



PowerShot G9X

Specifications

Type of Camera	
Type	Digital camera with built-in flash, 3x Optical, 4x Digital and 12x 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	10.2 (W) – 30.6 (T) mm (35mm film equivalent: 28–84mm)
Optical Zoom	Approx. 3x
Digital Zoom	Approx. 4x
Focusing Range	Auto/Manual: 2.0 in. (5cm) – infinity (W), 1.1 ft. (35cm) – infinity (T) Normal: 2.0 in. (5cm) – infinity (W), 1.1 ft. (35cm) – infinity (T) Macro: 2.0 in. – 1.6 ft. (5–50cm) (W)
Autofocus System	TTL Autofocus (Continuous, Servo AF), Manual Focus
Viewfinder & Monitor	
Viewfinder	N/A
LCD Monitor	3.0-type TFT color liquid crystal
LCD Pixels	Approx. 1.04 million dots
LCD Coverage	Approx. 100%
Aperture & Shutter	
Maximum Aperture	f/2.0 (W), f/4.9 (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	
White Balance Control	Auto, Day Light, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom1-2
Flash	
Built-in Flash	Auto, On, Slow Synchro, Off *Facial brightness is also evaluated in Face Detect.
Flash Range	1.6 (50cm) -20 ft. (6.0m) (W), 1.6 ft. (50cm) - 7.9 ft. (2.4m) (T) Image brightness may diminish depending on the shooting distance.
Flash Exposure Compensation	±2 stops in 1/3-stop increments
Hot Shoe Availability	Unavailable
Shooting Specifications	
Shooting Modes	C, M, Av, Tv, P, Hybrid Auto, Auto, Creative Shot, 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 *Shooting movies is done with the movie button.
Photo Effects	My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color
Self-Timer	Off, Approx. 2 sec. delay, Approx. 10 sec. delay, Custom
Wireless Control	Unavailable
Electronic Level	Calibrate, Reset
Continuous Shooting	One Shot: Approx. 6.0 shots/sec. Servo: Approx. 4.3 shots/sec.
Image Storage	
Storage Media	SD/SDHC/SDXC and UHS-I Memory Cards
File Format	Design rule for Camera File system (DCF) compliant; DPOF (Version 1.1) compatible
Image Compression	Superfine / Fine
JPEG Compression Mode	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])
Number of Recording Pixels	Still Images: 1) 16:9 - Large: 5472 x 3080; Medium 1: 4320 x 2432; Medium 2: 1920 x 1080; Small: 720 x 408 2) 3:2 - Large: 5472 x 3648, Medium 1: 4320 x 2880, Medium 2: 2304 x 1536, Small: 720 x 480 3) 4:3 - Large: 4864 x 3648, Medium 1: 3840 x 2880, Medium 2: 2048 x 1536, Small: 640 x 480 4) 1:1 - Large: 3648 x 3648; Medium 1: 2880 x 2880; Medium 2: 1536 x 1536; Small: 480 x 480 Videos: Full HD 1920 x 1080: 59.94 fps Full HD iFrame: 1920 x 1080: 29.97 fps Full HD Star Time-Lapse Movie: 1920 x 1080: 14.985 fps / 29.97 fps HD 1280 x 720: 29.97 fps 640 x 480: 29.97 fps Miniature Effect: 1280 x 720: 6 fps (5x speed) / 3 fps (10x speed) / 1.5 fps (20x speed) Miniature Effect: 640 x 480: 6 fps (5x speed) / 3 fps (10x speed) / 1.5 fps (20x speed) Short Clip: 1280 x 720: 29.97 fps

		16:9	3:2	4:3	1:1	
Approx. Number of Shots Recordable to 16 GB Memory Card	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.

Shooting Mode	Pixels	Frame Rate		Movie Size (KB/sec.)	Approx. Total Movie Time Recordable to 16 GB Memory Card	Single Clip Approx. Recording Time ¹	Video Recording Bit Rate
		Shooting	Playback				
Standard Movie	1920 x 1080 (Full HD)	59.94 fps	59.94 fps	4288	59 min. 30 sec.	10 min.	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 ²	23.98 fps ²	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

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

Playback Functions	Story Highlights, Protect, Favorites, Erase, Print, Group Playback, Play Movie, List/Play Digest Movies, Image Search, Slideshow, Rotate, 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, Set Touch Actions
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Erasing Specifications

Erase Mode	Select Image, Select Range, Select All Images <ul style="list-style-type: none"> 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). Using the Movie editing function, sections of the movie can be deleted. RAW+JPEG images can be erased individually.
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Interface

Video Out	NTSC/PAL
Audio Out	Stereo
Wired	USB (Micro-B), HDMI (Type D)
Wireless	Specifications: IEEE 802.11b/g/n Frequency: 2.4 GHz Channels: 1-11 Security: WEP, WPA-PSK (AES/TKIP), WPA2-PSK (AES-TKIP)
Other	Direct connection to Canon SELPHY, PIXMA Photo Printers & PictBridge compatible printers

Power Supply	
Power Source	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.
Shooting Capacity	Approx. 220 shots with Screen On Approx. 335 shots with ECO Mode
Playback Time	Approx. 5 hr.
Physical Specifications	
Operating Temperature	32–104°F / 0–40°C
Operating Humidity	10–90%
Dimensions (W x H x D)	3.86 x 2.28 x 1.21 in. / 98.0 x 57.9 x 30.8mm
Weight	7.37 oz. / 209g (including battery and memory card) 6.53 oz. / 185g (camera body only)