Nikon

At the heart of the image™

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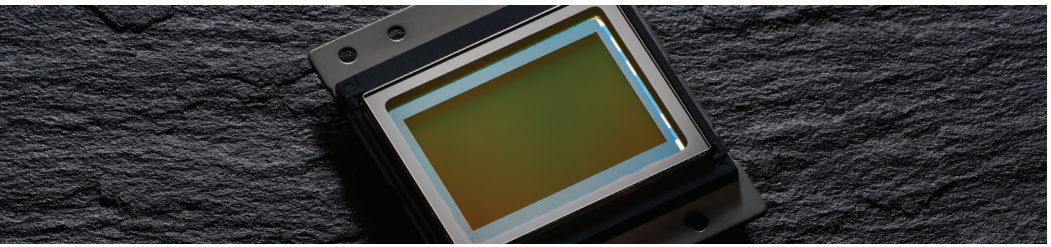
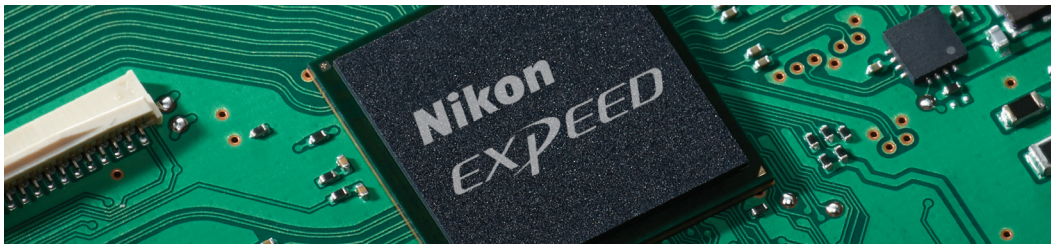
D500™ | D7200™ | D300s™

COMPARISON SHEET

DX

Sensor & Resolution	D500™	D7200™	D300S™
Sensor Size	23.5mm × 15.7mm (DX)	23.5mm x 15.6mm (DX)	23.6mm x 15.8mm (DX)
Resolution	20.9MP DX-format CMOS sensor without OLPF	24.2MP DX-format CMOS sensor without OLPF	12.3MP DX-format CMOS sensor
Image Quality			
Image Processing Engine	EXPEED 5	EXPEED 4	EXPEED
ISO Sensitivity Range	ISO 100 – 51,200 (expandable to ISO 50 - 1,640,000 equivalent)	ISO 100 – 25,600 (expandable to Hi-2BW ISO 102,400 equivalent)	ISO 200 – 3,200 (expandable to ISO 100 - 6,400 equivalent)
File Format	12- or 14-bit NEF (Large RAW), 12-bit lossless compressed for Medium/Small RAW, TIFF, JPEG, NEF (RAW) + JPEG (L/M/S)	12- or 14-bit NEF (RAW) File support JPEG- fine (approx. 1:4), normal (approx. 1: 8), basic (approx. 1:16), TIFF (RGB)	12-bit and 14-bit NEF (RAW) File support JPEG, TIFF (RGB)





Advanced Scene Recognition System	D500	D7200	D300S
3D Color Matrix Metering	180k-pixel RGB Sensor	2,016-pixel RGB Sensor	1,005-pixel RGB Sensor
Advanced Scene Recognition System	Yes	No	No
White Balance: Keep White	Yes More natural color reproduction is achieved by combining EXPEED 5 and auto white balance	No	No
High Speed Continuous Shooting			
Frame Advance Rate	CH: 10 fps CL: 1–9 fps QC: 3 fps	CH: 6 fps in DX mode, 7 fps in 1.3x mode CL: 1–9 fps	CH: 8 fps CL: 1–7 fps
Buffer capacity	NEF (RAW), Lossless compressed, 14-bit: 200 shots NEF (RAW), Uncompressed, 14-bit: 79 shots	NEF (RAW), Lossless compressed, 14-bit: 18 shots NEF (RAW), Uncompressed, 14-bit: N/A	NEF (RAW), Lossless compressed, 14-bit: 30 shots NEF (RAW), Uncompressed, 14-bit: 19 shots

Autofocus Detection and Acquisition	D500™	D7200™	D300S™
AF Sensor	Multi-CAM 20K autofocus sensor module with TTL phase detection, fine-tuning, and 153 focus points (including 99 cross-type sensors and 15 sensors that support f/8), of which 55 (35 cross type sensors and 9 f/8 sensors) are available for selection	Advanced Multi-CAM 3500 II Phase Detect AF 51 AF Points 15 Cross Type AF Sensors	Advanced Multi-CAM 3500 II Phase Detect AF 51 AF Points 15 Cross Type AF Sensors
Dedicated AF Processor	Yes	Yes	Yes
Minimum Brightness	-4 to +20 EV (ISO 100, 20 °C/68 °F)	-3 to +19 EV (ISO 100, 20°C/68°F)	-1 to +19 EV (ISO 100, 20°C/68°F)
AF Modes	Single-point Dynamic Area 25 AF points Dynamic Area 72 AF points Dynamic Area 153 AF points Group Area AF 3D-Tracking Auto Area AF	Single-point Dynamic Area 9 AF points Dynamic Area 21 AF points Dynamic Area 51 AF points 3D-Tracking Auto Area AF	Single-point Dynamic Area 9 AF points Dynamic Area 21 AF points Dynamic Area 51 AF points 3D-Tracking Auto Area AF
Focus Tracking with Lock On	Yes	Yes	Yes
3D Tracking	3D Tracking: Face Detection (ON/OFF) 3D Tracking: Watch Area (Wide/Normal)	3D Tracking: Face Detection (ON/OFF) 3D Tracking: Watch Area (Wide/Normal)	Yes
Contrast Detect AF	AF-S AF-F	AF-S AF-F	No

Viewing	D500™	D7200™	D300S™
Viewfinder Frame Coverage	Frame coverage: Approx. 100%, magnification: approx. 1.0×	Frame coverage: Approx. 100%, magnification: approx. 0.94×	Frame coverage: Approx. 100%, magnification: approx. 0.94×
LCD Monitor	Tilting 3.2-in Approx. 2,359k-dot Touch screen LCD (RGBW)	3.2-in, Approx. 1,229k-Dot (RGBW)	3.0-in, Approx. 921k-Dot (RGB)
Touch Screen Function	Yes	No	No

Speedlight Control	D500™	D7200™	D300S™
Auto Flash ISO Sensitivity Control	Yes	No	No
Advanced Wireless Lighting (AWL)	Yes: Via Compatible Speedlight or Speedlight Commander SU-800 Up to 3 Groups: A/B/C Up to 4 Channels	Yes: Via Compatible Speedlight, Built-in Commander or Speedlight Commander SU-800	Yes: Via Compatible Speedlight or Speedlight Commander SU-800 Up to 2 Groups: A/B Up to 4 Channels
Radio Control Advanced Wireless Lighting (AWL)	Yes: When using WR-R10/WR-A10 Wireless Remote Controller and SB-5000 Speedlight Wireless control SB-5000 via radio control up to 98 feet Up to 18 Radio Control Speedlights Up to 6 Groups: A/B/C/D/E/F Up to 3 Channels: 5/10/15 Can be mixed using optical system (SB-900 series, SB-800 series, SB-700, SB-600, SB-500) and Radio Control using SB-5000 Unified Flash Control using SB-5000 and Camera Control Pro 2 software (version 2.23.0 or later) Remote setting possible using D500 Flash Control menu setting	No	No

Movie Features	D500	D7200	D300S
Frame Size and Frame rate	4K UHD: 3840 × 2160 30/25/24p Full HD: 1920 x 1080 60/50/30/25/24p	Full HD: 1920 x 1080 30/25/24p 1920 x 1080 60/50p (1.3X Crop)	VGA 640 x 424 24p
Recorded in-camera to memory card	4K UHD: Yes 1080p: Yes	1080p: Yes	VGA: Yes
Multi-area mode Full HD Image Area D-Movie Options	DX 1.3x 4K UHD: 1.5x	DX 1.3x	DX
Simultaneous recording to memory card and external recorder	Yes	No	No
View simultaneous live view output and record uncompressed video via HDMI	Yes	Yes	No
Selectable audio frequency range	Yes Wide/Vocal	Yes Wide/Vocal	No
ISO range	ISO 100 – 51,200 (expandable to 1,640,000 equivalent)	100-25,600	200-3,200
Save frame as a still frame	4K UHD: 3840 x 2160 (approx. 8MP) JPEG Fine	Full HD: 1920 x 1080 JPEG Fine	No
Flat Picture Control	Yes	Yes	No
Dedicated Movie Shooting Menu	Yes	Yes	No
Smooth Exposure	Yes	No	No
Highlight Display: Zebra Stripes	Yes	Yes	No
Power Aperture Control	Yes	No	No
Electronic VR	Yes	No	No

Wired and Wireless Communication System	D500™	D7200™	D300S™
Wi-Fi	Built-In	Built-In	No
Bluetooth	Built-In	No	No
NFC	Built-In	Built-In	No
Wired and Wireless LAN	WT-7A	Wired LAN via UT-1 Wireless LAN via UT-1 + WT-5A	WT-4a
Camera Handling and Operation			
Dual memory card slots	XQD + SD	SD + SD	CF + SD
Fn Buttons	1 Front facing button 1 Rear facing button	1 Front facing button	1 Front facing button
In-Camera Time-Lapse Movie Function	Yes: Full HD & 4K UHD	Yes: Full HD	No
Interval timer	Yes	Yes	Yes
Multiple Exposure	Select from 2 to 10 NEF (RAW)	Select from 2 to 3 NEF (RAW)	Select from 2 to 10 NEF (RAW)
Battery	EN-EL15	EN-EL15	EN-EL3e

D500™

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