TECHNICAL SPECIFICATIONS

PowerShot G7X Mark III

IMAGE SENSOR

Type	1.0 type stacked CMOS
Effective Pixels	Approx. 20.1M (Aspect ratio 3:2) [14]
Total Pixels	Approx. 20.9M
Colour Filter Type	Primary Colour

IMAGE PROCESSOR

Type	DIGIC 8

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 [11]) 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 (Expanded: 25600) [15] AUTO ISO: 125 - 12800 (possible to set Max. ISO speed and rate of change)

SHUTTER

Speed	1 – 1/2000 s (factory default) 30 - 1/25600 s (electronic shutter) 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 (Ambience priority / White priority), Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash, Custom, Color temp (Kelvin) White Balance Compensation Colour adjustment in Star mode

COLOUR MATRIX

Type	sRGB

LCD MONITOR

Monitor	Tilt type 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
X-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	Auto, Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom, Hybrid Auto, 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
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. 20.0 shots/s for up to 89 frames in C-RAW, 55 frames in RAW, and 118 frames in JPEG With AF: Approx. 8 shots/s for up to 320 frames in JPEG [3] [20] RAW Burst Mode: Approx 30shots/s for Approx 70 frames

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, C-RAW, Fine/Normal JPEG
Movies	(4K) 3840 x 2160, 29.97 / 25fps (Full HD) 1920 x 1080, , 119.9 / 100 / 59.94 / 50 / 29.97 / 25 fps (HD) 1280 x 720, 50 fps Vertical movie aspect available
Movie Length	(4K) Up to 9 min 59 s (Full HD & HD) Up to 4 GB or 29 min 59 s [7]

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TECHNICAL SPECIFICATIONS

PowerShot *G7X* Mark III

FILE TYPES

Still Image Type — JPEG compression (Exif 2.31 [Exif Print] compliant) / Design rule for Camera File system and DPOF ver. 1.1 compliant), RAW (14bit, Canon original RAW 3rd edition), RAW+JPEG

Movies — MP4 [Video: MPEG-4 AVC / H.264, Audio: MPEG-4 AAC-LC (stereo)]

DIRECT PRINT

Canon Printers — Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge

PictBridge — Yes (via USB or Wireless LAN)

OTHER FEATURES

Microphone input — Yes, 3.5mm
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, Persian, Portuguese, Russian, Swedish, Spanish, Ukrainian, Polish, Czech, Hungarian, Turkish, Simplified Chinese, Chinese (traditional), Japanese, Korean, Thai, Arabic, Romanian, Hindi, Malay, Persian, Indonesian, Vietnamese, Hebrew

INTERFACE

Computer — Hi-Speed USB dedicated connector (USB C)
Other — HDMI Micro (Type-D) Connector
Computer/Other — Wi-Fi (IEEE802.11b/g/n), (2.4 GHz only)

MEMORY CARD

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

SUPPORTED OPERATING SYSTEM

PC & Macintosh — For version information see relevant software pages

For Wi-Fi connection to a PC:
Windows
MacOS

For Image Transfer Utility:
Windows
MacOS [18]

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. 320 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 — PowerShot Accessory Organizer
Flash — Canon High Power Flash HF-DC2
Remote Controller/ Switch — Wireless Remote Control BR-E1
Power Supply & Battery Chargers — USB Power Adapter PD_E1
Battery Charger CB-2LHE
Rechargeable Li-ion Battery NB-13L
Other — Interface Cable IFC-100U

PHYSICAL SPECIFICATIONS

Operating Environment — 0 – 40 °C, 10 – 90% humidity
Dimensions (W x H x D) — 105.5 x 60.9 x 41.4 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.

Footnotes
[1] Depending on the image size selected.
[2] Some settings limit availability.
[3] 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.
[4] Values at maximum optical focal length. Cameras whose focal length exceeds 350 mm (35 mm equivalent) are measured at 350 mm.
[5] Image processing may cause a decrease in the number of pixels.
[6] ISO sensitivity denotes Recommended Exposure Index
[7] Auto ND Filter not available in Movie Mode.
[8] 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.
[9] Software applications compatible with Windows 10 in Windows 10 Desktop Mode only
[10] Maximum shutter speed is limited at 256 s in BULB Mode

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