

DIGITAL CAMERA		PowerShot G7 X Mark II
IMAGE SENSOR		
Type	1.0 type back-illuminated CMOS	
Effective Pixels	Approx. 20.1M (Aspect ratio 3:2) [14]	
Effective / Total Pixels	Approx. 20.9M	
Colour Filter Type	Primary Colour	
IMAGE PROCESSOR		
Type	DIGIC 7	
LENS		
Focal Length	8.8 – 36.8 mm (35 mm equivalent: 24 – 100 mm)	
Zoom	Optical 4.2x ZoomPlus 8.4x Digital Approx. 4x (with Digital Tele-Converter approx. 1.6x or 2.0x [1]) Combined approx. 17x	
Maximum f/number	f/1.8-f/2.8	
Construction	11 elements in 9 groups (1 double sided aspherical lens, 1 single sided aspherical UA lens, 1 single sided aspherical lens and 1 UD lens)	
Image Stabilisation	Yes (lens shift-type), approx. 4-stop [13]. Intelligent IS with 5-axis Advanced Dynamic IS & Auto Level	
FOCUSING		
Type	TTL	
AF System/ Points	AiAF (31-point, Face Detection or Touch AF with Object and Face Select and Track), 1-point AF (any position is available or fixed centre)	
AF Modes	Single, Continuous, Servo AF/AE [6], Touch AF	
AF Point Selection	Size (Normal, Small)	
AF Lock	Yes, via customisable buttons	
AF Assist Beam	Yes	
Manual Focus	Yes, plus MF Peaking	
Focus Bracketing	Yes	
Closest Focusing Distance	5 cm (Wide) from front of lens 40 cm (Tele) from front of lens	
EXPOSURE CONTROL		
Metering modes	Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot	
AE Lock	Yes	
Exposure Compensation	+/- 3 EV in 1/3 stop increments Auto Lighting Optimizer ND Filter (3-stop) On / Auto / Off [16]	
AEB	1/3 – 2 EV in 1/3 stop increments	
ISO sensitivity	125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12800 [15] AUTO ISO: 125 - 12800 (possible to set Max. ISO speed and rate of change)	
SHUTTER		
Speed	1 – 1/2000 s (factory default) 1/8 - 1/2000 s (Movie mode) BULB, 30 – 1/2000 s (total range – varies by shooting mode) [19]	
WHITE BALANCE		
Type	TTL	
Settings	Auto (including Face Detection WB), Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash, Underwater, Custom, Color temp (Kelvin) White Balance Compensation White Balance Compensation in Underwater mode Colour adjustment in Star mode	
COLOUR MATRIX		
Type	sRGB	
LCD MONITOR		
Monitor	Vari-angle 7.5 cm (3.0") Touchscreen LCD (TFT), 3:2 aspect ratio. Approx. 1,040,000 dots. Capacitive type, sRGB colour reproduction	
Coverage	Approx. 100%	
Brightness	Adjustable to one of five levels. Night Display Mode available	
FLASH		
Modes	Auto, Manual Flash On / Off, Slow Synchro	
Slow Sync Speed	Yes. Fastest speed 1/2000 s	
Red-Eye Reduction	Yes	
Flash Exposure Compensation	+/- 2 EV in 1/3 stop increments. Face Detection FE, Safety FE	
Flash Exposure Lock	Yes	
Manual Power Adjustment	3 levels with internal flash	
Second Curtain Synchronisation	Yes	
Built-in Flash Range	50 cm – 7.0 m (W) / 40 cm – 4.0 m (T)	
External Flash	Canon High Power Flash HF-DC2	

SHOOTING		
Modes	Smart Auto (58 scenes detected), Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom, Hybrid Auto, Creative Shot, SCN (Portrait, Self-Portrait, Panning, Star (Star Portrait, Star Nightscape, Star Trails, Star Time-Lapse Movie), Handheld Night Scene, High Dynamic Range, Fish-eye Effect, Oil Painting 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	
Photo Effects	Picture Styles (Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined x3 (Sharpness (Strength, Fineness, Threshold), Contrast, Color Saturation, Color Tone, Filtering Effect, Toning))	
Drive modes	Single, Auto Drive, Continuous, Continuous with AF, Self-Timer	
Continuous Shooting	Approx. 8.0 shots/s for up to 19 frames in RAW and 30 frames in JPEG with AF: Approx. 5.4 shots/s for up to 46 frames in JPEG [3] [20]	
RECORDING PIXELS / COMPRESSION		
Image Size	3:2 - (RAW, L) 5472 x 3648, (M) 3648 x 2432, (S1) 2736 x 1824, (S2) 2400 x 1600 4:3 - (RAW, L) 4864 x 3648, (M) 3248 x 2432, (S1) 2432 x 1824, (S2) 2112 x 1600 16:9 - (RAW, L) 5472 x 3072, (M) 3648 x 2048, (S1) 2736 x 1536, (S2) 2400 x 1344 1:1 - (RAW, L) 3648 x 3648, (M) 2432 x 2432, (S1) 1824 x 1824, (S2) 1600 x 1600 In-camera RAW processing & Resize available	
Compression	RAW, Fine, Normal	
Movies	(Full HD) 1920 x 1080, 59.94 / 50 / 29.97 / 25 / 23.98 fps (HD) 1280 x 720, 29.97 / 25 fps (L) 640 x 480, 29.97 / 25 fps	
Movie Length	(Full HD & HD) Up to 4 GB or 29 min 59 s [7] (L) Up to 4 GB or 1 hour [4]	
FILE TYPES		
Still Image Type	JPEG compression (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system and DPOF ver. 1.1 compliant), RAW (14-bit, Canon original RAW 2nd edition), RAW+JPEG	
Movies	MP4 [Video: MPEG-4 AVC / H.264, Audio: MPEG-4 AAC-LC (stereo)] iFrame	
DIRECT PRINT		
Canon Printers	Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge	
PictBridge	Yes (via USB or Wireless LAN)	
OTHER FEATURES		
GPS	GPS via Mobile (linked to a compatible smartphone)	
Red-Eye Correction	Yes, during shooting and playback	
My Camera / My Menu	My Menu customisation available	
Intelligent Orientation Sensor	Yes	
Histogram	Yes	
Playback zoom	Yes	
Self Timer	Approx. 2, 10 s or Custom	
Menu Languages	English, German, French, Dutch, Danish, Finnish, Italian, Greek, Norwegian, Portuguese, Russian, Swedish, Spanish, Ukrainian, Polish, Czech, Hungarian, Turkish, Simplified Chinese, Chinese (traditional), Japanese, Korean, Thai, Arabic, Romanian, Farsi, Hindi, Malay, Indonesian, Vietnamese, Hebrew	
INTERFACE		
Computer	Hi-Speed USB dedicated connector (Micro-B compatible)	
Other	HDMI Micro (Type-D) Connector	
Computer/Other	Wi-Fi (IEEE802.11b/g/n), (2.4 GHz only), with Dynamic NFC support [11]	
MEMORY CARD		
Type	SD, SDHC, SDXC (UHS Speed Class 1 compatible)	
SUPPORTED OPERATING SYSTEM		
PC & Macintosh	Windows 10 / 8.1 / 8 / 7 SP1 [18] Mac OS X 10.9 / 10.10 / 10.11 For Wi-Fi connection to a PC: Windows 10 / 8.1 / 8 / 7 SP1 Mac OS X 10.9 / 10.10 For Image Transfer Utility: Windows 10 / 8.1 / 8 / 7 SP1 Mac OS X 10.9 / 10.10 / 10.11	
SOFTWARE		
Other	CameraWindow DC Map Utility Image Transfer Utility Camera Connect app available on iOS and Android devices	
Image Manipulation	Digital Photo Professional for RAW development	
POWER SOURCE		
Batteries	Rechargeable Li-ion Battery NB-13L (battery and charger supplied)	
Battery life	Approx. 265 shots Eco mode approx. 355 shots Approx. 300 min playback	
A/C Power Supply	Charging via USB available with Compact Power Adapter CA-DC30E [17] or other typical USB charging methods	

ACCESSORIES		
Cases / Straps	Soft Case DCC-1880 PowerShot Accessory Organizer	
Waterproof / Weatherproof Case	Waterproof Case (40m) WP-DC55	
Flash	Canon High Power Flash HF-DC2	
Power Supply & Battery Chargers	Compact Power Adapter CA-DC30E Battery Charger CB-2LHE Rechargeable Li-ion Battery NB-13L	
Other	Interface cable IFC-600PCU	
PHYSICAL SPECIFICATIONS		
Operating Environment	0 – 40 °C, 10 – 90% humidity	
Dimensions (WxHxD)	105.5 x 60.9 x 42.2 mm	
Weight	Approx. 319 g (including battery and memory card)	
<p>All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated. Subject to change without notice.</p> <p>[1] Depending on the image size selected. [3] Under conditions where the flash does not fire. [4] Depending on memory card speed / capacity / compression setting. [6] Some settings limit availability. [7] The following Speed Class memory cards are required for maximum record time: (HD) 1280 x 720 Speed Class 4 or above. (Full HD) 1920 x 1080 Speed Class 6 or above. (iFrame) 1280 x 720 Speed Class 6 or above.</p> <p>[11] Wi-Fi use may be restricted in certain countries or regions. Wi-Fi support varies by device and region. For more information visit www.canon-europe.com/wirelesscompacts [13] Values at maximum optical focal length. Cameras whose focal length exceeds 350 mm (35 mm equivalent) are measured at 350 mm. [14] Image processing may cause a decrease in the number of pixels. [15] ISO sensitivity denotes Recommended Exposure Index [16] Auto ND Filter not available in Movie Mode. [17] Charging via USB requires Interface Cable IFC-600PCU (Sold separately) or similar cable with USB Micro-B to USB type-A connectors. Charging time varies depending on the remaining battery power. [18] Software applications compatible with Windows 10 in Windows 10 Desktop Mode only [19] Maximum shutter speed is limited at 256 s in BULB Mode</p> <p>[20] Sustained continuous shooting speed is tested based on Canon's testing standard. Function requires compatible SDHC/SDXC UHS Speed Class 1 memory card, total number of frames captured varies depending on shooting subject, settings and brand of memory card</p>		