



Sony Cyber-shot DSC-RX100 VII



Canon PowerShot G7 X Mark III

## Side by side

2 cameras compared

### Basic Information

#### Price

#### Body type

Body type	Compact	Compact
Body material	Aluminum	
<b>Sensor</b>		
Max resolution	5472 x 3648	5472 x 3648
Image ratio w:h	1:1, 4:3, 3:2, 16:9	1:1, 4:3, 3:2, 16:9
Effective pixels	20 megapixels	20 megapixels
Sensor photo detectors		21 megapixels
Sensor size	1" (13.2 x 8.8 mm)	1" (13.2 x 8.8 mm)
Sensor type	BSI-CMOS	BSI-CMOS
Processor	Bionz X	DIGIC 8
Color space	sRGB, AdobeRGB	sRGB
Color filter array	Primary color filter	Primary color filter
<b>Image</b>		
ISO	Auto, 125-12800	
Boosted ISO (minimum)	64	
White balance presets	10	6
Custom white balance	Yes	Yes
Image stabilization	Optical	Optical
CIPA image stabilization rating	4 stop(s)	
Uncompressed format	RAW	RAW
JPEG quality levels	Extra fine, fine, standard	Fine, normal

File format	<ul style="list-style-type: none"> <li>• JPEG (Exif v2.3, DCF v2.0)</li> <li>• Raw (Sony ARW v2.3)</li> </ul>	<ul style="list-style-type: none"> <li>• JPEG (Exif v2.3)</li> <li>• Raw (Canon CR3)</li> </ul>
<b>Optics &amp; Focus</b>		
Focal length (equiv.)	24–200 mm	24–100 mm
Optical zoom	8.3×	4.2×
Maximum aperture	F2.8–4.5	F1.8–2.8
Autofocus	<ul style="list-style-type: none"> <li>• Contrast Detect (sensor)</li> <li>• Phase Detect</li> <li>• Multi-area</li> <li>• Center</li> <li>• Selective single-point</li> <li>• Tracking</li> <li>• Single</li> <li>• Continuous</li> <li>• Touch</li> <li>• Face Detection</li> <li>• Live View</li> </ul>	<ul style="list-style-type: none"> <li>• Contrast Detect (sensor)</li> <li>• Multi-area</li> <li>• Center</li> <li>• Selective single-point</li> <li>• Tracking</li> <li>• Single</li> <li>• Continuous</li> <li>• Touch</li> <li>• Face Detection</li> <li>• Live View</li> </ul>
Autofocus assist lamp	Yes	Yes
Digital zoom	Yes (2x)	Yes (4x)
Manual focus	Yes	Yes
Normal focus range	8 cm (3.15")	5 cm (1.97")
Macro focus range	8 cm (3.15")	5 cm (1.97")
<b>Screen / viewfinder</b>		
Articulated LCD	Tilting	Tilting
Screen size	3"	3"
Screen dots	921,000	1,040,000
Touch screen	Yes	Yes
Screen type	TFT LCD	TFT LCD
Live view	Yes	Yes
Viewfinder type	Electronic	None
Viewfinder coverage	100%	
Viewfinder magnification	0.59×	

Viewfinder resolution	2,360,000	
<b>Photography features</b>		
Minimum shutter speed	30 sec	30 sec
Maximum shutter speed	1/2000 sec	1/2000 sec
Maximum shutter speed (electronic)	1/32000 sec	1/25600 sec
Aperture priority	Yes	Yes
Shutter priority	Yes	Yes
Manual exposure mode	Yes	Yes
Subject / scene modes	Yes	Yes
Exposure modes	<ul style="list-style-type: none"> <li>• Auto</li> <li>• Program Auto</li> <li>• Aperture Priority</li> <li>• Shutter Priority</li> <li>• Manual Exposure</li> </ul>	<ul style="list-style-type: none"> <li>• Program</li> <li>• Shutter priority</li> <li>• Aperture priority</li> <li>• Manual</li> </ul>
Scene modes	<ul style="list-style-type: none"> <li>• Portrait</li> <li>• Sports Action</li> <li>• Macro</li> <li>• Landscape</li> <li>• Sunset</li> <li>• Night Scene</li> <li>• Handheld Twilight</li> <li>• Night Portrait</li> <li>• Anti Motion Blur</li> <li>• Pet Mode</li> <li>• Gourmet</li> <li>• Fireworks</li> <li>• High Sensitivity</li> </ul>	<ul style="list-style-type: none"> <li>• Self Portrait</li> <li>• Portrait</li> <li>• Panning</li> <li>• Star Portrait</li> <li>• Star Nightscape</li> <li>• Star Trails</li> <li>• Star Time-Lapse Movie</li> <li>• Handheld Night Scene</li> <li>• High Dynamic Range</li> <li>• Fireworks</li> <li>• Standard Movie</li> <li>• Short Clip</li> <li>• Manual Movie</li> <li>• Time-Lapse Movie</li> <li>• iFrame Movie</li> </ul>
Built-in flash	Yes	Yes
Flash range	5.90 m (at Auto ISO)	7.00 m
External flash	No	No
Flash modes		Auto, on, slow synchro, off

Drive modes	<ul style="list-style-type: none"> <li>• Single</li> <li>• Continuous</li> <li>• Single burst</li> <li>• Self-timer</li> <li>• Continuous bracketing</li> <li>• Single bracketing</li> <li>• WB bracketing</li> <li>• DRO bracketing</li> </ul>	<ul style="list-style-type: none"> <li>• Single</li> <li>• Continuous</li> <li>• Self-timer</li> </ul>
Continuous drive	90.0 fps	30.0 fps
Self-timer	Yes	Yes (2 or 10 secs, custom)
Metering modes	<ul style="list-style-type: none"> <li>• Multi</li> <li>• Center-weighted</li> <li>• Highlight-weighted</li> <li>• Average</li> <li>• Spot</li> </ul>	<ul style="list-style-type: none"> <li>• Multi</li> <li>• Center-weighted</li> <li>• Spot</li> </ul>
Exposure compensation	±3 (at 1/3 EV steps)	±3 (at 1/3 EV steps)
AE Bracketing	±3 (3, 5 frames at 1/3 EV, 2/3 EV, 1 EV, 2 EV steps)	
WB Bracketing	Yes	
<b>Videography features</b>		
Format	MPEG-4, AVCHD, XAVC S	MPEG-4, H.264
Modes	<ul style="list-style-type: none"> <li>• 3840 x 2160 @ 30p / 100 Mbps, XAVC S, MP4, H.264, Linear PCM</li> <li>• 3840 x 2160 @ 30p / 60 Mbps, XAVC S, MP4, H.264, Linear PCM</li> <li>• 3840 x 2160 @ 25p / 100 Mbps, XAVC S, MP4, H.264, Linear PCM</li> <li>• 3840 x 2160 @ 25p / 60 Mbps, XAVC S, MP4, H.264, Linear PCM</li> <li>• 3840 x 2160 @ 24p / 100 Mbps, XAVC S, MP4, H.264, Linear PCM</li> <li>• 3840 x 2160 @ 24p / 60 Mbps, XAVC S,</li> </ul>	<ul style="list-style-type: none"> <li>• 3840 x 2160 @ 30p / 120 Mbps, MOV, H.264, AAC</li> <li>• 1920 x 1080 @ 120p / 120 Mbps, MOV, H.264, AAC</li> <li>• 1920 x 1080 @ 60p / 60 Mbps, MOV, H.264, AAC</li> <li>• 1920 x 1080 @ 30p / 30 Mbps, MOV, H.264, AAC</li> </ul>

- MP4, H.264, Linear PCM
- 1920 x 1080 @ 120p / 100 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 120p / 60 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 100p / 100 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 100p / 60 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 60p / 50 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 60p / 28 Mbps, MP4, H.264, AAC
- 1920 x 1080 @ 60p / 28 Mbps, AVCHD, MTS, H.264, Dolby Digital
- 1920 x 1080 @ 60i / 24 Mbps, AVCHD, MTS, H.264, Dolby Digital
- 1920 x 1080 @ 60i / 17 Mbps, AVCHD, MTS, H.264, Dolby Digital
- 1920 x 1080 @ 50p / 50 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 50p / 28 Mbps, MP4, H.264, AAC
- 1920 x 1080 @ 30p / 50 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 30p / 16 Mbps, MP4, H.264, AAC
- 1920 x 1080 @ 25p / 50 Mbps, XAVC S, MP4, H.264, Linear PCM
- 1920 x 1080 @ 25p / 16 Mbps, MP4, H.264, AAC
- 1920 x 1080 @ 24p / 50 Mbps, XAVC S,

	MP4, H.264, Linear PCM • 1920 x 1080 @ 24p / 24 Mbps, AVCHD, MTS, H.264, Dolby Digital • 1920 x 1080 @ 24p / 17 Mbps, AVCHD, MTS, H.264, Dolby Digital • 1280 x 720 @ 30p / 6 Mbps, MP4, H.264, AAC • 1280 x 720 @ 25p / 6 Mbps, MP4, H.264, AAC	
Microphone	Stereo	Stereo
Speaker	Mono	Mono
<b>Storage</b>		
Storage types	SD/ SDHC/SDXC, Memory Stick Pro Duo	SD/SDHC/SDXC card (UHS-I compatible)
<b>Connectivity</b>		
USB	USB 2.0 (480 Mbit/sec)	USB 3.1 Gen 1 (5 GBit/sec)
USB charging	Yes	Yes
HDMI	Yes (micro-HDMI with uncompressed 4K/30p output)	Yes (micro-HDMI)

Microphone port	Yes	Yes
Headphone port	No	No
Wireless	Built-In	Built-In
Wireless notes	802.11b/g/n with Bluetooth and NFC	802.11b/g/n + Bluetooth
Remote control	Yes (wired or smartphone)	Yes (via smartphone or wireless remote)
<b>Physical</b>		
Environmentally sealed	No	No
Battery	Battery Pack	Battery Pack
Battery description	NP-BX1 lithium-ion battery & USB charger	NB-13L lithium-ion battery and charger
Battery Life (CIPA)	260	235
Weight (inc. batteries)	302 g (0.67 lb / 10.65 oz)	304 g (0.67 lb / 10.72 oz)
Dimensions	102 x 58 x 43 mm(4.02 x 2.28 x 1.69")	105 x 61 x 41 mm(4.13 x 2.4 x 1.61")
<b>Other features</b>		
Orientation sensor	Yes	Yes
Timelapse recording	Yes	Yes
GPS	None	None