

IMAGE SENSOR

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| Type | 36 x 24 mm CMOS |
| Effective Pixels | Approx. 22.3 megapixels |
| Total Pixels | Approx. 23.4 megapixels |
| Aspect Ratio | 3:2 |
| Low-Pass Filter | Built-in/Fixed with fluorine coating |
| Sensor Cleaning | EOS integrated cleaning system |
| Colour Filter Type | Primary Colour |

IMAGE PROCESSOR

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| Type | DIGIC 5+ |
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LENS

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| Lens Mount | EF (excludes EF-S lenses) |
| Focal Length | Equivalent to 1.0x the focal length of the lens |

FOCUSING

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|--------------------------------|--|
| Type | TTL-CT-SIR with a dedicated CMOS sensor |
| AF System/ Points ¹ | 61 Point / 41 f/4 cross-type AF points inc 5 dual cross type at f/2.8 |
| AF working range | EV -2 - 18 (at 23°C & ISO100) |
| AF Modes | AI Focus One Shot AI Servo |
| AF Point Selection | Automatic selection: 61 point AF Manual selection: Single point AF (61, 41 cross type only, 15 or 9 points selectable) Manual selection: Spot AF Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding 8 points Manual selection: Zone AF AF points can be selected separately for vertical and horizontal shooting |
| Selected AF point display | Superimposed in viewfinder and indicated on top LCD panel and Quick Control screen |
| AF Lock | Locked when shutter button is pressed half way in One Shot AF mode or AF-ON button is pressed. |
| AF Assist Beam | Emitted by optional dedicated Speedlite |
| Manual Focus | Selected on lens, default in Live View Mode |
| AF Microadjustment | AF Menu +/- 20 steps (wide and tele setting for Zooms) Adjust all lenses by same amount Adjust up to 40 lenses individually Adjustments remembered for lens by serial number |

EXPOSURE CONTROL

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| Metering modes | TTL full aperture metering with 63 zone Dual Layer SPC (1) Evaluative metering (linked to All AF point) (2) Partial metering (approx. 6.2% of viewfinder at centre) (3) Spot metering (approx. 1.5% viewfinder at centre) (4) Centre weighted average metering |
| Metering Range | EV 1 - 20 (at 23°C with 50mm f/1.4 lens ISO100) |
| AE Lock | Auto: In 1-shot AF mode with evaluative metering exposure is locked when focus is achieved Manual: By AE lock button in creative zone modes |
| Exposure Compensation | +/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB). |
| AEB | 2, 3, 5 or 7 Shots +/-3 EV 1/3 or 1/2 stop increments |
| ISO Sensitivity ² | 100-25600 (in 1/3-stop or whole stop increments) ISO can be expanded to L: 50, H1: 51200, H2 102400 |

| SHUTTER | | |
|---------------|---|--|
| | Type Speed | Electronically-controlled focal-plane shutter 30-1/8000 sec (1/2 or 1/3 stop increments) + Bulb (Shutter speed range available varies according to shooting mode) |
| WHITE BALANCE | | |
| | Type Settings Custom White Balance WB Bracketing | Auto white balance with the imaging sensor AWB, Daylight, Shade, Cloudy, Tungsten, White Fluorescent light, Flash, Custom, Colour Temperature Setting White balance compensation: 1. Blue/Amber +/-9 2. Magenta/ Green +/-9 Yes, 1 setting can be registered +/-3 levels in single level increments 3 bracketed images per shutter release. Selectable Blue/Amber bias or Magenta/ Green bias. |
| VIEWFINDER | | |
| | Type Coverage (Vertical/Horizontal) Magnification Eyepoint Dioptre Correction Focusing Screen Mirror Viewfinder Information Depth of field preview Eyepiece shutter | Pentaprism Approx. 100% Approx. 0.71x ³ Approx. 21 mm (from eyepiece lens centre) -3 to +1 m-1 (dioptré) Fixed (Transmissive LCD screen) Quick-return half mirror (Transmission: reflection ratio of 40:60, no mirror cut-off with EF600mm f/4 or shorter) AF information: AF point, focus confirmation, AF status indicator Exposure information: Shutter speed, aperture, ISO speed (always displayed), AE lock, exposure level, exposure warning Flash information: Flash ready, flash exposure compensation, high-speed sync, FE lock, red-eye reduction light Image information: Highlight tone priority (D+), maximum burst (2-digit display), card information, battery check, composition information grid, electronic level Warning symbol displayed if any of the following is set: Monochrome, white balance correction, One-touch recording quality switch, expanded ISO speed, or spot metering Yes, with Depth of Field preview button. On strap |
| LCD MONITOR | | |
| | Type Coverage Viewing Angle (horizontally/vertically) Coating Brightness Adjustment Display Options | 8.11 cm (3.2") Clear View II TFT, approx. 1040K dots Approx. 100% Approx. 170° Anti-reflection and Solid Structure Automatic, Manual adjustable to one of seven levels (1) Quick Control Screen (2) Camera settings (3) Dual Axis Electronic Level |
| FLASH | | |
| | Modes X-sync Flash Exposure Compensation Flash Exposure Bracketing Flash Exposure Lock Second Curtain Synchronisation | E-TTL II Auto Flash, Metered Manual 1/200sec (EX series Speedlites only) +/- 3EV in 1/2 or 1/3 increments Yes, with compatible External Flash Yes Yes |

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| | HotShoe/ PC terminal External Flash Compatibility External Flash Control | Yes / Yes E-TTL II with EX series Speedlites, wireless multi-flash support Via camera menu screen |
| SHOOTING | | |
| | Modes Picture Styles Colour Space Image Processing Drive modes Continuous Shooting | Auto+, Program AE, Shutter priority AE, Aperture priority AE, Manual (Stills and Movie), Custom (x3) Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Defined (x3) sRGB and Adobe RGB Highlight Tone Priority Auto Lighting Optimizer (4 settings) Long exposure noise reduction High ISO speed noise reduction (4 settings) Auto Correction of Lens Peripheral illumination Chromatic aberration correction Distortion correction Resize to M1, M2 or S RAW image processing - during image Playback only Multiple exposure HDR images 5 presets Single, Continuous L, Continuous H, Self-timer (2s+remote, 10s+remote), Silent single shooting, Silent continuous shooting. Max. Approx. 6fps. (speed maintained for up to 16270 images (JPEG) ^{4,5} or 18 images (RAW)) (with UDMA card) ⁵ |
| LIVE VIEW MODE | | |
| | Type Coverage Frame Rate Focusing Metering Display Options | Electronic viewfinder with image sensor Approx. 100% (horizontally and vertically) 30 fps Manual Focus (Magnify the image 5x or 10x at any point on screen) Autofocus: Quick mode, Live mode, Live Face detection mode Real-time evaluative metering with image sensor Active metering time can be changed Grid overlay (x3), Histogram, Aspect ratios, Dual Axis Electronic Level |
| FILE TYPE | | |
| | Still Image Type RAW+JPEG simultaneous recording Image Size Movie Type Movie Size Movie Length Folders File Numbering | JPEG: Fine, Normal (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system (2.0), RAW: RAW, sRAW1, sRAW2 (14bit, Canon original RAW 2nd edition), Digital Print Order Format [DPOF] Version 1.1 compliant Yes, any combination of RAW + JPEG possible, separate formats to separate cards possible JPEG: (L) 5760 x 3840, (M) 3840 x 2560, (S1) 2880 x 1920, (S2) 1920 x 1280, (S 3) 720 x 480 RAW : (RAW) 5760 x 3840 (M-RAW) 3960 x 2640, (S-RAW) 2880 x 1920 MOV (Video: H.264 Intra frame / inter frame, Sound: Linear PCM) 1920 x 1080 (29.97, 25, 23.976 fps) intra or inter frame 1280 x 720 (59.94, 50 fps) intra or inter frame 640 x 480 (25, 30 fps) inter frame Max duration 29min 59sec, Max single file size 4GB New folders can be manually created and selected (1) Consecutive numbering (2) Auto reset (3) Manual reset |

| OTHER FEATURES | | |
|----------------------------|-------------------------------------|---|
| | Custom Functions | 13 Custom Functions with 47 settings |
| | Metadata Tag | User copyright information (can be set in camera) Image rating (0-5 stars) |
| | LCD Panel / Illumination | Yes / Yes |
| | Water/ Dust resistance ⁶ | Yes (equal to EOS-1N) |
| | Sound Memo | No |
| | Intelligent Orientation Sensor | Yes |
| | Playback zoom | 1.5x - 10x |
| | Display Formats | (1) Single image with information (2 levels) (2) Single image (3) 4 image index (4) 9 image index (5) Magnified view (6) 2 image compare display (7) Movie edit |
| | Slide Show | Image selection: All images, by Date, by Folder, Movies, Stills, Rating Playback time: 1/2/3/5/10 or 20 seconds Repeat: On/Off |
| | Histogram | Brightness: Yes RGB: Yes |
| | Highlight Alert | Yes |
| | Image Erase/Protection | Erase: Single image, All images in folder, Checkmarked images, unprotected images Protection: Erase protection of one image at a time |
| | Menu Categories | (1) Shooting menu (x4) (2) AF Menu (x5) (3) Playback menu (x3) (4) Setup menu (x4) (5) Custom Functions menu (x4) (6) My Menu |
| | Menu Languages | 25 Languages English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese |
| | Firmware Update | Update possible by the user |
| INTERFACE | | |
| | Computer | Hi-Speed USB |
| | Other | HDMI mini output, Video output (PAL/ NTSC), Headphone mini jack, External microphone (Stereo mini jack) |
| DIRECT PRINT | | |
| | Canon Printers | Canon Compact Photo Printers and PIXMA Printers supporting PictBridge |
| | PictBridge | Yes |
| STORAGE | | |
| | Type | CompactFlash Type I (UDMA compatible), SD card, SDHC card or SDXC card |
| SUPPORTED OPERATING SYSTEM | | |
| | PC & Macintosh | Windows XP (SP2/SP3) / Vista inc SP1 (excl. Starter Edition) / 7 (excl. Starter Edition) OS X v10.6-10.7 |

| SOFTWARE | | |
|-------------------------|--|---|
| | Browsing & Printing Image Processing Other | ImageBrowser EX Digital Photo Professional PhotoStitch, EOS Utility (inc. Remote Capture, WFT utility ⁷), Picture Style Editor |
| POWER SOURCE | | |
| | Batteries Battery life Battery Indicator Power saving Power Supply & Battery Chargers | Rechargeable Li-ion Battery LP-E6 (supplied), 1xCR1616 for date & settings Approx. 950 (at 23°C, AE 50%, FE 50%) ² Approx. 850 (at 0°C, AE 50%, FE 50%) 6 levels + percentage Power turns off after 1, 2, 4, 8, 15 or 30mins. AC Adapter Kit ACK-E6, Battery charger LC-E6, Car Battery charger CBC-E6 |
| PHYSICAL SPECIFICATIONS | | |
| | Body Materials Operating Environment Dimensions (WxHxD) Weight (body only) | Magnesium Alloy body covers 0 – 40 °C, 85% or less humidity 152 x 116.4 x 76.4mm Approx. 950 (CIPA Guidelines) |
| ACCESSORIES | | |
| | Viewfinder Wireless File Transmitter Lenses Flash Battery Grip Remote Controller/ Switch Other | Eyecup Eg, Eg-series Dioptic Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Angle Finder C Wireless File Transmitter WFT-E7 All EF lenses (excludes EF-S lenses) Canon Speedlites (220EX, 270EX, 270EX II, 320EX, 420EX, 430EX, 430EX II, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, Macro-Ring-Lite, MR-14EX, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, ST-E3-RT) BG-E11 Remote control with N3 type contact, Wireless Controller LC-5, Remote Controller RC-6 Hand Strap E2, GP-E2 |

**All data is based on Canon standard testing methods except where indicated.
Subject to change without notice.**

[1] The number of cross-type AF points will differ depending on the lens.

[2] Recommended Exposure Index

[3] With 50mm lens at infinity, -1m-1 dpt

[4] Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style

Varies depending on the subject, memory card brand and capacity, image recording quality, ISO speed, drive mode, Picture Style, Custom functions etc.

[5] Maximum fps and buffer capacity may be reduced depending on the cameras settings and light level

[6] Environmental protection

[7] Requires optional accessory