

# Digital SLR Comparison Chart



	D3X	D3S	D700	D300S
<b>At a Glance</b>				
<b>Effective Mega Pixels</b>	24.5 million pixels	12.1 million pixels	12.1 million pixels	12.3 million pixels
<b>Image Sensor</b>	FX-format CMOS	FX-format CMOS	FX-format CMOS	DX-format CMOS
<b>LCD Monitor</b>	3.0-in, 921,000-dot	3.0-in, 921,000-dot	3.0-in, 921,000-dot	3.0-in, 921,000-dot
<b>D-Movie mode</b>	No	Yes	No	Yes
<b>ISO Sensitivity Range</b>	100 to 1600	200 to 12,800	200 to 6400	200 to 3200
<b>Top Framing Rate</b>	Up to 5 frames-per-second at full resolution	Up to 9 frames-per-second at full resolution	Up to 5 frames-per-second at full resolution	Up to 7 frames-per-second
<b>Built-in Flash</b>	No	No	Yes	Yes
<b>Battery</b>	EN-EL4a	EN-EL4a	EN-EL3e	EN-EL3e
<b>Image Sensor</b>				
<b>Effective Pixels</b>	24.5 Million Pixels	12.1 Million Pixels	12.1 Million Pixels	12.3 Million Pixels
<b>Image Sensor</b>	FX-format CMOS Sensor, 24 x 35.9mm	FX-format CMOS Sensor, 23.9 x 36mm	FX-format CMOS Sensor, 23.9 x 36mm	DX-format CMOS Sensor, 23.6 x 15.8mm
<b>Active Dust Removal System</b>	No	Yes	Yes	Yes
<b>Image Size (pixels)</b>	FX-format 6,048 x 4,032 [L] 4,544 x 3,024 [M] 3,024 x 2,016 [S] DX-format 3,968 x 2,640 [L] 2,976 x 1,976 [M] 1,984 x 1,320 [S] 5:4 format 5,056 x 4,032 [L] 3,792 x 3,024 [M] 2,528 x 2,016 [S]	FX-format 4,256 x 2,832 [L] 3,184 x 2,120 [M] 2,128 x 1,416 [S] 1.2X Crop 3,552 x 2,368 [L] 2,656 x 1,776 [M] 1,776 x 1,148 [S] 5:4 format 3,552 x 2,832 [L] 2,656 x 2,120 [M] 1,776 x 1,416 [S] DX-Format 2,784 x 1,848 [L] 2,080 x 1,384 [M] 1,392 x 920 [S]	FX-format 4,256 x 2,832 [L] 3,184 x 2,120 [M] 2,128 x 1,416 [S] DX-format 2,784 x 1,848 [L] 2,080 x 1,384 [M] 1,392 x 920 [S]	DX-format 4,288 x 2,848 [L] 3,216 x 2,136 [M] 2,144 x 1,424 [S]
<b>Storage Media</b>	Dual CF memory card slots	Dual CF memory card slots	CF memory card slot	Dual card slots 1 CF and 1 SD (SDHC compatible)
<b>File Types</b>	1) JPEG-3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 12 or 14 bit selectable 3) NEF (RAW); Lossless compressed, Compressed, Uncompressed 4) Uncompressed TIFF	1) JPEG-3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 12 or 14 bit selectable 3) NEF (RAW); Lossless compressed, Compressed, Uncompressed 4) Uncompressed TIFF	1) JPEG-3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 12 or 14 bit selectable 3) NEF (RAW); Lossless compressed, Compressed, Uncompressed 4) Uncompressed TIFF	1) JPEG-3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 12 or 14 bit selectable 3) NEF (RAW); Lossless compressed, Compressed, Uncompressed 4) Uncompressed TIFF
<b>Picture Control/Optimize Image</b>	Standard, Neutral, Vivid, Monochrome; storage for up to nine custom Picture Controls	Standard, Neutral, Vivid, Monochrome; storage for up to nine custom Picture Controls	Standard, Neutral, Vivid, Monochrome; storage for up to nine custom Picture Controls	Standard, Neutral, Vivid, Monochrome; storage for up to nine custom Picture Controls
<b>D-Movie</b>	N/A	1,280 x 720/24 fps 640 x 424/24 fps 320 x 216/24 fps Monaural with built-in Mic and Stereo with optional external Mic	N/A	1,280 x 720/24 fps 640 x 424/24 fps 320 x 216/24 fps Monaural with built-in Mic and Stereo with optional external Mic
<b>Text Input</b>	Up to 36 characters of alphanumeric text input, including copyright information, is available with LCD monitor and multi-selector; stored in EXIF header	Up to 36 characters of alphanumeric text input including copyright information, is available with LCD monitor and multi-selector; stored in EXIF header	Up to 36 characters of alphanumeric text input, including copyright information, is available with LCD monitor and multi-selector; stored in EXIF header	Up to 36 characters of alphanumeric text input, including copyright information, is available with LCD monitor and multi-selector; stored in EXIF header
<b>Image Authentication</b>	Supported: Requires optional Nikon Image Authentication Software (Windows XP, Vista Pre-installed only)	Supported: Requires optional Nikon Image Authentication Software (Windows XP, Vista Pre-installed only)	Supported: Requires optional Nikon Image Authentication Software (Windows XP, Vista Pre-installed only)	Supported: Requires optional Nikon Image Authentication Software (Windows XP, Vista Pre-installed only)
<b>LCD Monitor</b>	3.0-in, 921,000-dot, VGA, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	3.0-in, 921,000-dot, VGA, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	3.0-in, 921,000-dot, VGA, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	3.0-in, 921,000-dot, VGA, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing
<b>Live View Modes /AF</b>	1) Hand Held: TTL Phase Difference AF w/ 51 AF focus areas 2) Tripod: focal-plane contrast AF on a desired point within a specific area 3) Virtual Horizon (digital level) 4) Remote using PC and optional Camera Control Pro 2 software	1) Hand Held: TTL Phase Difference AF w/ 51 AF focus areas 2) Tripod: focal-plane contrast AF on a desired point within a specific area 3) Virtual Horizon (digital level) 4) Remote using PC and optional Camera Control Pro 2 software	1) Hand Held: TTL Phase Difference AF w/ 51 AF focus areas 2) Tripod: focal-plane contrast AF on a desired point within a specific area 3) Virtual Horizon (digital level) 4) Remote using PC and optional Camera Control Pro 2 software	1) Hand Held: TTL Phase Difference AF w/ 51 AF focus areas 2) Tripod: focal-plane contrast AF on a desired point within a specific area 3) Virtual Horizon (digital level) 4) Remote using PC and optional Camera Control Pro 2 software

	D7000	D90	D5000	D3100	D3000
<b>At a Glance</b>					
<b>Effective Mega Pixels</b>	16.2 million pixels	12.3 million pixels	12.3 million pixels	14.2 million pixels	10.2 million pixels
<b>Image Sensor</b>	DX-format CMOS	DX-format CMOS	DX-format CMOS	DX-format CMOS	DX-format CCD
<b>LCD Monitor</b>	3.0-in, 921,000-dot	3.0-in, 921,000-dot	Vari-angle type, 2.7-in., 230,000-dot	3.0-in., 230,000-dot	3.0-in., 230,000-dot
<b>D-Movie mode</b>	Yes	Yes	Yes	Yes	No
<b>ISO Sensitivity Range</b>	100 to 6400	200 to 3200	200 to 3200	100 to 3200	100 to 1600
<b>Top Framing Rate</b>	Up to 6 frames-per-second	Up to 4.5 frames-per-second	Up to 4 frames-per-second	Up to 3 frames-per-second	Up to 3 frames-per-second
<b>Built-in Flash</b>	Yes	Yes	Yes	Yes	Yes
<b>Battery</b>	EN-EL15	EN-EL3e	EN-EL9a	EN-EL 14	EN-EL9a
<b>Image Sensor</b>					
<b>Effective Pixels</b>	16.2 Million	12.3 Million Pixels	12.3 Million Pixels	14.2 million pixels	10.2 Million Pixels
<b>Image Sensor</b>	DX-format CMOS Sensor, 23.6 x 15.8mm	DX-format CMOS Sensor, 23.6 x 15.8mm	DX-format CMOS Sensor, 23.6 x 15.8mm	DX-format CMOS Sensor, 23.1 x 15.4mm	DX-format CCD Sensor, 23.6 x 15.8mm
<b>Active Dust Removal System</b>	Yes	Yes	Yes	Yes	Yes
<b>Image Size (pixels)</b>	DX-format 4,928 x 3,264 (L) 3,696 x 2,448 (M) 2,464 x 1,632 (S)	DX-format 4,288 x 2,848 [L] 3,216 x 2,136 [M] 2,144 x 1,424 [S]	DX-format 4,288 x 2,848 [L] 3,216 x 2,136 [M] 2,144 x 1,424 [S]	DX-format (L) 4608 x 3072 (M) 3456 x 2304 (S) 2304 x 1536	DX-format 3,872 x 2,592 [L] 2,896 x 1,944 [M] 1,936 x 1,296 [S]
<b>Storage Media</b>	Dual SD card slots (SDHC, SDXC compatible)	SD memory card (SDHC compatible)	SD memory card (SDHC compatible)	SD memory card (SDHC, SDXC compatible)	SD memory card (SDHC compatible)
<b>File Types</b>	1) JPEG-3 levels Fine (1:4) Normal (1:8) Basic (1:16) 2) NEF (RAW) 12 or 14 bit selectable 3) NEF (RAW); Lossless compressed, Compressed, Uncompressed 4) 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)
<b>Picture Control/Optimize Image</b>	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; storage for up to nine custom Picture Controls	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; storage for up to nine custom Picture Controls	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape; storage for up to nine custom Picture Controls	Standard, Neutral, Vivid, Monochrome, Portrait Landscape, Picture Control options	Standard, Neutral, Vivid, Monochrome, Portrait Landscape, Picture Control options
<b>D-Movie</b>	1,920 x 1,080 (24p); 24 fps 1,280 x 720 (24p); 24 fps 1,280 x 720 (30p); 30 fps 640 x 424 (30p); 30 fps Monaural with built-in Mic and Stereo with optional external Mic	1,280 x 720/24 fps 640 x 424/24 fps 320 x 216/24 fps Monaural with built-in Mic	1,280 x 720/24 fps 640 x 424/24 fps 320 x 216/24 fps Monaural with built-in Mic	1920 x 1080 (24p): 24 fps (23.976 fps) 1280 x 720 (30p): 30 fps (29.97 fps) 1280 x 720 (25p): 25 fps 1280 x 720 (24p): 24 fps (23.976 fps) 640 x 424 (24p): 24 fps (23.976 fps) Monaural with built-in Mic	N/A
<b>Text Input</b>	Up to 36 characters of alphanumeric text input, including copyright information, 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
<b>Image Authentication</b>	No	No	No	No	No
<b>LCD Monitor</b>	3.0-in, 921,000-dot, VGA, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	3.0-in, 921,000-dot, VGA, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	Vari-Angle type, 2.7-in., 230,000-dot, low temperature polysilicon TFT LCD approx. 100% frame coverage, 170-degree viewing angle and brightness adjustment adjustment	3.0-in., 230,000-dot, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing	3.0-in., 230,000-dot, low temperature polysilicon TFT LCD with brightness adjustment allows up to 170-degree wide-angle viewing
<b>Live View Modes /AF</b>	1) Full-Time AF, 2) Face priority AF, Wide area AF, Normal area AF, Subject Tracking AF 3) Remote using PC and optional Camera Control Pro 2 software	1) Face priority AF, Wide area AF, Normal area AF 2) Remote using PC and optional Camera Control Pro 2 software	1) Face priority AF, Wide area AF, Normal area AF, Subject tracking AF 2) Remote using PC and optional Camera Control Pro 2 software	1) Full-Time AF, 2) Face priority AF, Wide area AF, Normal area AF, Subject Tracking AF 3) Remote using PC and optional Camera Control Pro 2 software	No

# Digital SLR Comparison Chart

	D3X	D3S	D700	D300S
<b>Monitor (cont.)</b>	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) Voice memo 10) Image comment (up to 36 characters)	1) Full frame 2) Thumbnail (4, 9 or 12 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication 6) Shooting data 7) Highlight point display 8) Auto image rotation 9) Voice memo 10) Movie playback with sound 11) Image comment (up to 36 characters)	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) Image comment (up to 36 characters)	1) Full frame 2) Thumbnail (4, 9 or 72 segments) 3) Zoom 4) Slideshow 5) RGB histogram indication with magnified area 6) Shooting data 7) Highlight point display 8) Auto image rotation 9) Movie playback with sound 10) Image comment (up to 36 characters)
<b>Compatible Lenses</b>	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet
<b>Viewfinder Type</b>	All functions possible with all AF NIKKOR lenses (including; AF-I, 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-I, 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-I, 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-I, 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
<b>Viewfinder Frame Coverage and Magnification</b>	SLR optical-type fixed eye-level pentaprism; built-in diopter adjustment (-3 to +1.0m <sup>-1</sup> ), Eyepiece shutter provided	SLR optical-type fixed eye-level pentaprism; built-in diopter adjustment (-3 to +1.0m <sup>-1</sup> ), Eyepiece shutter provided	SLR optical-type fixed eye-level pentaprism; built-in diopter adjustment (-3.0 to +1.0m <sup>-1</sup> ), Eyepiece shutter provided	SLR optical-type fixed eye-level pentaprism; built-in diopter adjustment (-2.0 to +1.0m <sup>-1</sup> )
<b>Viewfinder Accessories (optional) Spec</b>	Approx. 100% Approx. 0.74x with 50mm lens set to infinity; -1.0m <sup>-1</sup>	Approx. 100% Approx. 0.74x with 50mm lens set to infinity; -1.0m <sup>-1</sup>	Approx. 95% Approx. 0.72x with 50mm lens set to infinity; -1.0m <sup>-1</sup>	Approx. 100% Approx. 0.94x with 50mm lens set to infinity; -1.0m <sup>-1</sup>
<b>Autofocus System</b>	1) DG-2 Eyepiece Magnifier (Requires DK-18 Eyepiece Adapter) 2) DK-17A Anti-Fog Eyepiece 3) DK-17C Correction Eyepieces 4) DK-17M Magnifying Eyepiece 5) DK-19 Rubber Eye Cup 6) DR-5 Right Angle Viewfinder	1) DG-2 Eyepiece Magnifier (Requires DK-18 Eyepiece Adapter) 2) DK-17A Anti-Fog Eyepiece 3) DK-17C Correction Eyepieces 4) DK-17M Magnifying Eyepiece 5) DK-19 Rubber Eye Cup 6) DR-5 Right Angle Viewfinder	1) DG-2 Eyepiece Magnifier (Requires DK-18 Eyepiece Adapter) 2) DK-17A Anti-Fog Eyepiece 3) DK-17C Correction Eyepieces 4) DK-17M Magnifying Eyepiece 5) DK-19 Rubber Eye Cup 6) DR-5 Right Angle Viewfinder	1) DG-2 Eyepiece Magnifier (Requires DK-22 Eyepiece Adapter) 2) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 3) DK-21M Eyepiece Magnifier 4) DR-6 Right Angle Viewfinder
<b>AF Lens Servo</b>	TTL phase detection, Nikon Multi-CAM 3500FX autofocus sensor module with AF-assist illuminator	TTL phase detection, Nikon Multi-CAM 3500FX autofocus sensor module with AF-assist illuminator	TTL phase detection, Nikon Multi-CAM 3500DX autofocus sensor module with AF-assist illuminator	TTL phase detection, Nikon Multi-CAM 4800DX autofocus sensor module with AF-assist illuminator
<b>Focus Area/Sensors</b>	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 using Scene Recognition System	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 using Scene Recognition System	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 using Scene Recognition System	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 using Scene Recognition System 5) Full-time Servo (AF-A) available in Live View only 6) Face-Priority AF 7) Focus tracking automatically activated according to subject status in (S) or © AF using Scene Recognition System Wide area, Normal area, Manual focus (M): Electronic rangefinder can be used
<b>AF Area Mode</b>	51 area or 11 areas; any single area can be selected	51 area or 11 areas; any single area can be selected	51 area or 11 areas; any single area can be selected	39 area or 11 areas; any single area can be selected
<b>Focusing Screen</b>	1) Single Area AF 2) 9 Group Dynamic AF 3) 21 Group Dynamic AF 4) 51 Group Dynamic 5) 51 Group Dynamic with 3D Focus Tracking 6) Auto Area using 51 points	1) Single Area AF 2) 9 Group Dynamic AF 3) 21 Group Dynamic AF 4) 51 Group Dynamic 5) 51 Group Dynamic with 3D Focus Tracking 6) Auto Area using 51 points	1) Single Area AF 2) 9 Group Dynamic AF 3) 21 Group Dynamic AF 4) 51 Group Dynamic 5) 51 Group Dynamic with 3D Focus Tracking 6) Auto Area using 51 points	1) Single Area AF 2) 9 Group Dynamic AF 3) 21 Group Dynamic AF 4) 39 Group Dynamic 5) 39 Group Dynamic with 3D Focus Tracking 6) Auto Area using 39 points
<b>Optional Focusing Screens</b>	Type-B BriteView Clear Matte Screen VI	Type-B BriteView Clear Matte Screen VI	Type-B BriteView Clear Matte Screen Mark V with Superimposed focus brackets and On-Demand grid lines	Type-B BriteView Clear Matte Screen Mark VII with Superimposed focus brackets and On-Demand grid lines
<b>Depth of Field Preview</b>	Type-E with grid	Type-E with grid	No	No
<b>White Balance</b>	Functional with CPU-equipped NIKKOR lenses in P, S, A and M mode	Functional with CPU-equipped NIKKOR lenses in P, S, A and M mode	Functional with CPU-equipped NIKKOR lenses in P, S, A and M mode	Functional with CPU-equipped NIKKOR lenses in P, S, A and M mode
	1) Auto (hybrid with 1,005-pixel RGB Sensor, CMOS image sensor and Scene Recognition System) 2) Six (6) manual modes with fine tuning 3) 5 user definable Presets with fine tuning 4) Color temperature setting (Kelvin) 5) 2-9 exposure white balance bracketing	1) Auto (hybrid with 1,005-pixel RGB Sensor, CMOS image sensor and Scene Recognition System) 2) Six (6) manual modes with fine-tuning 3) 5 user definable Presets with fine tuning 4) Color temperature setting (Kelvin) 5) 2-9 exposure white balance bracketing	1) Auto (hybrid with 1,005-pixel RGB Sensor, CMOS image sensor and Scene Recognition System) 2) Six (6) manual modes with fine tuning 3) 5 user definable Presets with fine tuning 4) Color temperature setting (Kelvin) 5) 2-9 exposure white balance bracketing	1) Auto (Hybrid with 2,016 – pixel RGB Sensor, CMOS image sensor and Scene Recognition System) 2) Six (6) manual modes with fine-tuning 3) Color temperature setting (Kelvin) 4) Preset white balance 5) 2 or 3 exposure white balance bracketing

D7000	D90	D5000	D3100	D3000
1) Full frame 2) Calendar 3) Thumbnail (4, 9 or 72 segments) 4) Zoom 5) Movie Playback 6) Slideshow 7) Histogram display 8) Auto image rotation 9) Shooting data 10) Sound playback	1) Full frame 2) Thumbnail (4, 9 or 72 images or calendar) playback with playback 3) Zoom 4) Movie playback with sound 5) Pictmotion 6) Slideshow 7) Histogram display 8) Auto image rotation 9) Highlights 10) Image comment	1) Full frame 2) Thumbnail (4, 9 or 72 images or calendar) playback with playback zoom 3) Stop-motion movies 4) Slide show 5) Histogram display 6) Highlights 7) Auto image rotation 8) Image comment	1) Full frame 2) Calendar 3) Thumbnail (4, 9 or 72 images) 4) Zoom 5) Movie Playback 6) Slideshow 7) Histogram display 8) Highlights 9) Auto image rotation 10) Image Comment (up to 36 characters) 11) Highlight point display	1) Full-frame 2) Thumbnail (4, 9, or 72 images or calendar) playback with playback zoom 3) Stop-motion movies 4) Slide show 5) Histogram display 6) Highlights 7) Auto image rotation 8) Image comment
Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet	Nikon F Bayonet
All functions possible with all AF NIKKOR lenses (including; AF-I, 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-I, 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	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
SLR optical-type fixed eye-level pentaprism; built-in diopter adjustment (-2.0 to +1.0m <sup>-1</sup> )	SLR optical-type fixed eye-level pentaprism; built-in diopter adjustment (-2.0 to +1.0m <sup>-1</sup> )	SLR optical-type fixed eye-level pentamirror; built-in diopter adjustment (-1.7 to +0.7m <sup>-1</sup> )	SLR optical-type fixed eye-level pentamirror; built-in diopter adjustment (-1.7 to +0.5m <sup>-1</sup> )	SLR optical-type fixed eye-level pentamirror; built-in diopter adjustment (-1.7 to +0.5m <sup>-1</sup> )
Approx. 100% Approx. 0.95x with 50mm lens set to infinity; -1.0m <sup>-1</sup>	Approx. 96% Approx. 0.94x with 50mm lens set to infinity; -1.0m <sup>-1</sup>	Approx. 95% Approx. 0.78x with 50mm lens at infinity; -1.0m <sup>-1</sup>	Approx. 95% Approx. 0.80x with 50mm lens at infinity; -1.0m <sup>-1</sup>	Approx. 95% Approx. 0.80x with 50mm lens at infinity; -1.0m <sup>-1</sup>
1) DG-2 Eyepiece Magnifier (Requires DK-22 Eyepiece Adapter) 2) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 3) DK-21M Eyepiece Magnifier 4) DR-6 Right Angle Viewfinder	1) DG-2 Eyepiece Magnifier (Requires DK-22 Eyepiece Adapter) 2) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 3) DK-21M Eyepiece Magnifier 4) DR-6 Right Angle Viewfinder	1) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 2) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 3) DK-21M Eyepiece Magnifier 4) DR-6 Right Angle Viewfinder	1) DG-2 Eyepiece Magnifier (Requires DK-22 Eyepiece Adapter) 2) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 3) DK-21M Eyepiece Magnifier 4) DR-6 Right Angle Viewfinder	1) DG-2 Eyepiece Magnifier (Requires DK-22 Eyepiece Adapter) 2) DK-20C Correction Eyepieces (-5 to +3m <sup>-1</sup> ) 3) DK-21M Eyepiece Magnifier 4) DR-6 Right Angle Viewfinder
TTL phase detection, Nikon Multi-CAM 4800DX autofocus sensor module	TTL phase detection Nikon Multi-CAM 1000DX autofocus sensor module with AF-assist illuminator	TTL phase detection Nikon Multi-CAM 1000DX autofocus sensor module with AF-assist illuminator	TTL phase detection Nikon Multi-CAM 1000DX autofocus sensor module with AF-assist illuminator	TTL phase detection Nikon Multi-CAM 1000DX autofocus sensor module with AF-assist illuminator
1) Single-servo AF (AF-S) 2) Continuous-servo (AF-C) 3) Auto AF-S/AF-C selection (AF-A) 4) Full-time Servo (AF-A) available in Live View only 5) Focus tracking automatically activated according to subject status in (S) or © AF using Scene Recognition System Wide area, Normal area, Manual focus (M): Electronic rangefinder can be used	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 using Scene Recognition System	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 using Scene Recognition System	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]
39 area or 11 areas; any single area can be selected	11 area; any single area can be selected: center focus area can be switched from normal to wide-frame operation	11 area; any single area can be selected	11 area; any single area can be selected	11 area; any single area can be selected
1) Single Area AF 2) 9 Group Dynamic AF 3) 21 Group Dynamic AF 4) 39 Group Dynamic 5) 39 Group Dynamic with 3D Focus Tracking 6) Auto Area using 39 points	1) Single-servo AF 2) Continuous servo AF 3) 3D tracking AF 4) Auto Area AF (11 points) 5) Manual (M)	1) Single-servo AF 2) Continuous servo AF 3) 3D tracking AF 4) Auto Area AF (11 points)	1) Single Area AF 2) Dynamic Area AF 3) Auto-area AF with closest subject priority 4) 3D-Tracking AF (11 points)	1) Single Area AF 2) Dynamic Area AF 3) Auto-area AF with closest subject priority 4) 3D-Tracking AF (11 points)
Type-B BriteView Clear Matte Mark VII with AF area 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 and On-Demand grid lines	Type-B BriteView Clear Matte Screen Mark VII with Superimposed focus brackets	Type-B BriteView Clear Matte Screen Mark VII with Superimposed focus brackets
No	No	No	No	No
Functional with CPU-equipped NIKKOR lenses in P, S, A and M mode	Functional with CPU-equipped NIKKOR lenses in P, S, A and M mode	No	No	No
1) Auto (Hybrid with 2,016 – pixel RGB Sensor, CMOS image sensor and Scene Recognition System) 2) Six (6) manual modes with fine-tuning 3) Color temperature setting (Kelvin) 4) Preset white balance 5) 2 or 3 exposure white balance bracketing	1) Auto (TTL white balance with 420-pixel RGB sensor) 2) Six (6) manual modes with fine-tuning 3) Color temperature setting (Kelvin) 4) Preset white balance 5) 2 or 3 exposure white balance bracketing	1) Auto (TTL white balance with 420-pixel RGB sensor) 2) Six (6) manual modes with fine-tuning 3) Preset manual white balance 4) 3 exposure 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

# Digital SLR Comparison Chart

	D3X	D3S	D700	D300S
<b>Exposure Metering System</b>	1) 1,005-pixel 3D Color Matrix Metering II with Scene Recognition System 2) Variable Center-weighted 3) Spot: Meters 4.0mm diameter circle (approx. 1.5% of frame) on active focus area	1) 1,005-pixel 3D Color Matrix Metering II with Scene Recognition System 2) Variable Center-weighted 3) Spot: Meters 4.0mm diameter circle (approx. 1.5% of frame) on active focus area	1) 1,005-pixel 3D Color Matrix Metering II with Scene Recognition System 2) Variable Center-weighted 3) Spot: Meters 4.0mm diameter circle (approx. 1.5% of frame) on active focus area	1) 1,005-pixel 3D Color Matrix Metering II with Scene Recognition System 2) Variable Center-weighted 3) Spot: Meters 3.0 mm diameter circle (approx. 2.0% of frame) on active focus area
<b>ISO Sensitivity Range</b>	100 to 1600 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, LO-0.3, LO-0.7 LO-1.0, HI-0.3, HI-0.7, HI-1 and HI-2	200 to 12,800 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, LO-0.3, LO-0.7 LO-1.0, HI-0.3, HI-0.7, HI-1.0, HI-2 and HI-3	200 to 6400 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, LO-0.3, LO-0.7 LO-1.0, HI-0.3, HI-0.7, HI-1 and HI-2	200 to 3200 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, LO-0.3, LO-0.7 LO-1.0, HI-0.3, HI-0.7, HI-1.0
<b>Exposure Modes</b>	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) 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
<b>Exposure Compensation</b>	±5 EV in increments of 1/3, 1/2 or 1 EV	±5 EV in increments of 1/3, 1/2 or 1 EV	±5 EV in increments of 1/3, 1/2 or 1 EV	±5 EV in increments of 1/3, 1/2 or 1 EV
<b>Auto Exposure Lock</b>	Detected exposure value locked by pressing 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	Detected exposure value locked by pressing AE-L/AF-L button
<b>Auto Exposure Bracketing</b>	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 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
<b>Active D-Lighting</b>	4 levels and Auto	4 levels, Auto and 5 frame bracketing	3 levels and Auto	4 levels, Auto and 5 frame bracketing
<b>Total custom Settings</b>	44	46	50	48
<b>My Menu</b>	Yes: with customization	Yes: with customization	Yes: with customization	Yes: with customization
<b>Recent Settings</b>	Yes	No	Yes	No
<b>Top Framing Rate</b>	1) Up to 5 frames-per-second at full resolution 2) Up to 7 frames-per-second in DX Crop	1) Up to 9 frames-per-second at full resolution 2) Up to 11 frames-per-second DX Crop – with some limitations	1) Up to 5 frames-per-second in FX or DX Format 2) Up to 8 frames per second in FX or DX Format with optional MB-D10 Multi-power Battery pack	1) Up to 7 frames-per-second 2) Up to 8 frames-per-second with optional MB-D10 Multi-power Battery Pack
<b>Shutter Speed Range</b>	30 to 1/8,000th sec. in steps of 1/3, 1/2 or 1 EV, bulb	30 to 1/8,000th sec. in steps of 1/3, 1/2 or 1 EV, bulb	30 to 1/8,000th sec. in steps of 1/3, 1/2 or 1 EV, bulb	30 to 1/8,000th sec. in steps of 1/3, 1/2 or 1 EV, bulb
<b>Shutter type</b>	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
<b>Self-Timer</b>	2,5,10 or 20 seconds	2,5,10 or 20 seconds	2,5,10 or 20 seconds	2, 5, 10 or 20 seconds
<b>Remote Control</b>	Via 10-pin remote terminal	Via 10-pin remote terminal	Via 10-pin remote terminal	Via 10-pin remote terminal
<b>Built-in Flash</b>	No	No	Manual pop-up with button release	Manual pop-up with button release
<b>Built-in Flash Guide Number</b>	N/A	N/A	Approx. 56 ft rated at ISO 200 value	Approx. 55 ft rated at 200 ISO value
<b>Flash Modes With Compatible Nikon Speedlights ( For more information on Speedlight feature compatibility, please refer to the camera's brochure)</b>	1) i-TTL Balanced Fill-Flash with Scene Recognition System 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights	1) i-TTL Balanced Fill-Flash with Scene Recognition System 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights	1) i-TTL Balanced Fill-Flash with Scene Recognition System 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights	1) i-TTL Balanced Fill-Flash with Scene Recognition System 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights
<b>Flash Sync Modes</b>	1) Front Curtain Sync (normal) 2) Slow Sync 3) Rear-curtain Sync 4) Red-eye Reduction with Slow Sync	1) Front Curtain Sync (normal) 2) Slow Sync 3) Rear-curtain Sync 4) Red-eye Reduction with Slow Sync	1) Front Curtain sync (normal) 2) Slow Sync 3) Rear-curtain Sync 4) Red-eye Reduction with Slow Sync	1) Front Curtain Sync (normal) 2) Slow sync 3) Rear-curtain Sync 4) Red-eye Reduction with Slow Sync
<b>Top Flash Sync TTL</b>	1/250th sec.	1/250th sec.	1/250th sec. or 1/320th sec.	1/250th sec. or 1/320th sec.
<b>Auto FP High-Speed Flash Sync</b>	1/8,000th sec.	1/8,000th sec.	1/8,000th sec.	1/8,000th sec.

D7000	D90	D5000	D3100	D3000
1) 2,016-pixel 3D Color Matrix Metering II with Scene Recognition System 2) Variable Center-weighted 3) Spot: Meters 3.0 mm diameter circle (approx. 2.0% of frame) on active focus area	1) 420-pixel 3D Color Matrix Metering II with Scene Recognition System 2) Variable Center-weighted 3) Spot: Meters 3.5mm diameter circle (approx. 2.0% of frame) centered on active focus area	1) 420-pixel 3D Color Matrix Metering II with Scene Recognition System 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 with Scene Recognition System 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 with Scene Recognition System 2) Center-weighted 3) Spot: Meters 3.5mm diameter circle (approx. 2.5% of frame) centered on active focus area
100 to 6400 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, Hi-1 (ISO-12,800 equivalent) in 1/3, 1/2 or 1 EV Hi-2 (ISO 25600 equivalent)	200 to 3200 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, LO-0.3, LO-0.7 LO-1.0, HI-0.3, HI-0.7, HI-1.0	200 to 3200 (ISO equivalent) in steps of 1/3, 1/2 or 1 EV, LO-0.3, LO-0.7 LO-1.0, HI-0.3, HI-0.7, HI-1.0	100 to 1600 (ISO equivalent) in steps of 1 EV, plus Hi-1 setting (ISO 6400 equivalent), Hi-2 (25,600 equivalent)	100 to 1600 (ISO equivalent) in steps of 1 EV, plus Hi-1 setting (3200 equivalent)
1) 19 Advanced Scene Modes 2) Auto 3) Auto-Flash Off 4) Programmed Auto with flexible program 5) Shutter-Priority Auto 6) Aperture Priority Auto 7) Manual 8) 2 User Settings U1, U2	1) 5 Advanced Scene Modes 2) Auto 3) Auto-Flash Off 4) Programmed Auto with flexible program 5) Shutter-Priority Auto 6) Aperture Priority Auto 7) Manual	1) 19 Advanced Scene Modes 2) Auto 3) Auto-Flash Off 4) Programmed Auto with flexible program 5) Shutter-Priority Auto 6) Aperture Priority Auto 7) Manual	1) 6 Advanced Scene Modes 2) Auto 3) Auto-Flash Off 4) Programmed Auto with flexible program 5) Shutter-Priority Auto 6) Aperture Priority Auto 7) Manual	1) 6 Advanced Scene Modes 2) Auto 3) Auto-Flash Off 4) Programmed Auto with flexible program 5) Shutter-Priority Auto 6) Aperture Priority Auto 7) Manual
±5 EV in 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
Detected exposure value locked by pressing 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	Detected exposure value locked by pressing AE-L/AF-L button	Detected exposure value locked by pressing AE-L/AF-L button
2 to 3 exposures in increments of 1/3, 1/2, 2/3, 1 or 2 EV steps. And 2 frame Active D-lighting bracketing	2 to 3 exposures in increments of 1/3, 1/2, 2/3, 1 or 2 EV steps. And 2 frame Active D-lighting bracketing	2 to 3 exposures in increments of 1/3, 1/2 EV steps. And 2 exposure 2 frame Active D-lighting bracketing	No	No
4 levels and Auto	4 levels and Auto	4 levels and Auto	1 level	1 level
48	41	23	N/A	N/A
Yes: with customization	Yes: with customization	Yes: with customization	No	No
Yes	Yes	Yes	Yes	Yes
1) Up to 6 frames-per-second	Up to 4.5 frames-per-second	Up to 4 frames-per-second	Up to 3 frames-per-second	Up to 3 frames-per-second
30 to 1/8,000th sec. in steps of 1/3, 1/2 or 1 EV, bulb	30 to 1/4,000th sec. in steps of 1/3 or 1/2 EV, bulb	30 to 1/4,000th sec. in steps of 1/3 or 1/2 EV, bulb	30 to 1/4,000th sec. in steps of 1/3 or 1/2 EV, bulb	30 to 1/4,000th sec. in steps of 1/3 or 1/2 EV, bulb
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
2, 5, 10 or 20 seconds	2, 5, 10 or 20 seconds	2, 5, 10 or 20 seconds	2, 5, 10 or 20 seconds	2, 5, 10 or 20 seconds
Via ML-L3 Wireless Remote Controller (optional) or via MC-DC2 wired remote controller (optional)	Via ML-L3 Wireless Remote Controller (optional) or via MC-DC2 wired remote controller (optional)	Via ML-L3 Wireless Remote Controller (optional) or via MC-DC2 wired remote controller (optional)	Via ML-L3 Wireless Remote Controller (optional)	Via ML-L3 Wireless Remote Controller (optional)
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	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)
Approx. 39 ft rated at 100 ISO value	Approx. 59 ft rated at 200 ISO value	Approx. 59 ft rated at 200 ISO value	Approx. 39 ft rated at 100 ISO value	Approx. 39 ft rated at 100 ISO value
1) i-TTL Balanced Fill-Flash with Scene Recognition System 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights	1) i-TTL Balanced Fill-Flash with Scene Recognition System 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights	1) i-TTL Balanced Fill-Flash 2) Auto Aperture 3) Non-TTL Auto 4) Range Priority w/ compatible Speedlights	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
1) Front Curtain Sync (normal) 2) Slow sync 3) Rear-curtain Sync 4) Red-eye Reduction with Slow Sync	1) Front Curtain Sync (normal) 2) Slow sync 3) Rear-curtain Sync 4) Red-eye Reduction with Slow 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
1/250th sec. or 1/320th sec.	1/200th sec.	1/200th sec.	1/200th sec.	1/200th sec.
1/8,000th sec.	1/4,000th sec.	No	No	No

# Digital SLR Comparison Chart

	D3X	D3S	D700	D300S
<b>Flash (cont.)</b>				
<b>Flash Compensation</b>	N/A	N/A	-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
<b>Flash Bracketing</b>	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 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
<b>Built-in Flash/Commander Mode</b>	No built-in Commander Option	No built-in Commander Option	Two-Group Wireless Commander with SB-900, SB-700, SB-600 and SB-R200 Speedlights	Two-Group Wireless Commander with SB-900, SB-700, SB-600 and SB-R200 Speedlights
<b>In-Camera Editing</b>				
<b>Retouch Menu</b>	1) D-Lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color Balance 7) Image Overlay 8) Side by side comparison	1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color balance 7) Image Overlay 8) NEF (RAW) processing 9) Resize 10) Edit Movie	1) D-Lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color Balance 7) Image Overlay 8) Side by side comparison	1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color balance 7) Image Overlay 8) NEF (RAW) processing 9) Resize 10) Edit Movie
<b>High ISO Noise Reduction</b>	1) Low 2) Normal 3) High 4) Off	1) Low 2) Normal 3) High 4) Off	1) Low 2) Normal 3) High 4) Off	1) Low 2) Normal 3) High 4) Off
<b>Long Exposure Noise Reduction</b>	Yes	Yes	Yes	Yes
<b>Power Source (included)</b>	One EN-EL4a Rechargeable Li-ion Battery	One EN-EL4a Rechargeable Li-ion Battery	One EN-EL3e Rechargeable Li-ion Battery	One EN-EL3e Rechargeable Li-ion Battery
<b>Images per Battery Charge</b>	Up to 4,400 (CIPA Standard)	Up to 4,200 (CIPA Standard)	Up to 1,000 (CIPA Standard)	Up to 1,000 (CIPA Standard)
<b>Optional AC Power Supply</b>	EH-6 AC Adapter	EH-6 AC Adapter	EH-5a AC Adapter	EH-5a AC Adapter
<b>Accessory</b>				
<b>Supplied Accessories</b>	EN-EL4a Rechargeable Li-ion Battery, MH-22 Quick Charger, UC-E4 USB Cable, EG-D2 Audio Video Cable, AN-D3X Camera Strap, BF-1A Body Cap, BS-2 Accessory Shoe Cap, DK-17 Eyepiece, Battery Chamber Cover, USB Cable Clip, Software Suite CD-ROM	EN-EL4a Rechargeable Li-ion Battery, MH-22 Quick Charger, UC-E4 USB Cable, EG-D2 Audio Video Cable, AN-DC5 Camera Strap, BF-1B Body Cap, BS-2 Accessory Shoe Cap, DK-17 Eyepiece, Battery Chamber Cover, USB Cable Clip, Software Suite CD-ROM	EN-EL3e Rechargeable Li-ion Battery, MH-18a Quick Charger, UC-E4 USB Cable, EG-D2 Audio Video Cable, AN-D700 Strap, BM-9 LCD monitor cover, BF-1A Body cap, BS-1 accessory shoe cover, Software Suite CD-ROM.	EN-EL3e Rechargeable Li-ion Battery, MH-18a Quick Charger, UC-E4 USB Cable, EG-D2 Audio Video Cable, AN-DC4 Strap, BM-8 LCD monitor cover, BF-1A Body cap, DK-5 Eyepiece Cap, BS-1 Accessory Shoe Cover, DK-23 Rubber Eyecup, Software Suite CD-ROM.
<b>Battery Grip(s) Optional</b>	No	No	MB-D10 Multi-power Battery Pack accepts one rechargeable Nikon EN-EL3e Li-ion battery Eight AA alkaline (LR6), Ni-MH (HR6), lithium (FR6) batteries, or nickel-manganese (ZR6) AA batteries, or one EN-EL4a battery with BL-3	MB-D10 Multi-power Battery Pack accepts one rechargeable Nikon EN-EL3e Li-ion battery Eight AA alkaline (LR6), Ni-MH (HR6), lithium (FR6) batteries, or nickel-manganese (ZR6) AA batteries, or one EN-EL4a battery with BL-3
<b>TV Output</b>	NTSC, PAL, HDMI	NTSC, PAL, HDMI	NTSC, PAL, HDMI	NTSC, PAL, HDMI
<b>WiFi Functionality</b>	FTP file transfer available and PTP/IP with optional WT-4a (IEEE 802.11a/b/g)	FTP file transfer available and PTP/IP with optional WT-4a (IEEE 802.11a/b/g)	FTP file transfer available and PTP/IP with optional WT-4a (IEEE 802.11a/b/g)	FTP file transfer available and PTP/IP with optional WT-4a (IEEE 802.11a/b/g), Eye-Fi compatible
<b>Interface / Connectivity</b>	USB 2.0 (Hi-Speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type A connector, 2 CF card slots: supports UDMA, supports firmware updates via CF cards	USB 2.0 (Hi-Speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type A connector, 2 CF card slots: supports UDMA, supports firmware updates via CF cards	USB 2.0 (Hi-Speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type C mini connector, CF card slot: supports UDMA, supports firmware updates via CF cards	USB 2.0 (Hi-Speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type A connector, CF card slot: supports UDMA, supports firmware updates via CF cards
<b>GPS</b>	With optional GP-1 GPS Unit and supplied Connecting Cord or via optional MC-35 GPS cable .1	With optional GP-1 GPS Unit and supplied Connecting Cord or via optional MC-35 GPS cable.	With optional GP-1 GPS Unit and supplied Connecting Cord or via optional MC-35 GPS cable.1	With optional GP-1 GPS Unit and supplied Connecting Cord or via optional MC-35 GPS cable.1
<b>Physical Specifications</b>				
<b>Dimensions (W x H x D)</b>	Approx. 6.3 x 6.2 x 3.4 in.	Approx. 6.3 x 6.2 x 3.4 in.	Approx. 5.8 x 4.8 x 3.0 in.	Approx. 5.8 x 4.5 x 2.9 in.
<b>Weight</b>	Approx. 2.1lbs. 11oz. without battery or memory card	Approx. 2.1lbs. 12oz. without battery or memory card	Approx. 2lbs. 3oz. without battery, memory card or monitor cover	Approx. 1 lbs. 14oz. without battery, memory card or monitor cover

D7000	D90	D5000	D3100	D3000
-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
2 to 3 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	No
Two-Group Wireless Commander with SB-900, SB-700, SB-600 and SB-R200 Speedlights	Two-Group Wireless Commander with SB-900, SB-700, SB-600 and SB-R200 Speedlights	No built-in Commander Option	No built-in Commander Option	No built-in Commander Option
1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color balance 7) Small Picture 8) Image Overlay 9) NEF (RAW) processing 10) Quick retouch 11) Straighten 12) Distortion control 13) Fisheye 14) Color outline 15) Color Sketch 16) Perspective control 17) Miniature Effect 18) Side-by-side	1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color balance 7) Small Picture 8) Image Overlay 9) NEF (RAW) processing 10) Quick retouch 11) Straighten 12) Distortion control 13) Fisheye	1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color balance 7) Small Picture 8) Image Overlay 9) NEF (RAW) processing 10) Quick retouch 11) Straighten 12) Distortion control 13) Fisheye 14) Color outline 15) Perspective control 16) Stop-motion movie	1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color Balance 7) Small Picture 8) Image Overlay 9) NEF (RAW) Processing 10) Quick Re-Touch 11) Straighten 12) Distortion Control 13) Fisheye 14) Color outline 15) Perspective Control 16) Miniature Effect 17) Edit movie 18) Before and After	1) D-lighting 2) Red-eye Correction 3) Trim 4) Monochrome 5) Filter Effects 6) Color Balance 7) Small Picture 8) Image Overlay 9) NEF (RAW) Processing 10) Quick Re-Touch 11) Color outline 12) Miniature Effect 13) Stop motion movie
1) Low 2) Normal 3) High 4) Off	1) Low 2) Normal 3) High 4) Off	1) Low 2) Normal 3) High 4) Off	Yes	Yes
Yes	Yes	Yes	Yes	Yes
One EN-EL15 Rechargeable Li-ion Battery	One EN-EL3e Rechargeable Li-ion Battery	One EN-EL9a Rechargeable Li-ion Battery	One EN-EL14 Rechargeable Li-ion Battery	One EN-EL9a Rechargeable Li-ion Battery
Up to 850 (CIPA Standard)	Up to 850 (CIPA Standard)	Up to 510 (CIPA Standard)	Up to 550 (CIPA Standard)	Up to 550 (CIPA Standard)
EH-5a AC Adapter requires EP-5B Adapter	EH-5a AC Adapter	EH-5a AC Adapter requires EP-5 Adapter	EH-5a AC Adapter requires EP-5 Adapter	EH-5a AC Adapter requires EP-5 Adapter
Supplied with EN-EL15 Rechargeable Li-ion Battery, MH-25 Quick Charger, EG-D2 Audio/Video Cable, UC-E4 USB Cable, BM-11 Monitor Cover, DK-21 Rubber Eyecup, AN-DC1 Camera Strap, DK-5 Eyepiece Cap, BF-1B Body Cap, BS-1 Accessory Shoe Cover, Nikon View NX2 Software CD-ROM	EN-EL3e Rechargeable Li-ion Battery, MH-18a Quick Charger, Eyepiece cap DK-5, Rubber eyecup DK-21, USB Cable UC-E4, EG-D2 Audio Video Cable, Camera Strap AN-DC1, LCD Monitor Cover BM-10, BF-1A Body cap, Accessory Shoe Cover BS-1, Software Suite CD-ROM	EN-EL9a Rechargeable Li-ion Battery, MH-23 Quick Charger, DK-5 Eyepiece Cap, DK-20 Rubber Eyecup, AN-DC3 Camera Strap, DK-5 Eyepiece Cap, BF-1B Body Cap, BS-1 Accessory Shoe Cover, Nikon Software Suite CD-ROM	Supplied with EN-EL14 Rechargeable Li-ion Battery, MH-24 Quick Charger, DK-20 Rubber Eyecup, AN-DC3 Camera Strap, DK-5 Eyepiece Cap, BF-1B Body Cap, BS-1 Accessory Shoe Cover, Nikon Software Suite CD-ROM	EN-EL9a Rechargeable Li-ion Battery, MH-23 Quick Charger, UC-E4 USB Cable, DK-20 Rubber Eyecup, AN-DC3 Camera Strap, BF-1A Body Cap, DK-5 Eyepiece Cap, BS-1 Accessory Shoe Cover, Software Suite CD-ROM.
MB-D11 multi-power battery pack with one rechargeable Nikon EN-EL15 Li-ion battery or six AA alkaline, NiMH, or lithium batteries	MB-D80 Multi-power 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	No
NTSC, PAL, HDMI	NTSC, PAL, HDMI	NTSC, PAL, HDMI	NTSC, PAL, HDMI	NTSC, PAL
Eye-Fi compatible FTP file transfer available and PTP/IP with optional WT-4a (IEEE 802.11a/b/g), Eye-Fi compatible	Eye-Fi compatible	Eye-Fi compatible	Eye-Fi compatible	Eye-Fi compatible
USB 2.0 (Hi-Speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type C mini connector, SD card slot: supports firmware updates via SD cards	USB 2.0 (Hi-Speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type C mini connector, SD card slot: supports firmware updates via SD cards	Combination USB 2.0 (Hi-Speed) & A/H connector; HDMI Output: supports HDMI version 1.3a, type C mini connector, SD card slot supports firmware updates via SD cards.	USB 2.0 (Hi-speed) (Mini-B connector) HDMI Output: supports HDMI version 1.3a, type C mini 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.
With optional GP-1 GPS-Unit and supplied Connecting Cord	With optional GP-1 GPS-Unit and supplied Connecting Cord	With optional GP-1 GPS-Unit and supplied Connecting Cord	No	No
Approx. 5.2 x 4.1 x 3 in	Approx. 5.2 x 4.1 x 3.0 in.	Approx: 5.0 x 4.1 x 3.1 in.	Approx. 4.9 x 3.8 x 2.9	Approx. 5.0 x 3.8 x 2.6 in.
Approx. 1 lb. 8.3oz without battery, memory card(s) or body cap	Approx. 1 lb. 6oz. without battery, memory card or monitor cover	Approx. 1 lbs. 3.8oz. without battery, memory card or monitor cover	Approx. 1 lb. 1.6oz without battery, memory card or monitor cover	Approx. 1 lb. 1.1oz without battery, memory card or monitor cover