DIGITAL CAMERA		PowerShot G7 X
IMAGE SENSOR		
	Type	1.0 type back-illuminated CMOS
	Effective Pixels	Approx. 20.2M (Aspect ratio 3:2) [14]
	Effective / Total Pixels	Approx. 20.9M
	Colour Filter Type	Primary Colour
IMAGE PROCESSOR		
	Type	DIGIC 6 with iSAPS technology
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. 3-stop [13]. Intelligent IS with 5-axis Enhanced Dynamic IS
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 (centre or linked to Touch AF frame)
	AE Lock	Yes, via customisable buttons
	Exposure Compensation	+/- 3 EV in 1/3 stop increments Manual and automatic dynamic range correction Automatic shadow correction ND Filter (3-stop)
	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 sec. (factory default) 250 – 1/2000 sec. (total range – varies by shooting mode)

WHITE BALANCE

	Type	TTL
	Settings	Auto (including Face Detection WB), Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom 1, Custom 2 Multi-area WB correction available in Smart Auto White Balance Compensation White Balance Compensation in Underwater mode Colour adjustment in Star mode

COLOUR MATRIX

	Type	sRGB

LCD MONITOR

	Monitor	Tilt type 7.5 cm (3.0") sRGB PureColor II G Touchscreen LCD (TFT). 3:2 aspect ratio. Approx. 1,040,000 dots. Capacitive type
	Coverage	Approx. 100%
	Brightness	Adjustable to one of five levels. Quick-bright LCD

FLASH

	Modes	Auto, Manual Flash On / Off, Slow Synchro
	Slow Sync Speed	Yes. Fastest speed 1/2000 sec.
	Red-Eye Reduction	Yes
	Flash Exposure Compensation	+/- 2 EV in 1/3 stop increments. Face Detection FE, Safety FE, Smart Flash Exposure
	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, Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Timer), Star (Star Nightscape, Star Trails, Star Portrait, Star Time-Lapse Movie), Handheld Night Scene, Underwater, Snow, Fireworks), Creative Filters (High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Monochrome, Super Vivid, Poster Effect), Movie
	Modes in Movie	Smart Auto (21 scenes detected), Standard, Program AE, Manual, Portrait, Nostalgic, Miniature Effect, Monochrome, Super Vivid, Poster Effect, Underwater, Snow, Fireworks, iFrame Movie
	Photo Effects	My Colors (My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color)
	Drive modes	Single, Auto Drive, Continuous, Continuous with AF, Self-Timer
	Continuous Shooting	Approx. 6.5 shots/sec for up to 692 frames [12] with AF: Approx. 4.4 shots/sec [3][4] with Live View: Approx. 4.4 shots/sec [3][4]

RECORDING PIXELS / COMPRESSION

	Image Size	3:2 - (RAW, L) 5472 x 3648, (M1) 4320 x 2880, (M2) 2304 x 1536, (S) 720 x 480 4:3 - (RAW, L) 4864 x 3648, (M1) 3840 x 2880, (M2) 2048 x 1536, (S) 640 x 480 16:9 - (RAW, L) 5472 x 3080, (M1) 4320 x 2432, (M2) 1920 x 1080, (S) 720 x 408 1:1 - (RAW, L) 3648 x 3648, (M1) 2880 x 2880, (M2) 1536 x 1536, (S) 480 x 480 4:5 - (RAW, L) 2912 x 3648, (M1) 2304 x 2880, (M2) 1232 x 1536, (S) 384 x 480 Resize in playback (M2, S)
	Compression	RAW, Superfine, Fine
	Movies	(Full HD) 1920 x 1080, 60 fps / 30 fps (HD) 1280 x 720, 30 fps (L) 640 x 480, 30 fps Star Time-Lapse Movie (Full HD) 30 fps / 15 fps Miniature Effect (HD, L) 6 fps, 3 fps, 1.5 fps Hybrid Auto (HD) 30 fps iFrame Movie (Full HD) 30 fps
	Movie Length	(Full HD & HD) Up to 4 GB or 29 min. 59 sec. [7] (L) Up to 4 GB or 1 hour [4] (Star Time-Lapse Movie) up to 128 sec

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, 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
	My Category	Image tagging feature
	Intelligent Orientation Sensor	Yes
	Histogram	Yes, live histogram
	Playback zoom	Approx. 2x – 10x
	Self Timer	Approx. 2 or 10 sec., 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 (MTP, PTP) DIGITAL connector
	Other	HDMI Micro Connector
		A/V output (PAL/NTSC)
	Computer/Other	Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only), with NFC support [11]

MEMORY CARD		
	Type	SD, SDHC, SDXC (UHS Speed Class 1 compatible)

SUPPORTED OPERATING SYSTEM		
	PC & Macintosh	Windows 8 / 8.1 / 7 SP1
		Mac OS X 10.8 / 10.9
		For Wi-Fi connection to a PC:
		Windows 8 / 8.1 / 7 SP1
		Mac OS X 10.8.2 or later / 10.9

SOFTWARE		
	Browsing & Printing	ImageBrowser EX
	Other	CameraWindow
		PhotoStitch
		Map Utility
	Image Manipulation	Digital Photo Professional for RAW development

POWER SOURCE		
	Batteries	Rechargeable Li-ion Battery NB-13L (battery and charger supplied)
	Battery life	Approx. 210 shots
		Eco mode approx. 310 shots
		Approx. 240 min. playback
	A/C Power Supply	Optional, AC Adapter Kit ACK-DC110

ACCESSORIES		
	Cases / Straps	Soft Case DCC-1870
		PowerShot Accessory Organizer
	Waterproof / Weatherproof Case	Waterproof Case (40m) WP-DC54
	Flash	Canon High Power Flash HF-DC2
	Power Supply & Battery Chargers	AC Adapter Kit ACK-DC110, Battery Charger CB-2LHE
	Other	Interface cable IFC-400PCU
		Canon AV cable AVC-DC400ST

PHYSICAL SPECIFICATIONS		
	Operating Environment	0 – 40 ℃, 10 – 90% humidity
	Dimensions (WxHxD)	103.0 x 60.4 x 40.4 mm
	Weight	Approx. 304 g (including battery and memory card)

All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated.

Subject to change without notice.

[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.

[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

[12] Sustained continuous shooting function requires compatible SDHC/SDXC UHS Speed Class 1 memory card, total number of frames captured varies depending on shooting subject.

[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