



# PowerShot G7X Mark II

## Specifications

Type of Camera	
Type	Digital camera with built-in flash, 4.2x Optical, 4x Digital and 17x Combined Zoom with Optical Image Stabilizer
Image Capture Device	
Type	20.1 Megapixel*, 1.0-inch CMOS (sensor aspect ratio: 3:2) * Image processing may cause a decrease in the number of pixels.
Total Pixels	Approx. 20.9 megapixels
Effective Pixels	Approx. 20.1 megapixels
Lens	
Focal Length	8.8 (W) – 36.8 (T) mm (35mm film equivalent: 24–100mm)
Optical Zoom	4.2x
Digital Zoom	4x
Focusing Range	<b>Normal/Auto:</b> 2.0 in. (5cm) – infinity (W), 1.3 ft. (40cm) – infinity (T) <b>Macro/Underwater Macro:</b> 2.0 in. – 1.6 ft. (5–50 cm) (W) <b>Quick:</b> 5.0–65.6 ft. (1.5–20m) (W), 5.0–65.6 ft. (1.5–20m) (T)
Autofocus System	TTL Autofocus, Manual Focus
Viewfinders	
Optical Viewfinder	N/A
LCD Monitor	3.0-inch tilt-type TFT color liquid crystal, with biaxial tilt for low and high angle shooting
LCD Pixels	Approx. 1.04 million dots
LCD Coverage	Approx. 100%
Aperture & Shutter	
Maximum Aperture	f/1.8 (W), f/2.8 (T)
Shutter Speed	1–1/2000 sec. (in Auto mode) 15–1/2000 sec. (in all shooting modes) BULB (in M mode only) 1/8 minimum in Manual Movie Mode
Exposure Control	
Sensitivity	ISO 125–6400 (in Auto mode) Max. ISO Speed in P mode is ISO 12800 (expanded ISO: 25600)
Light Metering Method	Evaluative, Center Weighted Average, Spot
Exposure Control Method	Manual Exposure, Program Shift, Safety Shift, AE Lock
Exposure Compensation	<b>Still Images:</b> ±3 stops in 1/3-stop increments <b>Videos:</b> ±3 stops in 1/3-stop increments (not available during shooting)

White Balance																										
<b>White Balance Control</b>	Auto, Day Light, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater WB, Kelvin Settings, Custom 1-2																									
Flash																										
<b>Built-in Flash</b>	Auto, On, Slow Synchro, Off																									
<b>Flash Range</b>	1.6 ft. (50 cm) – 23 ft. (7.0 m) (W), 1.3 ft. (40 cm) – 13 ft. (4.0 m) (T) Image brightness may diminish depending on the shooting distance																									
<b>Flash Exposure Compensation</b>	±2 stops in 1/3-stop increments																									
Shooting Specifications																										
<b>Shooting Modes</b>	C, M, Av, Tv, P, Hybrid Auto, Auto, Self Portrait, Portrait, Panning, Star Portrait, Star Nightscape, Star Trails, Star Time-Lapse Movie, Handheld Night Scene, High Dynamic Range, Fish-eye Effect, Art Bold Effect, Water Painting Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Grainy B/W, Underwater, Fireworks, Standard Movie, Short Clip, Manual Movie, Time-Lapse Movie, iFrame Movie																									
<b>Picture Style</b>	Auto, Standard, Portrait, Landscape, Detail, Neutral, Faithful, Fine Monochrome, User Def. 1-3																									
<b>Self Timer</b>	Off, 2 sec., 10 sec., Custom																									
<b>Wireless Control</b>	Wi-Fi® / NFC																									
<b>Continuous Shooting</b>	<b>One Shot H:</b> Approx. 8.0 shots/sec. (max. 30 shots) <b>One Shot L:</b> Approx. 4.0 shots/sec. <b>Servo H:</b> Approx. 5.4 shots/sec. (max. 46 shots) <b>Servo L:</b> Approx. 4.0 shots/sec.																									
Image Storage																										
<b>Storage Media</b>	SD/SDHC/SDXC and UHS-I Memory Cards																									
<b>File Format</b>	Design rule for Camera File system (DCF) compliant; DPOF (Version 1.1) compatible																									
<b>Image Recording Format</b>	Fine / Normal																									
<b>JPEG Compression Mode</b>	<b>Still Image:</b> Exif. 2.3 (JPEG), RAW (Canon original: 14-bit, CR2) <b>Video:</b> MP4 (Image: MPEG-4 AVC/H.264; Audio: MPEG-4 AAC-LC (Stereo))																									
<b>Number of Recording Pixels</b>	<table border="1"> <thead> <tr> <th></th> <th>16:9</th> <th>3:2</th> <th>4:3</th> <th>1:1</th> </tr> </thead> <tbody> <tr> <td>Large</td> <td>5472 x 3072</td> <td>5472 x 3648</td> <td>4864 x 3648</td> <td>3648 x 3648</td> </tr> <tr> <td>Medium</td> <td>3648 x 2048</td> <td>3648 x 2432</td> <td>3248 x 2432</td> <td>2432 x 2432</td> </tr> <tr> <td>Small 1 (S1)</td> <td>2736 x 1536</td> <td>2736 x 1824</td> <td>2432 x 1824</td> <td>1824 x 1824</td> </tr> <tr> <td>Small 2 (S2)</td> <td>2400 x 1344</td> <td>2400 x 1600</td> <td>2112 x 1600</td> <td>1600 x 1600</td> </tr> </tbody> </table>		16:9	3:2	4:3	1:1	Large	5472 x 3072	5472 x 3648	4864 x 3648	3648 x 3648	Medium	3648 x 2048	3648 x 2432	3248 x 2432	2432 x 2432	Small 1 (S1)	2736 x 1536	2736 x 1824	2432 x 1824	1824 x 1824	Small 2 (S2)	2400 x 1344	2400 x 1600	2112 x 1600	1600 x 1600
	16:9	3:2	4:3	1:1																						
Large	5472 x 3072	5472 x 3648	4864 x 3648	3648 x 3648																						
Medium	3648 x 2048	3648 x 2432	3248 x 2432	2432 x 2432																						
Small 1 (S1)	2736 x 1536	2736 x 1824	2432 x 1824	1824 x 1824																						
Small 2 (S2)	2400 x 1344	2400 x 1600	2112 x 1600	1600 x 1600																						

#### Approx. Number of Shots Recordable to 16GB Memory Card

		16:9	3:2	4:3	1:1
Large	F	2121	1786	2007	2669
	Normal	3572	2999	3374	4498
Medium	F	4717	3982	4457	5925
	Normal	7965	6656	7475	9916
Small 1 (S1)	F	7252	6073	6843	8998
	Normal	12787	11043	12147	16197
Small 2 (S2)	F	9168	7712	8676	11300
RAW		523	525	526	528

Note: F=Fine

• The approximate number of images recordable on memory cards other than the above can be calculated by using the above figures as a reference and extrapolating accordingly.

## Time of Recordable Videos

Shooting Mode	Pixels	Frame Rate	Movie Size (KB/sec.)	Approx. Total Movie Time Recordable to 16GB Memory Card	Single Clip Approx. Recording Time <sup>*1</sup>	Video Recording Bit Rate
Standard Movie	1920 x 1080 (Full HD)	59.94 fps	4288	59 min. 30 sec.	29 min. 59 sec.	Approx. 35 Mbps
		29.97 fps, 23.98 fps <sup>*2</sup>	2945	1 hr. 26 min. 5 sec.	29 min. 59 sec.	Approx. 24 Mbps
	1280 x 720 (HD)	29.97 fps	992	4 hrs. 5 min. 15 sec.	29 min. 59 sec.	Approx. 8 Mbps
	640 x 480 (VGA)	29.97 fps	382	10 hrs. 22 min. 35 sec.	1 hr.	Approx. 3 Mbps

\*1 Using an SD Speed Class 10 / UHS-I compatible memory card.

• Recording stops automatically once the file size reaches 4 GB or the memory card becomes full.

• Recording may stop unexpectedly if a memory card with a low Speed Class is used.

\*2 Actual frame rate is 23.976 fps.

Playback Specifications	
<b>Playback Functions</b>	List/Play Digest Movies, Story Highlights, Protect, Favorites, Erase, Image Search, Slideshow, Rotate, Album Playback, Short Clip Mix, Resize, Cropping, Red-Eye Correction, Face ID Info, Creative Filters, RAW Image Processing, Photobook Set-up, Image Transition Effect, Index Effect, Scroll Display, Group Images, Auto Rotate, Resume, Image Jump with Control Ring/Front Dial, Set Touch Actions, Playback Information Display
Interface	
<b>Audio Out</b>	Stereo
<b>Wired</b>	Hi-Speed USB (Micro-B), HDMI (Type D)
<b>Wireless</b>	Wi-Fi** <b>Specifications:</b> IEEE 802.11b/g/n <b>Frequency:</b> 2.4 GHz <b>Channels:</b> 1-11 <b>Security:</b> WEP, WPA-PSK (AES/TKIP), WPA2-PSK (AES-TKIP) NFC** <small>* Compatible with iOS® versions 7.1/8.4/9.0, Android™ smartphone and tablet versions 4.0/4.1/4.2/4.3/4.4/5.0/5.1. Data charges may apply with the download of the free Canon Camera Connect app. This app helps enable you to upload images to social media services. Please note that image files may contain personally identifiable information that may implicate privacy laws. Canon disclaims and has no responsibility for your use of such images. Canon does not obtain, collect or use such images or any information included in such images through this app.            ** Compatible with Android™ smartphone and tablet versions 4.0/4.1/4.2/4.3/4.4/5.0/5.1.</small>
<b>Other</b>	Direct connection to Canon SELPHY, PIXMA Photo Printers & PictBridge compatible printers
Power Supply	
<b>Power Source</b>	Battery Pack NB-13L, Battery Charger CB-2LH In-Camera Charging via USB Cable available through Compact Power Adapter CA-DC30* (Charging time: Approx. 5 hrs.)** <small>* To use CA-DC30, IFC-600PCU is necessary.            ** Charging time varies considerably depending on the remaining battery power.</small>
<b>Shooting Capacity</b>	Approx. 265 shots with Screen On (CIPA compliant) Approx. 355 shots with ECO Mode
<b>Playback Time</b>	Approx. 5 hrs.
Physical Specifications	
<b>Operating Temperature</b>	32–104°F / 0–40°C
<b>Operating Humidity</b>	10–90%
<b>Dimensions (W x H x D)</b>	4.15 x 2.40 x 1.65 in. / 105.5 x 60.9 x 42.0mm
<b>Weight</b>	Approx. 11.3 oz. / 319g (including battery and memory card) Approx. 10.4 oz. / 294g (camera body only)