Side by side 3 cameras compared	Canon EOS 5D Mark IV	Nikon D850	Sony Alpha 7R III
Basic Information			
Review / Preview			
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	87% Gold Award Sep 14, 2016	89% Gold Award Oct 16, 2017	
Announced	Aug 25, 2016	Jul 25, 2017	Oct 25, 2017
Price	-0 -, -	<u> </u>	
MSRP	\$3499 (body only), \$4399 (w/24-70 F4L lens), \$4599 (w/24-105 F4L IS USM lens)	\$3299	\$3199 (body only)
Body type		<u>-</u>	
Body type	Mid-size SLR	Mid-size SLR	SLR-style mirrorless
Body material	Magnesium alloy	Magnesium alloy	Magnesium alloy
Sensor			
Max resolution	6720 x 4480	8256 x 5504	7952 x 5304
lmage ratio w:h	1:1, 4:3, 3:2, 16:9	1:1, 5:4, 3:2, 16:9	3:2, 16:9
Effective pixels	30 megapixels	46 megapixels	42 megapixels
Sensor photo detectors	32 megapixels	47 megapixels	44 megapixels
Sensor size	Full frame (36 x 24 mm)	Full frame (35.9 x 23.9 mm)	Full frame (35.9 x 24 mm)
Sensor size notes	sRaw suppoorted in all aspect ratio. Size between 5 and 7.5 megapixel.		BSI-CMOS full-frame sensor. No optical low- pass filter
Sensor type	CMOS	BSI-CMOS	BSI-CMOS
Processor	Digic 6+	Expeed 5	Bionz X
Color space	sRGB, AdobeRGB	sRGB, Adobe RGB	sRGB, AdobeRGB
Color filter array	Primary color filter	Primary color filter	Primary color filter
lmage			
ISO	Auto, 100-32000 (expands to 50- 102400)	Auto, 64-25600 (expands to 32- 102400)	Auto, 100-32000 (expands to 50- 102400)
Boosted ISO (minimum)	50	32	50
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Boosted ISO (maximum)	102400	102400	102400
White balance presets	6	14	10
Custom white balance	Yes	Yes (6 slots)	Yes
lmage stabilization	No	No	Sensor-shift
lmage stabilization notes			5-axis
CIPA image stabilization			5.5 stop(s)
rating Uncompressed format	RAW	RAW + TIFF	RAW
JPEG quality levels	Fine, normal	Fine, normal, basic	Extra fine, fine, standard
File format	JPEG (Exif v.2.3)Raw (Canon CRW, 14-bit)	 JPEG (Exif v2.3) TIFF (RGB) Raw (Nikon NEF, 12 or 14 bit, lossless compressed, compressed or uncompressed) 	 JPEG (DCF 2.0, EXIF v2.31) RAW (Sony 14-bit ARW v2.3)
Optics & Focus			
Autofocus	 Contrast Detect (sensor) Phase Detect Multi-area Center Selective single-point Tracking Single Continuous Touch Face Detection Live View 	 Contrast Detect (sensor) Phase Detect Multi-area Center Selective single-point Tracking Single Continuous Touch Face Detection Live View 	 Contrast Detect (sensor) Phase Detect Multi-area Center Selective single-point Tracking Single Continuous Touch Face Detection Live View
Autofocus assist lamp	Yes	No	Yes
Digital zoom			Yes
Manual focus	Yes	Yes	Yes
Number of focus points	61	151	425
Lens mount	Canon EF	Nikon F	Sony E
Focal length multiplier	1×	1×	1×
Screen / viewfinder			
Articulated LCD	Fixed	Tilting	Tilting
Screen size	3.2"	3.2"	3″
Screen dots	1,620,000	2,359,000	1,440,000
Touch screen	Yes	Yes	Yes
Screen type	TFT LCD	TFT LCD	TFT LCD
Live view	Yes	Yes	Yes

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Viewfinder type Viewfinder coverage	Optical (poptaprism)	Optical (poptaprism)	Floctronic 100%
Viewfinder magnification	0.71×	0.75×	0.78×
Viewfinder resolution			3,686,400
Photography features			
Minimum shutter speed	30 sec	30 sec	30 sec
Maximum shutter speed	1/8000 sec	1/8000 sec	1/8000 sec
Aperture priority	Yes	Yes	Yes
Shutter priority	Yes	Yes	Yes
Manual exposure mode	Yes	Yes	Yes
Subject / scene modes	No	No	Yes
Exposure modes	 Program Shutter priority Aperture priority Manual Bulb Scene Intelligent Auto 	ProgramAperture priorityShutter priorityManual	AutoProgramAperture priorityShutter priorityManual
Built-in flash	No	No	No
External flash	Yes (via hot shoe or flash sync port)	Yes (via hot shoe or flash sync port)	Yes (via hot shoe or flash sync port)
Flash modes		Front-curtain sync (normal), Rear-curtain sync, Red-eye reduction, Red-eye reduction with slow sync, Slow sync	Off, Auto, Fill-flash, Slow Sync, Rear Sync, Red-eye reduction, Wireless, Hi-speed sync
Flash X sync speed	1/200 sec	1/250 sec	1/250 sec
Drive modes	 Single shooting Continuous hi/lo Silent single shooting Silent continuous 2/10 sec self-timer / remote control 	 Single-frame Self-timer Quiet shutter Quiet continuous Mirror-up Continuous low Continuous high 	 Single Continuous Self-timer (single/continuous) Bracketing (single/continuous) WB bracketing DRO bracketing
Continuous drive	7.0 fps	9.0 fps	10.0 fps
Self-timer	Yes (2 or 10 secs, custom)	Yes (2, 5, 10, 20 secs)	Yes (2 or 10 sec; continuous (3 or 5 exposures))
Metering modes	MultiCenter-weightedSpotPartial	MultiCenter-weightedHighlight-weightedSpot	MultiCenter-weightedSpot
Exposure compensation	±5 (at 1/3 EV, 1/2 EV steps)	±5 (at 1/3 EV, 1/2 EV, 1 EV steps)	±5 (at 1/3 EV, 1/2 EV steps)
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AE Bracketing	±3 (2, 3, 5, 7 frames at 1/3 EV, 1/2 EV steps)	±5 (2, 3, 5, 7 frames at 1/3 EV, 1/2 EV, 2/3 EV, 1 EV steps)	±5 (3, 5 frames at 1/3 EV, 1/2 EV, 2/3 EV, 1 EV, 2 EV steps)
WB Bracketing	Yes	Yes (2-9 exposures in 1, 2, or 3EV increments)	Yes
Videography features		<u>-</u>	
Resolutions	4096 x 2160 (29.97p, 24p, 23.98p), 1920 x 1080 (59.94p, 29.97p, 24p, 23.98p), 1280 x 720 (119.9p)		
Format	MPEG-4, Motion JPEG	MPEG-4	MPEG-4, AVCHD, XAVC S
Videography notes	8.8MP stills can be grabbed from 4K video; camera supports ALL-I, IPB and IPB Light compression.		
Modes		 3840 x 2160 @ 30p, MOV, H.264, Linear PCM 3840 x 2160 @ 25p, MOV, H.264, Linear PCM 3840 x 2160 @ 24p, MOV, H.264, Linear PCM 1920 x 1080 @ 120p, MOV, H.264, Linear PCM 1920 x 1080 @ 60p, MOV, H.264, Linear PCM 1920 x 1080 @ 50p, MOV, H.264, Linear PCM 1920 x 1080 @ 30p, MOV, H.264, Linear PCM 1920 x 1080 @ 30p, MOV, H.264, Linear PCM 1920 x 1080 @ 25p, MOV, H.264, Linear PCM 1920 x 1080 @ 25p, MOV, H.264, Linear PCM 1920 x 1080 @ 24p, MOV, H.264, Linear PCM 1280 x 720 @ 60p, MOV, H.264, Linear PCM 1280 x 720 @ 50p, MOV, H.264, Linear PCM 1280 x 720 @ 50p, MOV, H.264, Linear PCM 1280 x 720 @ 50p, MOV, H.264, Linear PCM 	

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Speaker	Mono	Mono	Mono
Storage		·	-
Storage types	CompactFlash + SD/SDHC/SDXC card (UHS-I enabled)	SD/SDHC/SDXC (UHS-II supported) + XQD	Two SD/SDHC/SDXC slots (UHS-II support on one)
Connectivity			-
USB	USB 3.0 (5 GBit/sec)	USB 3.0 (5 GBit/sec)	USB 3.1 Gen 1(5 GBit/sec)
USB charging		No	
HDMI	Yes (mini-HDMI)	Yes (mini HDMI)	Yes (micro HDMI)
Microphone port	Yes	Yes	Yes
Headphone port	Yes	Yes	Yes
Wireless	Built-In	Built-In	Built-In
Wireless notes	802.11b/g/n + NFC	802.11b/g + NFC + Bluetooth 4.1 LE	802.11b/g/n + NFC + Bluetooth
Remote control	Yes (wired, wireless, or smartphone)	Yes (wired, wireless, smartphone)	Yes (wired, wireless, smartphone)
Physical			·
Environmentally sealed	Yes	Yes	Yes
Battery	Battery Pack	Battery Pack	Battery Pack
Battery description	LP-E6N lithium-ion battery & charger	EN-EL15a lithium-ion battery & charger	NP-FZ100 lithium-ion battery and charger
Battery Life (CIPA)	900	1840	650
Weight (inc. batteries)	890 g (1.96 lb / 31.39 oz)	1005 g (2.22 lb / 35.45 oz)	657 g (1.45 lb / 23.17 oz)
Dimensions	151 x 116 x 76 mm (5.94 x 4.57 x 2.99")	146 x 124 x 79 mm (5.75 x 4.88 x 3.11")	127 x 96 x 74 mm (5 x 3.78 x 2.91")
Other features			
Orientation sensor	Yes	Yes	Yes
Timelapse recording		Yes (4K movies or '8K' stills)	Yes (via downloadable app)
GPS	Built-in	None	None