



At the heart of the image™

Nikon <sup>th</sup>  
100  
anniversary



**I AM** THE DIFFERENCE MAKER

**D850™ | D810™**  
**COMPARISON GUIDE**



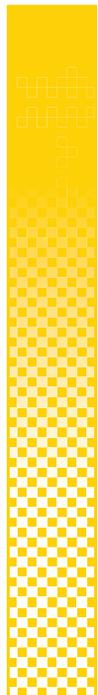


# D850 vs D810 Feature Set

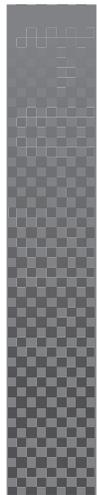
D850 ● D810 ●

## Resolution

45.7 Megapixels



36.3 Megapixels



## ISO Range

64 – 25,600  
(up to 102,400)

64 – 12,800  
(up to 51,200)

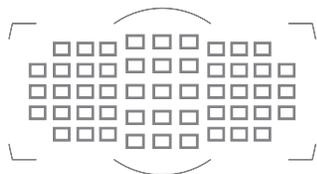


## Total AF points

153 AF Points



51 AF Points



## Cross type AF points

99 Cross Type AF Points



15 Cross Type AF Points



## Continuous shooting speed

7 / 9 (w/ grip)

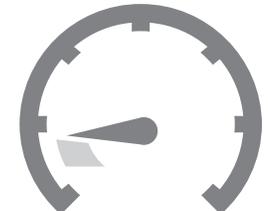


5 / 7  
(w/ grip in DX Mode)



## Workflow processing speed\*

17X faster w/ in-camera Batch RAW Processing





© Little Shao



© Jerry Ghionis

## D850 vs D810 Feature Set

D850 ● D810 ●

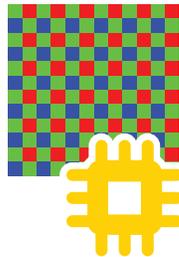
### LCD screen resolution

2,360K Dot Resolution

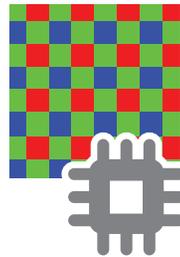


### Metering sensor

181,000 Pixel  
RGB Meter

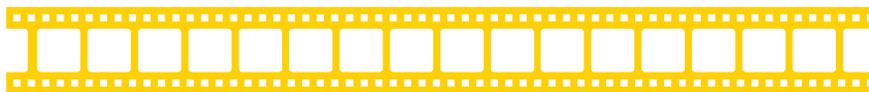


91,000 Pixel  
RGB Meter

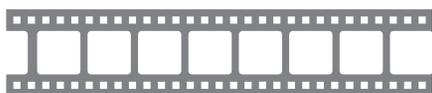


### Full HD frame rates

Up To 120p HD Frame Rate



Up To 60p HD Frame Rate



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**

	D850™	D810™
<b>Sensor and Resolution</b>		
<b>Sensor</b>	35.9 x 24mm	35.9 x 24mm
<b>Resolution</b>	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)
<b>Image Quality</b>		
<b>Image Processing Engine</b>	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
<b>ISO Sensitivity Range</b>	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)
<b>File Format</b>	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
<b>RAW SIZE S/M/L</b>	Yes	Small and Large only
<b>RAW Batch Processing</b>	Yes	No
<b>Picture Control</b>	Auto, Standard, Neutral, Vivid, Monochrome, Portrait, Landscape and Flat	Standard, Neutral, Vivid, Monochrome, Portrait, Landscape and Flat
<b>Metering System</b>		
<b>RGB sensor type</b>	181,000-pixel	91,000-pixel
<b>Advanced Scene Recognition System</b>	Yes	Yes
<b>Highlight Weighted Metering (Requires type G, E, or D lenses)</b>	Yes	Yes
<b>White Balance</b>		
<b>Spot White Balance when using Live View</b>	Yes	Yes
<b>Preset White Balance</b>	1-6 possible	1-6 possible

	D850™	D810™
<b>Auto Focus</b>		
<b>AF Points</b>	153 AF Points	51 AF Points
<b>Cross Type AF Sensors</b>	99 Cross Type sensors	15 Cross Type sensors
<b>Sensors Reading to f/8</b>	15 sensors	1 sensor
<b>AF EV Range</b>	-4 EV (center point)	-2 EV (center point)
<b>Dedicated Autofocus Engine</b>	Yes	No
<b>Flash Control</b>		
<b>i-TTL</b>	Yes Using 180K-Pixel RGB sensor	Yes Using 91K-Pixel RGB sensor
<b>Advanced Wireless Lighting</b>	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
<b>Release Modes</b>		
<b>Continuous Shooting</b>	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
<b>Continuous Shooting in Silent Photography Mode Live View Only</b>	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
<b>Image Stability Enhancements</b>		
<b>Time-Lapse Silent interval timer photography</b>	Up to 9,999 frames at 45.7 MP	No
<b>Electronic Front-Curtain Shutter</b>	Yes	Yes

**D850™****D810™****Video****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 Hi2

**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

**D850™****D810™****LCD Monitor****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)



**Button Illumination  
& Tilting LCD Screen**

# D850™



**I AM** THE DIFFERENCE MAKER

Nikon Inc.  
1300 Walt Whitman Road Melville, NY 11747-3064  
[www.nikonusa.com](http://www.nikonusa.com)

