



# PowerShot G5X

## 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	20.2 Megapixel*, 1.0-inch CMOS (sensor aspect ratio: 3:2) * Image processing may cause a decrease in the number of pixels.
Pixels	Effective Pixels: Approx. 20.2 Megapixels Total Pixels: Approx. 20.9 Megapixels
Lens	
Focal Length	8.8 (W) – 36.8 (T) mm (35mm film equivalent: 24–100mm)
Optical Zoom	Approx. 4.2x
Digital Zoom	Approx. 4x
Focusing Range	Auto/Manual: 2.0 in. (5cm) – infinity (W), 1.3 ft. (40cm) – infinity (T) Normal: 2.0 in. (5cm) – infinity (W), 1.3 ft. (40cm) – infinity (T) Macro: 2.0 in. – 1.6 ft. (5–50cm) (W)
Autofocus System	TTL Autofocus, Manual Focus
Viewfinder & Monitor	
Viewfinder	Electronic Viewfinder (Approx. 2.36 million dots)
LCD Monitor	3.0-type TFT color liquid crystal (Vari-angle)
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) 30–1/2000 sec. (in Tv, M, and Manual Movie Modes) BULB (in M mode only) 1/8 minimum in Manual Movie Mode
Exposure Control	
ISO Sensitivity	Auto, ISO 125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/ 5000/6400 (When in Auto mode) Max. ISO Speed 12800 (When in P mode)
Light Metering Method	Evaluative, Center Weighted Average, Spot
Exposure Control Method	Manual Exposure, Program Shift, Safety Shift, AE Lock
Exposure Compensation	Still Images: ±3 stops in 1/3-stop increments Videos: ±3 stops in 1/3-stop increments

White Balance	
<b>White Balance Control</b>	Auto, Day Light, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom1-2
Flash	
<b>Built-in Flash</b>	Auto, On, Slow Synchro, Off
<b>Flash Range</b>	1.6 (50cm) –23 ft. (7.0m) (W), 1.6 ft. (50cm) – 13 ft. (4.0m) (T) Image brightness may diminish depending on the shooting distance.
<b>Flash Exposure Compensation</b>	±2 stops in 1/3-stop increments
<b>Hot Shoe Availability</b>	Available
Shooting Specifications	
<b>Shooting Modes</b>	<p>C, M, Av, Tv, P, Hybrid Auto, Auto, Creative Shot, Portrait, Self Portrait, Star Portrait, Star Nightscape, Star Trails, Star Time-Lapse Movie, Handheld Night Scene, Fireworks, High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Monochrome, Super Vivid, Poster Effect, Standard Movie, Short Clip, Manual Movie, iFrame Movie</p> <p>C, M, Av, Tv, P, Hybrid Auto, Auto, Creative Shot, Sports, SCN*<sup>1</sup>, Creative Filters*<sup>2</sup>, Movie*<sup>3</sup></p> <p>* Shooting movies is done with the movie button.</p> <p>*<sup>1</sup> Portrait, Smart Shutter*<sup>4</sup>, Star*<sup>5</sup>, Handheld Night Scene, Snow, Fireworks  *<sup>2</sup> High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Monochrome, Super Vivid, Poster Effect  *<sup>3</sup> Standard Movie, Short Clip, Manual Movie, iFrame Movie  *<sup>4</sup> Smile, Wink Self-Timer, Face Self-Timer  *<sup>5</sup> Star Nightscape, Star Trails, Star Time-Lapse Movie</p>
<b>Photo Effects</b>	My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color
<b>Self Timer</b>	Off, Approx. 2 sec. delay, Approx. 10 sec. delay, Custom
<b>Wireless Control</b>	Unavailable
<b>Electronic Level</b>	Horizontal Roll Calibration, Vertical Pitch Calibration, Reset
<b>Continuous Shooting</b>	One Shot: Approx. 5.9 shots/sec. Servo: Approx. 4.4 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 Compression</b>	Superfine / Fine
<b>JPEG Compression Mode</b>	Still Image: Exif 2.3 (DCF 2.0), RAW (Canon original: 14-bit, CR2) Video: MP4 (Image: MPEG-4 AVC/H.264; Audio: MPEG-4 AAC-LC [Stereo])

<b>Number of Recording Pixels</b>	<p>Still Images:</p> <p>1) 16:9 – Large: 5472 x 3080; Medium 1: 4320 x 2432; Medium 2: 1920 x 1080; Small: 720 x 408</p> <p>2) 3:2 – Large: 5472 x 3648, Medium 1: 4320 x 2880, Medium 2: 2304 x 1536, Small: 720 x 480</p> <p>3) 4:3 – Large: 4864 x 3648, Medium 1: 3840 x 2880, Medium 2: 2048 x 1536, Small: 640 x 480</p> <p>4) 1:1 – Large: 3648 x 3648; Medium 1: 2880 x 2880; Medium 2: 1536 x 1536; Small: 480 x 480</p> <p>Videos:</p> <p>Full HD 1920 x 1080: 59.94 fps</p> <p>Full HD iFrame: 1920 x 1080: 29.97 fps</p> <p>Full HD Star Time-Lapse Movie: 1920 x 1080: 14.985 fps / 29.97 fps</p> <p>HD 1280 x 720: 29.97 fps</p> <p>640 x 480: 29.97 fps</p> <p>Miniature Effect: 1280 x 720: 6 fps (5x speed) / 3 fps (10x speed) / 1.5 fps (20x speed)</p> <p>Miniature Effect: 640 x 480: 6 fps (5x speed) / 3 fps (10x speed) / 1.5 fps (20x speed)</p> <p>Short Clip: 1280 x 720: 29.97 fps</p>
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<b>Approx. Number of Shots Recordable to 16 GB Memory Card</b>			16:9	3:2	4:3	1:1
	Large (L)	SF	2112	1786	2007	2669
		F	3546	2999	3374	4498
	Medium 1 (M1)	SF	3374	2857	3217	4262
		F	5649	4810	5398	7145
	Medium 2 (M2)	SF	13497	8377	9344	12459
		F	24296	14724	16755	22087
	Small (S)	SF	53992	48592	53992	69418
		F	80988	69418	80988	97186
	RAW		608	610	612	614

Note: SF=Superfine 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.

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

<sup>\*1</sup> 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.

<sup>\*2</sup> Actual frame rate is 23.976 fps.

**Playback Specifications**

<b>Playback Functions</b>	<p>Story Highlights, Protect, Favorites, Erase, Print, Group Playback, Play Movie, List/Play Digest Movies, Image Search, Slideshow, Rotate, Album Playback, Play Creative Shot Movies, Short Clip Mix, i-Contrast, Resize, Cropping, Red-Eye Correction, My Colors, Face ID Info, Print Settings, Photobook Set-up, Transition Effect, Index Effect, Scroll Display, Group Images, Auto Rotate, Resume, Image Jump with Control Ring/Front Dial, Set Touch Actions</p>
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Erasing Specifications	
<b>Erase Mode</b>	Select Image, Select Range, Select All Images <ul style="list-style-type: none"> <li>• The image data in the memory card stored with the Design rule for Camera File systems format can be erased (however, protected images cannot be erased).</li> <li>• Using the Movie editing function, sections of the movie can be deleted.</li> <li>• RAW+JPEG images can be erased individually.</li> </ul>
Interface	
<b>Video Out</b>	NTSC/PAL
<b>Audio Out</b>	Stereo
<b>Wired</b>	USB (Micro-B), HDMI (Type D)
<b>Wireless</b>	Specifications: IEEE 802.11b/g/n Frequency: 2.4 GHz Channels: 1-11 Security: WEP, WPA-PSK (AES/TKIP), WPA2-PSK (AES-TKIP)
<b>Other</b>	Remote switch terminal available; direct connection to Canon SELPHY, PIXMA Photo Printers & PictBridge compatible printers
Power Supply	
<b>Power Source</b>	Battery Pack NB-13L, AC Adapter Kit CA-DC10 (ACK-DC110) In-Camera Charging via USB Cable available through Compact Power Adapter CA-DC30 (Charging time: Approx. 5 hr.)* *Charging time varies considerably depending on the remaining battery power.
<b>Shooting Capacity</b>	Approx. 210 shots with Screen On Approx. 215 shots with Viewfinder On Approx. 320 shots with ECO Mode
<b>Playback Time</b>	Approx. 4 hr.
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>	4.43 x 3.01 x 1.74 in. / 112.4 x 76.4 x 44.2mm
<b>Weight</b>	13.3 oz. / 377g (including battery and memory card) 12.5 oz. / 353g (camera body only)