Nikon™

At the heart of the image™

DIGITAL SLR COMPARISON GUIDE

Nikon DIGITAL SLR CAMERAS


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THE POWER OF DIGITAL PHOTOGRAPHY DEFINED

The sheer power, control and versatility to match the creative demands of the world's award-winning professional photographers. The ease of use that allows beginners to faithfully preserve unforgettable family moments. Whatever your priorities, Nikon digital SLRs offer the innovative technology, precision engineering and reliably superior performance to produce breathtaking images that make you proud.

Nikon offers a comprehensive and exciting lineup of next-generation digital SLR cameras, offering exclusive technologies that combine to deliver extraordinary image quality. From the D2Xs whose innovations deliver unprecedented power and expressive capability for professional photographers, to the new D40 and D40x that enables anyone to easily capture incredible moments, Nikon digital SLRs set the standard. Every model offers the distinct advantage of compatibility with legendary autofocus Nikkor lenses and all the Nikon digital SLRs featured here allow you to take full advantage of Nikon's cutting edge SB-800, SB-600 and SB-R200 Speedlights with i-TTL flash control technology. And the D200, D80 and D70s with their built-in Speedlights are also compatible with the amazing R1 Wireless Close-Up Speedlight System.

Whatever Nikon digital SLR you choose, you will possess the power and performance you need to create outstanding images that reflect your unique vision.

D2Xs

PERFORMANCE ON DEMAND

The next stage in astonishing performance, the Nikon D2Xs digital SLR achieves new levels of response, handling efficiency, and control, elevating the already stellar qualities of our flagship D2X. With a 12.4-megapixel DX format CMOS sensor, 2.5-inch wide-angle LCD monitor, autofocus advancements, and high speed crop mode, the D2Xs positions demanding professionals at the leading edge of speed, versatility, and image quality.

D2Hs

A SPECIAL EDITION OF A PRO FAVORITE

Incorporating features introduced in the breakthrough D2X, such as wireless technology and an all-new ASIC, the D2Hs elevates the performance of the groundbreaking D2H. Advanced digital technology – including i-TTL flash control and the exclusive LBCAST imaging sensor – delivers the speed, accuracy, durability and streamlined workflow demanded by today's professionals.

D200

FASTER. SMARTER. STRONGER.

Faster when it counts, more rugged where it matters, and more intelligent where it's essential, the Nikon D200 digital SLR assures breathtaking performance and image quality that will gratify demanding photographers. Featuring a newly developed 10.2-megapixel DX format CCD image sensor and 11 area AF system - and an image-processing engine that debuted on the D2X the D200 performs to an exclusive standard achievable only with Nikon.

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D80

EXPERT DESIGN... USE WITH PASSION

The versatile Nikon D80 digital SLR expands the capabilities of aspiring photographers with its new 10.2-megapixel DX format CCD image sensor and high-resolution image-processing engine, featuring technology developed for our professional cameras. The improved 11-area AF system, 2.5-inch wide-angle LCD monitor, In-Camera Editing, and other advanced features deliver exciting, responsive performance - and an easy way to create exceptional images.

D40x

INCREDIBLE PICTURES... EVEN EASIER! NIKON'S SMALLEST DIGITAL SLR EVER

With a 10.2-megapixel Nikon DX format CCD imaging sensor, the Nikon D40x delivers eye-popping high-resolution images, allowing prints up to 20 by 24 inches and substantially more room for creative cropping. Designed to make even first-time SLR users successful, the D40x offers astonishingly intuitive operation, and like the D40, its quick startup; super responsive shutter release (virtually eliminating annoying shutter lag) and simple, powerful automatic features make getting the pictures you really want easy, convenient, and fun.

D40

INCREDIBLE PICTURES... EVEN EASIER! NIKON'S SMALLEST DIGITAL SLR EVER

Delivering next generation digital and optical technologies, the compact, Nikon D40 makes spectacular pictures spectacularly easy for everyone. With quick startup; super responsive shutter release (virtually eliminating annoying shutter lag), eight automatic Digital Vari-Program shooting modes; fast, razor-sharp autofocus; compatibility with legendary AF-S and AFI Nikkor lenses; built-in Speedlight; in-camera editing capabilities, and more — the D40 lets you capture memorable moments, perfectly and effortlessly. Getting better digital pictures has never been easier!

NIKKOR LENSES

THE DEFINING STRENGTH OF THE Nikon SYSTEM
Among the many good reasons for purchasing a Nikon digital SLR camera, the best, for most photographers, is Nikkor lenses. With our passionate commitment to lens manufacturing, from the design through to production of our own glass, Nikkor lenses continue to deliver innovative optical technology, superior mechanical operation and unsurpassed imaging performance.

Nikon OFFERS AN EXTENSIVE LINE OF NIKKOR LENSES, INCLUDING MORE THAN 40 AUTOFOCUS LENSES, enabling photographers to meet virtually any photographic challenge. For more information on Nikkor lenses visit **www.nikondigital.com.**

12-24MM F/4G ED-IF AF-S DX ZOOM-NIKKOR
- High-performance 2x Ultra wide-angle zoom
- ED Extra-Low Dispersion Glass
- AF-S Silent Wave Motor

17-55MM F/2.8G ED-IF AF-S DX ZOOM-NIKKOR
- Fast 3.2x wide-angle zoom
- ED Extra-Low Dispersion Glass
- AF-S Silent Wave Motor

24-120MM F/3.5-5.6G ED-IF AF-S VR ZOOM-NIKKOR
- Compact, Versatile 5x zoom
- AF-S Silent Wave Motor
- VR (Vibration Reduction)

18-135MM F/3.5-5.6G ED-IF AF-S DX ZOOM-NIKKOR
- Versatile, 7.5x Zoom-Nikkor
- Compact, AF-S Silent Wave Motor
- ED, Extra-Low Dispersion Glass

18-200MM F/3.5-5.6G ED-IF AF-S VR DX ZOOM-NIKKOR
- High performance 11x Zoom
- ED Extra-Low Dispersion Glass
- VR II (Vibration Reduction)

18mm

24mm

35mm

55mm

85mm

Nikon SPEEDLIGHTS

WHERE INNOVATION SPARKS IMAGINATION
The Nikon Creative Lighting System offers a comprehensive selection of revolutionary lighting tools to match virtually any need. Featuring the world's most intelligent and versatile flash units, the system offers unprecedented levels of accuracy, automation, integration and control.

THE Nikon WIRELESS CLOSE-UP SPEEDLIGHT SYSTEM
is offered in two configurations, R1 and R1C1, to match your specific needs. Complete and ready to go right out of the box, both configurations feature two SB-R200 Wireless Remote Speedlights, as well as a completely integrated array of system accessories, including the SX-1 Attachment Ring (for mounting SB-R200s on the lens), color filter sets, freestanding light stands, and more.

SB-800 SPEEDLIGHT
Nikon's most powerful flagship Speedlight; full featured for Nikon high performance digital SLRs, and anyone looking to build a compact lighting system along with other SB-800, SB-600 and SB-R200 Speedlights. It works as a powerful stand alone Speedlight, remote or master unit to command other wireless remote Speedlights.

SB-600 SPEEDLIGHT
Offering add-on power and coverage, the SB-600 is an ideal blend of performance, versatility and value. It also serves as an additional wireless Speedlight for multiple flash setups.

SB-400 SPEEDLIGHT
Compact, lightweight, and economical, the SB-400 Speedlight combines Nikon's i-TTL intelligent flash capabilities with the utmost in simplicity. When added flash range and bounce versatility are all that's needed, the SB-400 is the perfect solution.

SB-R200 SPEEDLIGHT
Built for Nikon's Wireless Close-Up Speedlight System, this unit is also perfect as an additional wireless Speedlight. Recommended for use with the D2Xs and D2Hs with SU-800 Wireless Commander or D200, D80 or D70s with a built-in commander mode.

55-200MM F/4-5.6G ED-IF AF-S VR DX ZOOM-NIKKOR
- Ultra-compact 3.6x Zoom
- VR (Vibration Reduction)
- AF-S Silent Wave Motor

70-300MM F/4.5-5.6G ED-IF AF-S VR ZOOM-NIKKOR
- 4.3x tele zoom
- ED Extra-Low Dispersion Glass
- VR II (Vibration Reduction)

70-200MM F/2.8G ED-IF AF-S VR ZOOM-NIKKOR
- Fast 2.8x Tele Zoom
- AF-S Silent Wave Motor
- VR (Vibration Reduction)

80-400MM F/4.5-5.6D ED VR AF ZOOM-NIKKOR
- 5x Tele Zoom
- ED Extra-Low Dispersion Glass
- VR (Vibration Reduction)

60MM F/2.8D AF MICRO-NIKKOR
- Compact, Flat field lens
- CRC Close Range Correction system
- Focus from infinity to life-size (1:1)

105mm

135mm

200mm

300mm

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R1 OUTFIT (D200 AND D80)

R1C1 OUTFIT (D2Xs, D2Hs AND D40)

DIGITAL SLR COMPARISON CHART

	D2Xs 	D2Hs 	D200 	D80 	D40x 	D40 
Lens mount	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet
Effective Pixels	12.4 million pixels	4.1 million pixels	10.2 million pixels	10.2 million pixels	10.2 million pixels	6.1 million pixels
Image Sensor	DX Format CMOS sensor, 23.7 x 15.7mm	DX Format JFET image sensor (LBCAST), 23.3 x 15.5mm	DX Format RGB CCD 23.6 x 15.8mm	DX Format RGB CCD 23.6 x 15.8mm	DX Format RGB CCD 23.6×15.8mm	DX Format RGB CCD 23.7 x 15.6mm
Image Size (pixels)	4,288 x 2,848 [L], 3,216 x 2,136 [M] 2,144 x 1,424 [S] High-speed Crop: 3,216 x 2,136 [L] 2,400 x 1,600 [M] 1,600 x 1,064 [S]	2,464 x 1,632 [L] 1,840 x 1,224 [M]	3,872 x 2,592 [L] 2,896 x 1,944 [M] 1,936 x 1,296 [S]	3,872 x 2,592 [L] 2,896 x 1,944 [M] 1,936 x 1,296 [S]	3,872 x 2,592 [L] 2,896 x 1,944 [M] 1,936 x 1,296 [S]	3,008 x 2,000 [L] 2,256 x 1,496 [M] 1,504 x 1,000 [S]
ISO Sensitivity Range	100 to 800 (ISO equivalent) in steps of 1/3 EV, HI-0.3, HI-0.5, HI-0.7, HI-1 and HI-2 available	200 to 1,600 (ISO equivalent) in steps of 1/3 EV, plus HI-1 and HI-2	100 to 1,600 (ISO equivalent) in steps of 1/3 EV, plus HI-0.3, HI-0.7 and HI-1	100 to 1,600 (ISO equivalent) in steps of 1/3 EV, plus HI-0.3, HI-0.7 and HI-1	100 to 1,600, (ISO equivalent) in steps of 1 EV, plus Hi-1 setting (3200 equivalent)	200 to 1,600, (ISO equivalent) in steps of 1 EV, plus Hi-1 setting (3200 equivalent)
Storage Media	CF memory card	CF memory card	CF memory card	SD memory card	SD memory card (SD-HC compatible)	SD memory card (SD-HC compatible)
File types	1) JPEG- 3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 3) Uncompressed TIFF	1) JPEG- 3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 3) Uncompressed TIFF	1) JPEG- 3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW)	1) JPEG- 3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW)	1) JPEG- 3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW)	1) JPEG- 3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW)
White Balance	1) Auto (hybrid with 1,005-pixel RGB Sensor, CMOS image sensor and external Ambient Light Sensor) 2) Manual (6 steps with fine tuning) 3) Preset (5 settings) 4) Color temperature setting in Kelvin (select from 31 steps) 5) White balance bracketing (2 to 9 frames adjustable in 10, 20, 30 MIRED steps)	1) Auto (hybrid with 1,005-pixel CCD, LBCAST image sensor and external Ambience Light Sensor) 2) Manual (6 steps with fine tuning) 3) Preset (5 settings) 4) Color temperature setting in Kelvin (select from 31 steps) 5) White Balance Bracketing (2 to 9 frames adjustable in 10, 20, 30 MIRED steps)	1) Auto (TTL white balance with 420-pixel RGB sensor) 2) Six (6) manual modes with fine-tuning, color temperature setting (Kelvin), 3) Preset white balance 4) White balance bracketing	1) Auto (TTL white balance with 420-pixel RGB sensor) 2) Six (6) manual modes with fine-tuning, color temperature setting (Kelvin), 3) Preset white balance 4) White balance bracketing	1) Auto (TTL white balance with 420-pixel RGB sensor) 2) Six (6) manual modes with fine-tuning, color temperature setting (Kelvin), 3) Preset white balance	1) Auto (TTL white balance with 420-pixel RGB sensor) 2) Six (6) manual modes with fine-tuning, color temperature setting (Kelvin), 3) Preset white balance
LCD Monitor	2.5-in., 230,000-dot, low-temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	2.5-in., 232,000-dot, low-temperature polysilicon TFT LCD with white LED backlighting; digital interface; backlight/ brightness adjustment available	2.5-in., 230,000-dot, low-temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	2.5-in., 230,000-dot, low-temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	2.5-in., 230,000-dot, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	2.5-in., 230,000-dot, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing
Playback Function	1) Full frame 2) Thumbnail (4/9 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication, Shooting data and Highlight point display	1) Full frame 2) Thumbnail (4/9 segments) 3) One-touch zoom (up to 15x) 4) Slideshow 5) RGB histogram display and Highlight point display	1) Full frame 2) Thumbnail (4 or 9 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication 6) Shooting data 7) Highlight point display 8) Auto image rotation	1) Full frame 2) Thumbnail (4 or 9 segments) 3) Zoom 4) Slideshow (Standard or Pictmotion) 5) RGB histogram indication 6) Shooting data 7) Highlight point display 8) Auto image rotation	1) Full frame 2) Thumbnail (4 or 9 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication 6) Shooting data 7) Highlight point display 8) Auto image rotation 9) Retouch history	1) Full frame 2) Thumbnail (4 or 9 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication 6) Shooting data 7) Highlight point display 8) Auto image rotation 9) Retouch history
Interface/Connectivity	USB 2.0 (Hi-Speed) (Mini-B connector) CF Card slot Type II: supports firmware updates via CF cards	USB 2.0 (Hi-Speed) (Mini-B connector) CF Card slot: supports firmware updates via CF cards	USB 2.0 (Hi-speed) (Mini-B connector); CF card slot: supports firmware updates via CF cards	USB 2.0 (Hi-speed) (Mini-B connector); SD card slot: supports firmware updates via SD cards	USB 2.0 (Hi-Speed) (Mini-B connector) SD card slot: supports firmware updates via SD cards	USB 2.0 (Hi-Speed) (Mini-B connector) SD card slot: supports firmware updates via SD cards
Text Input	Up to 36 characters of alphanumeric text input is available with LCD monitor and multi-selector; stored in Exif header	Up to 36 characters of alphanumeric text input is available with LCD monitor and multi-selector; stored in Exif header	Up to 36 characters of alphanumeric text input available with LCD monitor and multi-selector; stored in Exif header	Up to 36 characters of alphanumeric text input available with LCD monitor and multi-selector; stored in Exif header	Up to 36 characters of alphanumeric text input available with LCD monitor and multi-selector; stored in Exif header	Up to 36 characters of alphanumeric text input available with LCD monitor and multi-selector; stored in Exif header

	 D2Xs	 D2Hs	 D200	 D80	 D40x	 D40
Compatible Lenses	All functions possible with all AF Nikkor lenses (including AF-S, DX, VR and D-/G-type). Many functions possible with other Nikkor lenses. Refer to individual product brochure and/or product instruction manual for complete details. Non-AI lenses, IX Nikkor lenses and AF Nikkor lenses for F3AF cannot be used.	All functions possible with all AF Nikkor lenses (including AF-S, DX, VR and D-/G-type). Many functions possible with other Nikkor lenses. Refer to individual product brochure and/or product instruction manual for complete details. Non-AI lenses, IX Nikkor lenses and AF Nikkor lenses for F3AF cannot be used.	All functions possible with all AF Nikkor lenses (including AF-S, DX, VR and D-/G-type). Many functions possible with other Nikkor lenses. Refer to individual product brochure and/or product instruction manual for complete details. Non-AI lenses, IX Nikkor lenses and AF Nikkor lenses for F3AF cannot be used.	All functions possible with all AF Nikkor lenses (including AF-S, DX, VR and D-/G-type). Many functions possible with other Nikkor lenses. Refer to individual product brochure and/or product instruction manual for complete details. Non-AI lenses, IX Nikkor lenses and AF Nikkor lenses for F3AF cannot be used.	All functions possible with all AF-S and AF-I Nikkor lenses. All functions except AF with all other G or D type AF-Nikkor lenses. Many functions possible with other Nikkor lenses. Refer to individual product brochure and/or product instruction manual for complete details. Non-AI lenses, IX Nikkor lenses and AF Nikkor lenses for F3AF cannot be used.	All functions possible with all AF-S and AF-I Nikkor lenses. All functions except AF with all other G or D type AF-Nikkor lenses. Many functions possible with other Nikkor lenses. Refer to individual product brochure and/or product instruction manual for complete details. Non-AI lenses, IX Nikkor lenses and AF Nikkor lenses for F3AF cannot be used.
Viewfinder Type	Optical-type fixed eye-level pentaprism; Built-in diopter adjustment (-3 to $+1m^{-1}$), Eyepiece shutter provided	Optical-type fixed eye-level pentaprism; Built-in diopter adjustment (-3 to $+1m^{-1}$), Eyepiece shutter provided	Optical-type fixed eye-level pentaprism; built-in diopter adjustment (-2.0 to $+1.0m^{-1}$)	Optical-type fixed eye-level pentaprism; built-in diopter adjustment (-2.0 to $+1.0m^{-1}$)	Fixed eye-level penta-Dach-mirror type; built-in diopter adjustment (-1.7 to $+0.5m^{-1}$)	Fixed eye-level penta-Dach-mirror type; built-in diopter adjustment (-1.7 to $+0.5m^{-1}$)
Viewfinder Frame Coverage	Approx. 100% (High-speed Crop mode: Approx. 97%)	Approx. 100%	Approx. 95%	Approx. 95%	Approx. 95%	Approx. 95%
Viewfinder Magnification	Approx. 0.86x with 50mm lens set to infinity , $-1.0m^{-1}$	Approx. 0.86x with 50mm lens set to infinity , $-1.0m^{-1}$	Approx. 0.94x with 50mm lens at infinity; $-1.0m^{-1}$	Approx. 0.94x with 50mm lens at infinity; $-1.0m^{-1}$	Approx. 0.80x with 50mm lens at infinity; $-1.0m^{-1}$	Approx. 0.80x with 50mm lens at infinity; $-1.0m^{-1}$
Optional Viewfinder Accessories	1) DG-2 Eyepiece Magnifier 2) DK-14/17A Anti-Fog Eyepiece 3) DK-19 Rubber Eye Cup 4) DK-17M Magnifying Eyepiece 5) DR-5 Right Angle Viewing Attachment 6) DK-18 Eyepiece Adapter 7) DK17c series Eyepiece Correction Lenses	1) DG-2 Eyepiece Magnifier 2) DK-14/17A Anti-Fog Eyepiece 3) DK-19 Rubber Eye Cup 4) DK-17M Magnifying Eyepiece 5) DR-5 Right Angle Viewing Attachment 6) DK-18 Eyepiece Adapter 7) DK17c series Eyepiece Correction Lenses	1) DR-6 Angle Finder 2) Eyepiece correction lenses (-5 to $+3m^{-1}$) 3) DK-21M Eyepiece Magnifier	1) DR-6 Angle Finder 2) Eyepiece correction lenses (-5 to $+3m^{-1}$) 3) DK-21M Eyepiece Magnifier	1) DR-6 Angle Finder. 2) Eyepiece correction lenses (-5 to $+3m^{-1}$) 3) DG-2 Eyepiece Magnifier	1) DR-6 Angle Finder. 2) Eyepiece correction lenses (-5 to $+3m^{-1}$) 3) DG-2 Eyepiece Magnifier
Focusing Screen	BriteView Clear Matte Screen III; supplied Type-B	BriteView Clear Matte Screen III; supplied Type-B screen	Type-B BriteView Clear Matte screen Mark II with superimposed focus brackets and On-Demand grid lines	Type-B BriteView Clear Matte screen Mark II with superimposed focus brackets and On-Demand grid lines	Type-B BriteView Clear Matte screen Mark V with superimposed focus brackets	Type-B BriteView Clear Matte screen Mark V with superimposed focus brackets
Optional Focusing Screens	Type-E with grid	Type-E with grid	No	No	No	No
Autofocus System	TTL phase detection, Nikon Multi-CAM 2000 autofocus module	TTL phase detection, Nikon Multi-CAM 2000 autofocus module	TTL phase detection by Nikon Multi-CAM 1000 autofocus module with AF-assist illuminator	TTL phase detection by Nikon Multi-CAM 1000 autofocus module with AF-assist illuminator	TTL phase detection by Nikon Multi-CAM 530 autofocus module with AF-assist illuminator	TTL phase detection by Nikon Multi-CAM 530 autofocus module with AF-assist illuminator
AF Lens Servo	1) Single servo AF [S], 2) Continuous servo AF [C] 3) Manual focus [M] 4) Focus Tracking automatically activated by subject's status in [S] or [C] AF	1) Single Servo AF [S] 2) Continuous Servo AF [C] 3) Manual focus [M] 4) Focus Tracking automatically activated by subject's status in [S] or [C] AF	1) Single Servo AF [S] 2) Continuous servo AF [C] 3) Manual [M] 4) Focus Tracking automatically activated by subject's status in [S] or [C] AF	1) Single Servo AF [S] 2) Continuous servo AF [C] 3) AF-A : auto AF-S/AF-C selection 4) Manual [M] 5) Predictive focus tracking automatically activated according to subject's status	1) Single Servo AF [S], 2) Continuous servo AF [C] 3) AF-A : auto AF-S/AF-C selection 4) Manual [M]	1) Single Servo AF [S], 2) Continuous servo AF [C] 3) AF-A : auto AF-S/AF-C selection 4) Manual [M]
Focus Area/Sensors	11 focus areas; any single area can be selected	11 focus areas; any single area can be selected	11 focus areas or 7 Area Wide-AF mode; any single area can be selected in either mode	11 focus areas; any single area can be selected; center focus area can be switched from normal to wide-frame operation	3 focus areas: any single area can be selected	3 focus areas: any single area can be selected
AF Area Mode	1) Single Area AF 2) Dynamic-area AF 3) Group Dynamic AF 4) Dynamic-area AF with closest subject priority	1) Single Area AF 2) Dynamic-area AF 3) Group Dynamic AF 4) Dynamic-area AF with closest subject priority	1) Single Area AF 2) Dynamic-area AF 3) Dynamic-area AF with closest subject priority	1) Single Area AF 2) Dynamic Area AF 3) Auto-area AF	1) Single Area AF, 2) Dynamic Area AF 3) Dynamic-area AF with closest subject priority	1) Single Area AF, 2) Dynamic Area AF 3) Dynamic-area AF with closest subject priority
Exposure Metering System	1) 1,005-pixel 3D Color Matrix Metering II 2) Variable Center-weighted 3) Spot: Meters 3mm diameter circle (approx. 2.5% of frame) centered on active focus area	1) 1,005-pixel 3D Color Matrix Metering II 2) Variable Center-weighted 3) Spot: Meters 3mm diameter circle (approx. 2.5% of frame) centered on active focus area	1) 1005-pixel 3D Color Matrix Metering II 2) Variable Center-weighted 3) Spot: Meters 3.0mm diameter circle (approx. 2.0% of frame) centered on active focus area	1) 420-pixel 3D Color Matrix Metering II 2) Variable Center-weighted 3) Spot: Meters 3.5mm diameter circle (approx. 2.5% of frame) centered on active focus area	1) 420-pixel 3D Color Matrix Metering II 2) Center-weighted 3) Spot: Meters 3.5mm diameter circle (approx. 2.5% of frame) centered on active focus area	1) 420-pixel 3D Color Matrix Metering II 2) Center-weighted 3) Spot: Meters 3.5mm diameter circle (approx. 2.5% of frame) centered on active focus area
Exposure Metering Range	1) EV 0 to 20 (3D Color Matrix or Center-weighted metering) 2) EV 2 to 20 (spot metering)	1) EV 0 to 20 (3D Color Matrix or Center-weighted metering) 2) EV 2 to 20 (spot metering)	1) EV 0 to 20 (3D Color Matrix or Center-weighted metering) 2) EV 2 to 20 (spot metering)	1) EV 0 to 20 (3D Color Matrix or Center-weighted metering) 2) EV 2 to 20 (spot metering))	1) EV 0 to 20 (3D Color Matrix or center-weighted metering) 2) EV 2 to 20 (spot metering)	1) EV 0 to 20 (3D Color Matrix or center-weighted metering) 2) EV 2 to 20 (spot metering)

	D2Xs	D2Hs	D200	D80	D40	
						
Exposure Modes	1) Programmed Auto with flexible program 2) Shutter-Priority Auto [S] 3) Aperture Priority Auto [A] 4) Manual	1) Programmed Auto with flexible program 2) Shutter-Priority Auto 3) Aperture Priority Auto 4) Manual	1) Programmed Auto with flexible program 2) Shutter-Priority Auto 3) Aperture Priority Auto 4) Manual	1) 7 Digital Vari-Programs 2) Programmed Auto with flexible program 3) Shutter-Priority Auto 4) Aperture Priority Auto 5) Manual	1) 8 Digital Vari-Programs 2) Programmed Auto with flexible program 3) Shutter-Priority Auto 4) Aperture Priority Auto 5) Manual	1) 8 Digital Vari-Programs 2) Programmed Auto with flexible program 3) Shutter-Priority Auto 4) Aperture Priority Auto 5) Manual
Exposure Compensation	±5 EV increments of 1/3, 1/2 or 1 EV	±5 EV increments of 1/3, 1/2 or 1 EV	±5 EV in increments of 1/3 or 1/2 EV	±5 EV in increments of 1/3 or 1/2 EV	±5 EV in increments of 1/3 EV	±5 EV in increments of 1/3 EV
Auto Exposure Lock	Detected exposure value locked by pressing AE-L/AF-L button	Detected exposure value locked by pressing AE-L/AF-L button	Luminosity locked at detected value with AE-L/AF-L button	Luminosity locked at detected value with AE-L/AF-L button	Detected exposure value locked by pressing AE-L/AF-L button	Detected exposure value locked by pressing AE-L/AF-L button
Auto Exposure Bracketing	2 to 9 exposures in increments of 1/3, 1/2, 2/3, or 1 EV steps	2 to 9 exposures in increments of 1/3, 1/2, 2/3, or 1 EV steps	2 to 9 exposures in increments between 1/3 to 2.0 EV (±2 EV)	2 to 3 exposures in increments between 1/3 to 2.0 EV (±2 EV)	No	No
Top Framing Rate	1) Up to 5 frames per second at Full resolution 2) Up to 8 frames per second in High Speed Crop	Up to 8 frames per second	Up to 5 frames per second	Up to 3 frames per second	Up to 3 frames per second	Up to 2.5 frames per second
Shutter type	Electronically-controlled vertical-travel focal plane shutter	Electronically-controlled vertical-travel focal plane shutter	Electronically-controlled vertical-travel focal plane shutter	Electronically-controlled vertical-travel focal plane shutter,	Electronically-controlled vertical-travel focal plane shutter	Combined mechanical and CCD electronic shutter
Shutter Speed Range	30 to 1/8,000 sec. in steps of 1/3, 1/2 or 1 EV, bulb	30 to 1/8,000 sec. in steps of 1/3, 1/2 or 1 EV, bulb	30 to 1/8,000 sec. in steps of 1/3 or 1/2 EV, bulb	30 to 1/4,000 sec. in steps of 1/3 or 1/2 EV, bulb	30 to 1/4,000 sec. in steps of 1/3 EV	30 to 1/4,000 sec. in steps of 1/3 EV
High ISO Noise Reduction	1) Normal 2) High	1) Normal 2) High	1) Low 2) Normal 3) High	1) Low 2) Normal 3) High	Yes	Yes
Long Exposure Noise Reduction	Yes	Yes	Yes	Yes	Yes	Yes
Retouch Menu	No	No	No	1) D-lighting 2) Red-eye Correction 3) Image Trimming 4) Monochrome 5) Filter Effects 6) Small Picture 7) Image Overlay	1) D-lighting 2) Red-eye Correction 3) Image Trimming 4) Monochrome 5) Filter Effects 6) Small Picture 7) Image Overlay	1) D-lighting 2) Red-eye Correction 3) Image Trimming 4) Monochrome 5) Filter Effects 6) Small Picture 7) Image Overlay
Recent Settings	Yes	Yes	Yes	No	No	No
My Menu	No	No	No	Yes	Yes	Yes
Flash Modes With Compatible Nikon Speedlights *For more information on Speedlight feature compatibility, please refer to the camera's brochure	1) i-TTL Balanced Fill-Flash 2) D-TTL Balanced Fill-Flash 3) Auto Aperture 4) Non-TTL Auto 5) Range Priority	1) i-TTL Balanced Fill-Flash 2) D-TTL Balanced Fill-Flash 3) Auto Aperture 4) Non-TTL Auto 5) Range Priority	1) i-TTL Balanced Fill-Flash 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority	1) i-TTL Balanced Fill-Flash 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority	1) i-TTL Balanced Fill-Flash 2) Auto Aperture 3) Non-TTL Auto	1) i-TTL Balanced Fill-Flash 2) Auto Aperture 3) Non-TTL Auto
Flash Sync Modes	1) Auto 2) Fill-in flash 3) Red-eye reduction 4) Red-eye reduction with slow sync 5) Slow sync 6) Rear-curtain sync	1) Auto 2) Fill-in flash 3) Red-eye reduction 4) Red-eye reduction with slow sync 5) Slow sync 6) Rear-curtain sync	1) Auto 2) Fill-in flash 3) Red-eye Reduction 4) Red-eye Reduction with Slow Sync 5) Slow Sync 6) Rear-curtain Sync 7) Off	1) Auto 2) Fill-in flash 3) Red-eye Reduction 4) Red-eye Reduction with Slow Sync 5) Slow Sync 6) Rear-curtain Sync 7) Off	1)Auto 2) Fill-in flash 3) Red-eye Reduction 4) Red-eye Reduction with Slow Sync 5) Slow Sync 6) Rear-curtain Sync 7) Off	1) Auto 2) Fill-in flash 3) Red-eye Reduction 4) Red-eye Reduction with Slow Sync 5) Slow Sync 6) Rear-curtain Sync 7) Off
Top Flash Sync TTL	1/250th sec.	1/250th sec.	1/250th sec.	1/200th sec.	1/200th sec.	1/500th sec.
Auto FP High-Speed flash sync	1/8,000th sec.	1/8,000th sec.	1/8,000th sec.	1/4,000th sec.	No	No
Built-in Flash	No	No	Manual pop-up with button release	1) Auto flash with auto pop-up 2) Manual pop-up with button release	1) Auto flash with auto pop-up 2) Manual pop-up with button release (P, S, A, and M)	1) Auto flash with auto pop-up 2) Manual pop-up with button release (P, S, A, and M)

	 D2Xs	 D2Hs	 D200	 D80	 D40x	 D40
Built-in Flash Guide Number	Not applicable	Not applicable	Approx. 55 ft rated at 200 ISO value	Approx. 59 ft rated at 200 ISO value	Approx. 55 ft rated at 200 ISO value	Approx. 55 ft rated at 200 ISO value
Flash Compensation	-3 to +1 EV in increments of 1/3 or 1/2 EV	-3 to +1 EV in increments of 1/3 or 1/2 EV	-3 to +1 EV in increments of 1/3 or 1/2 EV	-3 to +1 EV in increments of 1/3 or 1/2 EV	-3 to +1 EV in increments of 1/3 EV	-3 to +1 EV in increments of 1/3 EV
Flash Bracketing	2 to 9 exposures in increments of 1/3, 1/2, 2/3, or 1 EV steps	2 to 9 exposures in increments of 1/3, 1/2, 2/3, or 1 EV steps	Up to 9 exposures in increments between 1/3 to 2.0 EV	2 to 3 exposures in increments between 1/3 to 2.0 EV	No	No
Built-in Flash/Commander Mode	Not applicable	Not applicable	Two-Group Wireless Commander with SB-800, SB-600 and SB-R200 Speedlights	Two-Group Wireless Commander with SB-800, SB-600 and SB-R200 Speedlights	No Commander Option	No Commander Option
Self-timer	2 to 20 seconds	2 to 20 seconds	2 to 20 seconds	2 to 20 seconds	2, 5, 10 or 20 seconds	2, 5, 10 or 20 seconds
Depth of field preview	Functional with CPU-equipped Nikkor lenses in P, S, A and M modes	Functional with CPU-equipped Nikkor lenses in P, S, A and M modes	Functional with CPU-equipped Nikkor lenses in P, S, A and M modes	Functional with CPU-equipped Nikkor lenses in P, S, A and M modes	No	No
Remote Control	Via 10-pin remote terminal	Via 10-pin remote terminal	Via 10-pin remote terminal	Remote via USB (mini B) connection ML-L3 Wireless Remote Control (optional)	Via ML-L3 Wireless Remote Controller (optional)	Via ML-L3 Wireless Remote Controller (optional)
Power Source (included)	One EN-EL4a Rechargeable Li-ion Battery	One EN-EL4 Rechargeable Li-ion Battery	One EN-EL3e Rechargeable Li-ion Battery	One EN-EL3e Rechargeable Li-ion Battery	One EN-EL9 Rechargeable Li-ion Battery	One EN-EL9 Rechargeable Li-ion Battery
Images per battery charge	Up to 3,800 (Nikon Measurement Standard)	Up to 2,600 (Nikon Measurement Standard)	Up to 1,800 (Nikon Measurement Standard)	Up to 2,700 (Nikon Measurement Standard)	Up to 520 (CIPA Measurement Standard)	Up to 470 (CIPA Measurement Standard)
Battery Grip(s) Optional	No	No	MB-D200 Battery pack accepts one or two rechargeable Nikon EN-EL3e Li-ion batteries or Six AA alkaline (LR6), Ni-MH (HR6), lithium (FR6) batteries, or nickel-manganese (ZR6) AA batteries	MB-D80 Battery pack accepts one or two rechargeable Nikon EN-EL3e Li-ion batteries or Six AA alkaline (LR6), Ni-MH (HR6), lithium (FR6) batteries, or nickel-manganese (ZR6) AA batteries	No	No
Optional AC Power Supply	EH-6 AC Adapter	EH-6 AC Adapter	EH-6 AC Adapter	EH-5 AC Adapter	EH-5 AC Adapter requires EP-5 Adapter	EH-5 AC Adapter requires EP-5 Adapter
Dimensions (W x H x D)	Approx. 6.2 x 5.9 x 3.4 in.	Approx. 6.2 x 5.9 x 3.4 in.	Approx: 5.8 x 4.4 x 2.9 in.	Approx: 5.2 x 4.1 x 3.0 in.	Approx. 5.0 x 2.5 x 3.7 in.	Approx. 5.0 x 3.7 x 2.5 in.
Weight	Approx. 2.4 lbs Without battery, memory card or monitor cover.	Approx. 2.4 lbs Without battery, memory card or monitor cover.	1 lb. 13 oz Without battery, memory card or monitor cover.	1 lb. 5 oz Without battery, memory card or monitor cover.	1 lb. 1 oz Without battery or memory card	1 lb. 1 oz Without battery or memory card
WiFi Functionality	FTP file transfer available and PTP/IP with optional WT-2a (IEEE 802.11b/g)	FTP file transfer available and PTP/IP with optional WT-2a (IEEE 802.11b/g)	FTP file transfer available and PTP/IP with optional WT-3a (IEEE 802.11b/g)	No	No	No

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