,4×8,2	6,5–5,8 16,4–14,8	1,3–1,4
PK-12	1/1,7–1/1,5	1,6×2,5–1,4×2,1 4,2×6,3–3,5×5,2	5,4–5,3 13,8–13,4	1,5–1,7
PK-11 A + PK-12	1/1,1–1,0	1,0×1,6–0,93×1,4 2,7×4,0–2,4×3,5	5,2–5,1 13,1–13,1	1,9–2,0
PK-13	1,1–1,2	0,84×1,3–0,76×1,1 2,1×3,2–1,9×2,9	5,2–5,2 13,1–13,2	2,2–2,3
PK-11 A + PK-13	1,5–1,6	0,65×0,97–0,6×0,9 1,6×2,5–1,5×2,3	5,3–5,3 13,4–13,6	2,6–2,8
PK-12 + PK-13	1,7–1,8	0,56×0,83–0,52×0,78 1,4×2,1–1,3×2,0	5,4–5,5 13,8–14,0	2,9–3,1
PK-11 A + PK-12 + PK-13	2,0–2,1	0,47×0,70–0,44×0,66 1,2×1,8–1,1×1,7	5,6–5,7 14,3–14,5	3,4–3,6

Nikkor 35 mm f/1.4, 35 mm f/2, 35 mm f/2.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/5,5	∞×∞–5,2×7,9 ∞×∞–13,3×19,9	∞–11,8 ∞–29,9	1,0–1,3
PK-11 A	1/4,5–1/2,5	4,3×6,4–2,4×3,5 10,8×16,2–6,0×8,9	10,4–7,8 26,3–19,7	1,3–1,7
PK-12	1/2,6–1/1,8	2,4×3,6–1,7×2,5 6,2×9,3–4,2×6,3	7,9–7,0 20,0–17,7	1,6–2,0
PK-11 A + PK-12	1/1,6–1/1,3	1,6×2,3–1,2×1,8 3,9×5,9–3,0×4,5	6,9–6,6 17,4–16,7	2,1–2,4
PK-13	1/1,3–1/1,1	1,2×1,9–1,0×1,5 3,1×4,7–2,5×3,8	6,6–6,5 16,8–16,5	2,4–2,8
PK-11 A + PK-13	1,0–1,2	0,96×1,4–0,81×1,2 2,4×3,7–2,1×3,1	6,5–6,5 16,5–16,6	2,9–3,3
PK-12 + PK-13	1,2–1,3	0,82×1,2–0,71×1,1 2,1×3,1–1,8×2,7	6,5–6,6 16,6–16,8	3,3–3,8
PK-11 A + PK-12 + PK-13	1,4–1,6	0,69×1,0–0,61×0,91 1,7×2,6–1,5×2,3	6,7–6,8 16,9–17,2	3,9–4,4

Nikkor 50 mm f/1.2, 50 mm f/1.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
—	1/∞–1/6,7	∞×∞–6,3×9,5 ∞×∞–16,1×24,1	∞–17,7 ∞–44,9	1–1,3
PK-11 A	1/6,4–1/3,3	6,1×9,1–3,1×4,7 15,5×23,2–7,9×11,8	17,2–11,1 43,8–28,2	1,3–1,6
PK-12	1/3,7–1/2,4	3,5×5,2–2,3×3,4 8,8×13,3–5,7×8,6	11,8–9,5 30,0–24,0	1,5–1,9
PK-11 A + PK-12	1/2,3–1/1,7	2,2×3,3–1,6×2,5 5,6×8,4–4,2×6,3	9,4–8,5 23,9–21,5	1,9–2,2
PK-13	1/1,9–1/1,5	1,8×2,7–1,4×2,1 4,5×6,8–3,5×5,3	8,7–8,1 22,0–20,7	2,1–2,5
PK-11 A + PK-13	1/1,5–1/1,2	1,4×2,1–1,1×1,7 3,5×5,2–2,9×4,3	8,1–7,9 20,7–20,1	2,5–3,0
PK-12 + PK-13	1/1,2–1,0	1,2×1,8–0,99×1,5 3,0×4,5–2,5×3,8	7,9–7,9 20,2–19,9	2,9–3,3
PK-11 A + PK-12 + PK-13	1,0–1,1	0,98×1,5–0,85×1,3 2,5×3,8–2,2×3,2	7,9–7,9 19,9–20,0	3,3–3,8

AF Nikkor 50 mm f/1.8, Nikkor 50 mm f/1.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
—	1/∞–1/6,6	∞×∞–6,3×9,4 ∞×∞–15,9×23,8	∞–17,7 ∞–44,9	1–1,3
PK-11 A	1/6,5–1/3,3	6,1×9,1–3,1×4,6 15,5×23,2–7,8×11,8	17,3–11,2 44,0–28,4	1,3–1,7
PK-12	1/3,7–1/2,4	3,5×5,2–2,2×3,4 8,8×13,3–5,7×8,5	12,0–9,6 30,4–24,3	1,6–2,0
PK-11 A + PK-12	1/2,4–1/1,7	2,2×3,3–1,6×2,5 5,6×8,4–4,2×6,2	9,5–8,6 24,3–21,9	2,0–2,4
PK-13	1/1,9–1/1,5	1,8×2,7–1,4×2,1 4,5×6,8–3,5×5,3	8,8–8,3 22,4–21,0	2,3–2,7
PK-11 A + PK-13	1/1,5–1/1,2	1,4×2,1–1,1×1,7 3,5×5,2–2,9×4,3	8,3–8,0 21,0–20,4	2,7–3,2
PK-12 + PK-13	1/1,2–1,1	1,2×1,8–0,99×1,5 3,0×4,5–2,5×3,8	8,1–8,0 20,5–20,3	3,1–3,6
PK-11 A + PK-12 + PK-13	1,0–1,1	0,98×1,5–0,85×1,3 2,5×3,8–2,2×3,2	8,0–8,0 20,3–20,3	3,7–4,2

Micro-Nikkor 55 mm f/2.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
—	1/∞–1/1,9	∞×∞–1,8×2,7 ∞×∞–4,6×6,9	∞–9,8 ∞–25,0	1,0–2,3
PK-11 A	1/6,9–1,15	6,5×9,7–1,4×2,2 16,5×24,8–3,6×5,5	19,6–9,2 49,7–23,5	1,3–2,8
PK-12	1/3,9–1/1,3	3,1×4,7–1,2×1,9 9,4×14,1–3,7×5,6	13,4–9,0 34,1–22,9	1,5–3,1
PK-11 A + PK-12	1/2,5–1/1,1	2,4×3,5–1,0×1,6 6,0×9,0–2,7×4,0	10,6–8,9 27,1–22,5	1,9–3,6
PK-13	1/2,0–1,0	1,9×2,8–0,94×1,4 4,8×7,2–2,4×3,6	9,8–8,8 24,9–22,5	2,2–4,0
PK-11 A + PK-13	1/1,5–1,1	1,5×2,2–0,83×1,2 3,7×5,6–2,1×3,2	9,1–8,9 23,2–22,6	2,6–4,6
PK-12 + PK-13	1/1,3–1,2	1,3×1,9–0,76×1,1 3,2×4,8–1,9×2,9	8,9–9,0 22,5–22,7	3,0–5,1
PK-11 A + PK-12 + PK-13	1/1,1–1,4	1,0×1,6–0,68×1,0 2,7×4,0–1,7×2,6	8,7–9,1 22,2–23,1	3,5–5,7

AF Micro-Nikkor 60 mm f/2.8 D

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
—	1/∞–1,0	∞×∞–0,88×1,3 ∞×∞–2,2×3,4	∞–8,6 ∞–21,9	1,0–6,6
PK-11 A	1/7,5–1,2	7,1×10,6–0,77×1,2 18,0×27,0–2,0×2,9	23,0–8,7 58,5–22,1	1,3–7,9
PK-12	1/4,3–1,4	4,0×6,1–0,70×1,0 10,3×15,4–1,8×2,7	15,7–8,8 39,8–22,3	1,5–8,9
PK-11 A + PK-12	1/2,7–1,5	2,6×3,9–0,62×0,94 6,5×9,8–1,6×2,4	12,3–9,0 31,2–22,7	1,9–10,4
PK-13	1/2,2–1,6	2,1×3,1–0,58×0,87 5,2×7,9–1,5×2,2	11,2–9,1 28,5–23,1	2,2–11,5
PK-11 A + PK-13	1/1,7–1,8	1,6×2,4–0,53×0,79 4,1×6,1–1,3×2,0	10,4–9,3 26,3–23,6	2,6–13,2
PK-12 + PK-13	1/1,4–1,9	1,4×2,0–0,50×0,74 3,5×5,2–1,3×1,9	10,0–9,5 25,5–24,0	3,0–14,5
PK-11 A + PK-12 + PK-13	1/1,2–2,1	1,1×1,7–0,46×0,68 2,9×4,4–1,2×1,7	9,8–9,7 24,9–24,6	3,5–16,4

Nikkor 85 mm f/2, 85 mm f/1,4

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
—	1/∞–1/8,1	∞×∞–7,6×11,4 ∞×∞–19,4×29,0	∞–3,5 ∞–85,0	1,0–1,3
PK-11 A	1/10,6–1/4,6	10,0×15,1–4,3×6,5 25,5×38,2–11,0×16,5	41,9–22,1 106,0–56,2	1,2–1,6
PK-12	1/6,1–1/3,5	5,7×8,6–3,3×4,9 14,6×21,9–8,3×12,5	26,9–18,6 68,4–47,3	1,4–1,8
PK-11 A + PK-12	1/3,9–1/2,6	3,7×5,5–2,5×3,7 9,3×13,9–6,3×9,4	19,9–16,1 30,4–40,8	1,7–2,1
PK-13	1/3,1–1/2,2	2,9×4,4–2,1×3,2 7,4×11,1–5,4×8,0	17,5–15,0 44,4–38,2	1,9–2,3
PK-11 A + PK-13	1/2,4–1/1,8	2,3×3,4–1,7×2,6 5,7×8,6–4,4×6,6	15,5–14,0 39,3–35,7	2,2–2,7
PK-12 + PK-13	1/2,0–1/1,6	1,9×2,9–1,5×2,3 4,9×7,4–3,9×5,9	14,5–13,6 36,9–34,5	2,5–2,9
PK-11 A + PK-12 + PK-13	1/1,7–1/1,4	1,6×2,4–1,3×2,0 4,1×6,2–3,4×5,1	13,8–13,2 34,9–33,4	2,8–3,3

Nikkor 105 mm f/2.5, 105 mm f/1.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
—	1/∞–1/8,3	∞×∞–7,9×11,9 ∞×∞–20,0×30,0	∞–42 ∞–107	1,0–1,3
PK-11 A	1/13,1–1/5,1	12,4×18,6–4,8×7,2 31,5×47,3–12,2×18,3	61,6–28,0 157–73,5	1,2–1,5
PK-12	1/7,5–1/3,9	7,1×10,6–3,7×5,6 18,0×27,0–9,5×14,2	38,6–24,2 98,1–62,0	1,3–1,6
PK-11 A + PK-12	1/4,8–1/3,0	4,5×6,8–2,9×4,3 11,5×17,2–7,3×10,9	27,7–21,0 70,2–53,2	1,5–1,8
PK-13	1/3,8–1/2,6	3,6×5,4–2,5×3,7 9,2×13,7–6,3×9,4	23,9–19,5 60,8–49,4	1,6–2,0
PK-11 A + PK-13	1/3,0–1/2,2	2,8×4,2–2,1×3,1 7,1×10,6–5,2×7,9	20,1–18,0 52,5–45,6	1,8–2,2
PK-12 + PK-13	1/2,5–1/1,9	2,4×3,6–1,8×2,8 6,1×9,1–4,7×7,0	19,1–17,2 48,6–43,7	2,0–2,4
PK-11 A + PK-12 + PK-13	1/2,1–1/1,7	2,0×3,0–1,6×2,4 5,1×7,6–4,1×6,1	17,8–16,5 45,1–41,9	2,2–2,6

Micro-Nikkor 105 mm f/2.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/2	∞×∞–1,9×2,8 ∞×∞–4,8×7,2	∞–16,1 ∞–40,9	1,0–3,2
PK-11 A	1/13–1/1,7	12,4×18,6–1,6×2,4 31,5×47,3–4,0×6,0	63,6–15,4 162–39,1	1,2–3,8
PK-12	1/7,5–1/1,5	7,1×10,6–4,1×2,1 18,0×27,0–3,6×5,4	40,6–15,0 103–38,2	1,4–4,3
PK-11 A + PK-12	1/4,8–1/1,3	4,5×6,8–1,2×1,8 11,5×17,2–3,1×4,7	29,7–14,7 75,3–37,4	1,6–5,0
PK-13	1/3,8–1/1,2	3,6×5,4–1,7×1,7 9,2×13,7–2,9×4,3	25,9–14,6 65,9–37,1	1,8–5,5
PK-11 A + PK-13	1/3,0–1/1,1	2,8×4,2–1,0×1,5 7,1×10,6–2,6×3,9	22,7–14,5 57,6–36,9	2,1–6,2
PK-12 + PK-13	1/2,5–1,0	2,4×3,6–0,94×1,4 6,1×9,1–2,4×3,6	21,2–14,5 53,7–36,8	2,3–6,8
PK-11 A + PK-12 + PK-13	1/2,1–1,1	2,0×3,0–0,86×1,3 5,1×7,6–2,2×3,3	19,8–14,5 50,2–36,9	2,6–7,6

AF Micro-Nikkor 105 mm f/2.8

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
–	1/∞–1,0	∞×∞–0,95×1,4 ∞×∞–4,2×3,6	∞–12,4 ∞–31,4	1,0–5,7
PK-11 A	1/13,1–1,1	12,4×18,6–0,8×1,3 31,5×47,3–2,2×3,2	62,6–12,4 15,9–31,5	1,2–6,4
PK-12	1/7,5–1,2	7,1×10,6–0,79×1,2 18,0×27,0–2,0×3,0	39,5–12,4 100–31,6	1,3–7,0
PK-11 A + PK-12	1/4,8–1,3	4,5×6,8–0,73×1,1 11,5×17,2–1,8×2,8	28,5–12,6 72,4–31,9	1,5–7,8
PK-13	1/3,8–1,4	3,6×5,4–0,69×1,0 9,2×13,7–1,7×2,6	24,8–12,7 62,9–32,1	1,7–8,4
PK-11 A + PK-13	1/3,0–1,5	2,8×4,2–0,64×0,96 7,1×10,6–1,6×2,4	21,5–12,8 54,7–32,6	1,9–9,3
PK-12 + PK-13	1/2,5–1,6	2,4×3,6–0,60×0,91 6,1×9,1–1,5×2,3	20,0–13,0 50,8–32,9	2,1–10,0
PK-11 A + PK-12 + PK-13	1/2,1–1,7	2,0×3,0–0,57×0,85 5,1×7,6–1,4×2,2	18,6–13,1 47,3–33,4	2,4–11,0

Nikkor 135 mm f/2, 135 mm f/2.8, 135 mm f/3.5

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/7,5	∞×∞–7,1×10,6 ∞×∞–18,0×27,0	∞–51,3 ∞–130	1,0–1,5
PK-11 A	1/16,9–1/5,2	15,9×23,9–4,9×7,4 40,5×60,7–12,5×18,7	101–39,3 256–99,8	1,2–1,7
PK-12	1/9,6–1/4,2	9,1×13,7–4,0×6,0 23,1×34,7–10,1×15,2	62,5–34,4 159–87,3	1,4–1,9
PK-11 A + PK-12	1/6,1–1/3,4	5,8×8,7–3,2×4,8 14,7×22,1–8,1×12,2	44,2–30,2 112–76,7	1,6–2,2
PK-13	1/4,9–1/3,0	4,6×7,0–2,8×4,2 11,8×17,7–7,1×10,7	37,9–28,2 96,2–71,7	1,8–2,4
PK-11 A + PK-13	1/3,8–1/2,5	3,6×5,4–2,4×3,6 9,1×13,7–6,1×9,1	32,3–26,2 82,0–66,6	2,0–2,7
PK-12 + PK-13	1/3,3–1/2,3	3,1×4,6–2,1×3,2 7,8×11,7–5,4×8,2	29,6–25,1 75,2–63,7	2,2–2,9
PK-11 A + PK-12 + PK-13	1/2,7–1/2,0	2,6×3,9–1,9×2,8 6,5×9,8–4,8×7,2	27,1–24,0 68,9–60,9	2,3–3,2

AF Nikkor ED 180 mm f/2.8 IF

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/6,4	∞×∞–6,1×9,1 ∞×∞–15,4×23,1	∞–61,3 ∞–155,6	1,0–1,9
PK-11 A	1/22,5–1/5,0	21,3×31,9–4,7×7,1 54,0×81,0–12,0×18,0	173,2–51,5 440,0–130,7	1,2–2,2
PK-12	1/12,8–1/4,3	12,1×18,2–4,0×6,1 30,9×46,3–10,3×15,4	105,1–46,6 267,1–118,4	1,3–2,5
PK-11 A + PK-12	1/8,2–1/3,6	7,7×11,6–3,4×5,1 19,6×29,5–8,6×13,0	72,3–42,1 183,7–106,9	1,5–2,8
PK-13	1/6,5–1/3,2	6,2×9,3–3,1×4,6 15,7×23,6–7,8×11,7	61,0–39,8 154,8–101,1	1,7–3,1
PK-11 A + PK-13	1/5,1–1/2,8	4,8×7,2–2,7×4,0 12,2×18,3–6,8×10,2	50,8–37,2 129,1–94,5	1,9–3,5
PK-12 + PK-13	1/4,3–1/2,6	4,1×6,1–2,4×3,7 10,4×15,6–6,2×9,3	45,9–35,7 116,5–90,7	2,0–3,6
PK-11 A + PK-12 + PK-13	1/3,6–1/2,3	3,4×5,1–2,2×3,3 8,7×13,1–5,6×8,4	41,2–34,1 104,7–86,7	2,3–4,2

Micro-Nikkor 200 mm f/4.0 IF

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/2,0	∞×∞–1,9×2,8 ∞×∞–4,8×7,2	∞–28,0 ∞–71,1	1,0
PK-11 A	1/25,0–1/1,8	23,6×35,4–1,7×2,6 60,0×90,0–4,3×6,5	212–27,2 538–69,0	1,1
PK-12	1/14,3–1/1,7	13,5×20,2–1,6×2,4 34,3×51,4–4,0×6,1	128–26,7 325–67,8	1,3
PK-11 A + PK-12	1/9,1–1/1,5	8,6×12,9–1,5×2,2 21,8×32,7–3,7×5,6	87,2–26,2 222–66,5	1,4
PK-13	1/7,3–1/1,5	6,9×10,3–1,4×2,1 17,5×26,2–3,5×5,3	73,1–25,9 186–65,8	1,5
PK-11 A + PK-13	1/5,6–1/1,4	5,3×8,0–1,3×1,9 13,5×20,3–3,3×4,9	60,5–25,6 154–65,1	1,7
PK-12 + PK-13	1/4,8–1/1,3	4,6×6,8–1,2×1,8 11,6×17,3–3,1×4,6	54,5–25,4 138–64,6	1,8
PK-11 A + PK-12 + PK-13	1/4,0–1/1,2	3,8×5,7–1,1×1,7 9,7×14,5–2,9×4,3	48,5–25,3 123–64,2	2,0

Nikkor ED 300 mm f/4.5 IF

Extension Ring Anello di prolunga	Magnification Rapporto di riproduzione	Subject field Copertura di campo	Subject/film distance Distanza soggetto/ pellicola	Exposure factor Fattore di esposizione
–	1/∞–1/7,2	∞×∞–6,8×10,2 ∞×∞–17,2×25,8	∞–98,7 ∞–251	1,0
PK-11 A	1/37,5–1/5,9	35,4×53,1–5,5×8,3 89,9×135–14,1×21,1	468–85,7 1189–218	1,1
PK-12	1/21,4–1/5,2	20,2×30,3–4,9×7,3 51,4×77,1–12,4×18,6	279–78,8 708–200	1,2
PK-11 A + PK-12	1/13,6–1/4,5	12,9×19,3–4,2×6,3 32,7×49,0–10,7×16,1	187–71,9 476–183	1,4
PK-13	1/10,9–1/4,1	10,3×15,4–3,9×5,8 26,2×39,2–9,8×14,7	155–68,1 395–173	1,5
PK-11 A + PK-13	1/8,4–1/3,6	8,0×12,0–3,4×5,1 20,3×30,4–8,7×13,0	127–63,8 322–162	1,7
PK-12 + PK-13	1/7,2–1/3,3	6,8×10,2–3,2×4,7 17,3×26,0–8,0×12,0	113–61,2 286–155	1,8
PK-11 A + PK-12 + PK-13	1/6,1–1/3,0	5,7×8,6–2,9×4,3 14,5×21,8–7,3×10,9	99,1–58,33 252–148	2,0

Data back MF-29

for Nikon F5

Order code	FRW536AA
Imprinted data	year/month/day, day/hour/ minute, month/day/year or day/month/year
Data imprint	using six LED's
Data display	on back using liquid crystals
Usable film speed	ISO 32–3200
Power source	one CR-2025 lithium battery
Dimensions	150 × 60 × 29 mm (W × H × D)
Weight	81 g (without batteries)



Multi-control back MF-28

for Nikon F5

Order code	FRW535AA
Imprinted data	in frame: 7-segment, 6-digit LED between frames: 5 × 7 dot matrix 22-digit LCD in frame: year/month/day, month/day/year, day/month/ year, day/hour/ minute, frame count, 6-digit sequence number (up to 999 999), 6-digit fixed number between frames: year/month/day/hour/minute/ second, year/month/day/hour/ up to 8 characters, month/ day/ hour/minute/up to 8 cha- racters, day/hour/minute/ second/up to 8 characters, cap- tion with up to 22 characters, frame count, shutter speed/ aperture, exposure range for auto exposure bracketing, year/ up to 18 characters Timer function up to 99 hours, 59 minutes and 59 seconds; up to 999 shot cycles for up to 999 shootings Long exposure from 1 to 999 sec, 1 to 999 min. or 1 to 999 hours with the camera set at "bulb" Freeze focus when focus mode set to man- ual, shutter is released when the subject enters in-focus position Auto exposure bracketing up to 9 continuous frames with a variety of exposures from 1/3 to 2 EV; compensation select- able between +8 and -8 EV Speedlight switches on automatically with timer function 30 sec. before exposure Frame counter appears continuously in LCD panel Built-in quartz clock-hour clock accuracy within ±60 sec per month (at 20°C/68°F); date and time automatically programmed Power source two CR-2025 lithium batteries Dimensions 156 × 78 × 32 mm (W × H × D) Weight 150 g (without batteries)



Data back MF-27

for Nikon F5

Order code	FRW534AA
Imprinted data	Day/month/year, month/day/ year, year/month/day or day/hour/minute
Data imprint	using six LEDs
Data display	on back using liquid crystals
Usable film speed	ISO 32–3200
Power source	one CR-2025 lithium battery
Dimensions	156 × 78 × 22 mm (W × H × D)
Weight	100 g (without batteries)



Multi-control back MF-26

for Nikon F90 X

Order code	FRW533AA
Data imprint	year/month/day, month/day/ year, day/month/year, day/hour/ minute; frame number, sequen- tial numbering, six figure num- ber of your choice, shutter speed and aperture; or no imprint
Built-in clock	24-hour clock with 24 time zones; daylight savings time option; automatic leap year adjustment
Timing accuracy	± 30 sec. per month (at 20° C)
Data imprint	six-figure, seven-segment LCD; imprint adjustment according to film sensitivity from ISO 32 to 3200
Interval timing	interval adjustment up to 99 hours, 59 min 59 secs
Long exposure	exposures up to 99 hours, 59 min, 59 secs
Auto-exposure sequence	press shutter release button continuously for 2 to 19 expo- sures
Exposure bracketing	for 3 to 19 exposures of diffe- rent shutter speeds bracketed from 1/3 to 2 EV; suitable for all exposure types including manual
Flash exposure bracketing	for 3 to 19 exposures with flash time bracketing from 1/3 to 2 EV;
Multiple- exposures	2 to 19 exposures of the same frame are possible
Tripped focus	shutter is released automatical- ly as soon as object comes into focus
AE/AF memory	exposure and distance settings are put in memory
Custom reset	changing factory default set- tings for exposure, measuring system, film advance, AF range and flash
Flash output compensation	correction from +1 to -3 EV, in 1/3 increments
Power source	two 3 V lithium batteries type (CR-2025)
Dimensions	140 × 63 × 30 mm (W × H × D)
Weight	90 g (without batteries)



Data back MF-25

for Nikon F90X

Order code	FRW532AA
Data imprint options	year/month/day, month/day/year, day/month/year, day/hour/minute or no imprint
Built-in clock	24-hour clock with 24 time zones; daylight savings time option; automatic leap year adjustment
Timing accuracy	± 30 sec. per month (at 20° C);
Data imprint	six-figure, seven-segment LCD; imprint adjustment according to film sensitivity from ISO 32 to 3200
Alarm function	alarm option (hour/minute) for any desired time
Power source	two 3 V lithium batteries type CR-2025
Dimensions	140.5 × 63 × 29 mm (W × H × D)
Weight	80 g (without batteries)



Data Back MF-18

for F3

Order code	FRW524AA
Application	F3 with MD-4 motor for imprinting between shots
Possible data	year, month, day or hours, minutes, seconds and reference numbers from 1 to 2000
Data imprinting	by means of six red LEDs
Data display on back	by means of liquid crystals
Power source	two 1.55 volt silver oxide batteries (SR 44/G13)
Dimensions	148.5 × 68.5 × 30.2 mm (W × H × D)
Weight	100 g (without batteries)



Data Back MF-14

for F3

Order code	FRW520AA
Possible data	Year, month, day or day, hour, minute or reference numbers from 1 to 2000
Data imprinting	By means of six red LEDs
Data display on back	By LEDs
Audible warning	Sounds for 20 sec at the time set
Power source	Two 1.55 volt silver oxide batteries (SR 44/G13)
Dimensions	148.5 × 53.5 × 26 mm (W × H × D)
Weight	85 g (without batteries)

Accessory:

Rear compartment for case CF-23 D



Data Back MF-16

for FM-2

Order code	FRW522AA
Possible data	Year, month, day or day, hour, minute or reference numbers from 1 to 2000
Data imprinting	By means of six red LEDs
Data display on back	By means of liquid crystals
Audible warning	Sounds for 20 sec at the time set
Power source	Two 1.55 volt silver oxide batteries (SR 44/G13)
Dimensions	142.7 × 53.2 × 26.5 mm (W × H × D)
Weight	90 (without batteries)

Accessory:

Rear compartment for case CF-27 D



F5 Ever-ready cases

Order code	CF53/FAE09601
Use	to zoom 28–80 AF
Model	leather, black
Order code	CF54/FAE09701
Use	to zoom 35–135 AF
Model	leather, black
Order code	CF53A/FXA10302
Use	to zoom 28–70 AF
	front part only
Model	leather, black
Order code	CF54A/FXA10283
Use	to zoom 70–210 AF
	front part only
Model	leather, black
Order code	CF53H/FXA10284
Use	rear part only
Model	leather, black



F100 Ever-ready cases

Order code	CF57/FAE10201
Use	to zoom 28–105 AF
Model	leather, black
Order code	CF57A/FXA10302
Use	to zoom 28–105 AF
	front part only
Model	leather, black
Order code	CF57H/FXA10304
Use	rear part only
Model	leather, black
Order code	CF58/FAE10301
Use	to zoom 70–300 AF
Model	leather, black
Order code	CF58A/FXA10303
Use	to zoom 70–300 AF
	front part only
Model	leather, black



F90X Ever-ready cases

Order code	CF47/FAE08801
Use	to zoom 28–80 AF
Model	leather, black
Order code	CF47D/FAE08901
Use	to zoom 28–80 AF
	and data back
Model	leather, black
Order code	CF47A/FXA10250
Use	to zoom 28–80 AF
	front part only
Model	leather, black



F80 Ever-ready cases

for Nikon F80/F80D

Order code CF59/FAE10401
Use to zoom 28-80 AF
Model imitation leather, black

Order code CF59A/FXA10308
Use to zoom 28-80 AF
Front part only
Model imitation leather, black

Order code CF59H/FXA10308
Use rear part only
Model imitation leather, black

Order code CF60/FAE10501
Use to zoom 70-300 AF
Model imitation leather, black

Order code CF60H/FXA10309
Use rear part only
Model imitation leather, black



F65 Ever-ready cases

for Nikon F65/F65D

Order code CF61/FAE10601
Use to zoom 28-80 AF
Model imitation leather, black



F3 Ever-ready cases

for Nikon F3/F3HP/F3Ti

Order code	CF22/FAE03302
Use	wide-angle and standard lenses
Model	leather, bordeaux
Order code	CF21A/FAE04001
Use	obiettivi all'zoom 35-70
Model	front part only, leather, bordeaux
Order code	CF22H/FXA10140
Use	rear part only
Fattura	leather, bordeaux
Order code	CF100/FXA10165
Use	to zoom 35-70 and with motor MD-4
Model	leather, bordeaux
Order code	CF23D/FAE04801
Use	with data back MF-14
Model	rear part only, leather, bordeaux



FM-3A Ever-ready cases

Order code	CF27S/FAE10701
Use	wide-angle and standard lenses
Model	imitation leather, black
Order code	CF27SA/FXA10320
Use	wide-angle and standard lenses
Model	front part only, imitation leather, black
Order code	CF27SH/FAE10321
Use	rear part only
Model	imitation leather, black
Order code	CF28SA/FXA10322
Use	front part medium
Model	imitation leather, black
Order code	CF29SA/FXA10323
Use	front part large
Model	imitation leather, black
Order code	CF29SH/FXA10324
Use	rear part only with motor
Model	imitation leather, black



Soft cases

for Nikon F3/F3 HP/FM-2

Order code	CS7/FAE02601*
Use	FM-2 with lenses up to 70 mm length
Model	imitation leather, black
Order code	CS8/FAE02701*
Use	F3/FM-2 with lenses up to 70 mm length
Model	imitation leather, black
Order code	CS9/FAE02801*
Use	F3/FM-2 with lenses up to 90 mm length
Model	imitation leather, black
Order code	CS10/FAE02901*
Use	F3/FM-2 with lenses up to 165 mm length
Model	imitation leather, black

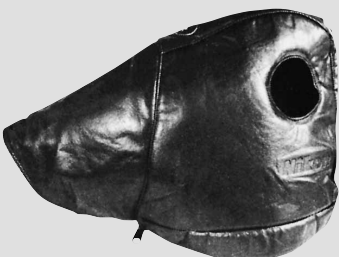
*The case must be removed completely before shooting

Order code	CS15/FAE04101
Use	F3/FM-2 with lenses up to 70 mm length
Model	imitation leather, black

Soundproof case

for all Nikon cameras

Order code	CS13/FAE03201
Use	with all lenses and all motors
Model	imitation leather, black



Ever-ready cases

to Nuvis V

Order code CSL24/FCE03501
Model nylon, black

to Nuvis S

Order code CSL20/FCE03101
Model nylon, black

to Nuvis S 2000

Order code CSL24/FCE03501
Model nylon, black

to Nuvis 300

Order code CSL22/FCE03301
Model nylon, black

to Lite Touch Zoom 140 ED

Order code CSL23/FCE04301
Model nylon, black

to Lite Touch Zoom 120 ED

Order code CSL23/FCE04301
Model nylon, black

to One Touch Zoom 90

Order code CSL26/FCE03701
Model nylon, black

to Lite Touch Zoom 70 W

Order code CSL25/FCE03601
Model nylon, black

to Coolpix 5000

Order code CS5000/VAE10701
Model nylon, black

to Coolpix 995

Order code CSL995/VAE10401
Model nylon, black

to Coolpix 885

Order code CSL885/VAE10601
Model nylon, black

to Coolpix 775

Order code CSL775/VAE10501
Model nylon, black



Aluminium case WE-15

Order code	WE15/8H1J6001
Model	aluminium, yellow with black Nikon script
Dimensions	270 × 390 × 200 mm (H × W × D)
Weight	4000 g



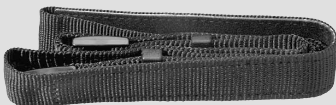
Neck strap AN-1

Order code FWE50101
Width 10 mm/25 mm
Material leather



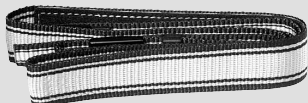
Neck strap AN-4B

Order code FWE50501
Width 12 mm/25 mm
Colour black
Material woven nylon fabric



Neck strap AN-4Y

Order code FWE50101
Width 12 mm/25 mm
Colour yellow/black
Material woven nylon fabric



Neck strap AN-6Y

Order code FWE50101
Width 12 mm/50 mm
Colour yellow/black
Material woven nylon fabric



Neck strap AN-6W

Order code FWE50702
Width 12 mm/50 mm
Colour bordeau
Material woven nylon fabric



Neck strap AN-5

Order code 8H1J4003
Width 12 mm/25 mm
Colour black, with Nikon script
Material woven nylon fabric



Neck strap AN-7

Order code FWE51401
Width 12 mm/19 mm
Colour black, with Nikon script
Material woven nylon fabric



Neck strap AN-11

for Nikon Pronea 600i (replacement)

Order code FWE52201
Width 20 mm
Colour gray with Nikon script
Material woven nylon fabric



Camera handstrap AN-12

for compact cameras

Order code FXA10263



Neck strap AN-13

for compact cameras

Order code FWE513
Width 7 mm
Colour black
Material woven nylon fabric



Neck strap AN-14

for Nikon F5 (replacement)

Order code FWE52101
Width 30 mm
Colour black/bordeaux
Material woven nylon fabric



Neck strap AN-15

for Nikon Pronea S

Order code FWE52101
Width 30 mm
Colour black/bordeaux
Material woven nylon fabric



Neck strap AN-17

for Nikon F65

Order code FWE52601
Width 30 mm
Colour black/bordeaux
Material woven nylon fabric

Neck strap ANWP with float

for binoculars 10 × 25 CFWP und 8 × 23 CFWP

Order code 8P300357
Width 50 mm
Colour gray with Nikon script
Material woven nylon fabric



Camera handstrap AH-4

for all Nikon cameras

Order code FWE51801



Data-Link-IC-Card AC-2E

for SHARP® Electronic Organizer

Order code	FRW20601
Use	communication between SHARP® Electronic Organizer and Nikon F90X models
Function modes	On-Line mode: (with connection cord MC-27) camera operations customized settings memo-holder control of multifunction back MF-26 Off-Line mode: using operation guide using photo hand-book



Connecting cord MC-27

Order code	FRG20801
Use	communication between Electronic Organizers and the Nikon F90 models



Photo Secretary

for Nikon F5 and Personal Computer

Order code	Windows 95® Software: AC1WE/FRW20702 Connecting cord: MC33/21301 Macintosh® Software: AC1ME/20802 Connecting cord: MC34/21401
Use	different functions of the Nikon F5 can be set by the Personal Computer; it's possible to download the memorised exposure details of the Nikon F5 to the PC to be changed and well finished

Connecting cord MC-33

Order code	FRG21301
Use	communication between Nikon F5 and the Personal Computer



Connecting cord MC-34

Order code	FRG21401
Use	communication between Nikon F5 and the Macintosh



Windows 95® is a registered trademark of Microsoft Corporation in the USA.

Photo Secretary

for Nikon F100 and Personal Computer

Order code	Windows 95® Software: ACPWE /FRW21101 Connecting cord: MC33 /FRG2501
Use	Different functions of the Nikon F90X and F100 can be set by the Personal Computer; it's possible to download the memorised exposure details of the Nikon F90X/F100 to the PC to be changed and well finished

Windows 95® is a registered trademark of Microsoft Corporation in the USA.

Connecting cord MC-31

for AC-2WE

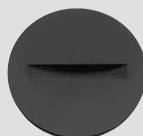
Order code	FRG21501
Use	



Cover for motor contact FA-71

for Nikon F3

Order code 60000088



Camera body cover BF-1A

Order code FAD00301
Use with all Nikon SLR cameras



Panorama head

Order code FAW01201
Use with lenses 28 mm up to 105 mm
Characteristics a spirit level is incorporated; snaps in at the choosed position of focal length
Weight 200 g

Table tripod

Order code 8H5J1011
Use for cameras with tripod screw-thread



Magnifier for slides LU8

Order code 8H1J6010
Magnification 8x



Magnifier for slides LU4

Order code 8P201302
Magnification 4x



Magnifier for slides Deluxe

Order code 8H5J1071
Magnification 4x



Acrylic Skirt black LU4B

Order code 8LU4B

Acrylic Skirt transparent LU4T

Order code 8LU4T

Cleaning set

Order code 8H1J6007
Consisting bellows, cleaning cloth and cleaning paper



Oldies and accessories

for D1

EH4 AC Adaptor
MH16 Quick Charger
EN4 Ni-MH Battery
NKVW30 Nikon View DX
NKCP 10 Nikon Capture Software
SC D1 Cord Firewire, IEEE1394

for Coolpix 990

EH31 AC Adaptor
CSE990 Case
UCE1 USB Cord
EGE900 Video cord
SC EW3 Serial cord Windows
SC EM3 Serial cord Mac
ESE28 Slide copy adaptor
LCE900 Lens cover
SKE900 Flash bracket
MCE41 Remote control

for Coolpix 880

EH21 AC Adaptor
ENEL1 Rechargeable battery
CSE880 Case
EGE900 Video cord
ESE28 Slide copy adaptor
LCE880 Lens cover
URE2 Step-up Ring

for Coolpix 950

EH31 AC Adaptor
EGE900 Video cord
SC EW2 Serial cord Windows
SC EM2 Serial cord Mac
ESE28 Slide copy adaptor
SKE900 Flash bracket

for Scanner LS 30

IA20 Adaptor for film APS
MA20 Adaptor for slide single
SA20 Adaptor for film straps

for Scanner LS 2000

IA 20 Adaptor for film APS
MA20 Adaptor for slide single
SA20 Adaptor for film straps
SF200 Auto slide feeder

for F4/F4S

FAW02601 Battery pack (4 batteries) MB20
FAW02701 High speed battery pack (6 batteries) MB21
FXA10220 MB21G grip portion of MB 21
FXA10221 MB21B grip bottom portion of MB 21
FXA10222 Battery holder MS21
FAW02801 External power regulator MB22
FAW03101 High speed battery pack MB23
FXA10232 Battery holder MS23
FAW03501 MN20 Rechargeable Ni-Cd-battery MB23
FAW03401 MH20 Quick charger for MN20
FAB02101 Action finder DA20
FAB02301 6×high-magnification finder DW21
FAB02201 Waist-level finder DW20
FXA10219 Cover for finder FE16
FRW529AA Multi-control back MF23
FRW528AA Data back MF22
FRW530AA Multi-control back MF24 for 250 frames
FAW 03601 Battery pack DB6 to F4E
FRG20901 Connecting cord MC28 DB6-F4E
FSG02201 TTL cord SC24
FAC09001 Focusing screen B
FAC09301 Focusing screen J
FAC09101 Focusing screen C
FAC09401 Focusing screen K
FAC09201 Focusing screen E
FAC09801 Focusing screen M
FAC09701 Focusing screen F
FAC09501 Focusing screen P
FAC09901 Focusing screen G1

FAC09601 Focusing screen U
FAC10001 Focusing screen G2
FAC10101 Focusing screen G3
FAC10201 Focusing screen G4
FAE07301 Ever-ready case CF41 for F4
(AF 35–70/3.3–4.5)
FAE07401 Ever-ready case CF42 for F4
(AF 35–135/3.5–4.5)
FXA10227 Ever-ready case CF41B rear part only for F4
FAE07501 Ever-ready case CF43 for F4S
(AF 35–135/3.5–4.5)
FAE08101 Soft case CS20 for F4 (AF 35–135/3.5–4.5)
FAE08201 Soft case CS21 for F4E (standard lens)

for F801S

FRW52601 Data back MF21
FXA10216 Eyepiece cover DK8
FAC10401 Focusing screen B
FAW02901 Anti-cold battery holder DB5
FAC10301 Focusing screen E
FXA10217 Battery holder MS7

for F501/301

FXA10193 Eyepiece cover DK5
FAE063AA Ever-ready case CF35 (50/1.8)
FAE065AA Ever-ready case CF36 (35–105/3.3–4.5)
FAE06601 Front part only CF36A
KA510-518 Correction lenses

for F2

FRW01301 MS2 battery holder to MB2
FWW00501 Cable release AR2
FPW21601 Double cable release AR4
FSW51501 Flash unit coupler AS1 with SB16B
FSW51101 Flash unit coupler AS5 with SB17/16A
FWW00401 Soft shutter release AR1

for FE2

FRA00602 Motor MD12
FAC03401 Focusing screen K2
FAC03501 Focusing screen B2
FAC03601 Focusing screen E2
FAE04901 Ever-ready case CF27 (50/1.8)
FAE04001 Ever-ready case CF28 (35–70/3.5–4.5)
FAE05201 Ever-ready case CF29 (with MD 12)
FAE02601 Soft case CS7
FAE02801 Soft case CS9

for FM2

FAC03401 Focusing screen K2
FAC03501 Focusing screen B2
FAC03601 Focusing screen E2
FAF20302 DR3 Right-angle viewing attachment
FAF20202 Eyepiece magnifier DG2
FAF50402 Eyepiece cover DK3

for FA

FRW522AA Data back MF16
FAC03601 Focusing screen E2
FAC03501 Focusing screen B2
FAC03401 Focusing screen K2

for FG/EM

FAE02601 Soft case CS7
FAE02801 Soft case CS9

for Pronea S

FAE10001 Ever ready case CS 27 to IX 30–60 mm
FAE10101 Ever ready case CS 28 to
IX 20–60/60–180 mm

for Pronea 600i

FAE09801 Ever ready case CF55 to IX 20–60/24–70 mm
FXA10286 Front part only CF55A to IX 20–60/24–70 mm
FXA10288 Rear part only CF55H
FAE09901 Ever ready case CF56 to IX 60–180 mm
FXA10287 Front part only CF56A to IX 60–180 mm



Nikonos RS lenses

Nikonos RS obiettivi



Nikonos V



**Nikonos V lenses/
Accessories**

**Nikonos V obiettivi/
Accessori**



**Nikonos Flashes/
Accessories**

**Nikonos Lampeggiatori/
Accessori**



Accessories Nikonos

Accessori Nikonos

R-UW AF Fisheye-Nikkor 13 mm f/2.8

for underwater shots only

Order code	JEA504AA
Focal length	13 mm
Aperture ratio max.	1:2.8
Picture angle	170°
Optical construction	10 elements in 7 groups
Minimum distance	0.14 m
Reproduction ratio	1:5.22
Aperture range	2.8–22
Distance range	illuminated
Diving depth	100 m
Dimensions	126 mm \varnothing × 94 mm
Weight	970 g

Supplied with:

Front lens cover
Rear lens cover



R-UW AF Nikkor 28 mm f/2.8

for underwater shots only

Order code	JEA501AA
Focal length	28 mm
Max. aperture ratio	1:2.8
Picture angle	59.8°
Optical construction	6 elements in 6 groups
Minimum distance	0.26 m
Reproduction ratio	1:6
Aperture range	2.8–22
Distance range	illuminated
Diving depth	100 m
Filter mount	88 mm \varnothing × 1 mm
Dimensions	99 mm \varnothing × 85 mm
Weight	550 g

Supplied with:

Front lens cover UA-91
Rear lens cover LF-2



R-UW AF Micro-Nikkor 50 mm f/2.8

for underwater shots only

Order code	JEA502AA
Focal length	50 mm
Max. aperture ratio	1:2.8
Picture angle	35°
Optical construction	10 elements in 9 groups
Minimum distance	0.167 m
Reproduction ratio	1:1
Aperture range	2.8–22
Distance range	illuminated
Diving depth	100 m
Filter mount	88 mm \varnothing × 1 mm
Dimensions	103 mm × 126 mm
Weight	1100 g

Supplied with:

Front lens cover UA-92
Rear lens cover LF-2



R-UW AF Zoom-Nikkor 20–35 mm f/2.8

for underwater shots only

Order code	JEA503AA
Focal length	20–35 mm
Max. aperture ratio	1:2.8
Picture angle	79°–51°
Optical construction	10 elements in 10 groups
Minimum distance	0.38 m
Reproduction ratio	1:10
Aperture range	2.8–22
Distance range	illuminated
Diving depth	100 m
Filter mount	148 mm \varnothing × 1 mm
Dimensions	162 mm \varnothing × 129 mm
Weight	1750 g

Supplied with:

Front lens cover UA-93

Rear lens cover LF-2



Front lens cover UA-900

for R-UW AF Nikkor 13 mm f/2.8

Order code JXA10082

Material synthetics

Front lens cover UA-91

for R-UW AF Nikkor 28 mm f/2.8

Order code JXA10071

Material synthetics

Front lens cover UA-92

for R-UW AF Micro-Nikkor 50 mm f/2.8

Order code JXA10072

Material synthetics

Front lens cover UA-93

for R-UW AF Zoom-Nikkor 20–35 mm f/2.8

Order code JXA10073

Material synthetics

Rear lens cover LF-2A

for all R-UW AF Nikkor lenses

Order code JED50201

Material synthetics



Nikonos V

Order code	FEA040AA green FEA040NA orange
Type of camera	Electronically controlled under-water and all-weather camera with focal plane shutter
Construction	Body made of cast aluminium alloy partially covered with rubber; hermetically sealed by packing rings
Depth	Can be used down to a depth of 50 m (6 kg/cm ²)
Film	Standard 35 mm cartridge-type film
Picture format	24 mm × 36 mm
Lens mount	Nikonos bayonet
Lenses	W Nikkor 35 mm f/2.5 as normal lens; 4 alternative lenses from super wideangle to small telephoto
Viewfinder	Inverted Galilean Albada finder built into camera for use with standard 35 mm lens; film frame marks show about 85% picture coverage at infinity; 0.55× magnification; 0.9 diopter; exit pupil lying well back permits viewing with eye 40 mm away from finder; parallax correction marks provided; optical viewfinder or frame finders available as accessories for Nikonos lenses
Viewfinder display	LED shutter speed indicator; LEDs indicate overexposure and underexposure; lightning symbol as flash ready light
Shutter	Electronically controlled vertical-travel metal focal plane shutter
Shutter speeds	A (Auto): electronically controlled stepless speeds from 1/30 sec. to 1/1000 sec. M (Manual): quartz-controlled speeds from 1/30 sec. to 1/1000 sec. M90 : mechanically controlled at 1/90 sec. B : mechanically controlled for long exposures R : setting for rewinding film
Shutter release	On anatomically shaped grip; gentle pressure on button switches metering system on; meter remains on for 16 sec. after finger is removed; shutter release lock incorporated
Exposure control	Two modes: A (Auto) and M (Manual), in addition to M90 (mechanically controlled at 1/90 sec.) and B for long exposures
Exposure metering	Through-the-lens (TTL) center-weighted metering with two silicon photodiodes (SPDs); one of the SPDs for TTL flash control with SB-102, SB-103 and other units
Metering range	EV 8 to EV 19 at ASA/ISO 100 (DIN 21) with f/2.8 lens (corresponding to 1/30 sec. at f/2.8 to 1/1000 sec. at f/22)
Film speed range	ASA/ISO 25 (DIN 15) to ASA/ISO 1600 (DIN 33)
Accessory shoe	Built into top of viewfinder



Flash synchronization Flash X-synchronization only, via flash contact in camera base; synchronizes at 1/90 sec. or slower; Nikonos electronic flash unit SB-102 or SB-103 switches camera automatically to 1/90 sec. when shutter speed selector dial is at «A» or at 1/125 sec or higher; at 1/60 sec or slower, shutter fires at speed set

Flash ready light Lightening symbol in viewfinder lights up when SB-102, SB-103 or another flash unit has recycled; flashes to warn of insufficient light output, incorrect setting of shutter speed selector dial or film speed setting higher than ASA/ISO 400 (DIN 27)

Film advance lever Wound in single stroke or series of strokes; 144° winding angle; hinged for compactness; when shutter speed selector dial is at "A", shutter releases at about 1/1500 sec until film frame

Frame counter Additive type; resets automatically when camera back is opened

Film rewind Manually via film rewind crank after shutter speed selector dial has been set to «R»; shutter release button remains locked during rewinding

Camera back Hinged type, with camera back locking pin; opened and locked via camera back lock/release latch and camera back release button

Pressure plate Hinged type, attached to camera body; locking catch provided

Tripod socket Incorporated in camera base-plate; 1/4 inch thread (JIS)

Power source One 3 V lithium battery (CR 1/3 N) or two 1.55 V silver oxide batteries (SR-44/EPX 76)

Battery check Possible when shutter speed selector dial is at any setting except M90, P or R, and frame counter is at or beyond «1»; when shutter release button is depressed, viewfinder display lights up to confirm sufficient battery power.

When batteries are exhausted, 1/90 sec + B is available as a reserve period

Dimensions 146 × 99 × 58 mm (W × H × D)

Weight (body) 700 g



UW-Nikkor 15 mm f/2.8

The lens is intended exclusively for underwater shots

Order code	JEA103AA
Focal length	15 mm
Maximum aperture	f/2.8
Picture angle	94° underwater
Optical construction	12 elements in 9 groups (including protective glass)
Minimum distance	0.3 m
Aperture scale	f/2.8 to f/22
Diaphragm type	Manual
Depth of field display	Coupled with aperture setting for direct reading from distance scale
Camera mount	Nikonos bayonet
Filter thread	87 mm
Dimensions	93 mm \varnothing × 90.6 mm
Weight	665 g



Viewfinder for UW-Nikkor 15 mm f/2.8

Order code	FEB00701
Type	Inverted Galilean telescope
Optical construction	3 elements in 3 groups
Magnification	0.24x
Field of view	90%
Parallax compensation	Built-in parallax correction marks for 1.5 m, 0.6 m or 0.3 m
Dimensions	68 mm \varnothing × 71 mm
Weight	280 g

Accessories:

Front lens cover (must be ordered)

Rear lens cover (must be ordered)



UW-Nikkor 20 mm f/2.8

The lens is intended exclusively for underwater shots

Order code	JEA105AA
Focal length	20 mm
Maximum aperture	f/2.8
Picture angle	78° underwater
Optical construction	9 elements in 7 groups
Minimum distance	0.4 m
Aperture scale	f/2.8 to f/22
Diaphragm type	Manual
Depth of field display	Marked in yellow, orange and red for apertures f/4, f/5.6 and f/11
Camera mount	Nikonos bayonet
Filter thread	67 mm \varnothing
Dimensions	70 mm \varnothing × 74 mm
Weight	350 g

Accessories:

Front lens cover

Rear lens cover

Optical underwater viewfinder DF-12



Viewfinder DF 12 for UW-Nikkor 20 mm f/2.8 and 28 mm f/3.5

(with mask)

Order code	FEB00801
Use	Only underwater
Type	Inverted Galilean telescope
Optical construction	3 elements in 3 groups
Magnification	0.35 ×
Field of view	85%
Parallax display	20 mm: fixed setting at estimated distance 1.5 m 28 mm: fixed setting at estimated distance 2.0 m
Close-up parallax marks	20 mm: focusing distance 40 cm 28 mm: focusing distance 60 cm
Mounting	With clamping screw in accessory shoe of camera
Dimensions	61.5 ∅ mm × 71 mm (L × H)
Weight	160 g



UW-Nikkor 28 mm f/3.5

The lens is intended exclusively for underwater shots

Order code	JEA102AB
Focal length	28 mm
Maximum aperture	f/3.5
Picture angle	59°
Optical construction	6 elements in 5 groups (including protective glass plate)
Minimum distance	0.6 m
Aperture scale	f/3.5 to f/22
Diaphragm type	Manual
Depth of field display	Coupled with aperture setting and read directly from distance scale
Camera mount	Nikonos bayonet
Filter thread	58 mm ∅
Dimensions	62 mm ∅ × 43.8 mm
Weight	175 g



Supplied with:

Front lens cover
Rear lens cover

Accessories:

Protective ring
Underwater action finder
Optical underwater finder
Hard leather case CL-50

W-Nikkor 35 mm f/2.5

Order code	JEA001AC
Focal length	35 mm
Max. aperture	1:2.5
Optical construction	6 elements in 4 groups (including protective glass plate)
Picture angle	62° on land, 46°30' underwater
Min. distance	0.8 m
Aperture scale	2.5–22
Diaphragm type	manual
Depth of field display	coupled with aperture setting and read directly from distance scale
Camera mount	Nikonos bayonet
Filter thread	58 mm \varnothing
Dimensions	62 mm \varnothing × 39,5 mm
Weight	160 g

Supplied with:

Front lens cover UA-15
Rear lens cover UA-16

Accessories:

Lens hood with thread for 52 mm filter UA-5
Rubber lens hood (also lens protection) UA-9
Protective ring UA-19
Underwater action finder for 35 mm/80 mm W-Nikkor UA-11
Hard case imitation leather CL-50



W-Nikkor 80 mm f/4.0

Order code	JEA301AB
Focal length	88 mm
Max. aperture	1:4.0
Optical construction	4 lenses in 4 groups (plus protective glass plate)
Picture angle	30°20' on land, 22°45' underwater
Min. distance	1.0 m
Aperture scale	4.0–22
Diaphragm type	manual
Depth of field display	coupled with aperture setting and read directly from distance scale
Camera mount	Nikonos bayonet
Filter thread	58 mm \varnothing
Dimensions	62 mm \varnothing × 66 mm
Weight	275 g

Supplied with:

Front lens cover UA-15
Rear lens cover UA-16

Accessories:

Lens hood with thread for 52 mm filter UA-5
Protective ring UA-19
Underwater action finder for 35 mm/80 mm W-Nikkor UA-11
Optical viewfinder (use only on land) DF-10
Hard case imitation leather CL-51



Optical viewfinder DF-10

for W-Nikkor 80 mm (Albada viewfinder)

Order code	FEB00601
Use	only above water
Parallax compensation	the focusing ring on the finder shifts the bright frame
Weight	35 g



Underwater action finder

for UW-Nikkor 28 mm

Order code FEB00301
Material plastic



Underwater action finder

for W-Nikkor 35 mm and 80 mm

Order code FEB00102
Material plastic



Lens hood/filter adapter

for W-Nikkor 35 mm and 80 mm

Order code JEB00101
Filter thread 52 mm \varnothing
Material plastic



Lens protector

for W-Nikkor 35 mm, 80 mm and UW-Nikkor 28 mm

Order code JEW00301
Use protects the lens front from stones, etc.
Material plastic



Hard case

for W-Nikkor 35 mm and UW-Nikkor 28 mm

Order code JEE00102
Material imitation leather



Hard case

for W-Nikkor 80 mm

Order code JEE00202
Material imitation leather



Front lens cover

for W-Nikkor 35 mm, 80 mm and UW-Nikkor 28 mm

Order code JED00101
Material plastic



Rear lens cover

for W-Nikkor 35 mm, 80 mm and UW-Nikkor 28 mm

Order code JED50101
Material plastic



Electronic flash unit SB-104

for Nikonos RS AF

Order code	FSA706AA
Electronic construction	automatic insulated gate construction, bipolar transistor and series circuitry
Flash functions	TTL flash manual flash: full power 1/4, 1/6 sync cord activation camera and flash activation by means of photocell with second flash unit activation of second flash unit by means of photocell signal flash test flash
Camera/flash functions	matrix-controlled TTL fill-flash center-weighted TTL flash synchronization on rear curtain
Guide number	32 above water 16 below water (ISO 100)
Angle of coverage	100°
Number of flashes	approx. 120
Recycle time	approx. 3 sec.
Color temperature	approx. 4700 K
Power source	rechargeable NiCd battery pack; recharged in approx. 2 hours with quick charger SH-104
Dimensions	124 mm \varnothing × 222 mm
Weight	2500 g above water 1000 g below water

Supplied with:

SK-104 bracket set:
SK-104A arm
SK-104B bracket
TTL sync cord
O-ring set

Accessories:

Battery pack SN-104
Quick charger SH-104
Extension arm SK-104E
Double bracket SK-104W
Arm for SB-103/SK-104C
Double TTL sync cord for SC-100
TTL sync cord for SB-103/104/SC 101



Electronic flash unit SB-105

for Nikonos RS AF and Nikonos V

Order code	FSA707AB
Electronic construction	high-performance silicon-controlled rectifier and series circuitry
Maximum depth Settings	100 m (12 kg/cm ²) Flash functions: TTL flash manual flash: full power, 1/4, 1/16 sync cord activation wireless activation by means of built-in photocell signal flash test flash Camera/flash functions: matrix-controlled TTL fill-flash (on Nikonos RS) center-weighted TTL flash synchronization on rear curtain (on Nikonos RS)
Angle of coverage	103° × 84° above water; sufficient for 15 mm lens using wide-angle diffuser SW-103
Guide number	22 above water, 11 below water (full output)
Number of flashes	approx. 45 with NiCd batteries (depending on battery unit and charge); approx. 120 with alkaline-manganese batteries
Recycle time	approx. 4 sec. with NiCd batteries (depending on battery unit and charge); approx. 6 sec. with alkaline-manganese batteries
Power source	four penlight LR6/AM3 alkaline-manganese batteries or NiCd batteries; high-power manganese or lithium batteries are not recommended
Dimensions	flash head: approx. 99 × 130 × 181 mm (H × W × D)
Weight	approx. 780 g above water approx. 330 g below water flash unit with arm, bracket, joint and sync cord: approx. 1730 g above water

Supplied with:

Arm SK-104A
Bracket
Sync cord
Joint
Cord fastening hanger
Wide-angle diffuser SW-103
Set of O-rings
Exposure calculation table
Battery holder MS-105
Calculation card UA-84

Accessories:

Bracket SK-104B
Extension arm SK-104C
Double bracket SK-104W
Double flash bracket UA74
Double sync cord SC-100
Arm for SB-102/103/105
Joint for SB-102



Flash bracket set SK-104

for Nikonos flash unit SB-104

Order code FSW72001
Use with Nikonos RS and Nikonos V
Supplied with flash bracket SK-104B,
flash arm SK-104A



Flash bracket SK-104B

for Nikonos flash unit SB-104/SB-105

Order code FXA10245
Use with flash arm SK-104A/
SK-104C



Flash arm SK-104A

for Nikonos flash unit SB-104

Order code FXA10244
Use flash bracket SK-104B and
double flash bracket SK-104W

Double flash bracket SK-104W

for Nikonos flash unit SB-104/SB-105

Order code FSW72301
Use with flash arm SK-104A/
SK-104C
Function allows two flash units to be
used simultaneously



Flash arm SK-104C

for Nikonos flash unit SB-105

Order code FSW72401
Use with flash bracket SK-104B and
double flash bracket SK-104W



Extension arm SK-104E

for Nikonos flash unit SB-104

Order code FSW72201
Use with flash arm SK-104A
Function improves flexibility and
increases reach



Double flash bracket UA-74

for Nikonos flash unit SB-105

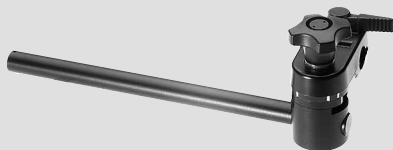
Order code FXA10183
Use with Nikonos flash unit SB-105
Function allows simultaneous use of
two flash units



Extension arm UA-76

for Nikonos flash unit SB-105

Order code FSW71001
Use with flash arm of Nikonos flash
unit SB-105
Function improves flexibility and
increases reach



Battery pack SN-104

for Nikonos flash unit SB-104

Order code	F5W71501
Flash output	approx. 120 flashes with each charge (at full output)
Dimensions	100 mm \varnothing \times 51 mm
Weight	370 g (without case)



Quick charger SH-104

for battery pack SN-104

Order code	F5W71801
Recharging	approx. two hours for one battery pack or four hours for two battery packs; overcharging not possible; charge control lamp
Power input	100–240 V alternate current, 50/60 Hz, 0,29–0,16 A
Power output	10,5 V / 1,25 A
Dimensions	80 \times 52 \times 200 mm
Weight	600 g



Exposure disks UA-82

for Nikonos flash unit SB-104 (replacement)

Order code	FXA10246
Function	gives exposures for different film types; attaches to back of flash unit



Calculation table UA-84

for Nikonos flash unit SB-105 (replacement)

Order code	FXA10274
-------------------	----------

TTL sync cord UA-78

for Nikonos flash unit SB-104/SB-105

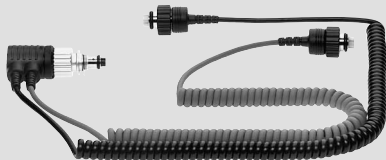
Order code	FXA10177
Use	with Nikonos RS and Nikonos V
Length	1.5 m



Double TTL sync cord SC-100

for Nikonos flash unit SB-104/SB-105

Order code	F5G70102
Use	with Nikonos RS and Nikonos V and all R-UW lenses
Function	allows two flash units to be used simultaneously
Length	1.5 m each



TTL sync cord SC-101

for Nikonos flash unit SB-104/SB-105

Order code	F5G70301
Use	with Nikonos RS and Nikonos V and connecting cord SC-103
Function	allows flash units to be changed underwater TTL only underwater
Length	1.5 m



Double TTL sync cord SC-102

for Nikonos flash unit SB-104/SB-105

Order code	FSG70401
Use	with Nikonos RS and Nikonos V and connecting cord SC-103
Function	allows two flash units to be used simultaneously as well as flash units to be changed underwater, TTL only underwater
Length	1.5 m each



Connecting cord SC-103

for Nikonos flash unit SB-104/SB-105

Order code	FSG70501
Use	with Nikonos RS and Nikonos V and TTL sync cord SC-101 as well as double TTL sync cord SC-102
Function	allows flash units to be changed underwater
Power source	integrated 5.8 V lithium battery, sufficient for approx. 20,000 flashes; battery charges by Nikon Customer Service
Length	0.3 m



Sync cord set UA-95

for Nikonos flash unit SB-104/SB-105

Order code	FSG705AA
Use	with Nikonos RS and Nikonos V
Supplied with	TTL sync cable SC-101, connecting cord SC-103



Sync cord set UA-96

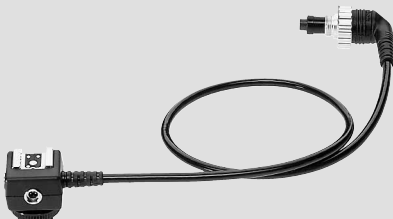
for Nikonos flash unit SB-104/SB-105

Order code	FSG705AB
Use	with Nikonos RS and Nikonos V
Supplied with	double TTL sync cable SC-102, connecting cord SC-103

TTL cord UA-72

for Nikonos V (for use above water only)

Order code	FSG70201
Use	with all flash units with ISO-flash mount
Function	allows conventional flash units to be used in TTL setting
Length	0.6 m



Flash adapter UA-62

for Nikonos V (for use above water only)

Order code	FSG70401
Use	with all shutter-activated flash units
Function	allows conventional flash units to be used



Case SS-101

for Nikonos flash unit SB-103 (replacement)

Order code FSE00601
Use space for complete flash unit with camera; inside side pockets for films, O-rings, etc.
Material nylon; beige with brown and black decorative stripes



O-Ring Set

for flash unit SB-104 (replacement)

Order code FSW72101

O-Ring Set

for flash unit SB-103 (replacement)

Order code FSW71401



Close-up outfit

for Nikonos III, IV-A and V

Order code

PPF701AB

Consisting of

- A Close-up attachment lens
(can be mounted and removed underwater)
- B 3 field frames for 28 mm, 35 mm and 80 mm lenses
- C Frame support bracket for precise camera-to-subject distance
- D Holder for close-up attachment lens
Carrying case for close-up outfit and camera

Optical

construction

2 elements in 2 groups

Shooting distance

235 mm from front lens to field frame

Distance setting

At infinity on the lens

Exposure

With Nikonos IVA and V:
automatic

With SB-101:1/4 output diaphragm 16/22 with ASA 100/
DIN 21 film, TTL mode with
Nikonos V with SB-102 or
SB-103

Weight

570 g (with 28 mm field frame)

Magnifications

28 mm underwater

144 mm × 216 mm = 1/6

35 mm on land*

155 mm × 233 mm = 1/6.5
underwater

109 mm × 164 mm = 1/4.5

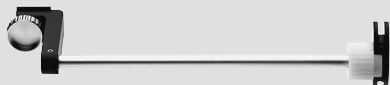
80 mm on land**

71 mm × 106 mm = 1/3
underwater

53 mm × 79 mm = 1/2.2

* with 28 mm field frame

**with 35 mm field frame



Case for Close-up Outfit*

Order code

FPE70102 (spare)

Colour

Beige with brown and black decorative stripes

Material

Nylon

Design

Space for complete close-up outfit with camera

*These two cases are supplied with the flash unit and the close-up outfit.



Depth of field Table for Nikonos Close-up Outfit

Profondità di campo per obiettivi Nikonos con complesso macro

Lens Obiettivo	Use Impiego	Aperture/Apertura						
		open/aperto	f/4	f/5.6	f/8	f/11	f/16	f/22
28 mm f/3.5	Underwater sotto acqua	+ 6,3 mm - 5,9 mm	+ 7,2 mm - 6,7 mm	+ 10,2 mm - 9,3 mm	+ 14,8 mm - 13,2 mm	+ 21,5 mm - 17,8 mm	+ 31,3 mm - 25,1 mm	+ 45,1 mm - 33,3 mm
35 mm f/2.5	on land su terre	+ 3,7 mm - 3,6 mm	+ 6,0 mm - 5,6 mm	+ 8,5 mm - 7,8 mm	+ 12,3 mm - 11,1 mm	+ 17,3 mm - 14,9 mm	+ 26,1 mm - 21,1 mm	+ 37,4 mm - 27,8 mm
	Underwater sotto acqua	+ 2,8 mm - 2,7 mm	+ 4,5 mm - 4,2 mm	+ 6,4 mm - 5,9 mm	+ 9,2 mm - 8,4 mm	+ 12,8 mm - 11,4 mm	+ 19,1 mm - 16,2 mm	+ 27,0 mm - 21,7 mm
80 mm f/4	on land su terre		+ 1,3 mm - 1,1 mm	+ 1,8 mm - 1,5 mm	+ 2,5 mm - 2,2 mm	+ 3,4 mm - 3,1 mm	+ 5,0 mm - 4,5 mm	+ 6,9 mm - 6,2 mm
	Underwater sotto acqua		+ 1,0 mm - 0,8 mm	+ 1,3 mm - 1,2 mm	+ 1,9 mm - 1,7 mm	+ 2,6 mm - 2,3 mm	+ 3,7 mm - 3,4 mm	+ 5,1 mm - 4,7 mm

+ Denotes depth of field in front of the field frame (in the direction of the camera)

- Denotes depth of field behind the field frame

+ Significa che la profondità di campo è davanti al delimitatore d'inquadratura (verso il corpo macchina)

- significa che la profondità di campo è dietro al delimitatore d'inquadratura

Compartment case CTN1

for Nikonos RS

Order code	FEE50001
Use	with Nikonos RS, three R-UW AF lenses, flash unit SB-104 with basic equipment
Material	robust synthetics, red

Camera case UA-60

for Nikonos V

Order code	FEE00401
Material	nylon; beige with brown and black stripes



Neck strap UA-83

for Nikonos RS (replacement)

Order code	FWE51901
-------------------	----------

Neck strap UA-65

for Nikonos V (replacement)

Order code	FWE51801
-------------------	----------



Remote control cord MC-100

for Nikonos RS

Order code	FRG30101
Length	3 m



Body cover UA-90

for Nikonos RS

Order code	FXA10243
Material	synthetics
Attention	is not waterproof, serves only as a protection against dust



O-Ring Set UA-80

for Nikonos RS

Order code	FEW00601
-------------------	----------

O-Ring Set UA-70

for Nikonos V

Order code	FEW00501
-------------------	----------





Compact type

Modelli compatti



Various

Vari



Standard type

Modelli standard



Action type

Modelli sportivi



Top type

Modelli top



Zoom type

Modelli zoom



Monoculars

Monoculari



How do I buy a pair of binoculars?

The large number of commercially available binoculars does not make it particularly easy to decide on a certain make or a certain type, and this is made all the more difficult by the fact that binoculars appear very similar. The customer will be offered expensive and cheap, good and poor, high-magnification and low-magnification binoculars. He can choose between conventional designs and modern roof prism binoculars. And finally, he will also be asked whether he requires binoculars with high relative brightness and a particularly wide angular field of view.

The most important criterion in choosing any pair of binoculars is without a doubt the optical and mechanical quality. Inferior optics, poorly adjusted prisms and an absent or inadequate lens coating result in rapid eye fatigue, lack of focus colour fringes and optical distortion. Poor mechanical construction shortens the life of a pair of binoculars and can make it inconvenient to use. Although the price and name of a product are not always a reliable yardstick, it is indeed true to say that very cheap and unfamiliar binoculars generally have poorer characteristics than the more expensive proprietary brands, whose design has entailed considerable outlay.

But how do we find out whether a pair of binoculars is good or poor? There are a few simple tests which quickly provide information about the quality. If you hold the binoculars about 40 to 50 cm away from the eye and look through the eyepiece, you should see a circular, bright point which has sharp contours and a larger or smaller diameter depending on the relative brightness of the objective. This is the sign of high optical quality. In this test, binoculars of poorer quality show darkened, ill defined

edges which are angular in some cases. To carry out another test, hold the binoculars exactly horizontal, about 10 to 20 cm away from the eye. Close alternate eyes and keep repeating this procedure. If the image moves up and down, this is an indication of poor adjustment of the prisms. Now look through the binoculars in the normal way and assess the image. It should be bright, have high contrast, be sharp from edge to edge and have no barrel-like distortions. Take this opportunity to test the mechanical system of the binoculars too. The focusing knobs should be convenient to turn, but not too easy or too difficult: either of these situations would simply make focusing more difficult. The bridge must fold easily and be capable of adaptation to the eye spacing but must not be so loose as to make it impossible to hold the binoculars with one hand. To allow an optimum comparison of the optical performance of different binoculars, each pair of binoculars must first be correctly adjusted, i.e. to the acuity of your eyes. To do this, point the binoculars at a well illuminated subject. Close your right eye and focus on with the left eye by turning the focusing wheel on the central adjustment. Now close your left eye and focus by turning the diopter compensation ring on the right-hand eyepiece. It is now possible to make an exact assessment of the optical quality.

Choosing the type of binoculars

One pair of binoculars is not the same as another. A theatregoer requires a different pair of binoculars to the traveller. A hunter of higher game, who has to make observations over long distances, will need a

different type of binoculars to the hunter of game of chase, who is dependent on good vision at dusk too. Important criteria in making a choice are the magnification factor, relative brightness and twilight output and the angular field of view of the binoculars. The numbers engraved on every pair of binoculars – e.g. 6 × 20, 7 × 30, 10 × 70, etc. – indicate the magnification and the diameter of the objective. For example, 8 × 30 binoculars have 8 × magnification and an objective diameter of 30 mm. It is not true that particularly high-magnification binoculars are always the correct choice. Apart from the fact that they require a very steady hand, they also give a relatively small field of view at close distances. On journeys and at sports meetings, where the need is for an overall view, medium-magnification or even low-magnification binoculars (6 ×–8 ×) are generally more suitable. High magnification is higher game.

The relative brightness and twilight output provide information about the suitability of the binoculars in poor light conditions and particularly at twilight. The larger the objective diameter in relation to the magnification factor, the greater the relative brightness of a pair of binoculars and the higher its twilight output. In binoculars of this type, the field of view is particularly bright; thus, these binoculars still give a very good view even when twilight sets in. The relative brightness can be determined in a simple manner by dividing the objective diameter by the magnification factor and squaring the result. The twilight output is obtained by multiplying the magnification factor by the objective diameter and taking the square root of the result.

In contrast to the relative brightness and twilight output, the angular field of view of a pair of binoculars cannot be calculated directly; however, it is usually stated under the technical data for the binoculars. The larger the angular field of view, the easier it is to cover a subject. Particularly at sports meetings, it is advantageous to have a large field of view since this makes it easy and quick to “catch” a fast-running athlete. Binoculars with a small field of view make “scanning” inevitable.

The decision in favour of modern, compact roof prism binoculars or in favour of conventional binoculars is based not only on the quality but on personal preference. The new roof prism binoculars from Nikon make a particularly great impression through their low weight and compactness and outstanding image quality. The extraordinary streamlined form is not only functional but aesthetically pleasing. The eyepieces have been equipped with special rubber eyecups which ensure a good view for those who wear spectacles and prevent damage to the spectacles.

Specifications

D	(Dach)	a slim structure thanks to the use of triangular rigid prisms
CF	(Central Focusing)	precision focusing by means of the central adjustment device
IF	(Individual Focusing)	precision focusing with simultaneous adjustment of the single left- and right-eye dioptres
HP	(High Eyepoint)	wide-angle eyepiece which allows comfortable viewing, even for those people who wear glasses
F	(Folding)	collapsible
WP	(Waterproof)	water-tight

Binocular 7 × 21 CF Sprint III

(only green)

Order code	BAA564AA
Magnification	7×
Objective diameter	21 mm
Angular field of view	
Real	6.7°
Apparent	46.9°
Field of view at 1000 m	117 m
Exit pupil	3.0 mm
Relative brightness	9.0
Eye relief	12.5 mm
Close focusing	
distance	3.0 m
Weight	240 g
Dimensions	95 × 117 mm (L × W)
Type	Porro



Binocular 8 × 21 CF Sprint III

Order code	BAA565AA green BAA568AA silver
Magnification	8×
Objective diameter	21 mm
Angular field of view	
Real	6.3°
Apparent	50.4°
Field of view at 1000 m	110 m
Exit pupil	2.6 mm
Relative brightness	6.8
Eye relief	11.3 mm
Close focusing	
distance	3 m
Weight	240 g
Dimensions	93 × 117 mm (L × W)
Type	Porro



Binocular 9 × 21 CF Sprint III

(only green)

Order code	BAA566AA
Magnification	9×
Objective diameter	21 mm
Angular field of view	
Real	5.6°
Apparent	50.4°
Field of view at 1000 m	98 m
Exit pupil	2.3 mm
Relative brightness	5.3
Eye relief	9.7 mm
Close focusing	
distance	3 m
Weight	235 g
Dimensions	89 × 117 mm (L × W)
Type	Porro



Binocular 10 × 21 CF Sprint III

Order code	BAA567AA green BAA596AA silver
Magnification	10×
Objective diameter	21
Angular field of view	
Real	5°
Apparent	50°
Field of view at 1000 m	87 m
Exit pupil	2.1
Relative brightness	4.4
Eye relief	8.6 mm
Close focusing	
distance	3.0 m
Weight	235 g
Dimensions	87 × 117 mm (L × W)
Type	Porro



Binocular 8 × 25 CF Travelite V

Order code	BAA383AA
Magnification	8×
Objective diameter	25 mm
Angular field of view	
Real	5.6°
Apparent	44.8°
Field of view at 1000 m	98 m
Exit pupil	3.1
Relative brightness	9.6
Eye relief	14 mm
Close focusing distance	3.0 m
Weight	255 g
Dimensions	115 × 118 mm (L × W)
Type	Porro



Binocular 9 × 25 CF Travelite V

Order code	BAA384AA
Magnification	9×
Objective diameter	25 mm
Angular field of view	
Real	5.6°
Apparent	50°
Field of view at 1000 m	98 m
Exit pupil	2.8 mm
Relative brightness	7.8
Eye relief	12.2 mm
Close focusing distance	3 m
Weight	255 g
Dimensions	113 × 118 mm (L × W)
Type	Porro



Binocular 10 × 25 CF Travelite V

Order code	BAA385AA
Magnification	10×
Objective diameter	25 mm
Angular field of view	
Real	5°
Apparent	50°
Field of view at 1000 m	87 m
Exit pupil	2.5 mm
Relative brightness	6.3
Eye relief	11.1 mm
Close focusing distance	3 m
Weight	250 g
Dimensions	110 × 118 mm (L × W)
Type	Porro



Binocular 12 × 25 CF Travelite V

Order code	BAA368AA
Magnification	12×
Objective diameter	25 mm
Angular field of view	
Real	4.2°
Apparent	50.4°
Field of view at 1000 m	73 m
Exit pupil	2.1 mm
Relative brightness	4.4
Eye relief	11.1 mm
Close focusing distance	4 m
Weight	260 g
Dimensions	110 × 118 mm (L × W)
Type	Porro



Binocular 8 × 25 CF DX II

Order code	BAA582AA
Magnification	8×
Objective diameter	25 mm
Angular field of view	
Real	5.6°
Apparent	44.8°
Field of view at 1000 m	98 m
Exit pupil	3.1
Relative brightness	9.6
Eye relief	14 mm
Close focusing	
distance	2 m
Weight	305 g
Dimensions	107 × 113 mm (L × W)
Type	Porro



Binocular 10 × 25 CF DX II

Order code	BAA583AA
Magnification	10×
Objective diameter	25 mm
Angular field of view	
Real	5°
Apparent	50°
Field of view at 1000 m	87 m
Exit pupil	2.5 mm
Relative brightness	6.2
Eye relief	11.1 mm
Close focusing	
distance	2 m
Weight	305 g
Dimensions	105 × 113 mm (L × W)
Type	Porro



Binocular 12 × 25 CF DX II

Order code	BAA584AA
Magnification	12×
Objective diameter	25 mm
Angular field of view	
Real	4.2°
Apparent	50°
Field of view at 1000 m	73 m
Exit pupil	2.1 mm
Relative brightness	4.4
Eye relief	11.1 mm
Close focusing	
distance	3 m
Weight	310 g
Dimensions	105 × 113 mm (L × W)
Type	Porro



Binocular 8 × 36 DCF Sporter I

Order code	BAA595AA
Magnification	8×
Lens diameter	36 mm
Angular field of view	
Real	7°
Apparent	56°
Field of view at 1000 m	122 m
Exit pupil	4.5 mm
Relative brightness	20.3
Eye relief	20.5 mm
Close focusing distance	3 m
Weight	720 g
Dimensions	145 × 131 mm (L × W)
Type	Roof



Binocular 10 × 36 DCF Sporter I

Order code	BAA595AA
Magnification	10×
Lens diameter	36 mm
Angular field of view	
Real	5.6°
Apparent	56°
Field of view at 1000 m	98 m
Exit pupil	3.6 mm
Relative brightness	13
Eye relief	16.1 mm
Close focusing distance	3 m
Weight	700 g
Dimensions	140 × 131 mm (L × W)
Type	Roof



Binocular 8 × 25 CF WP/RA II

Order code	BAA132AA
Magnification	8×
Objective diameter	25 mm
Angular field of view	
Real	6.3°
Apparent	50.4°
Field of view at 1000 m	110 m
Exit pupil	3.1 mm
Relative brightness	9.6
Eye relief	14.3 mm
Close focusing distance	5 m
Weight	450 g
Dimensions	108 × 119 mm (L × W)
Characteristics	Rubber armouring; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Porro



Binocular 10 × 25 CF WP/RA II

Order code	BAA133AA
Magnification	10×
Objective diameter	25 mm
Angular field of view	
Real	5°
Apparent	50°
Field of view at 1000 m	87 m
Exit pupil	2.5 mm
Relative brightness	6.3
Eye relief	13.1 mm
Close focusing distance	5 m
Weight	450 g
Dimensions	104 × 119 mm (L × W)
Characteristics	Rubber armouring; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Porro



Binocular 8 × 25 DCF Sportstar III

Order code	BA589AA silver BAA587AA black
Magnification	8×
Objective diameter	20 mm
Angular field of view	
Real	6.3°
Apparent	50.4°
Field of view at 1000 m	109 m
Exit pupil	2.5 mm
Relative brightness	6.3
Eye relief	10.1 mm
Close focusing distance	3 m
Weight	245 g
Dimensions	102 × 107 mm (L × W)
Type	Roof



Binocular 10 × 25 DCF Sportstar III

Order code	BAA590AA silver BAA588AA black
Magnification	10×
Objective diameter	25 mm
Angular field of view	
Real	5°
Apparent	50°
Field of view at 1000 m	87 m
Exit pupil	2.5 mm
Relative brightness	6.3
Eye relief	10.1 mm
Close focusing distance	3 m
Weight	310 g
Dimensions	121 × 109 mm (L × W)
Type	Roof



Binocular 7 × 35 CF Action VI

Order code	BAA600AA
Magnification	7×
Objectiv diameter	35 mm
Angular field of view	
Real	9.3°
Apparent	65.1°
Field of view	
at 1000 m	163 m
Exit pupil	5 mm
Relative brightness	25
Eye relief	11.9 mm
Close focusing	
Distance	5.1 m
Weight	675 g
Dimensions	123 × 181 mm (L × W)
Type	Porro
Characteristic	asferical lens in an ocular



Binocular 7 × 50 CF Action VI

Order code	BAA602AA
Magnification	7×
Objectiv diameter	50 mm
Angular field of view	
Real	6.4°
Apparent	44.8°
Field of view	
at 1000 m	112 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	20 mm
Close focusing	
Distance	8.4 m
Weight	1005 g
Dimensions	206 × 194 mm (L × W)
Type	Porro
Characteristic	asferical lens in an ocular



Binocular 8 × 40 CF Action VI

Order code	BAA601AA
Magnification	8×
Objectiv diameter	40 mm
Angular field of view	
Real	8.2°
Apparent	65.6°
Field of view	
at 1000 m	146 m
Exit pupil	5 mm
Relative brightness	25
Eye relief	11.9 mm
Close focusing	
Distance	5.1 m
Weight	745 g
Dimensions	143 × 186 mm (L × W)
Type	Porro
Characteristic	asferical lens in an ocular



Binocular 10 × 50 CF Action VI

Order code	BAA603AA
Magnification	10×
Objectiv diameter	35 mm
Angular field of view	
Real	6.5°
Apparent	65°
Field of view	
at 1000 m	114 m
Exit pupil	5 mm
Relative brightness	25
Eye relief	11.8 mm
Close focusing	
Distance	6.4 m
Weight	985 g
Dimensions	187 × 194 mm (L × W)
Type	Porro
Characteristic	asferical lens in an ocular



Binocular 12 × 50 CF Action VI

Order code	BAA604AA
Magnification	12×
Objectiv diameter	50 mm
Angular field of view	
Real	5.5°
Apparent	66°
Field of view	
at 1000 m	96 m
Exit pupil	4.2 mm
Relative brightness	17.6
Eye relief	9.4 mm
Close focusing	
Distance	6.7 m
Weight	975 g
Dimensions	180 × 194 mm (L × W)
Type	Porro
Characteristic	asferical lens in an ocular



Adaptor for tripod to Action series

Order code	BAB90005
------------	----------

Binocular 8 × 30 E II

Order code	BAA055AA
Magnification	8×
Objective diameter	30 mm
Angular field of view	
Real	8.8°
Apparent	70°
Field of view at 1000 m	154 m
Exit pupil	3.8 mm
Relative brightness	14.4
Eye relief	13.8 mm
Close focusing distance	3 m
Weight	575 g
Dimensions	101 × 181 mm (L × W)
Type	Porro



Binocular 10 × 35 E II

Order code	BAA0056AA
Magnification	10×
Objective diameter	35 mm
Angular field of view	
Real	7°
Apparent	70°
Field of view at 1000 m	122 m
Exit pupil	3.5 mm
Relative brightness	12.3
Eye relief	13.8 mm
Close focusing distance	5 m
Weight	625 g
Dimensions	126 × 183 mm (L × W)
Type	Porro



Binocular 7 × 50 CF WP Compass

Order code	BAA575AA
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.2°
Apparent	50.4°
Field of view at 1000 m	126 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	22.7 mm
Close focusing distance	10 m
Weight	1120 g
Dimensions	193 × 202 mm (L × W)
Characteristics	Built-in compass with illuminator; rubber armouring; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Porro
Accessories	Floating strap



Binocular 7 × 50 CFWP

Order code	BAA574AA
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.2°
Apparent	50.4°
Field of view at 1000 m	126 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	22.7 mm
Close focusing distance	10 m
Weight	1100 g
Dimensions	193 × 202 mm (L × W)
Characteristics	Rubber armouring; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Porro
Accessories	Floating strap



Binocular 7 × 50 IF WP

Order code	BAA577AA
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.5°
Apparent	52.5°
Field of view at 1000 m	131 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	18 mm
Close focusing distance	25 m
Weight	1170 g
Dimensions	181 × 203 mm (L × W)
Characteristics	Rubber armouring; waterproof
Type	Porro



Binocular 7 × 50 IF WP Compass

Order code	BAA578AA
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.5°
Apparent	52.5°
Field of view at 1000 m	131 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	18 mm
Close focusing distance	25 m
Weight	1170 g
Dimensions	181 × 203 mm (L × W)
Characteristics	Built-in compass and scale to ascertain subject direction and distance or size; rubber armouring; waterproof, with O-ring seal and nitrogen gas
Type	Porro



Binocular 7 × 50 IF HP WP Tropical

Order code	BAA190AB
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.3°
Apparent	51.1°
Field of view at 1000 m	128 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	15 mm
Close focusing distance	24.5 m
Weight	1360 g
Dimensions	217 × 216 mm (L × W)
Characteristics	Waterproof
Type	Porro



Binocular 7 × 50 IF HP WP Tropical

with scala

Order code	BAA191AB
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.3°
Apparent	51.1°
Field of view at 1000 m	128 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	15 mm
Close focusing distance	24.5 m
Weight	1360 g
Dimensions	217 × 216 mm (L × W)
Characteristics	Waterproof
Type	Porro



Binocular 10 × 50 CF WP

Order code	BAA586AA
Magnification	10×
Objective diameter	50 mm
Angular field of view	
Real	6.2°
Apparent	62°
Field of view at 1000 m	108 m
Exit pupil	5.0 mm
Relative brightness	25
Eye relief	17.4 mm
Close focusing distance	17 m
Weight	1065 g
Dimensions	195 × 207 mm (L × W)
Characteristics	Waterproof
Type	Porro



Binocular 7 × 50 IF SP WP

Order code	BAA194AA
Magnification	7×
Objective diameter	50 mm
Angular field of view	
Real	7.3°
Apparent	51.1°
Field of view at 1000 m	128 m
Exit pupil	7.1 mm
Relative brightness	50.4
Eye relief	16.2 mm
Close focusing distance	12.3 m
Weight	1485 g
Dimensions	217 × 214 mm (L × W)
Characteristics	Waterproof
Type	Porro



Binocular 10 × 70 IF SP WP

Order code	BAA195AA
Magnification	10×
Objective diameter	70 mm
Angular field of view	
Real	5.1°
Apparent	51°
Field of view at 1000 m	89 m
Exit pupil	7 mm
Relative brightness	49
Eye relief	15 mm
Close focusing distance	50 mm
Weight	1985 g
Dimensions	304 × 234 mm (L × W)
Characteristics	Rubber armoured; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Porro



Binocular 8 × 30 DIF WP RA II

Order code	BAA408AA
Magnification	8×
Objective diameter	30 mm
Angular field of view	
Real	7.5°
Apparent	60°
Field of view at 1000 m	131 m
Exit pupil	3.8 mm
Relative brightness	14.4
Eye relief	13 mm
Close focusing distance	11 m
Weight	610 g
Dimensions	129 × 131 mm (L × W)
Characteristics	Rubber armoured; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Roof



Binocular 10 × 70 IF HP WP

Order code	BAA192AB
Magnification	10×
Objectiv diameter	70 mm
Angular field of view	
Real	5.1°
Apparent	51°
Field of view	
at 1000 m	89 m
Exit pupil	7 mm
Relative brightness	49
Eye relief	15 mm
Close focusing	
Distance	50 m
Weight	1985 g
Dimensions	304 × 235 mm (L × W)
Type	Porro
Characteristics	rubber armouring; waterproof; fog-free with O-Ring seal and nitron gas
Type	Porro



Binocular 18 × 70 IF WP WF

Order code	BAA196AA
Magnification	18×
Objective diameter	70 mm
Angular field of view	
Real	4°
Apparent	72°
Field of view at 1000 m	70 m
Exit pupil	3.9 mm
Relative brightness	15.2
Eye relief	15.4 mm
Close focusing	
distance	81 m
Weight	2050 g
Dimensions	293 × 234 mm (L × W)
Characteristics	Rubber armouring; waterproof; fog-free with O-ring seal and nitrogen gas
Type	Porro



Adaptor tripod to divers Binoculars

to 7 × 50 IF HP WP Tropical
8 × 32 SE CF
10 × 42 SE CF
12 × 50 SE CF
18 × 70 IF WP WF
7 × 50 IF SP WP
10 × 70 IF SP WP
10 × 70 IF HP WP

Order code BI71/BAB90004

Binocular 8 × 40 DCF HP WP

Order code	BAA560AA
Magnification	8×
Objective diameter	40 mm
Angular field of view	
Real	6.5°
Apparent	52°
Field of view at 1000 m	114 m
Exit pupil	5 mm
Relative brightness	25
Eye relief	19.5 mm
Close focusing	
distance	6 m
Weight	745 g
Length	164 mm
Width	129 mm
Type	Roof
Characteristics	Waterproof and fog-free with O-ring seals and nitrogen gas



Binocular 10 × 40 DCF HP WP

Order code	BAA561AA
Magnification	10×
Objective diameter	42 mm
Angular field of view	
Real	6°
Apparent	60°
Field of view at 1000 m	105 m
Exit pupil	4 mm
Relative brightness	16
Eye relief	15.5 mm
Close focusing	
distance	6 m
Weight	745 g
Length	159 mm
Width	129 mm
Type	Roof
Characteristics	Waterproof and fog-free with O-ring seals and nitrogen gas



Adaptor tripod

to DCF HP WP hard

Order code BAB90006

Adaptor tripod

to DCF HP WP soft

Order code BAB90007

Binocular 8 × 32 SE CF

Order code	BAA555AA
Magnification	8×
Objective diameter	32 mm
Angular field of view	
Real	7.5°
Apparent	60°
Field of view at 1000 m	131 m
Exit pupil	4 mm
Relative brightness	16
Eye relief	17.4 m
Close focusing distance	3 m
Weight	630 g
Length	116 mm
Width	183 mm
Type	Porro



Binocular 10 × 42 SE CF

Order code	BAA554AC
Magnification	10×
Objective diameter	42 mm
Angular field of view	
Real	6°
Apparent	60°
Field of view at 1000 m	105 m
Exit pupil	4.2 mm
Relative brightness	17.6
Eye relief	17.4 mm
Close focusing distance	5 m
Weight	710 g
Length	157 mm
Width	192 mm
Type	Porro



Binocular 12 × 50 SE CF

Order code	BAA562AA
Magnification	12×
Objective diameter	50 mm
Angular field of view	
Real	5°
Apparent	60°
Field of view at 1000 m	87 m
Exit pupil	4.2 mm
Relative brightness	17.6
Eye relief	17.4 mm
Close focusing distance	7 m
Weight	900 g
Length	182 mm
Width	202 mm
Type	Porro



Binocular 8 × 42 HG DCF WP

Order code	BAA219AA
Magnification	8×
Objective diameter	42 mm
Angular field of view	
Real	7°
Apparent	56°
Field of view at 1000 m	122 m
Exit pupil	5.3 mm
Relative brightness	28.1
Eye relief	20 mm
Close focusing distance	3 m
Weight	980 g
Length	157 mm
Width	139 mm
Type	Roof
Characteristics	Prism features high-reflection Silver coating for brighter Images. Waterproof and fog-free with O-ring seals and nitrogen gas



Binocular 10 × 42 HG DCF WP

Order code	BAA220AA
Magnification	10×
Objective diameter	42 mm
Angular field of view	
Real	6°
Apparent	60°
Field of view at 1000 m	105 m
Exit pupil	4.2 mm
Relative brightness	17.6
Eye relief	19 mm
Close focusing distance	3 m
Weight	980 g
Length	157 mm
Width	139 mm
Type	Roof
Characteristics	Prism features high-reflection Silver coating for brighter Images. Waterproof and fog-free with O-ring seals and nitrogen gas



Binocular 5 × 15 DCF Titan

Order code	BAA515AA
Magnification	5×
Objective diameter	15 mm
Angular field of view	
Real	9°
Apparent	45°
Field of view at 1000 m	157 m
Exit pupil	3 mm
Relative brightness	9
Eye relief	15.8 mm
Close focusing distance	1.2 m
Weight	200 g
Length	83 mm with eyepiece normal 71 mm with eyepiece for eyeglass user
Width	103 mm
Type	Porro
Characteristics	Titanium



Binocular 7 × 15 DCF Titan

Order code	BAA518AA
Magnification	7×
Objective diameter	15 mm
Angular field of view	
Real	6,6°
Apparent	46.2°
Field of view at 1000 m	115 m
Exit pupil	2.1 mm
Relative brightness	4.4
Eye relief	12 mm
Close focusing distance	1.5 m
Weight	190 g
Length	79 mm with eyepiece normal 71 mm with eyepiece for eyeglass user
Width	103 mm
Type	Porro
Characteristics	Titanium



Binocular 6 × 15 M CF silver

Order code	BAA516AA
Magnification	6×
Objective diameter	15 mm
Angular field of view	
Real	8°
Apparent	48°
Field of view at 1000 m	140 m
Exit pupil	2.5 mm
Relative brightness	6.3
Eye relief	10.1 mm
Close focusing	
distance	2 m
Weight	130 g
Length	48 mm
Width	108 mm
Type	Porro



Binocular 7 × 15 M CF black

Order code	BAA514AA
Magnification	7×
Objective diameter	15 mm
Angular field of view	
Real	7°
Apparent	49°
Field of view at 1000 m	122 m
Exit pupil	2.1 mm
Relative brightness	4.4
Eye relief	10 mm
Close focusing	
distance	2 m
Weight	135 g
Length	47 mm
Width	108 mm
Type	Porro



Binocular 8–24 × 25 CF Zoom Travelite V

Order code	BAA387AA
Magnification	8–24×
Objective diameter	24 mm
Angular field of view	
Real	4.6°
Apparent	36.8°
Field of view at 1000 m	80 m
Exit pupil	3.1 mm
Relative brightness	9.6
Eye relief	13 mm
Close focusing distance	5 m
Weight	310 g
Dimensions	127 × 118 mm
Type	Porro



Binocular 8–24 × 25 CF DX II Zoom

Order code	BAA585AA
Magnification	8–24×
Objective diameter	25 mm
Angular field of view	
Real	4.6°
Apparent	36.8°
Field of view at 1000 m	80 m
Exit pupil	3.1 mm
Relative brightness	9.6
Eye relief	13 mm
Close focusing distance	4 m
Weight	355 g
Dimensions	119 × 110 mm
Type	Porro



Binocular 7–15 × 35 CF Zoom Action VI

Order code	BAA605AA
Magnification	7–15×
Objective diameter	35 mm
Angular field of view	
Real	5.5°
Apparent	38.5°
Field of view at 1000 m	96 m
Exit pupil	5 mm
Relative brightness	25
Eye relief	9.1 mm
Close focusing distance	8 m
Weight	770 g
Dimensions	139 × 170 mm
Type	Porro



Binocular 10–22 × 50 CF Zoom Action VI

Order code	BAA606AA
Magnification	10–22×
Objective diameter	50 mm
Angular field of view	
Real	3.8°
Apparent	38°
Field of view at 1000 m	66 m
Exit pupil	5 mm
Relative brightness	25
Eye relief	8.6 mm
Close focusing distance	15 m
Weight	950 g
Dimensions	193 × 182 mm
Type	Porro



Fieldscope III

straight body type, without eyepiece

Order code	BDA100AA
Magnification	depending on eyepiece used
Lens diameter	60 mm
Weight	1080 g
Length	279 mm
Width	80 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Fieldscope III A

angled body type, without eyepiece

Order code	BDA102AA
Magnification	depending on eyepiece used
Lens diameter	60 mm
Weight	1180 g
Length	291 mm
Width	94 mm
Characteristics	rubber armouring; water resistant



Fieldscope III ED

straight body type, without eyepiece

Order code	BDA101AA
Magnification	depending on eyepiece used
Lens diameter	60 mm
Weight	1090 g
Length	279 mm
Width	80 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Fieldscope III ED A

angled body type, without eyepiece

Order code	BDA103AA
Magnification	depending on eyepiece used
Lens diameter	60 mm
Weight	1090 g
Length	291 mm
Width	94 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Fieldscope ED78

straight body type, without eyepiece

Order code	BDA027AA
Magnification	depending on eyepiece used
Lens diameter	78 mm
Weight	1355 g
Length	366 mm
Width	90 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Fieldscope ED 78A

angled body type, without eyepiece

Order code	BDA028AA
Magnification	depending on eyepiece used
Lens diameter	78 mm
Weight	1530 g
Length	365 mm
Width	100 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Camera adapter for Fieldscopes

Order code	BDB010AA
Characteristics	gives a 800 mm f/13.3
Dimensions	59 mm \varnothing × 140 mm
Weight	330 g



Spottingscope 80 ST

straight body type, without eyepiece

Order code	BDA015AA
Magnification	depending on eyepiece used
Lens diameter	80 mm
Weight	1400 g
Length	390 mm
Width	95 mm
Characteristics	rubber armouring; water resistant



Spottingscope 80 ST A

angled body type, without eyepiece

Order code	BDA016AA
Magnification	depending on eyepiece used
Lens diameter	80 mm
Weight	1430 g
Length	385 mm
Width	95 mm
Characteristics	rubber armouring; water resistant



Spotter XL

Order code	BDA016AA
Magnification	16–47×
Lens diameter	60 mm
Angular field Real	2°
Apparent	32°
Field of view at 1000 m	35 m
Close focusing distance	10 m
Weight	1430 g
Length	385 mm
Width	95 mm
Characteristics	rubber armouring; water resistant



Spottingscope RAII

straight body type, without eyepiece

Order code	BDA013AA
Magnification	depending on eyepiece used
Lens diameter	60 mm
Weight	935 g
Length	299 mm
Width	84 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Spottingscope RAII A

angled body type, without eyepiece

Order code	BDA013AA
Magnification	depending on eyepiece used
Lens diameter	60 mm
Weight	960 g
Length	288 mm
Width	84 mm
Characteristics	rubber armouring; water resistant fog-free with O-ring seal and nitrogen gas



Oculars for Fieldscope III / IIIA / ED III / ED IIIA

Order code	Magnification
BI54/BDB90007	20× (normal)
BI49WN/BDB90059	24× (wideangel)
BI55WN/BDB90060	30× (wideangel)
BI56N/BDB90058	40× (normal)
BI56WN/BDB90061	40× (wideangel)
BI57WN/BDB90062	60× (wideangel)
BI68N/BDB90063	20-45× (zoom)
BI69N/BDB90064	20-60× (zoom)



Oculars for Spottingscope ED 78 / ED 78A

Order code	Magnification
BI54/BDB90007	25× (normal)
BI49WN/BDB90059	30× (wideangel)
BI55WN/BDB90060	38× (wideangel)
BI56N/BDB90058	50× (normal)
BI56WN/BDB90061	50× (wideangel)
BI57WN/BDB90062	75× (wideangel)
BI68N/BDB90063	25-56× (zoom)
BI69N/BDB90064	25-75× (zoom)



Stereo microscope Naturescope

Order code	BJA001AA
Magnification	20×
Working distance	94.4 mm
Field of view	11 mm
Convergent angle	12,6°
Pupil distancer	56–72 mm
Diopter adjustment	+2 to –4
Weight	610 g
Height at viewing position	184 mm
Height at carrying position	144 mm
Width	100 mm
Depth	94 mm
Light	2.5 V – 0.5 A halogen lamp
Battery	3 V lithium CR123A



Stereo microscope Naturescope Mini

Order code	BJA002AA
Magnification	20×
Working distance	94.4 mm
Field of view	12.8 mm
Pupil distancer	51–72 mm
Diopter adjustment	+2 to –4
Weight	395 g
Height at viewing position	156 mm
Height at carrying position	124 mm
Width	94 mm
Height	156 ~ 202 mm
(at viewing position)	Distance pupil 64 mm
(at carrying position)	124 mm



Monocular 5 × 15 HG

Order code	BDA009AA
Magnification	5×
Objective diameter	15 mm
Angular field of view	
Real	9°
Apparent	45°
Field of view at 1000 m	157 m
Exit pupil	3 mm
Relative brightness	
Eye relief	0.6 m
Length	71 mm
Width	30 mm
Weight	75 g



Monocular 7 × 15 HG

Order code	BDA005AA
Magnification	7×
Objective diameter	15 mm
Angular field of view	
Real	6.6°
Apparent	16.2°
Field of view at 1000 m	115 m
Exit pupil	2.1 mm
Relative brightness	4.4
Eye relief	0.8
Length	71 mm
Width	30 mm
Weight	75 g



Field Image System MXA

Order number	BDB901AF
CCD camera signal	NTSC or PAL
CCD chip	1/4 inch, 270,000 pixels
White balance	automatic
Power consumption	160 mAh
External terminal	DC input; video input × 2;
Power source	Four 1.5 V alkaline-manganese batteries; AC adapter(DC 6 V)
Weight	90 g (without batteries)
Dimensions	114 × 67.4 × 42 mm (W × H × D)

Monitor	LCD
LCD display panel	4 inch, TFT colour LCD
Display area	80.7 (H) × 60.6 (V) mm
Resolution	383 (H) × 0.259 (V)
Colour alignment	R, G, B
External terminal	DC input, video input × 1;
Power source	Eight alkaline-manganese batteries 1.5 V; AC adapter (DC 12 V)
Weight	370 g (without batteries)
Dimensions	131 × 109 × 90 mm (W × H × D)

Performance when attached to the Fieldscope

Objective lens diameter	60 mm
Close focussing distance	5 m
Focal length (equivalent to 35 mm (135) format camera lens)	4,000 mm
Field of view at 1000 m	0.86 × 0.65 m

Objective lens diameter	78 mm
Close focussing distance	5 m
Focal length (equivalent to 35 mm (135) format camera lens)	5,000 mm
Field of view at 1000 m	0.69 × 0.52 m



Nikon Laser 400

Laser range finder

Order code	BKA006AA silver BKA007AA black
Magnification	8×
Effective lens diameter	20 mm
Field of view	6.3°
Exit pupil	30.4 mm
Eye relief	10 mm
Distance display	digitally in LCD viewfinder
Measurement accuracy	10–99 m (tolerance ±0.5 m) 100–400 m (tolerance ±1 m)
Measurement range	Approx. 10–400 m
Power source	One CR 2 3V lithium battery; automatic power shut-off after 8 sec.
Dimensions	94 × 36.5 × 72.5 mm (L × W × H)
Weight	200 g (without batteries)



Nikon Laser 800

Laser range finder

Order code	BKA004AA
Magnification	8×
Effective lens diameter	28 mm
Field of view	4.5°
Exit pupil	3.4 mm
Eye relief	14 mm
Distance display	digitally in LCD viewfinder
Measurement accuracy	2 m (tolerance ±1 m)
Measurement range	Approx. 16–800 m (up to approx 999 m for highly reflect- ive objects)
Mode selection	Targeting modes (standard, rain, reflective, greater than 150 m); scan mode and metre indicator
Power source	Four 1.5V alkaline manganese batteries; automatic power shut-off after 8 sec.
Dimensions	122 × 92 × 50 mm (L × W × H)
Weight	270 g (without batteries)



Nikon Night Search

Order code	BLA001AB
Resolution	36 lp (linepair) / mm
Magnification	1×
IR-Illuminator	built-in
Field of view	34°
Focal length	27 mm
Focus range	27 cm to infinity
Dioptre adjustment	-1 to +6
Power source	One CR 123A 3V lithium batterie
Dimensions	149 × 52 × 76 mm (L × W × D)
Weight	450 g (without batteries)
Characteristics	water resistant



Teleconverter 2.8×

Order code	BLB00004
Magnification	2.8×

Nikon Europe

Nikon Europe B.V.
Schipholweg 321
1171 PL Badhoevedorp

Phone (31) 20-449-6222
Fax (31) 20-449-6297

Spain

Finicon S.A.
C/Ciencas, 81 Nave-8
Poligono Pedrosa
08908 L'Hospitalet de Llobregat
Barcelona

Phone (34) 93-2649090
Fax (34) 93-3363400

Switzerland

Nikon AG
Kaspar-Fenner-Strasse 6
8700 Küsnacht/ZH

Phone (41) 1-913-61-11
Fax (41) 1-913-61-61

Netherlands

Inca Import B.V.
Rutherfordstraat 7
2014 K.A. Haarlem

Phone (31) 23-5101910
Fax (31) 23-5243551

Germany

Nikon GmbH
Tiefenbroicherweg 25
40472 Düsseldorf

Phone (49) 211-94-140
Fax (49) 211-94-14-344

Norway

Interfoto A.S
O.H. Bangsvei 51
1322 Hovik

Phone (47) 67-115500
Fax (47) 67-115501

United Kingdom & Ireland

Nikon U.K. Ltd.
380 Richmond Road, Kingston
Surrey KT2 5PR

Phone (44) 20-8541-4440
Fax (44) 20-8541-4584

Hungary

Nikon Kft
Devai Utca 26-28
1134 Budapest

Phone (36) 1-350-55-25
Fax (36) 1-350-55-28

France

Nikon France S.A.
191, Rue Du Marche Rollay
94504 Champigny
Sur Marne Cedex

Phone (33) 1-45-16-45-16
Fax (33) 1-45-16-00-33

Czech Republic & Slovakia Republic

Nikon SRO
Kodanska 46
100 10 Praha 10

Phone (420) 2-67154560
Fax (420) 2-67154564

Sweden

Nikon Svenska AB
Anton Tamms Vag 3
Box 84
194 22 Upplands-Vasby

Phone (46) 8-594-109-00
Fax (46) 8-590-751-40

Italy

Nital S.p.A.
Via Tabacchi 33
10132 Torino

Phone (39) 011-899-68-04
Fax (39) 011-899-62-25

Finland

Nikon Svenska AB
Finnish branch office
Ojahaanrinne 4
01600 Vantaa

Phone (358) 9-566-00-60
Fax (358) 9-566-00-626

Austria

Nikon GmbH Austrian
branch office
Modecenterstr. 14
1030 Wien

Phone (43) 1-796-6110
Fax (43) 1-796-611020

Luxemburg & Belgium

N. V.H. De Beukelaer & Co. S.A.
Boomsesteenweg 77
2630 Aartselaar

Phone (32) 3-870-59-00
Fax (32) 3-877-01-25

Yugoslavia (Serbia & Montenegro)

Refot B
Pcinjska BR. 12
11000 Beograd

Phone (381) 11-444-86-52
Fax (381) 11-446-02-34

Poland

Camera SP. Z.O.O.
UL. Tamka 38
00 355 Warszawa

Phone (48) 22-556-23-53
Fax (48) 22-556-23-53

Portugal

Atlant Photo Image
Sucursal en Portugal
Rua Alexandre Herculano 51, 4 B
1250-010 Lisboa

Phone (351) 21-3866209
Fax (351) 21-3866208

Greece

D. & J. Damkalidis S.A.
44 Zefyrou St.
175 64 Paleo Faliro
Athens

Phone (30) 1-941-08-88
Fax (30) 1-942-70-58

Russia

Nikon Svenska AB CIS
Representative Office
129164, Russia Moscow,
Zubarev preulok, 15, korpus 1,
office 342

Phone (7) 095-733-9170
Fax (7) 095-733-9171

Denmark

Dansk Fotoagentur, A/S
Lerso Parkalle 101
2100 Kobenhavn

Phone (45) 39-16-20-20
Fax (45) 39-16-20-40