**LAPTOP**

**ACER G9-593**

**Processor:**2.6GHz Intel Core i7-6700HQ (quad-core, 6MB Cache, up to 3.5GHz),  
**Graphics:** Nvidia GeForce GTX 1060 (6GB GDDR5); Intel Graphics 530,  
**RAM:**16GB DDR4 (2,400MHz, 64GB max),  
**Screen:** 15.6-inch Full HD (1,920 x 1,080) Active Matrix TFT Color LCD,  
**Storage:** 256GB M.2 SATA III SSD, 1TB HDD (7,200 RPM),  
**Ports:** 4 x USB 3.0 ports, 1 x USB-C Thunderbolt 3 port, HDMI, DisplayPort, Ethernet, SD card slot, headphone jack, microphone jack,

**ACER SPIN 7**

**Processor:**1.3GHz Intel Core i7-7Y75 (dual-core, 4MB cache, up to 3.6GHz)  
**Graphics:**Intel HD Graphics 615  
**RAM:** 8GB LPDDR3   
**Screen:**14-inch, 1920 x 1,080 FHD IPS  
**Storage:** 256GB SSD (SATA)  
**Ports:** 2 x USB 3.1 Type-C ports, Headphone/mic jack

**ASUS K501UW**

**Processor:** Intel Core i7-6500U 2.5GHz  
**Operating System:** Windows 10  
**Memory:** 8GB DDR4  
**Display:** 15.6-inch 16:9 UHD IPS Display  
**Graphic:** nVidia GTX960 4GB GDDR5 VRAM  
**Storage:** 512GB SSD   
**Ports:** 1 x COMBO audio jack , 2 x USB 3.0 port(s), 2 x USB 2.0 port(s),1 x RJ45 LAN Jack for LAN insert, 1 x HDMI, 1 x SD card reader

**ASUSPRO P5430UF-FA0048R**

**Processor:** Intel® Core™ i7 6500U Processor,   
**Operating System:** Windows 10 Pro  
**Memory:** 4 GB DDR4 2133MHz SDRAM Onboard Memory, 1 x SO-DIMM socket , up to 12 GB SDRAM  
**DISPLAY:** 14.0" (16:9) LED backlit HD (1366x768) Glare Panel with 45% NTSC   
**GRAPHIC:** NVIDIA , with 2GB VRAM  
**STORAGE:** 256GB SATA3 SSD  
**PORTS:** 1 x Microphone-in/Headphone-out jack , 1 x VGA port/Mini D-sub 15-pin for external monitor, 1 x USB 3.1 TYPE C port(s), 2 x USB 3.0 port(s), 1 x USB 2.0 port(s), 1 x RJ45 LAN Jack for LAN insert, 1 x mini Display Port

**INKJET PRINTER**

**Brother MFC-T800W**

**FUNCTIONS**:Print,Scan,Copy,Fax  
**TANK TYPE:** YES  
**PRINTER TYPE:** Inkjet  
**PRINT SPEED:** Fast print speeds up to 27/10 ppm (mono/colour) in Fast Mode Up to 11/6ipm (mono/colour) based on ISO/IEC 24734  
**PAPER SIZE:** A4, Legal, Executive, Letter, JIS B5, A5, A6, Envelopes (Com-10, DL, C5, Monarch), Photo (10 × 15 cm), Photo 2L (13 × 18 cm) and Index Card (127 × 203 mm)  
**WARRANTY:**1 year

**EPSON L565**

**FUNCTION :** Print,Scan,Copy,Fax  
**TANK TYPE:** YES  
**PRINTER TYPE:** Inkjet  
**PRINT SPEED:** 33 pages/min Monochrome (plain paper 75 g/m²), 15 pages/min Colour (plain paper 75 g/m²), 69 Seconds per 10 x 15 cm photo (Epson Premium Glossy Photo Paper)  
**PAPER SIZE:** A4, A5, A6, B5, C6 (Envelope), DL (Envelope), No. 10 (Envelope), Letter, 10 x 15 cm, 13 x 18 cm, 16:9, User defined, Legal

**EPSON L565**

**FUNCTION :** Print,Scan,Copy,Fax  
**TANK TYPE:** YES  
**PRINTER TYPE:** Inkjet  
**PRINT SPEED:** 33 pages/min Monochrome (plain paper 75 g/m²), 15 pages/min Colour (plain paper 75 g/m²), 69 Seconds per 10 x 15 cm photo (Epson Premium Glossy Photo Paper)  
**PAPER SIZE:** A4, A5, A6, B5, C6 (Envelope), DL (Envelope), No. 10 (Envelope), Letter, 10 x 15 cm, 13 x 18 cm, 16:9, User defined, Legal

**CANON G4000**

**FUNCTION :** Print,Scan,Copy,Fax **TANK TYPE:** YES **PRINTER TYPE:** Inkjet **PRINT SPEED:** 8.8 ipm  
**PAPER SIZE:** A4, A5, B5, LTR, LGL, 4 x 6", 5 x 7", 8 x 10", Envelopes (DL, COM10, Square (5 x 5")), Business Card, Custom size (width 55 - 215.9mm, length 89 - 676mm)

**EPSON L565**

**FUNCTION :** Print,Scan,Copy,Fax  
**TANK TYPE:** YES  
**PRINTER TYPE:** Inkjet  
**PRINT SPEED:** 33 pages/min Monochrome (plain paper 75 g/m²), 15 pages/min Colour (plain paper 75 g/m²), 69 Seconds per 10 x 15 cm photo (Epson Premium Glossy Photo Paper)  
**PAPER SIZE:** A4, A5, A6, B5, C6 (Envelope), DL (Envelope), No. 10 (Envelope), Letter, 10 x 15 cm, 13 x 18 cm, 16:9, User defined, Legal

**EPSON L565**

**FUNCTION :** Print,Scan,Copy,Fax  
**TANK TYPE:** YES  
**PRINTER TYPE:** Inkjet  
**PRINT SPEED:** 33 pages/min Monochrome (plain paper 75 g/m²), 15 pages/min Colour (plain paper 75 g/m²), 69 Seconds per 10 x 15 cm photo (Epson Premium Glossy Photo Paper)  
**PAPER SIZE:** A4, A5, A6, B5, C6 (Envelope), DL (Envelope), No. 10 (Envelope), Letter, 10 x 15 cm, 13 x 18 cm, 16:9, User defined, Legal

**WIRELESS ROUTER  
  
DLINK DIR-890L**

**PORTS:** LAN-(4) Gigabit, WAN-(1) Gigabit  
 **USB 3.0**: Up to 10x faster than USB 2.0  
 **802.11g, 802.11n,802.11ac compatible:** Yes

**ASUS RT AC1200G+**

**PORTS:** RJ45 for 10/100/1000 BaseT for WAN x 1, RJ45 for 10/100/1000 BaseT for WAN x 4  
USB 2.0 x 1  
**USB 2.0**: 1 **802.11g, 802.11n,802.11ac compatible:** Yes

**ASUS RT-AC55UHP**

**PORTS:** RJ45 for 10/100/1000/Gigabits BaseT for WAN x 1, RJ45 for 10/100/1000/Gigabits, BaseT for LAN x 4, USB  
2.0 x 1, USB 3.0 x 1  
**USB 3.0: 1  
USB 2.0: 1  
802.11g, 802.11n,802.11ac compatible:** Yes  
**OTHERS:** AiCloud personal cloud service  
3G/4G data sharing  
Printer Server  
- Multifunctional printer support (Windows only)  
- LPR protocol support

**LINKSYS AE6900  
  
PORTS:** 1x Gigabit WAN (10/100/1000), 4x Gigabit LAN (10/100/1000), 1x USB 2.0 + 1x USB 3.0  
**USB 3.0: 1  
USB 2.0: 1  
802.11g, 802.11n,802.11ac compatible:** Yes

**ASUS RT AC1200G**

**PORTS:** RJ45 for 10/100/1000 BaseT for WAN x 1, RJ45 for 10/100/1000 BaseT for WAN x 4  
USB 2.0 x 1  
**USB 2.0**: 1 **802.11g, 802.11n,802.11ac compatible:** Yes

**LINKSYS E2500**

**PORTS:** Internet, Ethernet (1-4), Power  
**USB PORT**: YES **802.11g, 802.11n,802.11ac compatible:** Yes

**SMART TV**

**SONY KD-65X7500D  
  
65":** 65 inch (64.5 inch) [165.1 cm (163.83 cm)] **High Definition (3,840 x 2,160):** 4K Ultra HD (3,840 x 2,160) **SMART Features:** YES **Ethernet and Wireless Connectivity:** YES **USB, HDMI and AV port WITH Wall Mount Provision:**YES **Multi-System Compatible:** YES

**SONY KD-65X7500D  
65":** 65 inch (64.5 inch) [165.1 cm (163.83 cm)] **High Definition (3,840 x 2,160):** 4K Ultra HD (3,840 x 2,160) **SMART Features:** YES **Ethernet and Wireless Connectivity:** YES **USB, HDMI and AV port WITH Wall Mount Provision:**YES **Multi-System Compatible:** YES

**SAMSUNG 65KU6000  
  
65":** 70” UHD 4K Flat **High Definition (3,840 x 2,160):** 3840 x 2160 **SMART Features:** Yes **Ethernet and Wireless Connectivity:** Yes **USB, HDMI and AV port WITH Wall Mount Provision:** Yes **Multi-System Compatible:** Yes

**SONY KD-65X7500D  
  
65":** 65 inch (64.5 inch) [165.1 cm (163.83 cm)] **High Definition (3,840 x 2,160):** 4K Ultra HD (3,840 x 2,160) **SMART Features:** YES **Ethernet and Wireless Connectivity:** YES **USB, HDMI and AV port WITH Wall Mount Provision:**YES **Multi-System Compatible:** YES

**SONY KD-65X7500D**

**65":** 65 inch (64.5 inch) [165.1 cm (163.83 cm)] **High Definition (3,840 x 2,160):** 4K Ultra HD (3,840 x 2,160) **SMART Features:** YES **Ethernet and Wireless Connectivity:** YES **USB, HDMI and AV port WITH Wall Mount Provision:**YES **Multi-System Compatible:** YES

**TABLET  
  
APPLE IPAD AIR 2**

**Operating System:** iOS 8.1, upgradable to iOS 10.3.2 **Storage:** 16/32/64/128 GB, 2 GB RAM **Wifi:** Yes **With Installed MS Office Application:**

**APPLE IPAD MINI 4**

**Operating System:** IOS 10 **Storage:** 128GB **Wifi:** YES **With Installed MS Office Application:  
  
APPLE IPAD PRO**

**Operating System:** IOS 10 **Storage:** 64GB, 256GB, 512GB **Wifi:** YES **With Installed MS Office Application:  
  
  
LENOVO YOGABOOK**

**Operating System:** Android 6.0 **Storage:** Internal Storage (64GB), Expandable Storage up to 128GB **Wifi:** Yes **With Installed MS Office Application:**

**APPLE IPAD PRO**

**Operating System:** IOS 10 **Storage:** 64GB, 256GB, 512GB **Wifi:** YES **With Installed MS Office Application:  
  
APPLE IPAD AIR 2**

**Operating System:** iOS 8.1, upgradable to iOS 10.3.2 **Storage:** 16/32/64/128 GB, 2 GB RAM **Wifi:** Yes **With Installed MS Office Application:**

**NETWORK ATTACHED STORAGE  
  
D-Link DNS-343 4-Bay NETWORK STORAGE**

**Hard Drive:** 8TB  
 **4 Hard disk bay** : YES  
 **2 Lan Port (Gigabit interface)**: 1 x 10/100/1000 Gigabit Ethernet  
 **USB and HDMI port:** No HDMI port  
 **With file and media server**: Yes  
 **Windows and Mac Compatible:** Yes

**SYNOLOGY DS416J**

**Hard Drive:** 6TB  
 **4 Hard disk bay** : YES  
 **2 Lan Port (Gigabit interface)**: 1 x RJ-45 1GbE LAN Port  
 **USB and HDMI port:** No HDMI port  
 **With file and media server**: Yes  
 **Windows and Mac Compatible:** Yes

**Synology DS416**

**Hard Drive:** 4TB  
 **4 Hard disk bay** : YES  
 **2 Lan Port (Gigabit interface)**: 2 x RJ45 Gigabit  
 **USB and HDMI port:** No HDMI port  
 **With file and media server**: Yes  
 **Windows and Mac Compatible:** Yes

**Synology DS416**

**Hard Drive:** 8TB  
 **4 Hard disk bay** : YES  
 **2 Lan Port (Gigabit interface)**: 2 x RJ45 Gigabit  
 **USB and HDMI port:** No HDMI port  
 **With file and media server**: Yes  
 **Windows and Mac Compatible:** Yes

**SYNOLOGY DS916**

**Hard Drive:** 2TB  
 **4 Hard disk bay** : YES  
 **2 Lan Port (Gigabit interface)**: 2 x RJ45 Gigabit (with Link Aggregation / Failover support)  
 **USB and HDMI port:** No HDMI port  
 **With file and media server**: Yes  
 **Windows and Mac Compatible:** Yes

**SYNOLOGY DS416J**

**Hard Drive:** 8TB  
 **4 Hard disk bay** : YES  
 **2 Lan Port (Gigabit interface)**: 2 x RJ45 Gigabit  
 **USB and HDMI port:** No HDMI port  
 **With file and media server**: Yes  
 **Windows and Mac Compatible:** Yes

**LCD PROJECTOR  
  
PJ X5580 (RICOH)**

**Projection system:** Single chip DLP **Projection screen size:** 30" to 300"  
**Projection distance:** 1 to 13.5 m (from rear of unit to projection surface) **Brightness:** PJ X5580: 6000 lumen, PJ WU5570: 5500 lumen **Resolution:** PJ X5580: 1024 x 768 , PJ WU5570: 1920 x 1200 **Lamp life:** Standard: 3000 hours (365 W), Eco mode 1: 4000 hours  
USB port:Type-A x 1 **Interface Wired & Wireless:** YES

**PANASONIC PT – VX600N**

**Projection system:** 3-Chip RGB Liquid Crystal Shutter Projection System LCD **Projection screen size:** 30-300 in  
**Projection distance:** 2.3 - 38.2' (70.1 - 1164.3 cm) **Brightness:** 5500 Lumens **Resolution:** 1024 X 768 pixels **Lamp life:** 5000 – 7000 Hours  
**Interface Wired & Wireless:** YES

**EPSON EB – 2155W**

**Projection system:** EPSON 3LCD3-Chip Technology **Projection screen size:** 29-280 in  
**Projection distance:** 60” screen 1.78m – 2.92m **Brightness:** 5000 Lumens **Resolution:** 1024 X 768 pixels **Lamp life:** 5000 – 7000 Hours  
**Interface Wired & Wireless:** YES

**ACER P7505**

**Projection system:** DLP **Projection screen size:** 19.7 in - 300 in  
**Projection distance:** 3.3 ft - 33 ft **Brightness:** 5000 Lumens **Resolution:** 1920 x 1080 **Lamp life:** 1500 Hours  
**Interface Wired & Wireless:** YES

**PANASONIC PT – VX600A**

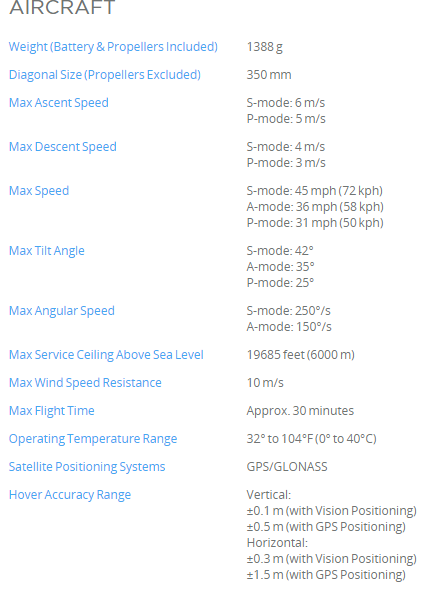
**Projection system:   
Projection screen size:** 30–300 inches  
**Projection distance:** 2.37 to 3.86 meters **Brightness:** 5000 Lumens **Resolution:** 1,024 × 768 pixels **Lamp life:** 7,000 hours  
**Interface Wired & Wireless:** YES

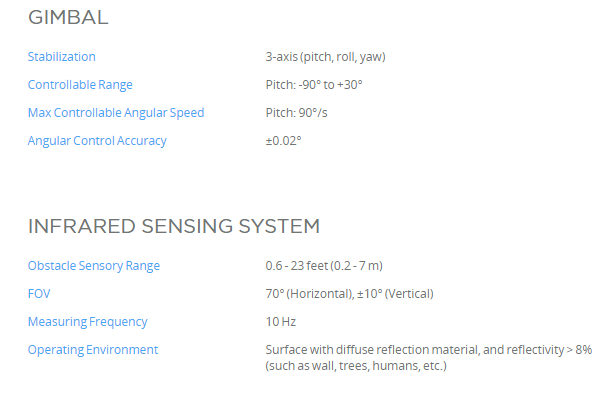
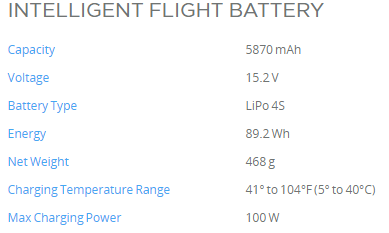
**PANASONIC PT – VX600N**

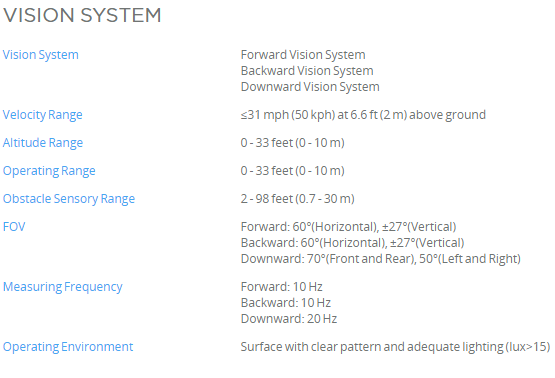
**Projection system:** 3-Chip RGB Liquid Crystal Shutter Projection System LCD **Projection screen size:** 30-300 in  
**Projection distance:** 2.3 - 38.2' (70.1 - 1164.3 cm) **Brightness:** 5500 Lumens **Resolution:** 1024 X 768 pixels **Lamp life:** 5000 – 7000 Hours  
**Interface Wired & Wireless:** YES

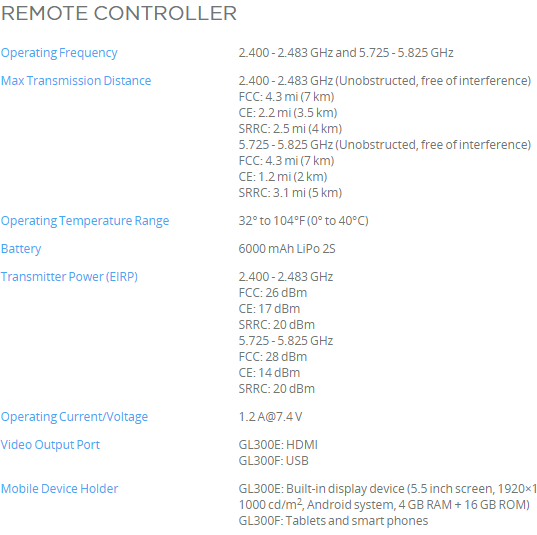
**DRONE**

**PHANTOM 4 PRO**



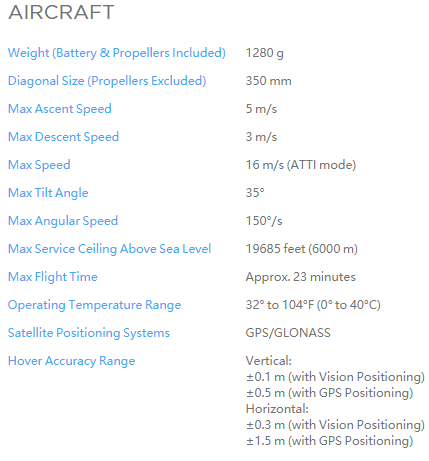
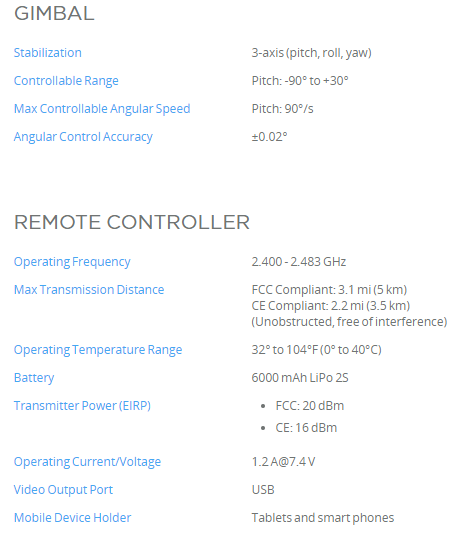
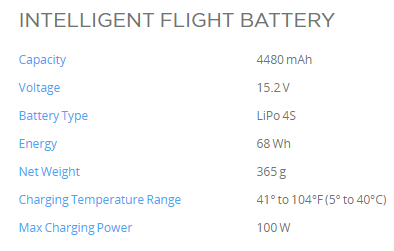


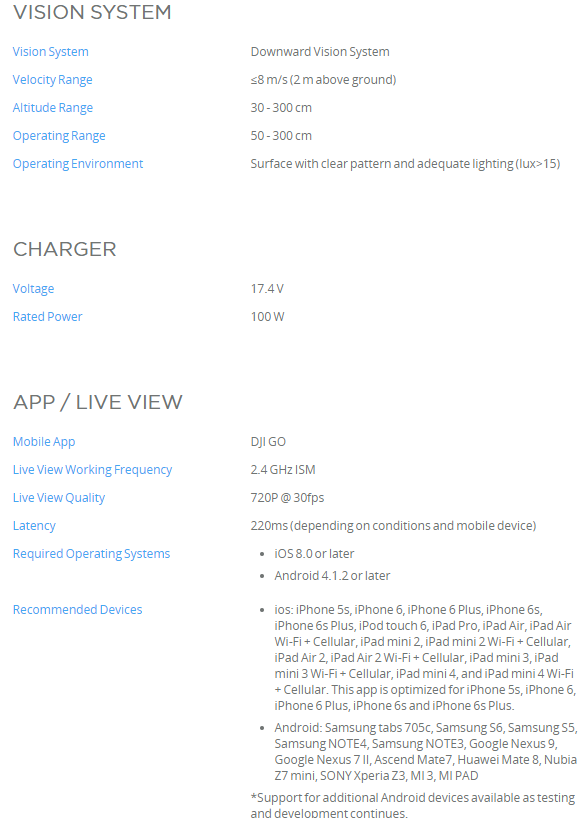




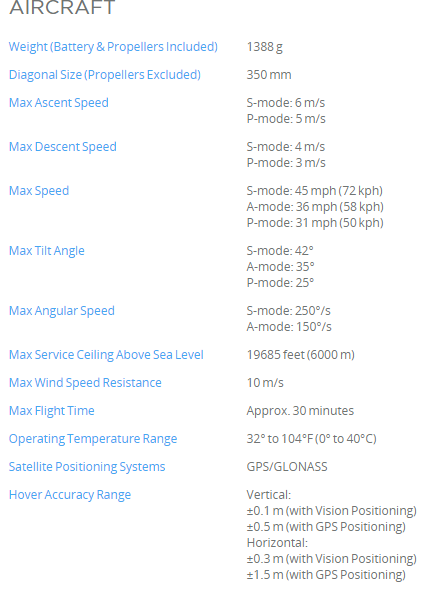


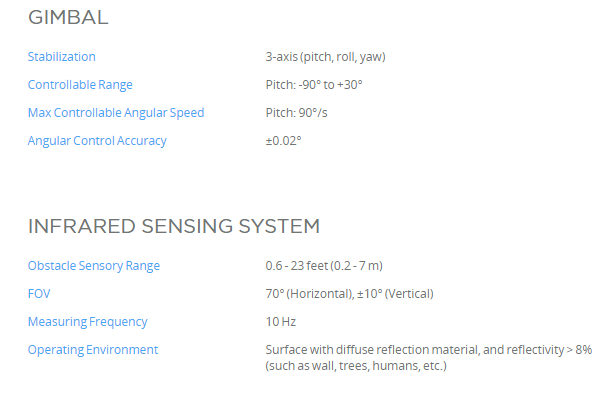
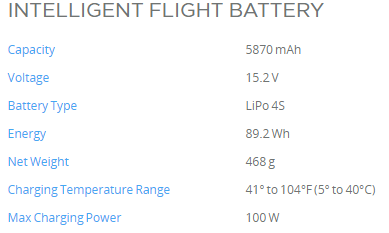
**PHANTOM 3 Proffessional**

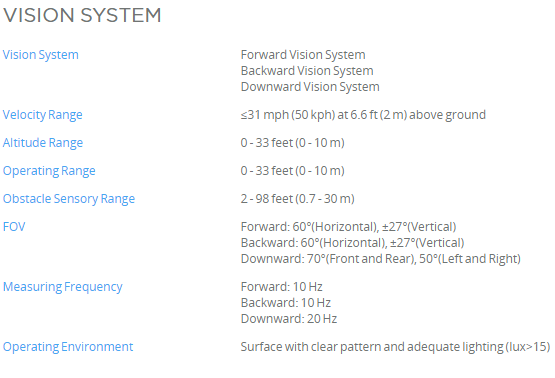
   
 

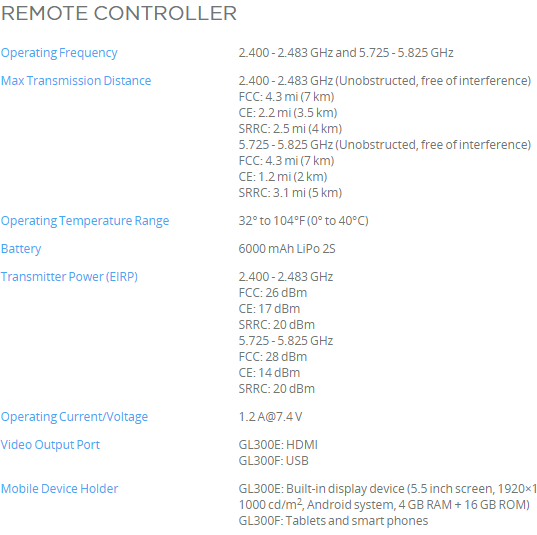


**PHANTOM 4 PRO 12MP**











**DSLR CAMERA**

**CANON 760D w/18:135**

|  |  |  |
| --- | --- | --- |
| **Type** |  | |
| Type | Digital, single-lens reflex, AF/AE camera with built-in flash | |
| Recording Media | SD / SDHC\* / SDXC\* memory cards  \* Compatible with UHS-I cards | |
| Image Sensor Size | Approx. 22.3 x 14.9mm | |
| Compatible Lenses | Canon EF lenses (including EF-S lenses)  \* Excluding EF-M lenses (35 mm-equivalent focal length is approx. 1.6 times the lens focal length) | |
| Lens Mount | Canon EF mount | |
| **Image Sensor** |  | |
| Type | CMOS sensor | |
| Effective Pixels | Approx. 24.2 megapixels  \* Rounded off to the nearest 10,000th. | |
| Aspect Ratio | 3:2 | |
| Dust Deletion Feature | Auto / Manual, Appending Dust Delete Data | |
| **Recording System** |  | |
| Recording Format | Design rule for Camera File System (DCF) 2.0 | |
| Image Type | JPEG, RAW (14-bit Canon original) RAW+JPEG Large simultaneous recording possible | |
| Recorded Pixels | L (Large): | 24 megapixels (6000 x 4000) |
| M (Medium): | Approx. 10.6 megapixels (3984 x 2656) |
| S1 (Small 1): | Approx. 5.9 megapixels (2976 x 1984) |
| S2 (Small 2): | Approx. 2.5 megapixels (1920 x 1280) |
| S3 (Small 3): | Approx. 350,000 pixels (720 x 480) |
| RAW: | 24 megapixels (6000 x 4000) |
| Aspect ratio: | 3:2, 4:3, 16:9, 1:1 | |
| Create / Select a folder | Possible | |
| File Numbering | Continuous, Auto reset, Manual reset | |
| **Image Processing During Shooting** |  | |
| Picture Style | Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3 | |
| Basic+ | Ambience-based shots, Light/scene-based shots | |
| Extra Effect Shot | Possible (in <CA> mode) | |
| White balance | Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom White Balance correction and White balance bracketing possible  \* Flash color temperature information transmission enabled | |
| Noise Reduction | Applicable to long exposures and high ISO speed shots | |
| Automatic Image Brightness Correction | Auto Lighting Optimizer | |
| Highlight Tone Priority | Provided | |
| Lens Aberration Correction | Peripheral illumination correction, Chromatic aberration correction, Distortion correction | |
| **Viewfinder** |  | |
| Type | Eye-level pentamirror | |
| Coverage | Vertical / Horizontal approx. 95% (with Eye point approx. 19mm)  \* Vertical field of view in the 16:9 aspect ratio is approx. 93%. | |
| Magnification | Approx. 0.82x (-1 m-1 with 50mm lens at infinity) | |
| Eye Point | Approx. 19 mm (from eyepiece lens center at -1 m-1) | |
| Built-in Dioptric Adjustment | Approx. -3.0 - +1.0 m-1 (dpt) | |
| Focusing Screen | Fixed, Precision Matte | |
| Grid display | Possible | |
| Electronic level display | Possible | |
| Mirror | Quick-return type | |
| Depth-of-field Preview | Provided | |
| **Autofocus** |  | |
| Type | TTL secondary image-registration, phase-difference detection with the dedicated AF sensor | |
| AF Points | 19 points (cross-type AF point: max. 19 points)  \* With certain lenses, cross-type focusing at the peripheral AF points is not possible. \* Dual cross-type focusing at f/2.8 with center AF point. (Except with the EF28-80mm f/2.8-4L USM and EF50mm f/2.5 Compact Macro.) | |
| Focusing Brightness Range | EV －0.5 - 18 (Conditions: f/2.8-sensitive center AF point, One-Shot AF, room temperature, ISO 100) | |
| Focus Operation | One-Shot AF, AI Servo AF, AI Focus AF Manual focusing (MF) | |
| AF area selection mode | Single-point AF (Manual selection), Zone AF (Manual selection of zone), 19-point automatic selection AF | |
| Condition of AF point automatic selection | AF point can be selected automatically in One-Shot AF mode, using information on colors equivalent to skin tones. | |
| AF-assist Beam | Small series of flashes fired by built-in flash | |
| **Exposure Control** |  | |
| Metering Modes | 63-zone TTL full-aperture metering using 7560-pixel RGB plus IR metering sensor • Evaluative metering (linked to all AF points) • Partial metering (approx. 6.0% of viewfinder at center) • Spot metering (approx. 3.5% of viewfinder at center) • Center-weighted average metering | |
| Metering Range | EV 1 - 20 (at room temperature, ISO 100) | |
| Exposure Control | Program AE (Scene Intelligent Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Special scene modes (Kids, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Program), Shutter-priority AE, Aperture-priority AE, Manual exposure | |
| ISO Speed (Recommended Exposure Index) | Basic Zone modes\*: ISO 100 - ISO 6400 set automatically  \* Landscape: ISO 100 - ISO 1600, <SCN> Handheld Night Scene: ISO 100 - ISO 12800 Creative Zone modes: ISO 100 - ISO 12800 set manually (whole-stop increments), ISO 100 - ISO 6400 set automatically, maximum ISO speed settable for ISO Auto, or ISO expansion to “H” (equivalent to ISO 25600) | |
| Exposure Compensation | Manual: | ±5 stops in 1/3- or 1/2-stop increments |
| AEB: | ±2 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation) |
| AE lock | Auto: | Applied in One-Shot AF with evaluative metering when focus is achieved |
| Manual: | By AE lock button |
| Anti-flicker | Possible | |
| **Shutter** |  | |
| Type | Electronically-controlled, focal-plane shutter | |
| Shutter Speeds | 1/4000 sec. to 30 sec. (Total shutter speed range. Available range varies by shooting mode.), Bulb, X-sync at 1/200 sec. | |
| **Drive System** |  | |
| Drive Modes | Single shooting, Continuous shooting, Silent single shooting, Silent continuous shooting,  Self-timer: 10-sec. delay/remote control, 2-sec. delay, 10-sec. delay with continuous shooting | |
| Continuous Shooting Speed | Continuous shooting: | Max. approx. 5.0 shots/sec. |
| Silent continuous shooting: | Max. approx. 3.0 shots/sec. |
| Max. burst (Approx.) | JPEG Large / Fine: | 180 (940) shots |
| RAW: | 7 (8) shots |
| RAW+JPEG Large / Fine | 6 (6) shots |
| \* Figures are based on Canon’s testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card. \* Figures in parentheses apply to an UHS-I compatible 8GB card based on Canon’s testing standards. | |
| **Flash** |  | |
| Built-in flash | Retractable, auto pop-up flash Guide No.: Approx. 12/39.4 (ISO 100, in meters/feet) Flash coverage: Approx. 17mm lens angle of view Recycling time approx. 3 sec. | |
| External flash | EX-series Speedlite | |
| Flash metering | E-TTL II autoflash | |
| Flash Exposure Compensation | ±2 stops in 1/3- or 1/2-stop increments | |
| FE Lock | Provided | |
| PC terminal | None | |
| **Live View Shooting** |  | |
| Focus Methods | Hybrid CMOS AF III System (Face+Tracking, FlexiZone-Multi, FlexiZone-Single), Manual focus (approx. 5x / 10x magnification possible) | |
| AF operation | One-Shot AF, Servo AF | |
| Continuous AF | Provided | |
| Focusing Brightness Range | EV 0 - 18 (at room temperature, ISO 100) | |
| Touch shutter | Provided | |
| Metering Modes | Real-time metering with image sensor Evaluative metering (315 zones), Partial metering (approx. 10% of Live View screen), Spot metering (approx. 2.7% of Live View screen), Center-weighted average metering | |
| Metering Range | Focusing brightness range: EV 0 - 20 (at room temperature, ISO 100) | |
| Silent Shooting | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | |
| Grid Display | Two types | |
| **Movie shooting** |  | |
| Recording format | MP4 | |
| Movie: | MPEG-4 AVC/H.264 Variable (average) bit rate |
| Audio | AAC |
| Recording Size and Frame Rate | 1920 x 1080 (Full HD): | 29.97p / 25.00p / 23.98p |
| 1280 x 720 (HD): | 59.94p / 50.00p / 29.97p / 25.00p |
| 640 x 480  (SD): | 29.97p / 25.00p |
| Compression Method | Standard / Light | |
| File Size | Full HD (29.97p / 25.00p / 23.98p) (Standard): | Approx. 216MB/min. |
| Full HD (29.97p / 25.00p) (Light): | Approx. 87MB/min. |
| HD (59.94p / 50.00p) (Standard): | Approx. 187MB/min. |
| HD (29.97p / 25.00p) (Light): | Approx. 30MB/min. |
| VGA (29.97p / 25.00p) (Standard): | Approx. 66MB/min. |
| VGA (29.97p / 25.00p) (Light): | Approx. 23MB/min. |
| HDR Movie Shooting: | Approx. 94MB/min. |
| \* Card reading / writing speed necessary for movie shooting:  IPB: at least 6MB per sec. ALL-I: at least 20MB per sec. | |
| Focus method | Same as focusing with Live View shooting | |
| Digital zoom | Approx. 3x to 10x | |
| Movie Servo AF | Provided | |
| Focusing brightness range | EV 0 - 18 (at room temperature, ISO 100) | |
| Metering Modes | Center-weighted average and evaluative metering with the image sensor  \* Automatically set by the focus method. | |
| Metering Range | EV 0 - 20 (at room temperature, ISO 100) | |
| Exposure Control | Program AE for movies and manual exposure | |
| Exposure Compensation | ±3 stops in 1/3-stop increments (±5 stops for still photos) | |
| ISO Speed (Recommended exposure index) | With autoexposure shooting: | ISO 100 - ISO 6400 set automatically |
| With manual exposure: | ISO 100 - ISO 6400 set automatically/manually, expandable to H (equivalent to ISO 12800) |
| HDR movies | Possible | |
| Miniature effect movie | Possible | |
| Video Snapshots | Settable to 2 sec. / 4 sec. / 8 sec. | |
| Sound Recording | Built-in stereo microphones External stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided | |
| Grid Display | Two types | |
| Still Photo Shooting | Possible | |
| **LCD Monitor** |  | |
| Type | TFT color liquid-crystal monitor | |
| Monitor size and dots | Wide, 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots | |
| Brightness Adjustment | Manual (7 levels) | |
| Electronic Level Display | Possible | |
| Interface Languages | 25 | |
| Touch Screen Technology | Capacitive sensing | |
| Feature Guide | Displayable | |
| **Playback** |  | |
| Image Display Formats | Single-image display (without shooting information), Single-image display (with simple information), Single-image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style, Color space/noise reduction, Lens aberration correction), Index display (4/9/36/100 images) | |
| Zoom Magnification | Approx. 1.5x - 10x | |
| Highlight Alert | Overexposed highlights blink | |
| AF Point Display | Provided | |
| Image Browsing Methods | Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating | |
| Image Rotate | Possible | |
| Ratings | Provided | |
| Movie Playback | Enabled (LCD monitor, audio/video OUT, HDMI OUT) Built-in speaker | |
| Image Protect | Possible | |
| Slide Show | All images, by date, by folder, by movies, by stills, by rating Five transition effects selectable | |
| Background Music | Selectable for slide shows and movie playback | |
| **Post-Processing of Images** |  | |
| Creative filters | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | |
| Resize | Possible | |
| Cropping | Possible | |
| **Direct Printing** |  | |
| Compatible Printers | PictBridge-compatible printers | |
| Printable Images | JPEG and RAW images | |
| Print Ordering | DPOF Version 1.1 compatible | |
| **Custom Functions** |  | |
| Custom Functions | 14 | |
| My Menu Registration | Possible | |
| Copyright Information | Entry and inclusion enabled | |
| **Interface** |  | |
| Audio / Video OUT / Digital Terminal | Analog video (compatible with NTSC/PAL)/stereo audio output  Hi-Speed USB equivalent: Computer communication, Direct printing, GPS Receiver GP-E2, Connect Station CS100 connection | |
| HDMI Mini OUT Terminal | Type C (Auto switching of resolution), CEC-compatible | |
| External Microphone IN Terminal | 3.5mm diameter stereo mini-jack | |
| Remote Control Terminal | For Remote Switch RS-60E3 | |
| Wireless Remote Control | Compatible with Remote Controller RC-6 | |
| Eye-Fi Card | Compatible | |
| **Wireless LAN** |  | |
| Standards Compliance | IEEE 802.11b/g/n | |
| Transmission Method | DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n) | |
| Transmission Range | Approx. 15m / 49.2ft. \* When connected to a smartphone \* With no obstructions between the transmitting and receiving antennas and no radio interference | |
| Transmission Frequency (Central Frequency) | Frequency: 2412 to 2462 MHz, Channels: 1 to 11 ch | |
| Connection Method | Infrastructure mode\*, camera access point mode  \* Wi-Fi Protected Setup supported | |
| Security | Authentication method: Open system, Shared key, WPA/WPA2-PSK | |
| NFC connection | For communication with smartphones or connection to Connect Station | |
| **Wi-Fi Functions** |  | |
| Connection to Smartphones | Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone. Images can be sent to a smartphone easily. | |
| Transfer Images between Cameras | Transferring one image, Transferring selected images, Transferring resized images | |
| Print from Wi-Fi printers | Images to be printed can be sent to a printer supporting Wi-Fi. | |
| Save Images to Connect Station | Images can be sent and saved to Connect Station. | |
| View Images Using a Media Player | Images can be viewed using a DLNA-compatible media player. | |
| Send Images to a Web Service | Images in the camera or links to images can be sent to registered Web services. | |
| **Power** |  | |
| Battery | Battery Pack LP-E17 (Quantity 1)  \*AC power can be supplied via AC Adapter Kit ACK-E18 | |
| Number of Possible Shots  (Based on CIPA Testing Standards) | With viewfinder shooting: | Approx. 440 shots at room temperature (23°C / 73°F), |
| Approx. 400 shots at low temperatures (0°C / 32°F) |
| With Live View shooting: | Approx. 180 shots at room temperature (23°C / 73°F |
| Approx. 150 shots at low temperatures (0°C / 32°F) |
| Movie Shooting Time | Approx. 1hr. 20min. at room temperature (23°C / 73°F) Approx. 1hr. at low temperatures (0°C / 32°F)  \* With a fully-charged Battery Pack LP-E17. | |
| **Dimensions and Weight** |  | |
| Dimensions (W x H x D) | Approx. 131.9 x 100.9 x 77.8mm / 5.20 x 3.98 x 3.07in. | |
| Weight | Approx. 565g / 19.93oz. (CIPA Guidelines), Approx. 520g / 18.35oz. (Body only) | |
| **Operating Environment** |  | |
| Working Temperature Range | 0°C - 40°C / 32°F - 104°F | |
| Working Humidity | 85% or less | |
| **Battery Pack LP-E17** |  | |
| Type | Rechargeable lithium-ion battery | |
| Rated Voltage | 7.2 V DC | |
| Battery Capacity | 1040 mAh | |
| Working Temperature Range | During charging: 5°C - 40°C / 41°F - 104°F During shooting: 0°C - 40°C / 32°F - 104°F | |
| Working Humidity | 85% or less | |
| Dimensions  (W x H x D) | Approx. 33.0 x 14.0 x 49.4mm / 1.30 x 0.55 x 1.94in. | |
| Weight | Approx. 45g / 1.59oz. (excluding protective cover) | |
| **Battery Charger LC-E17** |  | |
| Compatible Battery | Battery Pack LP-E17 | |
| Recharging Time | Approx. 2 hours (at room temperature (23°C / 73°F)) | |
| Rated Input | 100 - 240 V AC (50 / 60 Hz) | |
| Rated Output | 8.4 V DC / 700 mA | |
| Working Temperature Range | 5°C - 40°C / 41°F - 104°F | |
| Working Humidity | 85% or less | |
| Dimensions  (W x H x D) | Approx. 67.3 x 27.7 x 92.2mm / 2.65 x 1.09 x 3.63in. (prongs retracted) | |
| Weight | Approx. 85g / 3oz. | |
| **Battery Charger LC-E17E** |  | |
| Compatible Battery | Battery Pack LP-E17 | |
| Recharging Time | Approx. 2 hours (at room temperature (23°C / 73°F)) | |
| Rated Input | 100 - 240 V AC (50 / 60 Hz) | |
| Rated Output | 8.4 V DC / 700 mA | |
| Working Temperature Range | 5°C - 40°C / 41°F - 104°F | |
| Working Humidity | 85% or less | |
| Dimensions  (W x H x D) | Approx. 67.3 x 27.7 x 92.2mm / 2.65 x 1.09 x 3.63in. (excluding power cord) | |
| Weight | Approx. 80g / 2.82oz. (excluding power cord) | |
| **Type** |  | |
| Type | Digital, single-lens reflex, AF/AE camera with built-in flash | |
| Recording Media | SD / SDHC\* / SDXC\* memory cards  \* Compatible with UHS-I cards | |
| Image Sensor Size | Approx. 22.3 x 14.9mm | |
| Compatible Lenses | Canon EF lenses (including EF-S lenses)  \* Excluding EF-M lenses (35 mm-equivalent focal length is approx. 1.6 times the lens focal length) | |
| Lens Mount | Canon EF mount | |
| **Image Sensor** |  | |
| Type | CMOS sensor | |
| Effective Pixels | Approx. 24.2 megapixels  \* Rounded off to the nearest 10,000th. | |
| Aspect Ratio | 3:2 | |
| Dust Deletion Feature | Auto / Manual, Appending Dust Delete Data | |
| **Recording System** |  | |
| Recording Format | Design rule for Camera File System (DCF) 2.0 | |
| Image Type | JPEG, RAW (14-bit Canon original) RAW+JPEG Large simultaneous recording possible | |
| Recorded Pixels | L (Large): | 24 megapixels (6000 x 4000) |
| M (Medium): | Approx. 10.6 megapixels (3984 x 2656) |
| S1 (Small 1): | Approx. 5.9 megapixels (2976 x 1984) |
| S2 (Small 2): | Approx. 2.5 megapixels (1920 x 1280) |
| S3 (Small 3): | Approx. 350,000 pixels (720 x 480) |
| RAW: | 24 megapixels (6000 x 4000) |
| Aspect ratio: | 3:2, 4:3, 16:9, 1:1 | |
| Create / Select a folder | Possible | |
| File Numbering | Continuous, Auto reset, Manual reset | |
| **Image Processing During Shooting** |  | |
| Picture Style | Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3 | |
| Basic+ | Ambience-based shots, Light/scene-based shots | |
| Extra Effect Shot | Possible (in <CA> mode) | |
| White balance | Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom White Balance correction and White balance bracketing possible  \* Flash color temperature information transmission enabled | |
| Noise Reduction | Applicable to long exposures and high ISO speed shots | |
| Automatic Image Brightness Correction | Auto Lighting Optimizer | |
| Highlight Tone Priority | Provided | |
| Lens Aberration Correction | Peripheral illumination correction, Chromatic aberration correction, Distortion correction | |
| **Viewfinder** |  | |
| Type | Eye-level pentamirror | |
| Coverage | Vertical / Horizontal approx. 95% (with Eye point approx. 19mm)  \* Vertical field of view in the 16:9 aspect ratio is approx. 93%. | |
| Magnification | Approx. 0.82x (-1 m-1 with 50mm lens at infinity) | |
| Eye Point | Approx. 19 mm (from eyepiece lens center at -1 m-1) | |
| Built-in Dioptric Adjustment | Approx. -3.0 - +1.0 m-1 (dpt) | |
| Focusing Screen | Fixed, Precision Matte | |
| Grid display | Possible | |
| Electronic level display | Possible | |
| Mirror | Quick-return type | |
| Depth-of-field Preview | Provided | |
| **Autofocus** |  | |
| Type | TTL secondary image-registration, phase-difference detection with the dedicated AF sensor | |
| AF Points | 19 points (cross-type AF point: max. 19 points)  \* With certain lenses, cross-type focusing at the peripheral AF points is not possible. \* Dual cross-type focusing at f/2.8 with center AF point. (Except with the EF28-80mm f/2.8-4L USM and EF50mm f/2.5 Compact Macro.) | |
| Focusing Brightness Range | EV －0.5 - 18 (Conditions: f/2.8-sensitive center AF point, One-Shot AF, room temperature, ISO 100) | |
| Focus Operation | One-Shot AF, AI Servo AF, AI Focus AF Manual focusing (MF) | |
| AF area selection mode | Single-point AF (Manual selection), Zone AF (Manual selection of zone), 19-point automatic selection AF | |
| Condition of AF point automatic selection | AF point can be selected automatically in One-Shot AF mode, using information on colors equivalent to skin tones. | |
| AF-assist Beam | Small series of flashes fired by built-in flash | |
| **Exposure Control** |  | |
| Metering Modes | 63-zone TTL full-aperture metering using 7560-pixel RGB plus IR metering sensor • Evaluative metering (linked to all AF points) • Partial metering (approx. 6.0% of viewfinder at center) • Spot metering (approx. 3.5% of viewfinder at center) • Center-weighted average metering | |
| Metering Range | EV 1 - 20 (at room temperature, ISO 100) | |
| Exposure Control | Program AE (Scene Intelligent Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Special scene modes (Kids, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Program), Shutter-priority AE, Aperture-priority AE, Manual exposure | |
| ISO Speed (Recommended Exposure Index) | Basic Zone modes\*: ISO 100 - ISO 6400 set automatically  \* Landscape: ISO 100 - ISO 1600, <SCN> Handheld Night Scene: ISO 100 - ISO 12800 Creative Zone modes: ISO 100 - ISO 12800 set manually (whole-stop increments), ISO 100 - ISO 6400 set automatically, maximum ISO speed settable for ISO Auto, or ISO expansion to “H” (equivalent to ISO 25600) | |
| Exposure Compensation | Manual: | ±5 stops in 1/3- or 1/2-stop increments |
| AEB: | ±2 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation) |
| AE lock | Auto: | Applied in One-Shot AF with evaluative metering when focus is achieved |
| Manual: | By AE lock button |
| Anti-flicker | Possible | |
| **Shutter** |  | |
| Type | Electronically-controlled, focal-plane shutter | |
| Shutter Speeds | 1/4000 sec. to 30 sec. (Total shutter speed range. Available range varies by shooting mode.), Bulb, X-sync at 1/200 sec. | |
| **Drive System** |  | |
| Drive Modes | Single shooting, Continuous shooting, Silent single shooting, Silent continuous shooting,  Self-timer: 10-sec. delay/remote control, 2-sec. delay, 10-sec. delay with continuous shooting | |
| Continuous Shooting Speed | Continuous shooting: | Max. approx. 5.0 shots/sec. |
| Silent continuous shooting: | Max. approx. 3.0 shots/sec. |
| Max. burst (Approx.) | JPEG Large / Fine: | 180 (940) shots |
| RAW: | 7 (8) shots |
| RAW+JPEG Large / Fine | 6 (6) shots |
| \* Figures are based on Canon’s testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card. \* Figures in parentheses apply to an UHS-I compatible 8GB card based on Canon’s testing standards. | |
| **Flash** |  | |
| Built-in flash | Retractable, auto pop-up flash Guide No.: Approx. 12/39.4 (ISO 100, in meters/feet) Flash coverage: Approx. 17mm lens angle of view Recycling time approx. 3 sec. | |
| External flash | EX-series Speedlite | |
| Flash metering | E-TTL II autoflash | |
| Flash Exposure Compensation | ±2 stops in 1/3- or 1/2-stop increments | |
| FE Lock | Provided | |
| PC terminal | None | |
| Flash Control: | Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible | |
| **Live View Shooting** |  | |
| Focus Methods | Hybrid CMOS AF III System (Face+Tracking, FlexiZone-Multi, FlexiZone-Single), Manual focus (approx. 5x / 10x magnification possible) | |
| AF operation | One-Shot AF, Servo AF | |
| Continuous AF | Provided | |
| Focusing Brightness Range | EV 0 - 18 (at room temperature, ISO 100) | |
| Touch shutter | Provided | |
| Metering Modes | Real-time metering with image sensor Evaluative metering (315 zones), Partial metering (approx. 10% of Live View screen), Spot metering (approx. 2.7% of Live View screen), Center-weighted average metering | |
| Metering Range | Focusing brightness range: EV 0 - 20 (at room temperature, ISO 100) | |
| Silent Shooting | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | |
| Grid Display | Two types | |
| **Movie shooting** |  | |
| Recording format | MP4 | |
| Movie: | MPEG-4 AVC/H.264 Variable (average) bit rate |
| Audio | AAC |
| Recording Size and Frame Rate | 1920 x 1080 (Full HD): | 29.97p / 25.00p / 23.98p |
| 1280 x 720 (HD): | 59.94p / 50.00p / 29.97p / 25.00p |
| 640 x 480  (SD): | 29.97p / 25.00p |
| Compression Method | Standard / Light | |
| File Size | Full HD (29.97p / 25.00p / 23.98p) (Standard): | Approx. 216MB/min. |
| Full HD (29.97p / 25.00p) (Light): | Approx. 87MB/min. |
| HD (59.94p / 50.00p) (Standard): | Approx. 187MB/min. |
| HD (29.97p / 25.00p) (Light): | Approx. 30MB/min. |
| VGA (29.97p / 25.00p) (Standard): | Approx. 66MB/min. |
| VGA (29.97p / 25.00p) (Light): | Approx. 23MB/min. |
| HDR Movie Shooting: | Approx. 94MB/min. |
| \* Card reading / writing speed necessary for movie shooting:  IPB: at least 6MB per sec. ALL-I: at least 20MB per sec. | |
| Focus method | Same as focusing with Live View shooting | |
| Digital zoom | Approx. 3x to 10x | |
| Movie Servo AF | Provided | |
| Focusing brightness range | EV 0 - 18 (at room temperature, ISO 100) | |
| Metering Modes | Center-weighted average and evaluative metering with the image sensor  \* Automatically set by the focus method. | |
| Metering Range | EV 0 - 20 (at room temperature, ISO 100) | |
| Exposure Control | Program AE for movies and manual exposure | |
| Exposure Compensation | ±3 stops in 1/3-stop increments (±5 stops for still photos) | |
| ISO Speed (Recommended exposure index) | With autoexposure shooting: | ISO 100 - ISO 6400 set automatically |
| With manual exposure: | ISO 100 - ISO 6400 set automatically/manually, expandable to H (equivalent to ISO 12800) |
| HDR movies | Possible | |
| Miniature effect movie | Possible | |
| Video Snapshots | Settable to 2 sec. / 4 sec. / 8 sec. | |
| Sound Recording | Built-in stereo microphones External stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided | |
| Grid Display | Two types | |
| Still Photo Shooting | Possible | |
| **LCD Monitor** |  | |
| Type | TFT color liquid-crystal monitor | |
| Monitor size and dots | Wide, 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots | |
| Brightness Adjustment | Manual (7 levels) | |
| Electronic Level Display | Possible | |
| Interface Languages | 25 | |
| Touch Screen Technology | Capacitive sensing | |
| Feature Guide | Displayable | |
| **Playback** |  | |
| Image Display Formats | Single-image display (without shooting information), Single-image display (with simple information), Single-image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style, Color space/noise reduction, Lens aberration correction), Index display (4/9/36/100 images) | |
| Zoom Magnification | Approx. 1.5x - 10x | |
| Highlight Alert | Overexposed highlights blink | |
| AF Point Display | Possible | |
| Image Browsing Methods | Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating | |
| Image Rotate | Possible | |
| Ratings | Provided | |
| Movie Playback | Enabled (LCD monitor, audio/video OUT, HDMI OUT) Built-in speaker | |
| Image Protect | Possible | |
| Slide Show | All images, by date, by folder, by movies, by stills, by rating Five transition effects selectable | |
| Background Music | Selectable for slide shows and movie playback | |
| **Post-Processing of Images** |  | |
| Creative filters | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | |
| Resize | Possible | |
| Cropping | Possible | |
| **Direct Printing** |  | |
| Compatible Printers | PictBridge-compatible printers | |
| Printable Images | JPEG and RAW images | |
| Print Ordering | DPOF Version 1.1 compatible | |
| **Custom Functions** |  | |
| Custom Functions | 14 | |
| My Menu Registration | Possible | |
| Copyright Information | Entry and inclusion enabled | |
| **Interface** |  | |
| Audio / Video OUT / Digital Terminal | Analog video (compatible with NTSC/PAL)/stereo audio output  Hi-Speed USB equivalent: Computer communication, Direct printing, GPS Receiver GP-E2, Connect Station CS100 connection | |
| HDMI Mini OUT Terminal | Type C (Auto switching of resolution), CEC-compatible | |
| External Microphone IN Terminal | 3.5mm diameter stereo mini-jack | |
| Remote Control Terminal | For Remote Switch RS-60E3 | |
| Wireless Remote Control | Compatible with Remote Controller RC-6 | |
| Eye-Fi Card | Compatible | |
| **Wireless LAN** |  | |
| Standards Compliance | IEEE 802.11b/g/n | |
| Transmission Method | DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n) | |
| Transmission Range | Approx. 15m / 49.2ft. \* When connected to a smartphone \* With no obstructions between the transmitting and receiving antennas and no radio interference | |
| Transmission Frequency (Central Frequency) | Frequency: 2412 to 2462 MHz, Channels: 1 to 11 ch | |
| Connection Method | Infrastructure mode\*, camera access point mode  \* Wi-Fi Protected Setup supported | |
| Security | Authentication method: Open system, Shared key, WPA/WPA2-PSK | |
| NFC connection | For communication with smartphones or connection to Connect Station | |
| **Wi-Fi Functions** |  | |
| Connection to Smartphones | Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone. Images can be sent to a smartphone easily. | |
| Transfer Images between Cameras | Transferring one image, Transferring selected images, Transferring resized images | |
| Print from Wi-Fi printers | Images to be printed can be sent to a printer supporting Wi-Fi. | |
| Save Images to Connect Station | Images can be sent and saved to Connect Station. | |
| View Images Using a Media Player | Images can be viewed using a DLNA-compatible media player. | |
| Send Images to a Web Service | Images in the camera or links to images can be sent to registered Web services. | |
| **Power** |  | |
| Battery | Battery Pack LP-E17 (Quantity 1)  \*AC power can be supplied via AC Adapter Kit ACK-E18 | |
| Number of Possible Shots  (Based on CIPA Testing Standards) | With viewfinder shooting: | Approx. 440 shots at room temperature (23°C / 73°F), |
| Approx. 400 shots at low temperatures (0°C / 32°F) |
| With Live View shooting: | Approx. 180 shots at room temperature (23°C / 73°F |
| Approx. 150 shots at low temperatures (0°C / 32°F) |
| Movie Shooting Time | Approx. 1hr. 20min. at room temperature (23°C / 73°F) Approx. 1hr. at low temperatures (0°C / 32°F)  \* With a fully-charged Battery Pack LP-E17. | |
| **Dimensions and Weight** |  | |
| Dimensions (W x H x D) | Approx. 131.9 x 100.9 x 77.8mm / 5.20 x 3.98 x 3.07in. | |
| Weight | Approx. 565g / 19.93oz. (CIPA Guidelines), Approx. 520g / 18.35oz. (Body only) | |
| **Operating Environment** |  | |
| Working Temperature Range | 0°C - 40°C / 32°F - 104°F | |
| Working Humidity | 85% or less | |
| **Battery Pack LP-E17** |  | |
| Type | Rechargeable lithium-ion battery | |
| Rated Voltage | 7.2 V DC | |
| Battery Capacity | 1040 mAh | |
| Working Temperature Range | During charging: 5°C - 40°C / 41°F - 104°F During shooting: 0°C - 40°C / 32°F - 104°F | |
| Working Humidity | 85% or less | |
| Dimensions  (W x H x D) | Approx. 33.0 x 14.0 x 49.4mm / 1.30 x 0.55 x 1.94in. | |
| Weight | Approx. 45g / 1.59oz. (excluding protective cover) | |
| **Battery Charger LC-E17** |  | |
| Compatible Battery | Battery Pack LP-E17 | |
| Recharging Time | Approx. 2 hours (at room temperature (23°C / 73°F)) | |
| Rated Input | 100 - 240 V AC (50 / 60 Hz) | |
| Rated Output | 8.4 V DC / 700 mA | |
| Working Temperature Range | 5°C - 40°C / 41°F - 104°F | |
| Working Humidity | 85% or less | |
| Dimensions  (W x H x D) | Approx. 67.3 x 27.7 x 92.2mm / 2.65 x 1.09 x 3.63in. (prongs retracted) | |
| Weight | Approx. 85g / 3oz. | |
| **Battery Charger LC-E17E** |  | |
| Compatible Battery | Battery Pack LP-E17 | |
| Recharging Time | Approx. 2 hours (at room temperature (23°C / 73°F)) | |
| Rated Input | 100 - 240 V AC (50 / 60 Hz) | |
| Rated Output | 8.4 V DC / 700 mA | |
| Working Temperature Range | 5°C - 40°C / 41°F - 104°F | |
| Working Humidity | 85% or less | |
| Dimensions  (W x H x D) | Approx. 67.3 x 27.7 x 92.2mm / 2.65 x 1.09 x 3.63in. (excluding power cord) | |
| Weight | Approx. 80g / 2.82oz. (excluding power cord) | |
| **EF-S18-135mm f/3.5-5.6 IS STM** |  | |
| Focal length / Speed | 18 -135mm / f/3.5-5.6 | |
| Lens construction | 16 elements in 12 groups | |
| Minimum aperture | f/22 - 36  \* f/22-38 when 1/2 stop increments set for aperture | |
| Angle of view | Diagonal extent: | 74°20´ - 11°30´ |
| Vertical extent: | 45°30´ - 6°20´ |
| Horizontal extent: | 64°30´ - 9°30´ |
| Closest Focusing Distance | 0.39m / 1.28ft. | |
| Max. magnification | 0.28x (at 135mm focal length) | |
| Field of view | Approx. 248 x 372 - 53 x 80mm / 9.8 x 14.6 - 2.1 x 3.1in. (at 0.39m / 1.28ft.) | |
| Filter size | 67mm | |
| Max. diameter x length | Approx. 76.6 x 96.0mm / 3.0 x 3.8in. | |
| Weight | Approx. 480g / 16.9oz. | |
| Hood | EW-73B (sold separately) | |
| Lens cap | E-67 II | |
| Case | LP1116 (sold separately) | |

**EOS 80D**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** |  | | |
| Type | Digital, single-lens reflex, AF/AE camera with built-in flash | | |
| Recording media | SD/SDHC\*/SDXC\* memory cards \* UHS-I cards supported | | |
| Image sensor size | Approx. 22.3 x 14.9mm | | |
| Compatible lenses | Canon EF lenses (including EF-S lenses) \* Excluding EF-M lenses(35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.) | | |
| Lens mount | Canon EF mount | | |
| **Image Sensor** |  | | |
| Type | CMOS sensor | | |
| Effective pixels | Approx. 24.2 megapixels  \* Rounded off to the nearest 10,000th | | |
| Aspect ratio | 3:2 | | |
| Dust delete feature | Auto, Manual, Dust Delete Data appending | | |
| **Recording System** |  | | |
| Recording format | Design rule for Camera File System (DCF) 2.0 | | |
| Image type | JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible | | |
| Pixels recorded | L (Large) | 24.0 megapixels (6000 x 4000) | |
| M (Medium): | Approx. 10.6 megapixels (3984 x 2656) | |
| S1 (Small 1): | Approx. 5.9 megapixels (2976 x 1984) | |
| S2 (Small 2): | Approx. 2.5 megapixels (1920 x 1280) | |
| S3 (Small 3): | Approx. 350,000 pixels (720 x 480) | |
| RAW: | 24.0 megapixels (6000 x 4000) | |
| M-RAW: | 13.5 megapixels (4500 x 3000) | |
| S-RAW: | 6.0 megapixels (3000 x 2000) | |
| Aspect ratio | 3:2, 4:3, 16:9, 1:1 | | |
| Create / select a folder | Possible | | |
| File numbering | Continuous, Auto reset, Manual reset | | |
| **Image Processing During Shooting** | | | |
| Picture Style | Auto, Standard, Portrait, Landscape, Fine Detail, Neutral,Faithful, Monochrome, User Defined 1 - 3 | | |
| White balance | Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500 - 10000K), White balance correction, and White balance bracketing provided   \* Flash color temperature information transmission enabled | | |
| Noise reduction | Applicable to long exposures and high ISO speed shots | | |
| Automatic image brightness correction | Auto Lighting Optimizer provided | | |
| Highlight tone priority | Provided | | |
| Lens aberration correction | Peripheral illumination correction, Chromatic aberration correction, Distortion correction | | |
| **Viewfinder** |  | | |
| Type | Eye-level pentaprism | | |
| Coverage (by aspect ratio) | 3:2 (vertical: approx. 100%, horizontal: approx. 100%), | | |
| 4:3 (vertical: approx. 100%, horizontal: approx. 97%), | | |
| 16:9 (vertical: approx. 97%, horizontal: approx. 100%), | | |
| 1:1 (vertical: approx. 100%, horizontal: approx. 96%) | | |
| \*With eyepoint at approx. 22mm. | | |
| Magnification | Approx. 0.95x (-1m-1 with 50mm lens at infinity) | | |
| Eye point | Approx. 22mm (from eyepiece lens center at -1m-1) | | |
| Diopric adjustment range | Approx. -3.0 - +1.0m-1 (dpt) | | |
| Focusing screen | Fixed | | |
| Grid display | Provided | | |
| Electronic level | Provided | | |
| Mirror | Quick-return type | | |
| Depth-of-field preview | Provided | | |
| **Autofocus (for viewfinder shooting)** | | | |
| Type | TTL secondary image-registration, phase-difference detection with the dedicated AF sensor | | |
| AF points | 45 (Cross-type AF point Max. 45 points) \* Number of available AF points, Dual cross-type AFpoints, and cross-type AF points vary depending on the lens used and aspect ratio settings. \* Dual cross-type focusing at f/2.8 with center AF point.(AF group: When Group A lenses are used) | | |
| Focusing brightness range | EV -3 - 18 (with the center AF point supporting f/2.8, One-Shot AF, at room temperature, ISO 100) | | |
| Focus operation | One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF) | | |
| AF area selection mode | Single-point AF (Manual selection), Zone AF (Manual selection of zone), Large Zone AF (manual selection of zone), 45-point automatic selection AF | | |
| AF point automatic selection conditions | AF points can be selected automatically using information on colors equivalent to skin tones | | |
| AI Servo AF characteristics | Tracking sensitivity, Acceleration / deceleration tracking, AF point auto switching | | |
| AF fine adjustment | AF Microadjustment (All lenses by same amount or Adjust by lens) | | |
| AF-assist beam | Small series of flashes fired by built-in flash | | |
| **Exposure Control** |  | | |
| Metering mode | 63-zone TTL open-aperture metering using 7560-pixel RGB plus IR metering sensor   * Evaluative metering (linked to all AF points) * Partial metering (approx. 6.0% of viewfinder at center) * Spot metering (approx. 3.8% of viewfinder at center) * Center-weighted average metering | | |
| Metering brightness range | EV 1 - 20 (at room temperature, ISO 100) | | |
| Shooting mode | Basic Zone modes | Scene Intelligent Auto, Flash Off, Creative Auto, Special scene modes (Food, Kids, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control, Portrait, Landscape, Close-up, Sports), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Toy camera effect,Miniature effect, Water painting effect, HDR art standard,HDR art vivid, HDR art bold, HDR art embossed) | |
| Creative Zone modes: | Program AE, Shutter-priority AE, Aperture-priority AE,Manual exposure, Bulb exposure, Custom shootingmode | |
| ISO speed (Recommended exposure index) | Basic Zone modes\*: | ISO 100 - ISO 6400 set automatically | |
| \* Handheld Night Scene: | ISO 100 - ISO 12800 set automatically, Landscape: ISO 100 - ISO 1600 set automatically | |
| P, Tv, Av, M, B: ISO Auto, ISO 100 - ISO 16000 set manually (1/3- and whole-stop increments), and ISO expansion to H (equivalent to ISO 25600) | | |
| ISO speed settings | Range for stills, Auto range, and Minimum shutter speed for auto settable | | |
| Exposure compensation | Manual: | ±5 stops in 1/3- or 1/2-stop increments | |
| AEB: | ±3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation) | |
| AE lock | Auto: | Applied in One-Shot AF with evaluative metering when focus is achieved | |
| Manual: | With AE lock button | |
| Anti-flicker | Possible | | |
| Interval timer | Shooting interval and shot count settable | | |
| Bulb timer | Bulb exposure time settable | | |
| **HDR Shooting** |  | | |
| Dynamic range adjustment | Auto, ±1, ±2, ±3 | | |
| Effects | Natural, Art standard, Art vivid, Art bold, Art embossed | | |
| Auto image alignment | Provided | | |
| **Multiple Exposures** |  | | |
| Number of multiple exposures | 2 - 9 exposures | | |
|  | | |
| Multiple-exposure control | Additive, Average | | |
| **Shutter** |  | | |
| Type | Electronically-controlled, focal-plane shutter | | |
| Shutter speed | 1/8000sec. to 30sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250sec. | | |
| **Drive System** |  | | |
| Drive mode | Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control | | |
| Continuous shootingspeed | High-speed continuous shooting: | Max. approx. 7.0 shots/sec.\* \* Max. approx. 5.0 shots/sec. during Live View shooting or when [Servo AF] is set. | |
| Low-speed continuous shooting: | Max. approx. 3.0 shots/sec. | |
| Silent continuous shooting: | Max. approx. 3.0 shots/sec. | |
| Max. burst | JPEG Large/Fine: | Approx. 77 shots (approx. 110 shots) | |
| RAW: | Approx. 20 shots (approx. 25 shots) | |
| RAW+JPEG Large/Fine: | Approx. 20 shots (approx. 22 shots) | |
| \* Figures are based on Canon’s testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card. | | |
| \* Figures in parentheses apply to an UHS-I compatible 16GB card based on Canon’s testing standards. | | |
| **Flash** |  | | |
| Built-in flash | Retractable, auto pop-up flash Guide No.: Approx. 12 / 39.4 (ISO 100, in meters / feet) Flash coverage: Approx. 17mm lens angle of view Recharge time: Approx. 3sec. | | |
| External Speedlite | Compatible with EX-series Speedlites | | |
| Flash metering | E-TTL II autoflash | | |
| Flash exposure compensation | ±3 stops in 1/3- or 1/2-stop increments | | |
| FE lock | Provided | | |
| PC terminal | None | | |
| Flash control | Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible | | |
| **Live View Shooting** |  | | |
| Focus method | Dual Pixel CMOS AF system | | |
| AF method | Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible) | | |
| AF operation | One-Shot AF, Servo AF | | |
| Focusing brightness range | EV 0 - 18 (at room temperature, ISO 100) | | |
| Metering mode | Evaluative metering (315 zones), Partial metering (approx. 6.1% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering | | |
| Metering brightness range | EV 0 - 20 (at room temperature, ISO 100) | | |
| Exposure compensation | ±3 stops in 1/3-stop or 1/2-stop increments | | |
| Creative filters | Provided | | |
| Silent LV shooting | Provided (Mode 1 and 2) | | |
| Touch shutter | Provided | | |
| Grid display | Three types | | |
| **Movie Shooting** |  | | |
| Recording format | MOV/MP4 | | |
| Movie | MPEG-4 AVC / H.264 Variable (average) bit rate | | |
| Audio | MOV: Linear PCM, MP4: AAC | | |
| Recording size and frame rate | [MOV] | | |
| Full HD (1920x1080): | 29.97p / 25.00p / 23.98p | |
| [MP4] | | |
| Full HD (1920x1080): | 59.94p / 50.00p / 29.97p / 25.00p / 23.98p | |
| HD (1280x720): | 59.94p / 50.00p / 29.97p / 25.00p | |
| Compression method | [MOV] : | ALL-I (For editing / I-only) | |
| [MP4] : | IPB (Standard), IPB (Light) | |
| Bit rate | [MOV] | | |
| Full HD (29.97p / 25.00p / 23.98p) / ALL-I: | Approx. 90Mbps | |
| [MP4] | | |
| Full HD (59.94p / 50.00p) / IPB (Standard) : | Approx. 60Mbps | |
| Full HD (29.97p / 25.00p / 23.98p) / IPB (Standard) : | Approx. 30Mbps | |
| Full HD (29.97p / 25.00p) / IPB (Light) : | Approx. 12Mbps | |
| HD (59.94p / 50.00p) / IPB (Standard) : | Approx. 26Mbps | |
| HD (29.97p / 25.00p) / IPB (Light) : | Approx. 4Mbps | |
| HDR Movie Shooting : | Approx. 30Mbps | |
| Focus method | Dual Pixel CMOS AF system | | |
| AF method | Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible) | | |
| Movie Servo AF | Provided \* Movie Servo AF customizable | | |
| Digital zoom | Approx. 3 - 10x | | |
| Focusing brightness range | EV 0 - 18 (at room temperature, ISO 100) | | |
| Metering mode | Center-weighted average or Evaluative metering | | |
| Metering brightness range | EV 0 - 20 (at room temperature, ISO 100) | | |
| Exposure control | Autoexposure shooting (Program AE for movie shooting) and manual exposure | | |
| Exposure compensation | ±3 stops in 1/3- or 1/2-stop increments | | |
| ISO speed (Recommended exposure index) | For autoexposure shooting: | ISO 100 - ISO 12800 set automatically. In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 25600). | |
| For manual exposure shooting: | ISO Auto (ISO 100 - ISO12800 set automatically), ISO 100 - ISO 12800 set manually (1/3- and whole-stop increments), expandableto H (equivalent to ISO 25600) | |
| ISO speed settings | Range for movie shooting settable | | |
| HDR Movie Shooting | Possible | | |
| Creative filters for movies | Memory, Dream, Old Movies, Dramatic B&W, Miniature effect movie | | |
| Video snapshots | Settable to 2sec. / 4sec. / 8sec. | | |
| Sound recording | Built-in stereo microphones, external stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided | | |
| Headphones | Headphone terminal provided, sound volume adjustable | | |
| Grid display | Three types | | |
| Time-lapse movie | Shooting interval and number of shots settable, Required shooting time period, playback length, and remaining card capacity viewable | | |
| Still photo shooting | Not possible during movie shooting | | |
| **LCD Monitor** |  | | |
| Type | TFT color, liquid-crystal monitor | | |
| Monitor size and dots | Wide 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots | | |
| Brightness adjustment | Manual (7 levels) | | |
| Electronic level | Provided | | |
| Interface languages | 25 | | |
| Touch screen technology | Capacitive sensing | | |
| Feature guide / Help | Displayable | | |
| **Playback** |  | | |
| Image display format | Single-image display (without shooting information), Single-image display (with basic information), Single-Image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style 1, Picture Style 2, Color space / noise reduction, Lens aberration correction), Index display (4 / 9 / 36 / 100 images) | | |
| Highlight alert | Overexposed highlights blink | | |
| AF point display | Provided (may not be displayed depending on shooting conditions) | | |
| Grid display | Three types | | |
| Zoom magnification | Approx. 1.5 - 10x | | |
| Image browsing methods | Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating | | |
| Image rotation | Possible | | |
| Image protection | Possible | | |
| Rating | Provided | | |
| Movie playback | Enabled (LCD monitor, HDMI), built-in speaker | | |
| Slide show | All images, by date, by folder, by movies, by stills, by rating | | |
| Background music | Selectable for slide shows and movie playback | | |
| **Post-Processing of Images** | | | |
| In-camera RAW image processing | Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Peripheral illumination correction, Distortion correction, Chromatic aberration correction | | |
| Resize | Provided | | |
| Creative filters | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | | |
| **Print Ordering** |  | | |
| DPOF | Version 1.1 compliant | | |
| **Customization Features** | | | |
| Custom Functions | 26 | | |
| My Menu | Up to 5 screens can be registered | | |
| Custom shooting mode | Register under Mode Dial’s C1 or C2 | | |
| Copyright information | Entry and appending possible | | |
| **Interface** |  | | |
| DIGITAL terminal | Computer communication (Hi-Speed USB equivalent), GPS Receiver GP-E2, Connect Station CS100 connection | | |
| HDMI mini OUT terminal | Type C (Auto switching of resolution), CEC-compatible | | |
| External microphone IN terminal | 3.5mm diameter stereo mini-jack | | |
| Remote control terminal | For Remote Switch RS-60E3 | | |
| Wireless remote control | Compatible with Remote Controller RC-6 | | |
| Eye-Fi card | Compatible | | |
| **Power** |  | | |
| Battery | Battery Pack LP-E6N / LP-E6, quantity 1 \* AC power usable with household power outlet accessories. \*With Battery Grip BG-E14 attached, AA / R6 batteries can be used. | | |
| Battery information | Remaining capacity, Shutter count, Recharge performance, and Battery registration possible | | |
| Number of possible shots (Based on CIPA testing standards, with 50% flash use) | With viewfinder shooting: | Approx. 960 shots at room temperature (23°C / 73°F),  approx. 860 shots at low temperatures (0°C / 32°F) | |
| With Live View shooting: | Approx. 300 shots at room temperature (23°C / 73°F),  approx. 270 shots at low temperatures (0°C / 32°F) | |
| Movie shooting time | Total approx. 1hr. 50 min. at room temperature (23°C / 73°F) Total approx. 1hr. 40 min. at low temperatures (0°C / 32°F) \*With a fully-charged Battery Pack LP-E6N. | | |
| **Dimensions and Weight** | | | |
| Dimensions (W x H x D) | Approx. 139.0 x 105.2 x 78.5mm / 5.47 x 4.14 x 3.09in. | | |
| Weight | Approx. 730g / 25.75oz. (Based on CIPA Guidelines) Approx. 650g / 22.93oz. (Body only) | | |
| **Operation Environment** |  | | |
| Working temperature range | 0°C - 40°C / 32°F - 104°F | | |
| Working humidity | 85% or less | | |
| **Wireless Communications** |  | | |
| Standards compliance | IEEE 802.11b/g/n | | |
| Transmission method | DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n) | | |
| Transmission range | Approx. 15m / 49.2ft. \* When connected to a smartphone \* With no obstructions between the transmitting and receiving antennas and no radio interference | | |
| Transmission frequency (central frequency) | Frequency: | 2412 - 2462 MHz | |
| Channels: | 1 - 11 ch | |
| Connection method | Camera access point mode, infrastructure\* \* Wi-Fi Protected Setup supported | | |
| Security | Authentication method: Open system, Shared key, WPA/ WPA2-PSK Encryption: WEP, TKIP, AES | | |
| NFC connection | For communication with smartphones or connection to Connect Station | | |
| **Wi-Fi Functions** |  | | |
| Connection to smartphones | Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone is possible. Images can be sent to a smartphone. | | |
| Transfer images between cameras | Transferring one image, Transferring selected images, Transferring resized images | | |
| Connect to Connect Station | Images can be sent to and saved on Connect Station. | | |
| Remote operation using EOS Utility | Remote control functions and image viewing functions of EOS Utility can be used wirelessly. | | |
| Print from Wi-Fi printers | Images to be printed can be sent to a printer supporting Wi-Fi. | | |
| View images using a media player | Images can be viewed using a DLNA-compatible media player | | |
| Send images to a Web service | Images in the camera or links to images can be sent to registered Web services | | |
| **Battery Pack LP-E6N** |  | | |
| Type | Rechargeable lithium-ion battery | | |
| Rated voltage | 7.2V DC | | |
| Battery capacity | 1865mAh | | |
| Working temperature range | 0°C - 40°C / 32°F - 104°F | | |
|  | | |
| Working humidity | 85% or less | | |
| Dimensions (W x H x D) | Approx. 38.4 x 21.0 x 56.8mm / 1.5 x 0.8 x 2.2in. | | |
| Weight | Approx. 80g / 2.8oz. (excluding protective cover) | | |
| **Battery Charger LC-E6** |  | | |
| Compatible battery | Battery Pack LP-E6N / LP-E6 | | |
| Recharging time | Approx. 2hr. 30min. | | |
| Rated input | 100 - 240V AC (50 / 60 Hz) | | |
| Rated output | 8.4V DC / 1.2A | | |
| Working temperaturerange | 5°C - 40°C / 41°F - 104°F | | |
| Working humidity | 85% or less | | |
| Dimensions (W x H x D) | Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in. | | |
| Weight | Approx. 115g / 4.1oz. | | |
| **Battery Charger LC-E6E** |  | | |
| Compatible battery | Battery Pack LP-E6N / LP-E6 | | |
| Power cord length | Approx. 1m / 3.3ft. | | |
| Recharging time | Approx. 2hr. 30min. | | |
| Rated input | 100 - 240V AC (50 / 60 Hz) | | |
| Rated output | 8.4V DC / 1.2A | | |
| Working temperature range | 5°C - 40°C / 41°F - 104°F | | |
| Working humidity | 85% or less | | |
| Dimensions (W x H x D) | Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in. | | |
| Weight | Approx. 110g / 3.9oz. (excluding power cord) | | |
| **Type** | |  | |
| Type | | Digital, single-lens reflex, AF/AE camera with built-in flash | |
| Recording media | | SD/SDHC\*/SDXC\* memory cards \* UHS-I cards supported | |
| Image sensor size | | Approx. 22.3 x 14.9mm | |
| Compatible lenses | | Canon EF lenses (including EF-S lenses) \* Excluding EF-M lenses(35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.) | |
| Lens mount | | Canon EF mount | |
| **Image Sensor** | |  | |
| Type | | CMOS sensor | |
| Effective pixels | | Approx. 24.2 megapixels  \* Rounded off to the nearest 10,000th | |
| Aspect ratio | | 3:2 | |
| Dust delete feature | | Auto, Manual, Dust Delete Data appending | |
| **Recording System** | |  | |
| Recording format | | Design rule for Camera File System (DCF) 2.0 | |
| Image type | | JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible | |
| Pixels recorded | | L (Large) | 24.0 megapixels (6000 x 4000) |
| M (Medium): | Approx. 10.6 megapixels (3984 x 2656) |
| S1 (Small 1): | Approx. 5.9 megapixels (2976 x 1984) |
| S2 (Small 2): | Approx. 2.5 megapixels (1920 x 1280) |
| S3 (Small 3): | Approx. 350,000 pixels (720 x 480) |
| RAW: | 24.0 megapixels (6000 x 4000) |
| M-RAW: | 13.5 megapixels (4500 x 3000) |
| S-RAW: | 6.0 megapixels (3000 x 2000) |
| Aspect ratio | | 3:2, 4:3, 16:9, 1:1 | |
| Create / select a folder | | Possible | |
| File numbering | | Continuous, Auto reset, Manual reset | |
| **Image Processing During Shooting** | | | |
| Picture Style | | Auto, Standard, Portrait, Landscape, Fine Detail, Neutral,Faithful, Monochrome, User Defined 1 - 3 | |
| White balance | | Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500 - 10000K), White balance correction, and White balance bracketing provided   \* Flash color temperature information transmission enabled | |
| Noise reduction | | Applicable to long exposures and high ISO speed shots | |
| Automatic image brightness correction | | Auto Lighting Optimizer provided | |
| Highlight tone priority | | Provided | |
| Lens aberration correction | | Peripheral illumination correction, Chromatic aberration correction, Distortion correction | |
| **Viewfinder** | |  | |
| Type | | Eye-level pentaprism | |
| Coverage (by aspect ratio) | | 3:2 (vertical: approx. 100%, horizontal: approx. 100%), | |
| 4:3 (vertical: approx. 100%, horizontal: approx. 97%), | |
| 16:9 (vertical: approx. 97%, horizontal: approx. 100%), | |
| 1:1 (vertical: approx. 100%, horizontal: approx. 96%) | |
| \*With eyepoint at approx. 22mm. | |
| Magnification | | Approx. 0.95x (-1m-1 with 50mm lens at infinity) | |
| Eye point | | Approx. 22mm (from eyepiece lens center at -1m-1) | |
| Diopric adjustment range | | Approx. -3.0 - +1.0m-1 (dpt) | |
| Focusing screen | | Fixed | |
| Grid display | | Provided | |
| Electronic level | | Provided | |
| Mirror | | Quick-return type | |
| Depth-of-field preview | | Provided | |
| **Autofocus (for viewfinder shooting)** | | | |
| Type | | TTL secondary image-registration, phase-difference detection with the dedicated AF sensor | |
| AF points | | 45 (Cross-type AF point Max. 45 points) \* Number of available AF points, Dual cross-type AFpoints, and cross-type AF points vary depending on the lens used and aspect ratio settings. \* Dual cross-type focusing at f/2.8 with center AF point.(AF group: When Group A lenses are used) | |
| Focusing brightness range | | EV -3 - 18 (with the center AF point supporting f/2.8, One-Shot AF, at room temperature, ISO 100) | |
| Focus operation | | One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF) | |
| AF area selection mode | | Single-point AF (Manual selection), Zone AF (Manual selection of zone), Large Zone AF (manual selection of zone), 45-point automatic selection AF | |
| AF point automatic selection conditions | | AF points can be selected automatically using information on colors equivalent to skin tones | |
| AI Servo AF characteristics | | Tracking sensitivity, Acceleration / deceleration tracking, AF point auto switching | |
| AF fine adjustment | | AF Microadjustment (All lenses by same amount or Adjust by lens) | |
| AF-assist beam | | Small series of flashes fired by built-in flash | |
| **Exposure Control** | |  | |
| Metering mode | | 63-zone TTL open-aperture metering using 7560-pixel RGB plus IR metering sensor   * Evaluative metering (linked to all AF points) * Partial metering (approx. 6.0% of viewfinder at center) * Spot metering (approx. 3.8% of viewfinder at center) * Center-weighted average metering | |
| Metering brightness range | | EV 1 - 20 (at room temperature, ISO 100) | |
| Shooting mode | | Basic Zone modes | Scene Intelligent Auto, Flash Off, Creative Auto, Special scene modes (Food, Kids, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control, Portrait, Landscape, Close-up, Sports), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Toy camera effect,Miniature effect, Water painting effect, HDR art standard,HDR art vivid, HDR art bold, HDR art embossed) |
| Creative Zone modes: | Program AE, Shutter-priority AE, Aperture-priority AE,Manual exposure, Bulb exposure, Custom shootingmode |
| ISO speed (Recommended exposure index) | | Basic Zone modes\*: | ISO 100 - ISO 6400 set automatically |
| \* Handheld Night Scene: | ISO 100 - ISO 12800 set automatically, Landscape: ISO 100 - ISO 1600 set automatically |
| P, Tv, Av, M, B: ISO Auto, ISO 100 - ISO 16000 set manually (1/3- and whole-stop increments), and ISO expansion to H (equivalent to ISO 25600) | |
| ISO speed settings | | Range for stills, Auto range, and Minimum shutter speed for auto settable | |
| Exposure compensation | | Manual: | ±5 stops in 1/3- or 1/2-stop increments |
| AEB: | ±3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation) |
| AE lock | | Auto: | Applied in One-Shot AF with evaluative metering when focus is achieved |
| Manual: | With AE lock button |
| Anti-flicker | | Possible | |
| Interval timer | | Shooting interval and shot count settable | |
| Bulb timer | | Bulb exposure time settable | |
| **HDR Shooting** | |  | |
| Dynamic range adjustment | | Auto, ±1, ±2, ±3 | |
| Effects | | Natural, Art standard, Art vivid, Art bold, Art embossed | |
| Auto image alignment | | Provided | |
| **Multiple Exposures** | |  | |
| Number of multiple exposures | | 2 - 9 exposures | |
|  | |
| Multiple-exposure control | | Additive, Average | |
| **Shutter** | |  | |
| Type | | Electronically-controlled, focal-plane shutter | |
| Shutter speed | | 1/8000sec. to 30sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250sec. | |
| **Drive System** | |  | |
| Drive mode | | Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control | |
| Continuous shootingspeed | | High-speed continuous shooting: | Max. approx. 7.0 shots/sec.\* \* Max. approx. 5.0 shots/sec. during Live View shooting or when [Servo AF] is set. |
| Low-speed continuous shooting: | Max. approx. 3.0 shots/sec. |
| Silent continuous shooting: | Max. approx. 3.0 shots/sec. |
| Max. burst | | JPEG Large/Fine: | Approx. 77 shots (approx. 110 shots) |
| RAW: | Approx. 20 shots (approx. 25 shots) |
| RAW+JPEG Large/Fine: | Approx. 20 shots (approx. 22 shots) |
| \* Figures are based on Canon’s testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card. | |
| \* Figures in parentheses apply to an UHS-I compatible 16GB card based on Canon’s testing standards. | |
| **Flash** | |  | |
| Built-in flash | | Retractable, auto pop-up flash Guide No.: Approx. 12 / 39.4 (ISO 100, in meters / feet) Flash coverage: Approx. 17mm lens angle of view Recharge time: Approx. 3sec. | |
| External Speedlite | | Compatible with EX-series Speedlites | |
| Flash metering | | E-TTL II autoflash | |
| Flash exposure compensation | | ±3 stops in 1/3- or 1/2-stop increments | |
| FE lock | | Provided | |
| PC terminal | | None | |
| Flash control | | Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible | |
| **Live View Shooting** | |  | |
| Focus method | | Dual Pixel CMOS AF system | |
| AF method | | Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible) | |
| AF operation | | One-Shot AF, Servo AF | |
| Focusing brightness range | | EV 0 - 18 (at room temperature, ISO 100) | |
| Metering mode | | Evaluative metering (315 zones), Partial metering (approx. 6.1% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering | |
| Metering brightness range | | EV 0 - 20 (at room temperature, ISO 100) | |
| Exposure compensation | | ±3 stops in 1/3-stop or 1/2-stop increments | |
| Creative filters | | Provided | |
| Silent LV shooting | | Provided (Mode 1 and 2) | |
| Touch shutter | | Provided | |
| Grid display | | Three types | |
| **Movie Shooting** | |  | |
| Recording format | | MOV/MP4 | |
| Movie | | MPEG-4 AVC / H.264 Variable (average) bit rate | |
| Audio | | MOV: Linear PCM, MP4: AAC | |
| Recording size and frame rate | | [MOV] | |
| Full HD (1920x1080): | 29.97p / 25.00p / 23.98p |
| [MP4] | |
| Full HD (1920x1080): | 59.94p / 50.00p / 29.97p / 25.00p / 23.98p |
| HD (1280x720): | 59.94p / 50.00p / 29.97p / 25.00p |
| Compression method | | [MOV] : | ALL-I (For editing / I-only) |
| [MP4] : | IPB (Standard), IPB (Light) |
| Bit rate | | [MOV] | |
| Full HD (29.97p / 25.00p / 23.98p) / ALL-I: | Approx. 90Mbps |
| [MP4] | |
| Full HD (59.94p / 50.00p) / IPB (Standard) : | Approx. 60Mbps |
| Full HD (29.97p / 25.00p / 23.98p) / IPB (Standard) : | Approx. 30Mbps |
| Full HD (29.97p / 25.00p) / IPB (Light) : | Approx. 12Mbps |
| HD (59.94p / 50.00p) / IPB (Standard) : | Approx. 26Mbps |
| HD (29.97p / 25.00p) / IPB (Light) : | Approx. 4Mbps |
| HDR Movie Shooting : | Approx. 30Mbps |
| Focus method | | Dual Pixel CMOS AF system | |
| AF method | | Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible) | |
| Movie Servo AF | | Provided \* Movie Servo AF customizable | |
| Digital zoom | | Approx. 3 - 10x | |
| Focusing brightness range | | EV 0 - 18 (at room temperature, ISO 100) | |
| Metering mode | | Center-weighted average or Evaluative metering | |
| Metering brightness range | | EV 0 - 20 (at room temperature, ISO 100) | |
| Exposure control | | Autoexposure shooting (Program AE for movie shooting) and manual exposure | |
| Exposure compensation | | ±3 stops in 1/3- or 1/2-stop increments | |
| ISO speed (Recommended exposure index) | | For autoexposure shooting: | ISO 100 - ISO 12800 set automatically. In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 25600). |
| For manual exposure shooting: | ISO Auto (ISO 100 - ISO12800 set automatically), ISO 100 - ISO 12800 set manually (1/3- and whole-stop increments), expandableto H (equivalent to ISO 25600) |
| ISO speed settings | | Range for movie shooting settable | |
| HDR Movie Shooting | | Possible | |
| Creative filters for movies | | Memory, Dream, Old Movies, Dramatic B&W, Miniature effect movie | |
| Video snapshots | | Settable to 2sec. / 4sec. / 8sec. | |
| Sound recording | | Built-in stereo microphones, external stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided | |
| Headphones | | Headphone terminal provided, sound volume adjustable | |
| Grid display | | Three types | |
| Time-lapse movie | | Shooting interval and number of shots settable, Required shooting time period, playback length, and remaining card capacity viewable | |
| Still photo shooting | | Not possible during movie shooting | |
| **LCD Monitor** | |  | |
| Type | | TFT color, liquid-crystal monitor | |
| Monitor size and dots | | Wide 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots | |
| Brightness adjustment | | Manual (7 levels) | |
| Electronic level | | Provided | |
| Interface languages | | 25 | |
| Touch screen technology | | Capacitive sensing | |
| Feature guide / Help | | Displayable | |
| **Playback** | |  | |
| Image display format | | Single-image display (without shooting information), Single-image display (with basic information), Single-Image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style 1, Picture Style 2, Color space / noise reduction, Lens aberration correction), Index display (4 / 9 / 36 / 100 images) | |
| Highlight alert | | Overexposed highlights blink | |
| AF point display | | Provided (may not be displayed depending on shooting conditions) | |
| Grid display | | Three types | |
| Zoom magnification | | Approx. 1.5 - 10x | |
| Image browsing methods | | Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating | |
| Image rotation | | Possible | |
| Image protection | | Possible | |
| Rating | | Provided | |
| Movie playback | | Enabled (LCD monitor, HDMI), built-in speaker | |
| Slide show | | All images, by date, by folder, by movies, by stills, by rating | |
| Background music | | Selectable for slide shows and movie playback | |
| **Post-Processing of Images** | | | |
| In-camera RAW image processing | | Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Peripheral illumination correction, Distortion correction, Chromatic aberration correction | |
| Resize | | Provided | |
| Creative filters | | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | |
| **Print Ordering** | |  | |
| DPOF | | Version 1.1 compliant | |
| **Customization Features** | | | |
| Custom Functions | | 26 | |
| My Menu | | Up to 5 screens can be registered | |
| Custom shooting mode | | Register under Mode Dial’s C1 or C2 | |
| Copyright information | | Entry and appending possible | |
| **Interface** | |  | |
| DIGITAL terminal | | Computer communication (Hi-Speed USB equivalent), GPS Receiver GP-E2, Connect Station CS100 connection | |
| HDMI mini OUT terminal | | Type C (Auto switching of resolution), CEC-compatible | |
| External microphone IN terminal | | 3.5mm diameter stereo mini-jack | |
| Remote control terminal | | For Remote Switch RS-60E3 | |
| Wireless remote control | | Compatible with Remote Controller RC-6 | |
| Eye-Fi card | | Compatible | |
| **Power** | |  | |
| Battery | | Battery Pack LP-E6N / LP-E6, quantity 1 \* AC power usable with household power outlet accessories. \*With Battery Grip BG-E14 attached, AA / R6 batteries can be used. | |
| Battery information | | Remaining capacity, Shutter count, Recharge performance, and Battery registration possible | |
| Number of possible shots (Based on CIPA testing standards, with 50% flash use) | | With viewfinder shooting: | Approx. 960 shots at room temperature (23°C / 73°F),  approx. 860 shots at low temperatures (0°C / 32°F) |
| With Live View shooting: | Approx. 300 shots at room temperature (23°C / 73°F),  approx. 270 shots at low temperatures (0°C / 32°F) |
| Movie shooting time | | Total approx. 1hr. 50 min. at room temperature (23°C / 73°F) Total approx. 1hr. 40 min. at low temperatures (0°C / 32°F) \*With a fully-charged Battery Pack LP-E6N. | |
| **Dimensions and Weight** | | | |
| Dimensions (W x H x D) | | Approx. 139.0 x 105.2 x 78.5mm / 5.47 x 4.14 x 3.09in. | |
| Weight | | Approx. 730g / 25.75oz. (Based on CIPA Guidelines) Approx. 650g / 22.93oz. (Body only) | |
| **Operation Environment** | |  | |
| Working temperature range | | 0°C - 40°C / 32°F - 104°F | |
| Working humidity | | 85% or less | |
| **Wireless Communications** | |  | |
| Standards compliance | | IEEE 802.11b/g/n | |
| Transmission method | | DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n) | |
| Transmission range | | Approx. 15m / 49.2ft. \* When connected to a smartphone \* With no obstructions between the transmitting and receiving antennas and no radio interference | |
| Transmission frequency (central frequency) | | Frequency: | 2412 - 2462 MHz |
| Channels: | 1 - 11 ch |
| Connection method | | Camera access point mode, infrastructure\* \* Wi-Fi Protected Setup supported | |
| Security | | Authentication method: Open system, Shared key, WPA/ WPA2-PSK Encryption: WEP, TKIP, AES | |
| NFC connection | | For communication with smartphones or connection to Connect Station | |
| **Wi-Fi Functions** | |  | |
| Connection to smartphones | | Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone is possible. Images can be sent to a smartphone. | |
| Transfer images between cameras | | Transferring one image, Transferring selected images, Transferring resized images | |
| Connect to Connect Station | | Images can be sent to and saved on Connect Station. | |
| Remote operation using EOS Utility | | Remote control functions and image viewing functions of EOS Utility can be used wirelessly. | |
| Print from Wi-Fi printers | | Images to be printed can be sent to a printer supporting Wi-Fi. | |
| View images using a media player | | Images can be viewed using a DLNA-compatible media player | |
| Send images to a Web service | | Images in the camera or links to images can be sent to registered Web services | |
| **Battery Pack LP-E6N** | |  | |
| Type | | Rechargeable lithium-ion battery | |
| Rated voltage | | 7.2V DC | |
| Battery capacity | | 1865mAh | |
| Working temperature range | | 0°C - 40°C / 32°F - 104°F | |
|  | |
| Working humidity | | 85% or less | |
| Dimensions (W x H x D) | | Approx. 38.4 x 21.0 x 56.8mm / 1.5 x 0.8 x 2.2in. | |
| Weight | | Approx. 80g / 2.8oz. (excluding protective cover) | |
| **Battery Charger LC-E6** | |  | |
| Compatible battery | | Battery Pack LP-E6N / LP-E6 | |
| Recharging time | | Approx. 2hr. 30min. | |
| Rated input | | 100 - 240V AC (50 / 60 Hz) | |
| Rated output | | 8.4V DC / 1.2A | |
| Working temperaturerange | | 5°C - 40°C / 41°F - 104°F | |
| Working humidity | | 85% or less | |
| Dimensions (W x H x D) | | Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in. | |
| Weight | | Approx. 115g / 4.1oz. | |
| **Battery Charger LC-E6E** | |  | |
| Compatible battery | | Battery Pack LP-E6N / LP-E6 | |
| Power cord length | | Approx. 1m / 3.3ft. | |
| Recharging time | | Approx. 2hr. 30min. | |
| Rated input | | 100 - 240V AC (50 / 60 Hz) | |
| Rated output | | 8.4V DC / 1.2A | |
| Working temperature range | | 5°C - 40°C / 41°F - 104°F | |
| Working humidity | | 85% or less | |
| Dimensions (W x H x D) | | Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in. | |
| Weight | | Approx. 110g / 3.9oz. (excluding power cord) | |

**CANON 80D W/18-135 kit**

|  |  |  |
| --- | --- | --- |
| **Type** |  | |
| Type | Digital, single-lens reflex, AF/AE camera with built-in flash | |
| Recording media | SD/SDHC\*/SDXC\* memory cards \* UHS-I cards supported | |
| Image sensor size | Approx. 22.3 x 14.9mm | |
| Compatible lenses | Canon EF lenses (including EF-S lenses) \* Excluding EF-M lenses(35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.) | |
| Lens mount | Canon EF mount | |
| **Image Sensor** |  | |
| Type | CMOS sensor | |
| Effective pixels | Approx. 24.2 megapixels  \* Rounded off to the nearest 10,000th | |
| Aspect ratio | 3:2 | |
| Dust delete feature | Auto, Manual, Dust Delete Data appending | |
| **Recording System** |  | |
| Recording format | Design rule for Camera File System (DCF) 2.0 | |
| Image type | JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible | |
| Pixels recorded | L (Large) | 24.0 megapixels (6000 x 4000) |
| M (Medium): | Approx. 10.6 megapixels (3984 x 2656) |
| S1 (Small 1): | Approx. 5.9 megapixels (2976 x 1984) |
| S2 (Small 2): | Approx. 2.5 megapixels (1920 x 1280) |
| S3 (Small 3): | Approx. 350,000 pixels (720 x 480) |
| RAW: | 24.0 megapixels (6000 x 4000) |
| M-RAW: | 13.5 megapixels (4500 x 3000) |
| S-RAW: | 6.0 megapixels (3000 x 2000) |
| Aspect ratio | 3:2, 4:3, 16:9, 1:1 | |
| Create / select a folder | Possible | |
| File numbering | Continuous, Auto reset, Manual reset | |
| **Image Processing During Shooting** | | |
| Picture Style | Auto, Standard, Portrait, Landscape, Fine Detail, Neutral,Faithful, Monochrome, User Defined 1 - 3 | |
| White balance | Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500 - 10000K), White balance correction, and White balance bracketing provided   \* Flash color temperature information transmission enabled | |
| Noise reduction | Applicable to long exposures and high ISO speed shots | |
| Automatic image brightness correction | Auto Lighting Optimizer provided | |
| Highlight tone priority | Provided | |
| Lens aberration correction | Peripheral illumination correction, Chromatic aberration correction, Distortion correction | |
| **Viewfinder** |  | |
| Type | Eye-level pentaprism | |
| Coverage (by aspect ratio) | 3:2 (vertical: approx. 100%, horizontal: approx. 100%), | |
| 4:3 (vertical: approx. 100%, horizontal: approx. 97%), | |
| 16:9 (vertical: approx. 97%, horizontal: approx. 100%), | |
| 1:1 (vertical: approx. 100%, horizontal: approx. 96%) | |
| \*With eyepoint at approx. 22mm. | |
| Magnification | Approx. 0.95x (-1m-1 with 50mm lens at infinity) | |
| Eye point | Approx. 22mm (from eyepiece lens center at -1m-1) | |
| Diopric adjustment range | Approx. -3.0 - +1.0m-1 (dpt) | |
| Focusing screen | Fixed | |
| Grid display | Provided | |
| Electronic level | Provided | |
| Mirror | Quick-return type | |
| Depth-of-field preview | Provided | |
| **Autofocus (for viewfinder shooting)** | | |
| Type | TTL secondary image-registration, phase-difference detection with the dedicated AF sensor | |
| AF points | 45 (Cross-type AF point Max. 45 points) \* Number of available AF points, Dual cross-type AFpoints, and cross-type AF points vary depending on the lens used and aspect ratio settings. \* Dual cross-type focusing at f/2.8 with center AF point.(AF group: When Group A lenses are used) | |
| Focusing brightness range | EV -3 - 18 (with the center AF point supporting f/2.8, One-Shot AF, at room temperature, ISO 100) | |
| Focus operation | One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF) | |
| AF area selection mode | Single-point AF (Manual selection), Zone AF (Manual selection of zone), Large Zone AF (manual selection of zone), 45-point automatic selection AF | |
| AF point automatic selection conditions | AF points can be selected automatically using information on colors equivalent to skin tones | |
| AI Servo AF characteristics | Tracking sensitivity, Acceleration / deceleration tracking, AF point auto switching | |
| AF fine adjustment | AF Microadjustment (All lenses by same amount or Adjust by lens) | |
| AF-assist beam | Small series of flashes fired by built-in flash | |
| **Exposure Control** |  | |
| Metering mode | 63-zone TTL open-aperture metering using 7560-pixel RGB plus IR metering sensor   * Evaluative metering (linked to all AF points) * Partial metering (approx. 6.0% of viewfinder at center) * Spot metering (approx. 3.8% of viewfinder at center) * Center-weighted average metering | |
| Metering brightness range | EV 1 - 20 (at room temperature, ISO 100) | |
| Shooting mode | Basic Zone modes | Scene Intelligent Auto, Flash Off, Creative Auto, Special scene modes (Food, Kids, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control, Portrait, Landscape, Close-up, Sports), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Toy camera effect,Miniature effect, Water painting effect, HDR art standard,HDR art vivid, HDR art bold, HDR art embossed) |
| Creative Zone modes: | Program AE, Shutter-priority AE, Aperture-priority AE,Manual exposure, Bulb exposure, Custom shootingmode |
| ISO speed (Recommended exposure index) | Basic Zone modes\*: | ISO 100 - ISO 6400 set automatically |
| \* Handheld Night Scene: | ISO 100 - ISO 12800 set automatically, Landscape: ISO 100 - ISO 1600 set automatically |
| P, Tv, Av, M, B: ISO Auto, ISO 100 - ISO 16000 set manually (1/3- and whole-stop increments), and ISO expansion to H (equivalent to ISO 25600) | |
| ISO speed settings | Range for stills, Auto range, and Minimum shutter speed for auto settable | |
| Exposure compensation | Manual: | ±5 stops in 1/3- or 1/2-stop increments |
| AEB: | ±3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation) |
| AE lock | Auto: | Applied in One-Shot AF with evaluative metering when focus is achieved |
| Manual: | With AE lock button |
| Anti-flicker | Possible | |
| Interval timer | Shooting interval and shot count settable | |
| Bulb timer | Bulb exposure time settable | |
| **HDR Shooting** |  | |
| Dynamic range adjustment | Auto, ±1, ±2, ±3 | |
| Effects | Natural, Art standard, Art vivid, Art bold, Art embossed | |
| Auto image alignment | Provided | |
| **Multiple Exposures** |  | |
| Number of multiple exposures | 2 - 9 exposures | |
|  | |
| Multiple-exposure control | Additive, Average | |
| **Shutter** |  | |
| Type | Electronically-controlled, focal-plane shutter | |
| Shutter speed | 1/8000sec. to 30sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250sec. | |
| **Drive System** |  | |
| Drive mode | Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control | |
| Continuous shootingspeed | High-speed continuous shooting: | Max. approx. 7.0 shots/sec.\* \* Max. approx. 5.0 shots/sec. during Live View shooting or when [Servo AF] is set. |
| Low-speed continuous shooting: | Max. approx. 3.0 shots/sec. |
| Silent continuous shooting: | Max. approx. 3.0 shots/sec. |
| Max. burst | JPEG Large/Fine: | Approx. 77 shots (approx. 110 shots) |
| RAW: | Approx. 20 shots (approx. 25 shots) |
| RAW+JPEG Large/Fine: | Approx. 20 shots (approx. 22 shots) |
| \* Figures are based on Canon’s testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card. | |
| \* Figures in parentheses apply to an UHS-I compatible 16GB card based on Canon’s testing standards. | |
| **Flash** |  | |
| Built-in flash | Retractable, auto pop-up flash Guide No.: Approx. 12 / 39.4 (ISO 100, in meters / feet) Flash coverage: Approx. 17mm lens angle of view Recharge time: Approx. 3sec. | |
| External Speedlite | Compatible with EX-series Speedlites | |
| Flash metering | E-TTL II autoflash | |
| Flash exposure compensation | ±3 stops in 1/3- or 1/2-stop increments | |
| FE lock | Provided | |
| PC terminal | None | |
| Flash control | Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible | |
| **Live View Shooting** |  | |
| Focus method | Dual Pixel CMOS AF system | |
| AF method | Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible) | |
| AF operation | One-Shot AF, Servo AF | |
| Focusing brightness range | EV 0 - 18 (at room temperature, ISO 100) | |
| Metering mode | Evaluative metering (315 zones), Partial metering (approx. 6.1% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering | |
| Metering brightness range | EV 0 - 20 (at room temperature, ISO 100) | |
| Exposure compensation | ±3 stops in 1/3-stop or 1/2-stop increments | |
| Creative filters | Provided | |
| Silent LV shooting | Provided (Mode 1 and 2) | |
| Touch shutter | Provided | |
| Grid display | Three types | |
| **Movie Shooting** |  | |
| Recording format | MOV/MP4 | |
| Movie | MPEG-4 AVC / H.264 Variable (average) bit rate | |
| Audio | MOV: Linear PCM, MP4: AAC | |
| Recording size and frame rate | [MOV] | |
| Full HD (1920x1080): | 29.97p / 25.00p / 23.98p |
| [MP4] | |
| Full HD (1920x1080): | 59.94p / 50.00p / 29.97p / 25.00p / 23.98p |
| HD (1280x720): | 59.94p / 50.00p / 29.97p / 25.00p |
| Compression method | [MOV] : | ALL-I (For editing / I-only) |
| [MP4] : | IPB (Standard), IPB (Light) |
| Bit rate | [MOV] | |
| Full HD (29.97p / 25.00p / 23.98p) / ALL-I: | Approx. 90Mbps |
| [MP4] | |
| Full HD (59.94p / 50.00p) / IPB (Standard) : | Approx. 60Mbps |
| Full HD (29.97p / 25.00p / 23.98p) / IPB (Standard) : | Approx. 30Mbps |
| Full HD (29.97p / 25.00p) / IPB (Light) : | Approx. 12Mbps |
| HD (59.94p / 50.00p) / IPB (Standard) : | Approx. 26Mbps |
| HD (29.97p / 25.00p) / IPB (Light) : | Approx. 4Mbps |
| HDR Movie Shooting : | Approx. 30Mbps |
| Focus method | Dual Pixel CMOS AF system | |
| AF method | Face+Tracking, FlexiZone-Multi, FlexiZone-Single Manual focus (approx. 5x / 10x magnification possible) | |
| Movie Servo AF | Provided \* Movie Servo AF customizable | |
| Digital zoom | Approx. 3 - 10x | |
| Focusing brightness range | EV 0 - 18 (at room temperature, ISO 100) | |
| Metering mode | Center-weighted average or Evaluative metering | |
| Metering brightness range | EV 0 - 20 (at room temperature, ISO 100) | |
| Exposure control | Autoexposure shooting (Program AE for movie shooting) and manual exposure | |
| Exposure compensation | ±3 stops in 1/3- or 1/2-stop increments | |
| ISO speed (Recommended exposure index) | For autoexposure shooting: | ISO 100 - ISO 12800 set automatically. In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 25600). |
| For manual exposure shooting: | ISO Auto (ISO 100 - ISO12800 set automatically), ISO 100 - ISO 12800 set manually (1/3- and whole-stop increments), expandableto H (equivalent to ISO 25600) |
| ISO speed settings | Range for movie shooting settable | |
| HDR Movie Shooting | Possible | |
| Creative filters for movies | Memory, Dream, Old Movies, Dramatic B&W, Miniature effect movie | |
| Video snapshots | Settable to 2sec. / 4sec. / 8sec. | |
| Sound recording | Built-in stereo microphones, external stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided | |
| Headphones | Headphone terminal provided, sound volume adjustable | |
| Grid display | Three types | |
| Time-lapse movie | Shooting interval and number of shots settable, Required shooting time period, playback length, and remaining card capacity viewable | |
| Still photo shooting | Not possible during movie shooting | |
| **LCD Monitor** |  | |
| Type | TFT color, liquid-crystal monitor | |
| Monitor size and dots | Wide 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots | |
| Brightness adjustment | Manual (7 levels) | |
| Electronic level | Provided | |
| Interface languages | 25 | |
| Touch screen technology | Capacitive sensing | |
| Feature guide / Help | Displayable | |
| **Playback** |  | |
| Image display format | Single-image display (without shooting information), Single-image display (with basic information), Single-Image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style 1, Picture Style 2, Color space / noise reduction, Lens aberration correction), Index display (4 / 9 / 36 / 100 images) | |
| Highlight alert | Overexposed highlights blink | |
| AF point display | Provided (may not be displayed depending on shooting conditions) | |
| Grid display | Three types | |
| Zoom magnification | Approx. 1.5 - 10x | |
| Image browsing methods | Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating | |
| Image rotation | Possible | |
| Image protection | Possible | |
| Rating | Provided | |
| Movie playback | Enabled (LCD monitor, HDMI), built-in speaker | |
| Slide show | All images, by date, by folder, by movies, by stills, by rating | |
| Background music | Selectable for slide shows and movie playback | |
| **Post-Processing of Images** | | |
| In-camera RAW image processing | Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Peripheral illumination correction, Distortion correction, Chromatic aberration correction | |
| Resize | Provided | |
| Creative filters | Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect | |
| **Print Ordering** |  | |
| DPOF | Version 1.1 compliant | |
| **Customization Features** | | |
| Custom Functions | 26 | |
| My Menu | Up to 5 screens can be registered | |
| Custom shooting mode | Register under Mode Dial’s C1 or C2 | |
| Copyright information | Entry and appending possible | |
| **Interface** |  | |
| DIGITAL terminal | Computer communication (Hi-Speed USB equivalent), GPS Receiver GP-E2, Connect Station CS100 connection | |
| HDMI mini OUT terminal | Type C (Auto switching of resolution), CEC-compatible | |
| External microphone IN terminal | 3.5mm diameter stereo mini-jack | |
| Remote control terminal | For Remote Switch RS-60E3 | |
| Wireless remote control | Compatible with Remote Controller RC-6 | |
| Eye-Fi card | Compatible | |
| **Power** |  | |
| Battery | Battery Pack LP-E6N / LP-E6, quantity 1 \* AC power usable with household power outlet accessories. \*With Battery Grip BG-E14 attached, AA / R6 batteries can be used. | |
| Battery information | Remaining capacity, Shutter count, Recharge performance, and Battery registration possible | |
| Number of possible shots (Based on CIPA testing standards, with 50% flash use) | With viewfinder shooting: | Approx. 960 shots at room temperature (23°C / 73°F),  approx. 860 shots at low temperatures (0°C / 32°F) |
| With Live View shooting: | Approx. 300 shots at room temperature (23°C / 73°F),  approx. 270 shots at low temperatures (0°C / 32°F) |
| Movie shooting time | Total approx. 1hr. 50 min. at room temperature (23°C / 73°F) Total approx. 1hr. 40 min. at low temperatures (0°C / 32°F) \*With a fully-charged Battery Pack LP-E6N. | |
| **Dimensions and Weight** | | |
| Dimensions (W x H x D) | Approx. 139.0 x 105.2 x 78.5mm / 5.47 x 4.14 x 3.09in. | |
| Weight | Approx. 730g / 25.75oz. (Based on CIPA Guidelines) Approx. 650g / 22.93oz. (Body only) | |
| **Operation Environment** |  | |
| Working temperature range | 0°C - 40°C / 32°F - 104°F | |
| Working humidity | 85% or less | |
| **Wireless Communications** |  | |
| Standards compliance | IEEE 802.11b/g/n | |
| Transmission method | DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n) | |
| Transmission range | Approx. 15m / 49.2ft. \* When connected to a smartphone \* With no obstructions between the transmitting and receiving antennas and no radio interference | |
| Transmission frequency (central frequency) | Frequency: | 2412 - 2462 MHz |
| Channels: | 1 - 11 ch |
| Connection method | Camera access point mode, infrastructure\* \* Wi-Fi Protected Setup supported | |
| Security | Authentication method: Open system, Shared key, WPA/ WPA2-PSK Encryption: WEP, TKIP, AES | |
| NFC connection | For communication with smartphones or connection to Connect Station | |
| **Wi-Fi Functions** |  | |
| Connection to smartphones | Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone is possible. Images can be sent to a smartphone. | |
| Transfer images between cameras | Transferring one image, Transferring selected images, Transferring resized images | |
| Connect to Connect Station | Images can be sent to and saved on Connect Station. | |
| Remote operation using EOS Utility | Remote control functions and image viewing functions of EOS Utility can be used wirelessly. | |
| Print from Wi-Fi printers | Images to be printed can be sent to a printer supporting Wi-Fi. | |
| View images using a media player | Images can be viewed using a DLNA-compatible media player | |
| Send images to a Web service | Images in the camera or links to images can be sent to registered Web services | |
| **Battery Pack LP-E6N** |  | |
| Type | Rechargeable lithium-ion battery | |
| Rated voltage | 7.2V DC | |
| Battery capacity | 1865mAh | |
| Working temperature range | 0°C - 40°C / 32°F - 104°F | |
|  | |
| Working humidity | 85% or less | |
| Dimensions (W x H x D) | Approx. 38.4 x 21.0 x 56.8mm / 1.5 x 0.8 x 2.2in. | |
| Weight | Approx. 80g / 2.8oz. (excluding protective cover) | |
| **Battery Charger LC-E6** |  | |
| Compatible battery | Battery Pack LP-E6N / LP-E6 | |
| Recharging time | Approx. 2hr. 30min. | |
| Rated input | 100 - 240V AC (50 / 60 Hz) | |
| Rated output | 8.4V DC / 1.2A | |
| Working temperaturerange | 5°C - 40°C / 41°F - 104°F | |
| Working humidity | 85% or less | |
| Dimensions (W x H x D) | Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in. | |
| Weight | Approx. 115g / 4.1oz. | |
| **Battery Charger LC-E6E** |  | |
| Compatible battery | Battery Pack LP-E6N / LP-E6 | |
| Power cord length | Approx. 1m / 3.3ft. | |
| Recharging time | Approx. 2hr. 30min. | |
| Rated input | 100 - 240V AC (50 / 60 Hz) | |
| Rated output | 8.4V DC / 1.2A | |
| Working temperature range | 5°C - 40°C / 41°F - 104°F | |
| Working humidity | 85% or less | |
| Dimensions (W x H x D) | Approx. 69.0 x 33.0 x 93.0mm / 2.7 x 1.3 x 3.7in. | |
| Weight | Approx. 110g / 3.9oz. (excluding power cord) | |

**FUJU FULM YT20 16-55 lens**

|  |  |
| --- | --- |
| **Model Name** | FUJIFILM X-T20 |
| **Number of effective pixels** | 24.3 millions pixels |
| **Image sensor** | 23.6mm x 15.6mm(APS-C)X-Trans CMOS III with primary color filter.  **Sensor Cleaning system**  Ultra Sonic Vibration |
| **Storage media** | SD Card (-2G) / SDHC Card (-32G) / SDXC Card (-256G) UHS-I\*1 |
| **File format** | **Still image**  JPEG (Exif Ver.2.3)\*2, RAW : 14bit RAW(RAF original format), RAW+JPEG  **Movie**  MOV (MPEG-4 AVC / H.264, Audio : Linear PCM / Stereo sound 48KHz sampling) |
| **Number of recorded pixels** | L: (3:2) 6000 x 4000 / (16:9) 6000 x 3376 / (1:1) 4000 x 4000 M: (3:2) 4240 x 2832 / (16:9) 4240 x 2384 / (1:1) 2832 x 2832 S: (3:2) 3008 x 2000 / (16:9) 3008 x 1688 / (1:1) 2000 x 2000  <Panorama> L: 2160 x 9600 (Horizontal : 9600 x 1440) M: 2160 x 6400 (Horizontal : 6400 x 1440) |
| **Lens mount** | FUJIFILM X mount |
| **Sensitivity** | Standard Output Sensitivity : AUTO1 / AUTO2 / AUTO3(up to ISO12800) / ISO200 to 12800(1/3 EV step) Extended output sensitivity : ISO100 / 25600 / 51200 |
| **Exposure control** | TTL 256-zone metering, Multi / Spot / Average / Center Weighted |
| **Exposure mode** | P(Program AE) / A(Aperture Priority AE) / S(Shutter Speed Priority AE) / M(Manual Exposure) |
| **Exposure compensation** | -5.0EV - +5.0EV, 1/3EV step (movie recording : -2.0EV - +2.0EV) |
| **Image Stabilizer** | Supported with OIS type lenses |
| **Shutter type** | Focal Plane Shutter |
| **Shutter speed** | **Mechanical Shutter**  4 sec. to 1/4000 sec.(P mode), 30 sec. to 1/4000 sec.(All modes) Bulb mode(up to 60 min), TIME : 30 sec. to 1/4000 sec.  **Electronic Shutter\*3**  4 sec. to 1/4000 sec.(P mode) 1 sec. to 1/32000 sec. (P / A / S / M modes) Bulb mode : 1 sec. fixed, TIME : 1sec to 1/32000sec.  **Mechanical + Electronic Shutter**  4 sec. to 1/32000 sec.(P mode), 30 sec. to 1/32000 sec.(All modes) Bulb mode(up to 60 min), TIME : 30 sec. to 1/32000 sec.  **Synchronized shutter speed for flash**  1/180 sec. or slower |
| **Continuous shooting** | Approx. 14.0 fps [Only Electronic Shutter](JPEG: 42 frames Lossless compression RAW: 23 frame Uncompressed RAW: 22 frames) Approx. 11.0 fps [Only Electronic Shutter](JPEG: 56 frames Lossless compression RAW: 24 frame Uncompressed RAW: 23 frames) Approx. 8.0 fps (JPEG: 62 frames Lossless compression RAW: 25 frame Uncompressed RAW: 23 frames) Approx. 5.0 fps (JPEG: 68 frames Lossless compression RAW: 28 frame Uncompressed RAW: 25 frames) Approx. 4.0 fps (JPEG: 73 frames Lossless compression RAW: 29 frame Uncompressed RAW: 25 frames) Approx. 3.0 fps (JPEG: 81 frames Lossless compression RAW: 32 frame Uncompressed RAW: 27 frames)   * \* recordable frames depends on recording media * \* Speed of continuous shooting depends on shooting environment and shooting frames |
| **Auto bracketing** | AE Bracketing(±2EV / ±5/3EV / ±4/3EV / ±1EV / ±2/3EV / ±1/3EV)  Film simulation bracketing(Any 3 types of film simulation selectable)  Dynamic Range Bracketing (100% · 200% · 400%) ISO sensitivity Bracketing (±1/3EV / ±2/3EV / ±1EV)  White Balance Bracketing (±1 / ±2 / ±3) |
| **Focus** | **mode**  Single AF / Continuous AF / MF  **type**  Intelligent Hybrid AF (TTL contrast AF / TTL phase detection AF)  **AF frame selection**  Single point AF: EVF / LCD: 13x7 / 25x13 (Changeable size of AF frame among 5 types),  Zone AF: 3x3 / 5x5 / 7x7 from 91 areas on 13x7 grid, Wide/Tracking AF: (up to 18 area)   * \* AF-S : Wide * \* AF-C : Tracking |
| **White balance** | Automatic scene recognition / Custom / Color temperature selection (K) / Preset : Daylight, Shade, Fluorescent light (Daylight), Fluorescent light (Warm White), Fluorescent light (Cool White), Incandescent light, Underwater |
| **Self-timer** | 10sec. / 2sec. |
| **Interval timer shooting** | Yes (Setting : Interval, Number of shots, Starting time) |
| **Flash** | Manual pop-up flash (Super Intelligent Flash) Guide number : approx. 7 (ISO200 · m) / approx. 5 (ISO100 · m) |
| **Flash modes** | **FLASH MODE**  TTL(FLASH AUTO / STANDARD / SLOW SYNC.) / MANUAL / COMMANDER / OFF  **SYNC. MODE**  1ST CURTAIN / 2ND CURTAIN |
| **Hot shoe** | Yes (Dedicated TTL Flash compatible) |
| **Viewfinder** | 0.39-in., approx. 2,360K-dot OLED color viewfinder, Coverage of viewing area vs. capturing area : approx. 100%  Eye point : approx. 17.5mm ( from the rear end of the camera's eyepiece), Diopter adjustment : -4m ~ +2m-1(dpt)  Magnification : 0.62x with 50mm lens(35mm format equivalent) at infinity and diopter set to -1m-1.  Diagonal angle of view : approx. 30°( Horizontal angle of view : approx. 25°) Built-in eye sensor |
| **LCD monitor** | 3.0-inch, aspect ratio 3:2, approx. 1040K-dot Tilt-type TFT color LCD monitor (approx. 100% coverage) |
| **Movie recording** | [4K (3840x2160)] 29.97p / 25p / 24p / 23.98P, 100Mbps Continuous recording : up to approx. 10 min. [Full HD (1920x1080)] 59.94p / 50p / 29.97p / 25p / 24p / 23.98P, 36Mbps Continuous recording : up to approx. 15 min. [HD (1280x720)] 59.94p / 50p / 29.97p / 25p / 24p / 23.98P, 18Mbps Continuous recording : up to approx. 30 min.   * \* For 4K movie recording, use a card with UHS Speed Class 3 or higher. * \* Although movie recording will continue without interruption when the file size reaches 4 GB, subsequent footage will be recorded to a separate file which must be viewed separately. |
| **Photography functions** | Advanced SR AUTO, Face / Eye detection AF, Auto Red-eye Removal, Select custom setting, Panorama, Color space, Setting (Color, Sharpness, D-range, Highlight tone, Shadow tone), Framing guideline, Frame No. memory, Histogram display, Preview depth of focus, Lens Modulatioon Optimizer, Pre-AF, Focus check, Focus Peak Highlight, Digital Split Image™ \*4, Electronic level, Multiple exposure, Release priority / Focus priority selection, Fn button setting , ISO AUTO control, Instant AF setting (AF-S/AF-C), AF-C CUSTOM SETTINGS , SHUTTER AF , SHUTTER AE , AF-ON , Interlock spot AE & Focus area, Focus area setting, AEL/AFL button setting, Edit/Save Quick menu, Preview exp./WB in manual mode, Shutter Type, Touch Screen Setting |
| **Touch Screen Mode** | **Shooting Mode**  Touch Shooting, AF, Focus Area, OFF  **Playback Mode**  Swipe, Zoom, Pinch-in / Pinch-out, Double-tap, Drag |
| **Film Simulation mode** | 15 modes (PROVIA / Standard, Velvia / Vivid, ASTIA / Soft, Classic Chrome, PRO Neg.Hi, PRO Neg.Std, Black& White, Black& White+Ye Filter, Black& White+R Filter, Black& White+GFilter, Sepia, ACROS, ACROS+Ye Filter, ACROS＋R Filter, ACROS＋G Filter) |
| **Grain Effect** | STRONG , WEAK , OFF |
| **Dynamic range setting** | AUTO, 100%, 200%, 400% |
| **Advanced filter** | Toy camera / Miniature / Pop color / High-key / Low-key / Dynamic tone / Soft focus / Partial color (Red / Orange / Yellow / Green / Blue / Purple) |
| **Playback functions** | RAW conversion, Image rotate, Auto image rotate, Face Detection, Red-eye removal, Photobook assist, Erase selected frames, Multi-frame playback (with micro thumbnail), Slide show, Protect, Crop, Resize, Panorama, Favorites |
| **Wireless transmitter** | **Standard**  IEEE 802.11b / g / n (standard wireless protocol)  **Encryption**  WEP / WPA / WPA2 mixed mode  **Access mode**  Infrastructure |
| **Wireless function** | Geotagging, Wireless communication (Image transfer), View & Obtain Images, Remote camera shooting, PC Autosave, instax printer print |
| **Other functions** | Exif Print, 35 Languages, Date/Time, Time difference, Sound & Flash OFF, Performance Setting, Preview exp. in Manual mode, LCD Brightness, LCD Color, Preview Pic. Effect, DISP. Custom Setting , Copyright Setting |
| **Terminal** | **Digital interface**  USB2.0 (High-Speed) / micro USB terminal   * \* connectable with Remote Release RR-90 (sold separately)   **HDMI output**  HDMI micro connector (Type D)  **Other**  Φ2.5mm, stereo mini connector [Microphone] |
| **Power supply** | NP-W126S Li-ion battery (included)  **Battery life for still images\*5**  Approx. 350 frames (When XF35mmF1.4 R is set, LCD monitor ON)  **Actual battery life of movie capture\*5**   * **\*Face detection is set to OFF**   4K: approx. 50 min., FULL HD: approx. 60 min.  **Continuance battery life of movie capture\*5**   * **\*Face detection is set to OFF**   4K: approx. 70 min., FULL HD: approx. 95 min. |
| **Dimensions** | 118.4mm (W) x 82.8mm (H) x 41.4mm (D) / 4.66in. (W) x 3.26in. (H) x 1.63in. (D) (Minimum Depth : 31.9mm / 1.3 in.) |
| **Weight** | Approx. 383g / 13.5 oz. (including battery and memory card) Approx. 333g / 11.8 oz. (excluding accessories, battery and memory card) |
| **Operating Temperature** | 0°C - 40°C (+32°F - +104°F)C |
| **Operating Humidity** | 10 - 80% (no condensation) |
| **Starting up period** | Approx 0.4sec.   * \* Fujifilm research |
| **Accessories included** | Li-ion battery NP-W126S Battery charger BC-W126 Body cap Shoulder strap Metal strap clip Protective cover Clip attaching tool Owner's manual |