

## Canon PowerShot G7 X Mark II Specifications

### Image Sensor

Type  
1.0 type stacked CMOS

Effective Pixels  
Approx. 20.1M (Aspect ratio 3:2)<sup>1</sup>

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<sup>2</sup>)  
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<sup>3</sup>.  
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<sup>4</sup>, 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 <sup>5</sup>

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) <sup>6</sup>

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) <sup>7</sup>

## 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, Fireworks, Panoramic shot), 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

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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 <sup>10</sup>

## 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 (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 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, Hindi, Malay, Indonesian, Vietnamese, Hebrew

## Interface

Computer

USB type C connector

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

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## Software

Other

Image Transfer Utility 2

Camera Connect app available on iOS and Android devices

Image Manipulation

Digital Photo Professional (DPP) for RAW development

DPP Express for mobile 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 USB Power Adapter PD-E1

## Accessories

### Cases / Straps

Soft Case DCC-1880

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

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

Subject to change without notice.

1. Image processing may cause a decrease in the number of pixels.
2. Depending on the image size selected.
3. Values at maximum optical focal length. Cameras whose focal length exceeds 350 mm (35 mm equivalent) are measured at 350 mm.
4. Some settings limit availability.
5. Auto ND Filter not available in Movie Mode.
6. ISO sensitivity denotes Recommended Exposure Index
7. Maximum shutter speed is limited at 256 s in BULB Mode
8. Under conditions where the flash does not fire.
9. Sustained continuous shooting speed is tested based on Canon's testing standard. Function requires compatible UHS-I Speed Class 3 memory card, total number of frames captured varies depending on shooting subject, settings and brand of memory card
10. The following Speed Class memory cards are required for maximum record time: (HD) 1280 x 720 SD Speed Class 4 or above. (Full HD) 1920 x 1080 SD Speed Class 6 or above. (4K) 3840 x 2160 UHS-I Speed class 3
11. Software applications compatible with Windows 10 in Windows 10 Desktop Mode only