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Nikon th
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I AM THE DIFFERENCE MAKER

D850™ | D810™
COMPARISON GUIDE

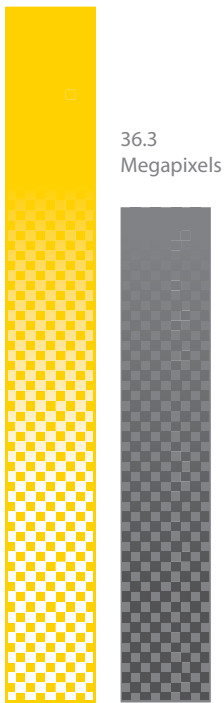




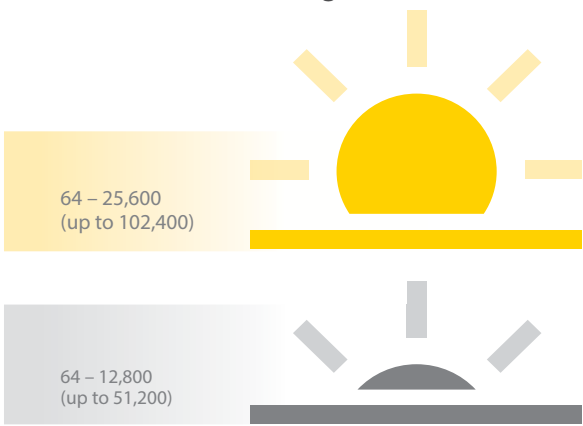
D850 vs D810 Feature Set

D850 ● D810 ●

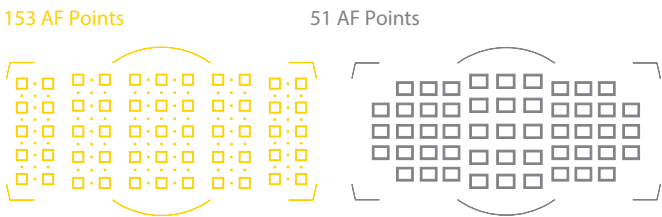
Resolution
45.7 Megapixels



ISO Range



Total AF points



Cross type AF points



Continuous shooting speed



Workflow processing speed*



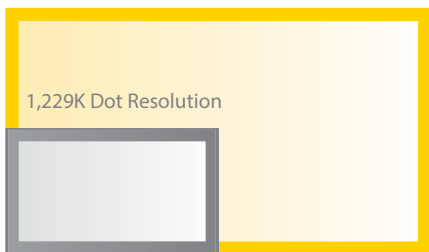


D850 vs D810 Feature Set

D850 ● D810 ●

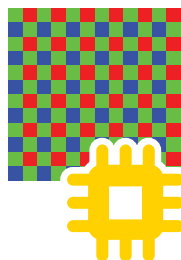
LCD screen resolution

2,360K Dot Resolution

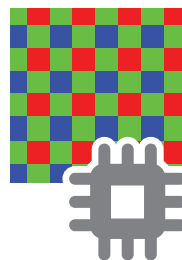


Metering sensor

181,000 Pixel
RGB Meter



91,000 Pixel
RGB Meter

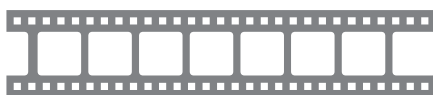


Full HD frame rates

Up To 120p HD Frame Rate



Up To 60p HD Frame Rate



	D850	D810
Back-Side Illuminated (BSI) Sensor	●	×
Tilting LCD Screen	●	×
LCD Touch Function	●	×
4K UHD Full Frame	●	×
8K using Interval Timer	●	×
Slow Motion HD Video	●	×
Electronic VR for Video (1080p)	●	×
Built-in Bluetooth & Wi-Fi	●	×
Focus Peaking for Still / HD Video	●	×
XQD Card Compatibility	●	×
RAW Batch Processing	●	×
Wireless Radio Flash Control	●	×
Silent Photography Mode in Live View	●	×
Focus Shift Photography Mode	●	×
Button Illumination	●	×

	D850™	D810™
Sensor and Resolution		
Sensor	35.9 x 24mm	35.9 x 24mm
Resolution	45.7 MP Back-Side Illuminated (BSI) FX-format CMOS sensor without an Optical Low Pass Filter (OLPF)	36.3 MP FX-format CMOS sensor without an Optical Low Pass Filter (OLPF)
Image Quality		
Image Processing Engine	EXPEED 5 Supports 4K UHD Full-frame Video low noise at high ISO, high speed shooting, long battery life faster processing than EXPEED 4	EXPEED 4 Supports 1080p
ISO Sensitivity Range	ISO 64 to 25,600 Lo 1 (ISO 32), Hi 2 (102,400)	ISO 64 to 12,800 Lo 1 (ISO 32) to Hi 2 (ISO 51,200)
File Format	NEF (RAW): 12 or 14 bit (lossless compressed, compressed, or uncompressed): size L, M, S available (12-bit uncompressed only with size M and S), TIFF (RGB), JPEG (FINE, NORMAL, BASIC); optimal quality compression available Single photograph recorded in both NEF (RAW) and JPEG formats	NEF (RAW): 12 or 14 bit (lossless compressed, compressed, or uncompressed): size L, S available (12-bit uncompressed only with size S), TIFF (RGB), JPEG (FINE, NORMAL, BASIC); optimal quality compression available Single photograph recorded in both NEF (RAW) and JPEG formats
RAW SIZE S/M/L	Yes	Small and Large only
RAW Batch Processing	Yes	No
Picture Control	Auto, Standard, Neutral, Vivid, Monochrome, Portrait, Landscape and Flat	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape and Flat
Metering System		
RGB sensor type	181,000-pixel	91,000-pixel
Advanced Scene Recognition System	Yes	Yes
Highlight Weighted Metering (Requires type G, E, or D lenses)	Yes	Yes
White Balance		
Spot White Balance when using Live View	Yes	Yes
Preset White Balance	1-6 possible	1-6 possible

	D850™	D810™
Auto Focus		
AF Points	153 AF Points	51 AF Points
Cross Type AF Sensors	99 Cross Type sensors	15 Cross Type sensors
Sensors Reading to f/8	15 sensors	1 sensor
AF EV Range	-4 EV (center point)	-2 EV (center point)
Dedicated Autofocus Engine	Yes	No
Flash Control		
i-TTL	Yes Using 180K-Pixel RGB sensor	Yes Using 91K-Pixel RGB sensor
Advanced Wireless Lighting	Radio Control using SB-5000 Requires WR-R10 Wireless Remote Controller and WR-A10 WR Adapter (both optional) Optical Line-of-sight also possible	Optical Line-of-Sight using SB-5000 or SB-910
Release Modes		
Continuous Shooting	7 fps in all formats (body + Rechargeable EN-EL15a Lithium Ion Battery) 9 fps in in All formats when using MB-D18 Multi Power Grip + Rechargeable EN-EL 18a/b Lithium Ion Battery	5 fps in FX/5:4 Crop Mode 6 fps in DX/1.2X Crop Mode 7 fps in DX Crop Mode with MB-D12 with AA batteries
Continuous Shooting in Silent Photography Mode Live View Only	Silent photography at 45.7 MP (mode 1, CH: 6 fps) Silent photography at 8.6 MP in DX Crop Mode (mode 2, CL: 15 fps, CH: 30 fps)	No
Image Stability Enhancements		
Time-Lapse Silent interval timer photography	Up to 9,999 frames at 45.7 MP	No
Electronic Front-Curtain Shutter	Yes	Yes

Video	D850™	D810™
Frame Size and Frame Rate	4K UHD – full frame: 3840×2160: 30p/25p/24p 1920×1080: 60p/50p/30p/25p/24p 1280×720: 60p/50p	1080p Full HD: 1920×1080: 60p/50p/30p/25p/24p
Slow Motion Video DX Mode	1920×1080: 30p x 4 1920×1080: 25p x 4 1920×1080: 24p x 5	No
File Formats	File format: MOV/MP4	MOV
Active D-Lighting for Video	Yes at 1080p	No
ISO Range	ISO 64 to 25,600 Up to Hi 2	ISO 64 to 12,800 Up to Hi 2
Focus Peaking	Yes, at Full HD (and for stills) in Live View	No
Multi-Selector Exposure Compensation	Yes	No
Touch AF in Live View	Yes	No
Built-in Stereo Microphone	Yes	Yes
Simultaneous Recording: Memory Card plus External Recorder	Yes	Yes
Selectable Audio Frequency Range	Yes	Yes
Audio Attenuator	Yes	No
Interval Timer Exposure Smoothing	Yes	Yes
In-Camera Time-Lapse Exposure Smoothing	Yes	Yes
Power Aperture Control	Yes	Yes
Auto ISO in Manual Mode for Smooth Exposure Transitions	Yes	Yes
One Button Zoom Image Preview	Yes	Yes

LCD Monitor	D850™	D810™
Size and Resolution	3.2 Inch Approx. 2,359K-Dot	3.2 inch Approx. 1229k-Dot
Touch Functionality	Yes Menu, Playback, Shooting, Info	No
Camera Handling		
Optical Viewfinder	0.75× Wide Field View	0.70x
Button Illumination	Yes	No
Battery	EN-EL15a Rechargeable Li-Ion Battery Approx 1840 Shots (CIPA)	EN-EL15 Rechargeable Li-Ion Battery Approx. 1200 shots (CIPA)



D850™



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