



PowerShot G12
Specification Sheet

| IMAGE SENSOR | | |
|------------------|--------------------------------|--|
| | Type | 1/1.7 type CCD |
| | Effective Pixels | Approx. 10.0M |
| | Colour Filter Type | Primary Colour |
| IMAGE PROCESSOR | | |
| | Type | DIGIC 4 with iSAPS technology |
| LENS | | |
| | Focal Length | 6.1 – 30.5 mm (35 mm equivalent: 28 – 140 mm) |
| | Zoom | Optical 5x. Digital Approx. 4x (with Digital Tele-Converter Approx. 1.4x or 2.3x and Safety Zoom [1]) [2]. Combined Approx. 20x |
| | Maximum f/number | f/2.8-f/4.5 |
| | Construction | 11 elements in 9 groups (1 double-sided aspherical element) |
| | Image Stabilisation | Yes (lens shift-type), 4-stop, Hybrid IS |
| FOCUSING | | |
| | Type | TTL |
| | AF System/ Points | AiAF (Face Detection / 9-point), 1-point AF (Any position is available, fixed centre or Face Select and Track) |
| | AF Modes | Single, Continuous (only available in Auto mode), Servo AF/AE[10], Tracking AF |
| | AF Point Selection | Manual selection using FlexiZone AF/AE, Size (Normal, Small) |
| | AF Lock | On/Off Selectable |
| | AF Assist Beam | Yes |
| | Manual Focus | Yes |
| | Focus Bracketing | Yes |
| | Closest Focusing Distance | 1 cm (W) from front of lens in macro |
| EXPOSURE CONTROL | | |
| | Metering Modes | Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (centre or linked to Face Detection AF or FlexiZone AF frame) |
| | AE Lock | Yes |
| | Exposure Compensation | +/- 2 EV in 1/3 stop increments Enhanced i-Contrast for automatic dynamic range correction ND Filter (3 stop) |
| | AEB | 1/3 – 2 EV in 1/3 stop increments |
| | ISO Sensitivity [3] | AUTO, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200 |
| SHUTTER | | |
| | Speed | 1 – 1/4000 sec. (factory default) 15 – 1/4000 sec. (total range – varies by shooting mode) |
| WHITE BALANCE | | |
| | Type | TTL |
| | Settings | Auto (including Face Detection WB), Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom1, Custom2. White Balance Correction |
| VIEWFINDER | | |
| | Viewfinder | Real-image zoom, optical viewfinder |
| | Dioptre Correction | Yes |
| LCD MONITOR | | |
| | Monitor | Vari-angle 7.0 cm (2.8") PureColor II VA (TFT), Approx. 461,000 dots |
| | Coverage | Approx. 100% |
| | Brightness | Adjustable to one of five levels. Quick-bright LCD |
| FLASH | | |
| | Modes | Auto, Manual Flash On / Off |
| | 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. |
| | Flash Exposure Lock | Yes |
| | Manual Power Adjustment | 3 levels with internal flash (up to 19 levels with external EX Speedlites 270EX and 430EX II. 22 levels with 580EX II [4]) |
| | Second Curtain Synchronisation | Yes |
| | Built-in Flash Range | 50 cm – 7.0 m (W) / 4.0 m (T) |
| | External Flash | E-TTL with EX series Speedlites [4], Macro Twin Lite MT-24EX, Macro Ring Lite MR-14EX, Canon High Power Flash HF-DC1 |

| SHOOTING | | |
|--------------------------------|------------------------------------|--|
| | Modes | Auto*, Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom (2 modes), Low Light (2.5MP), Quick Shot, SCN (Portrait, Landscape, Kids & Pets, Sports, Smart Shutter(Smile, Wink Self-Timer, FaceSelf-Timer), Super Vivid, Poster Effect, Foliage, Snow, Beach, Fireworks, Underwater, Color Accent, Color Swap, High Dynamic Range, Fish-eye Effect, Miniature Effect, Nostalgic, Stitch Assist), Movie *with Scene Detection Technology and Motion Detection Technology |
| | 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 Continuous Shooting | Single, Continuous, Self-Timer Approx. 2.0 shots/sec.[6], AF: Approx. 0.7 shots/sec.[6], LV: Approx. 0.8 shots/sec.[6] (until memory card becomes full) [7] |
| RECORDING PIXELS / COMPRESSION | | |
| | Image Size | 4:3 - (L & RAW) 3648 x 2736, (M1) 2816 x 2112, (M2) 1600 x 1200, (S) 640 x 480, Resize in playback (M2, S, 320 x 240) 16:9 - (L) 3648 x 2048, (M1) 2816 x 1584, (M2) 1920 x 1080, (S) 640 x 360 3:2 - (L) 3648 x 2432, (M1) 2816 x 1880, (M2) 1600 x 1064, (S) 640 x 424 1:1 - (L) 2736 x 2736, (M1) 2112 x 2112, (M2) 1200 x 1200, (S) 480 x 480 4:5 - (L) 2192 x 2736, (M1) 1696 x 2112, (M2) 960 x 1200, (S) 384 x 480 |
| | Compression | Fine, Normal |
| | Movies | (HD) 1280 x 720, 24 fps, (L) 640 x 480, 30 fps, (M) 320 x 240, 30 fps |
| | Movie Length | Miniature Effect (HD, L) 6fps, 3fps, 1.5 fps Up to 4 GB or 29 min. 59 sec. (HD) [11] Up to 4 GB or 1 hour (L, M) [7] |
| FILE TYPES | | |
| | Still Image Type | JPEG compression, (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system, RAW, Digital Print Order Format [DPOF] Version 1.1 compliant |
| | Movies | MOV [H.264 + Linear PCM (stereo)] |
| DIRECT PRINT | | |
| | Canon Printers | Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge (ID Photo Print, Fixed Size Print and Movie Print supported on SELPHY CP & ES printers only) |
| | PictBridge | Yes |
| OTHER FEATURES | | |
| | Red-Eye Correction | Yes, during shooting and playback |
| | My Camera / My Menu | Start-up image and camera sounds customisation. Menu customisation |
| | My Category | Image tagging feature |
| | Intelligent Orientation Sensor | Yes |
| | Histogram | Yes, live histogram |
| | Playback Zoom | Approx. 2x - 10x |
| | Self Timer | Custom |
| | Menu Languages | English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Traditional Chinese, Japanese, Russian, Portuguese, Korean, Greek, Polish, Czech, Hungarian, Turkish, Thai, Arabic, Ukrainian, Romanian, Farsi |

| | | |
|-----------------------------------|---------------------------------|--|
| INTERFACE | | |
| | Computer | Hi-Speed USB (MTP, PTP) dedicated connector (Mini-B compatible) |
| | Other | HDMI Mini Connector (HDMI-CEC compatible) A/V output (PAL/NTSC) |
| MEMORY CARD | | |
| | Type | SD, SDHC, SDXC, MMC, MMCplus, HCMMCplus |
| SUPPORTED OPERATING SYSTEM | | |
| | PC & Macintosh | Windows 7/ Vista SP1-2/ XP SP3 Mac OS X v10.4 – 10.6 |
| SOFTWARE | | |
| | Browsing & Printing | ZoomBrowser EX / ImageBrowser |
| | Other | PhotoStitch |
| | Image Manipulation | Digital Photo Professional for RAW development |
| POWER SOURCE | | |
| | Batteries | Rechargeable Li-ion Battery NB-7L (NB-7L battery and charger supplied) |
| | Battery Life | Approx. 370 shots [8] Approx. 420 min. playback |
| | A/C Power Supply | Optional, AC Adapter Kit ACK-DC50 |
| ACCESSORIES | | |
| | Cases / Straps | Soft Case DCC-660, SC-DC65A, DCC-1600 |
| | Waterproof / Weatherproof Case | Waterproof Case (40m) WP-DC34, Waterproof Case Weight WW-DC1 |
| | Lenses | Tele-converter 1.4x TC-DC58D Lens Adapter LA-DC58K Filter Adapter FA-DC58B (Compatible with Canon 58mm Filters: Circular Polarizing PL-C B, Neutral Density Filter ND4X-L & ND8X-L, Protect, UV, Softmat No.1 & 2) |
| | Flash | Canon Speedlites (including 220EX, 270EX, 430EX II, 580EX II [4]), Macro Twin Lite MT-24EX, Macro Ring Lite MR-14EX, Speedlite Transmitter ST-E2, Off-Camera Shoe Cord OC-E3, Bracket BKT-DC1, Speedlite Bracket SB-E2, High Power Flash HF-DC1 |
| | Remote Controller/ Switch | Remote Switch RS-60E3 |
| | Power Supply & Battery Chargers | AC Adapter Kit ACK-DC50, Battery Charger CB-2LZE |
| | Other | Ring Accessory Kit RAK-DC2 Canon HDMI Cable HTC-100 |
| PHYSICAL SPECIFICATIONS | | |
| | Operating Environment | 0 – 40 °C, 10 – 90% humidity |
| | Dimensions (WxHxD) | 112.1 x 76.2 x 48.3 mm |
| | Weight | Approx. 401g (including battery/batteries 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] Digital zoom available for still image and standard movie modes only. Optical zoom may not be available during movie recording.

[3] Standard Output Sensitivity / Recommended Exposure Index. According to ISO 12232:2006 (20th April 2006) which specifies the method for assigning and reporting ISO speed ratings for digital still cameras.

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

[6] Under conditions where the flash does not fire.

[7] Depending on memory card speed / capacity / compression setting.

[8] Using the batteries and memory card format supplied with the camera (where included), except where

[10] Some settings limit availability.

[11] The following Speed Class memory cards are required for maximum record time: 1280 x 720, 30 fps Speed Class 4 or above. 1920 x 1080, 30 fps Speed Class 6.