

DIGITAL CAMERA		PowerShot G3 X
<b>IMAGE SENSOR</b>		
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	
<b>IMAGE PROCESSOR</b>		
Type	DIGIC 6 with iSAPS technology	
<b>LENS</b>		
Focal Length	8.8 – 220 mm (35 mm equivalent: 24 – 600 mm)	
Zoom	Optical 25x ZoomPlus 50x Digital Approx. 4x (with Digital Tele-Converter approx. 1.6x or 2.0x [1]) Combined approx. 100x	
Maximum f/number	f/2.8-f/5.6	
Construction	18 elements in 13 groups (1 double sided aspherical UA lens, 2 single sided aspherical UA lenses, 1 single sided aspherical lens, 2 UD lenses and 1 Hi-UD lens)	
Image Stabilisation	Yes (lens shift-type), approx. 3.5-stop [13]. Intelligent IS with 5-axis Advanced Dynamic IS	
<b>FOCUSING</b>		
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	
AF Assist Beam	Yes	
Manual Focus	Yes, plus MF Peaking & AF + MF	
Focus Bracketing	Yes	
Closest Focusing Distance	5 cm (Wide) from front of lens 85 cm (Tele) from front of lens	
<b>EXPOSURE CONTROL</b>		
Metering modes	Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (centre or linked to Touch AF frame)	
AE Lock	Yes	

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 - 6400 (possible to set Max. ISO speed and rate of change)
<b>SHUTTER</b>	
Speed	1 – 1/2000 sec. (factory default) BULB, 30 – 1/2000 sec. (total range – varies by shooting mode)
<b>WHITE BALANCE</b>	
Type Settings	TTL Auto (including Face Detection WB), Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom 1, Custom 2 Multi-area WB correction available in Smart Auto White Balance Compensation Colour adjustment in Star mode
<b>COLOUR MATRIX</b>	
Type Viewfinder	sRGB Optional Electronic Viewfinder EVF-DC1
<b>LCD MONITOR</b>	
Monitor	Tilt type 8.0 cm (3.2") sRGB PureColor II G Touchscreen LCD (TFT). 3:2 aspect ratio. Approx. 1,620,000 dots. Capacitive type
Coverage Brightness	Approx. 100% Adjustable to one of five levels. Quick-bright LCD
<b>FLASH</b>	
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 and 430EX II. 22 levels with 580EX II, 600EX and 600EX-RT [2])

	Second Curtain Synchronisation	Yes
	Built-in Flash Range	60 cm – 6.8 m (W) / 85 cm – 3.1 m (T)
	External Flash	E-TTL with EX series Speedlites [2]
<b>SHOOTING</b>		
	Modes	Smart Auto (58 scenes detected), Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom 1, Custom 2, Hybrid Auto, Creative Shot, SCN (Sports, Portrait, Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Timer), Star (Star Nightscape, Star Trails, Star Time-Lapse Movie), Handheld Night Scene, 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, Snow, 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. 3.2 shots/sec  (all speeds are until memory card becomes full)[3][4]
<b>RECORDING PIXELS / COMPRESSION</b>		
	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)

Compression Movies	RAW, Superfine, Fine (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) 30/15 fps Miniature Effect (HD, L) 6 fps, 3 fps, 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
<b>FILE TYPES</b>	
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
<b>DIRECT PRINT</b>	
Canon Printers	Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge
PictBridge	Yes (via USB or Wireless LAN)
<b>OTHER FEATURES</b>	
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 Mini Connector A/V output (PAL/NTSC) External microphone (3.5 mm Stereo mini jack) Headphone Output (3.5 mm jack)
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 8 / 8.1 / 7 SP1 Mac OS X 10.8 / 10.9 / 10.10  For Wi-Fi connection to a PC: Windows 8 / 8.1 / 7 SP1 only Mac OS X 10.8.2 or later / 10.9 / 10.10  For Image Transfer Utility: Windows 8 / 8.1 / 7 SP1 only Mac OS X 10.8.2 or later / 10.9 / 10.10
SOFTWARE		
Other		CameraWindow DC Map Utility Image Transfer Utility
Image Manipulation		Digital Photo Professional for RAW development
POWER SOURCE		
Batteries		Rechargeable Li-ion Battery NB-10L (battery and charger supplied)
Battery life		Approx. 300 shots Approx. 240 shots with EVF-DC1  Eco mode approx. 410 shots Approx. 360 min. playback
A/C Power Supply		Optional, AC Adapter Kit ACK-DC80
ACCESSORIES		
Cases / Straps		Soft Case DCC-2300 PowerShot Accessory Organizer
Lenses		Lens Hood LH-DC100 Filter Adapter FA-DC67B (Compatible with Canon 67mm Filters: Circular Polarizing PL-C B, Protect Filter)

Flash	Canon Speedlite (including 270EX, 270EX II, 320EX, 430EX, 430EX II, 580EX, 580EX II, 600EX, 600EX-RT [2])
Remote Controller/ Switch	Speedlite Transmitter (ST-E3-RT, ST-E2), Speedlite bracket SB-E2, Off-Camera Shoe Cord OC-E3 Remote Switch RS-60E3
Power Supply & Battery Chargers	AC Adapter Kit ACK-DC80, Battery Charger CB-2LCE
Other	Electronic Viewfinder EVF-DC1 (0.48 type), 4:3 aspect ratio, Approx. 2,360,000 dots, 100% coverage  Interface cable IFC-400PCU Canon HDMI Cable HTC-100

#### PHYSICAL SPECIFICATIONS

Operating Environment	0 – 40 °C, 10 – 90% humidity
Dimensions (WxHxD)	123.3 x 76.5 x 105.3 mm
Weight	Approx. 733 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](http://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