

Canon PowerShot G5 X Mark II

Image Sensor

Type

1.0 type stacked CMOS

Effective Pixels

Approx. 20.1M (Aspect ratio 3:2) ¹

Total Pixels

Approx. 20.9M

Colour Filter Type

Primary Colour

Image Processor

Type

DIGIC 8

Lens

Focal Length

8.8 – 44 mm (35 mm equivalent: 24 – 120 mm)

Zoom

Optical 5x

ZoomPlus 10x

Digital Approx. 4x (with Digital Tele-Converter approx. 1.6x or 2.0x) ²

Combined approx. 20x

Maximum f/number

f/1.8-f/2.8

Construction

13 elements in 11 groups (3 double sided aspherical UA lens, 1 single sided aspherical UA lens and 1 UD lens)

Image Stabilisation

Yes (lens shift-type), approx. 4-stop ³.

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 ⁴, 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

20 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 ⁵

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) ⁶

AUTO ISO: 125 - 12800 (possible to set Max. ISO speed and rate of change) ⁷

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) ⁷

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

Viewfinder

Viewfinder
EVF (0.39 type), Approx. 2,360,000 dots, OLED type, sRGB colour reproduction

Viewfinder / Coverage
Approx. 100%

Eyepoint / Dioptre Correction
Approx. 20 mm (from eyepiece lens centre)
-3.0 to +1 m-1 (dioptr)

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 Correction
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 ^{8 9}

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

Movie Length

(4K) Up to 9 min 59 s

(Full HD & HD) Up to 4 GB or 29 min 59 s ¹⁰

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

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, 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

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 ¹¹

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. 230 shots
Approx. 180 shots with EVF
Eco mode approx. 320 shots
Approx. 300 min playback

A/C Power Supply

Charging via USB available with Compact Power Adapter CA-DC30E ¹² or other typical USB charging methods

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 SDHC/SDXC UHS Speed Class 1 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 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. Software applications compatible with Windows 10 in Windows 10 Desktop Mode only
12. 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.