DIGITAL CAMERA	PowerShot G5 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 Advanced 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) 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 sec. (factory default) 1/8 - 1/2000 sec. (Movie Mode) BULB, 30 – 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 Colour adjustment in Star mode
COLOUR MATRIX	
Type	sRGB
Viewfinder	EVF (0.39 type), Approx. 2,360,000 dots, OLED type, sRGB colour reproduction
Viewfinder / Coverage	Approx. 100%
Eyepoint / Dioptre Correction	Approx. 22 mm (from eyepiece lens centre) -3.0 to +1 m-1 (dioptre)
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. 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 (up to 19 levels with external EX Speedlites 270EX II, 320EX, 430EX, 430EX II. 22 levels with 430EX III-RT, 580EX II and 600EX-RT [2])
	Second Curtain Synchronisation	Yes
	Built-in Flash Range	50 cm – 7.0 m (W) / 50 cm – 4.0 m (T)
	External Flash	E-TTL with EX series Speedlites [2] 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, Star (Star Nightscape, Star Trails, Star Portrait, 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), Movie
	Modes in Movie	Smart Auto (21 scenes detected), Standard, Program AE, Manual, Portrait, Nostalgic, Miniature Effect, Monochrome, Super Vivid, Poster Effect, Fireworks, Short Clip, 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. 5.9 shots/sec [12] with AF: Approx. 4.4 shots/sec (all speeds are until memory card becomes full) [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 Resize available in playback (M2, S) for JPEG images
	Compression	RAW, Superfine, Fine
	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 Star Time-Lapse Movie (Full HD) 29.97 / 25 / 14.99 / 12.5 fps Miniature Effect (HD, L) 6 / 3 / 1.5 fps Hybrid Auto (HD) 29.97 / 25 fps iFrame Movie (Full HD) 29.97 / 25 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 (14bit, 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, live histogram
	Playback zoom	Yes, enabled in 10 steps
	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 Remote Switch 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 / 8.1 / 7 SP1 [18] Mac OS X 10.9 / 10.10
		For Wi-Fi connection to a PC: Windows 10 / 8 / 8.1 / 7 SP1 Mac OS X 10.9 / 10.10
		For Image Transfer Utility: Windows 10 / 8 / 8.1 / 7 SP1 Mac OS X 10.9 / 10.10

SOFTWARE		
	Other	CameraWindow DC Map Utility Image Transfer Utility Camera Connect 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. 210 shots Aprrox. 215 shots with in-built EVF Eco mode approx. 320 shots Approx. 240 min. playback
	A/C Power Supply	Optional, AC Adapter Kit ACK-DC110 Charging via USB available with Compact Power Adaptor CA-DC30E [17]

ACCESSORIES		
	Cases / Straps	Camera Jacket DCC-1850 Neck Strap NS-DC12 PowerShot Accessory Organizer
	Flash	Canon Speedlite (including 270EX, 270EX II, 320EX, 430EX, 430EX II, 430EX III-RT, 580EX, 580EX II and 600EX-RT [2]) Speedlite Transmitter (ST-E3-RT, ST-E2) Speedlite bracket SB-E2 Off-Camera Shoe Cord OC-E3 Canon High Power Flash HF-DC2
	Remote Controller/ Switch	Remote Switch RS-60E3
	Power Supply & Battery Chargers	AC Adapter Kit ACK-DC110, Compact Power Adaptor CA-DC30E, Battery Charger CB-2LHE
	Other	Interface cable IFC-600PCU

PHYSICAL SPECIFICATIONS		
	Operating Environment	0 – 40 °C, 10 – 90% humidity
	Dimensions (WxHxD)	112.4 x 76.4 x 44.2 mm
	Weight	Approx. 377 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.

[2] Not all functions of the flash are supported.

[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

[16] Auto ND Filter not avaliable in Movie Mode.

[17] Charging via USB requires Interface Cable IFC-600PCU (Sold seperately) or similar cable with USB Micro-B to USB type-A connectors

[18] Software applications compatible with Windows 10 in Windows 10 Desktop Mode only