

IMAGE SENSOR		
Type	35.9 x 24 mm CMOS	
Effective Pixels	Approx. 26.2 Megapixels	
Total Pixels	Approx. 27.1 Megapixels	
Aspect Ratio	3:2	
Low-Pass Filter	Built-in/Fixed	
Sensor Cleaning	EOS integrated cleaning system	
Colour Filter Type	Primary Colour	
IMAGE PROCESSOR		
Type	DIGIC 8	
LENS		
Lens Mount	RF (EF and EF-S lenses can be attached using Mount Adapter EF-EOS R, Control Ring Mount Adapter EF-EOS R, or Drop-In Filter Mount Adapter EF-EOS R. EF-M lenses are not compatible)	
Focal Length	Equivalent to 1.0x the focal length of the lens with RF and EF lenses 1.6x with EF-S	
FOCUSING		
Type	Phase-difference detection system with image sensor (Dual Pixel CMOS AF)	
Coverage	88% horizontal and 100% vertical coverage [10]	
AF working range	EV -5 to 18 (at 23°C & ISO100)	
AF Modes	One Shot Servo AF	
AF Point Selection	Automatic selection: Face+tracking + Eye AF Manual selection: 1-point AF (AF frame size can be changed) 4779 AF positions available Spot AF Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding Manual selection: Zone AF (all AF points divided into 9 focusing zones)	
AF Lock	Locked when shutter button is pressed halfway or AF ON is pressed in One Shot AF mode. Using customised button set to AF stop in AI servo	
AF Assist Beam	Emitted by built-in LED	
Manual Focus	Selected on lens Focus peaking provided	
EXPOSURE CONTROL		
Metering modes	Real-time with image sensor, 384-zone metering (24x16) (1) Evaluative metering (linked to all AF points) (2) Partial metering (approx. 5.5% of viewfinder at centre) (3) Spot metering: Centre spot metering (approx. 2.7% viewfinder at centre) AF point-linked spot metering not provided (4) centre-weighted average metering	
Metering Brightness Range	EV -3 to 20 (at 23°C, ISO100, with evaluative metering)	
AE Lock	Auto: AE lock takes effect when focus is achieved Manual: By AE lock button in P, Av, Fv, Tv and M modes	
Exposure Compensation	+/-3 EV in 1/3 or 1/2 stop increments (can be combined with AEB).	
AEB	+/-3 EV in 1/3 or 1/2 stop increments	
Anti-flicker shooting	Yes. Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease	
ISO Sensitivity [B]	Auto 100-40000 (in 1/3-stop or whole stop increments) ISO can be expanded to L:50, H1: 51200, H2: 102400,	
Type	Electronically-controlled focal-plane shutter	
Speed	30-1/4000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)	
Shutter Release	Soft touch electromagnetic release	
WHITE BALANCE		
Type	Auto white balance with the imaging sensor	
Settings	AWB (Ambience priority/White priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting White balance compensation: 1. Blue/Amber +/-9 2. Magenta/Green +/-9	
Custom White Balance	Yes, 1 setting can be registered	
WB Bracketing	+/-3 levels in single level increments Selectable Blue/Amber bias or Magenta/Green bias +/-3 levels in single level increments Selectable Blue/Amber bias or Magenta/Green bias	
VIEWFINDER		
Type	0.39-inch OLED colour EVF	
Dot count	2.36 Million dots	
Coverage (Vertical/Horizontal)	Approx. 100%	
Magnification	Approx. 0.70x [1]	
Eyepoint	Approx. 22 mm (from eyepiece lens centre) 4 to +1 m ⁻¹ (diopetre)	
Viewfinder Information	AF point information, Exposure level indicator, Number of remaining multiple exposures, Exposure compensation, HDR shooting, Highlight tone priority, Multiple-exposure shooting, ISO speed, Possible shots, Multi Shot Noise Reduction, Number of self-timer shooting, Digital Lens Optimizer, Maximum burst, AF method, Battery level, AF operation, Exposure simulation, Drive mode, AEB, Metering mode, FEB, Anti-flicker shooting, Still photo cropping, Shooting mode, Aspect ratio, Scene icons Auto Lighting Optimizer, AE lock Picture Style, Flash-ready, White balance, Flash off White balance correction, FE lock, Image Quality, High-speed sync, Bluetooth function, Shutter speed, Wi-Fi function, Multi-function lock warning, Histogram, Aperture Electronic level, Lens information	
Depth of field preview	Yes, via customised button	
Eyepiece shutter	N/A	
LCD MONITOR		
Type	7.5 cm (3.0") Clear View LCD II, approx. 1.04 Million dots	
Coverage	Approx. 100%	
Viewing Angle (horizontally/vertically)	Approx. 170° vertically and horizontally	
Brightness / Colour Adjustment	Manual: Adjustable to one of seven levels	
Touch-screen operations	Capacitive method with menu functions, Quick Control settings, playback operations, and magnified display. AF point selection in Stills and Movies, touch shutter is possible in still photo shooting.	
Display Options	(1) Basic Camera settings (2) Advanced Camera settings (3) Camera settings plus histogram and dual level display (4) No info (5) Quick Control Screen	
FLASH		
Modes	E-TTL II Auto Flash, Metered Manual	
X-sync	1/180 sec	
Flash Exposure Compensation	+/- 3 EV in 1/3 or 1/2 increments with EX series Speedlite flashes	
Flash Exposure Bracketing	Yes, with compatible External Flash	
Flash Exposure Lock	Yes	

	Second Curtain Synchronisation	Yes via Speedlite
	Hot Shoe/PC terminal	Yes/No
	External Flash Compatibility	E-TTL II with EX series Speedlite, wireless multi-flash support
	External Flash Control	via camera menu screen
SHOOTING		
	Modes	Stills: Scene Intelligent Auto, Special Scene (Portrait, Group Photo, Landscape, Sports, Kids, Panning, Close-up, Food, Night Portrait, Handheld Night Scene, HDR Backlight Control, Silent Mode), Flexible priority AE, Program AE, Shutter priority AE, Aperture priority AE, Manual, Bulb and Custom (C1/C2/C3) Movie: Auto exposure, Manual, HDR
	Picture Styles	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)
	Colour Space	sRGB and Adobe RGB
		Highlight Tone Priority
		Auto Lighting Optimizer (4 settings)
		Long exposure noise reduction
		High ISO speed noise reduction (4 settings) (stills and video)
		Lens optical correction (3):
		Peripheral illumination correction
		Chromatic aberration correction
		Distortion correctionPeripheral illumination correction
		Chromatic aberration correction
		Distortion correctionPeripheral illumination correction
		Chromatic aberration correction
		Distortion correctionPeripheral illumination correction
		Chromatic aberration correction
		Distortion correction
	Image Processing	Diffraction correction Digital Lens Optimizer (during/after still photo shooting)Diffraction correction Digital Lens Optimizer (during/after still photo shooting)Diffraction correction Digital Lens Optimizer (during/after still photo shooting)Diffraction correction Digital Lens Optimizer (during/after still photo shooting) Resize to M, S1, S2 [2] Cropping: JPEG images can be cropped (Aspect ratios 3:2, 4:3, 16:9, 1:1) - 43 cropping sizes selectable, from 11% to 95% (diagonal) - Switch between vertical and horizontal cropping orientation - Image straightening, tilt correction - Cropping frame can be moved using touch screen operation RAW image processing [3] Multiple exposure HDR
	Drive modes	Single, Continuous High, Continuous Low, Self timer (2 s + remote, 10 s + remote, continuous)
	Continuous Shooting	Max. approx. 5 fps speed maintained until card full (JPEG) or 50 RAW images [4][5][6]Max. approx. 5 fps speed maintained until card full (JPEG) or 50 RAW images [4][5][6]Max. approx. 5 fps speed maintained until card full (JPEG) or 50 RAW images [4][5][6] Max. 4 fps with AF Tracking
	Interval timer	Yes
LIVE VIEW MODE		
	Type	Electronic viewfinder with image sensor
	Coverage	Approx. 100% (horizontally and vertically)
	Frame Rate	59.97 fps (smooth) / 29.97 fps (power saving)
	Focusing	Manual Focus (Magnify the image 5x or 10x at any point on screen) Autofocus: Dual Pixel CMOS AF (Face Detection and Tracking AF, 1 point AF, Expand AF, Zone AF, and Touch shutter)
	Metering	Real-time evaluative metering with image sensor (384-zone) Partial metering (approx. 5.5% of the centre of the screen) Spot metering (approx. 2.7% of the centre of the screen) Centre-weighted average metering
	Display Options	3 levels available Basic shooting information, Advanced shooting information and Advanced shooting information with Histogram
FILE TYPE - Stills		
	Still Image Type	JPEG RAW: RAW, C-RAW (14-bit, Canon original RAW 3rd edition) Complies with Exif 2.31 and Design rule for Camera File system 2.0 Complies with Digital Print Order Format [DPOF] Version 1.1
	RAW+JPEG simultaneous recording	Yes, any combination of RAW + JPEG possible
	Image Size	JPEG: 3:2 ratio (L, RAW, C-RAW) 6240x4160, (M1) 4160x2768, (S1) 3120x2080, (S2) 2400x1600 1.6x (crop) (L) 3888x2592, (S2) 2400x1600 4:3 ratio (L) 5536x4160, (M1) 3680x2768, (S1) 2768x2080, (S2) 2112x1600 16:9 ratio (L) 6240x3504, (M1) 4160x2336, (S1) 3120x1752, (S2) 2400x1344 1:1 ratio (L) 4160x4160, (M1) 2768x2768, (S1) 2080x2080, (S2) 1600x1600
	Folders	New folders can be manually created and selected
	File Numbering	(1) Consecutive numbering (2) Auto reset (3) Manual reset
EOS Movie		
	Movie Type	RF/EF lenses: 4K, Full HD, HD. EF-S lenses: 4K or HD MPEG4 AVC/H.264 variable (average) bit rate, Audio: Linear PCM, AAC
	Movie Size	4K (16:9) 3840 x 2160 (25, 23.98 fps) intra frame [7] 4K Time-lapse (16:9) 3840 x 2160 (29.97, 25 fps) All-I Full HD (16:9) 1920 x 1080 (59.94, 50, 29.97, 25 fps) intra frame, intra frame lite (29.97, 25 fps) Full HD HDR (16:9) 1920 x 1080 (29.97, 25 fps) intra frame HD (16:9) 1280 x 720 (59.94, 29.97, 50, 25 fps) intra frame HD HDR (16:9) 1280 x 720 (29.97, 25 fps) intra frame
	Colour Sampling (Internal recording)	4K / Full HD / HD - YCbCr4:2:0 (8-bit)
	Canon Log	No
	Movie Length	4K and Full HD - Max duration 29min 59sec. (excluding High Frame Rate movies). No 4GB file limit with exFAT SDXC card.
	High Frame Rate Movie	Not supported
	4K Frame Grab	8.3-megapixel JPEG still image frame grab from 4K movie possible
		MP4: 4K (16:9) 3840 x 2160 (25, 23.98 fps) IPB 120Mbps / 869 MB/min Full HD (16:9) 1920 x 1080 (59.94, 50, 29.97, 25 fps) IPB 60Mbps / 440MB/min

Bitrate/Mbps	Full HD (59.94p/50.00p)/IPB Approx. 30 Mbps / 440MB/min Full HD (29.97p/25.00p)/IPB: Approx. 30 Mbps / 225MB/min Full HD (29.97p/25.00p)/IPB Lite: Approx. 12 Mbps / 87MB/min HD (59.94p/50.00p)/IPB Approx. 26 Mbps / 196MB/min Full HD (29.97p/25.00p)/IPB: Approx. 13 Mbps / 103MB/min
Microphone	Built-in stereo microphones (48 kHz, 16-bit x 2 channels)
HDMI Display	Output to external Monitor only with or without information display
HDMI Output	4K (UHD) and Full HD or HD recording, uncompressed YCbCr 4:2:2, 8-bit. Sound output via HDMI is also possible. When outputting to external monitor no images are recorded to the card and Wi-Fi communication is disabled
Focusing	Dual Pixel CMOS AF with Face Detection and Tracking AF, Movie Servo AF, Continuous Eye AF, Manual Focus with focus peaking
ISO	4K - Auto: 100-12800, H2: 102400 Full HD/HD - Auto: 100-25600, H2:102400
OTHER FEATURES	
Custom Functions	23 Custom Functions
Metadata Tag	User copyright information (can be set in camera) Image rating (0-5 stars)
Water/Dust resistance	Yes
Voice Memo	No
Intelligent Orientation Sensor	Yes
Playback zoom	1.5x - 10x in 15 steps
Display Formats	(1) Single image (2) Single image with information (2 levels) Basic - Shooting information (shutter speed, aperture, ISO and Image quality) Detailed - Shooting information (shutter speed, aperture, ISO, metering Image, quality and file size), Lens information, Brightness and RGB histogram, White balance, Picture Style, Color space and noise reduction, Lens optical correction, Record of sent images, GPS information (3) 4-image index (4) 9-image index (5) 36-image index (6) 100-image index (7) Jump Display (1, 10 or 100 images, Date, Folder, Movies, Stills, Protected images, Rating) (8) Movie edit (9) RAW processing (10) Rating
Slide Show	Image selection: All images, by Date, by Folder, Movies, Stills, Protected images or Rating Playback time: 1/2/3/5/10 or 20 seconds Repeat: On/Off Brightness: Yes
Histogram	RGB: Yes
Highlight Alert	Yes
Image Erase	Single image, select range, Selected images, Folder, Card
Image Erase Protection	Erase protection of Single image, Folder or Card all found images (only during image search)
Self Timer	2 or 10 sec. continuous
Menu Categories	(1) Shooting menu (2) Playback menu (3) Setup menu (4) Custom Functions menu (5) My Menu
Menu Languages	29 Languages English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Malay, Indonesia and Japanese
Firmware Update	Update possible by the user (Camera, Lens, External Speedlite, BLE remote control, Lens adapter)
INTERFACE	
Computer	Equivalent to Hi-Speed USB (USB 2.0) Type-C connector
Wi-Fi	Wireless LAN (IEEE 802.11b/g/n) (2.4 GHz only), with Bluetooth support [8] Features supported: EOS Utility, Smartphone, Upload to Web, Auto transfer, Wireless printing
Other	HDMI mini out (Type C, HDMI-CEC compatible), External Microphone In/Line In (Stereo mini jack), Headphone socket (Stereo mini jack), E3-type terminal (remote control terminal)
DIRECT PRINT	
PictBridge	Yes (Via Wireless LAN only)
STORAGE	
Type	1x SD/SDHC/SDXC and UHS-II
SUPPORTED OPERATING SYSTEM	
PC & Macintosh	Windows 7 (excl. Starter Edition) Windows 8.1 and Windows 10 (tablet mode not supported) OS X v10.11, 10.12, 10.13 and 10.14
SOFTWARE	
Image Processing	Digital Photo Professional 4.9 or later (RAW Image Processing)
Other	EOS Utility 3.9 or later (incl. Remote Capture), Picture Style Editor, Map Utility, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera connect app (iOS/Android)
POWER SOURCE	
Batteries	Rechargeable Li-ion Battery LP-E17 (supplied)
Battery life	Approx. 250 shots (at 23°C) [9] Approx. 240 shots (at 0°C)
Battery Indicator	4 levels + percentage
Power saving	Power turns off after 30 seconds, 1, 3, 5, 10 or 30 mins
Power Supply & Battery Chargers	Battery charger LC-E17E (supplied), AC adapter AC-E6N and DC coupler DR-E18, AC adapter kit ACK-E18, USB Power Adapter PD-E1
ACCESSORIES	
Wireless File Transmitter	Not supported
Lenses	All RF lenses (EF & EF-S via Lens adapters)
Lens adapters	Mount Adapter EF-EOS R Control Ring Mount Adapter EF-EOS R Drop-In Filter Mount Adapter EF-EOS R with Drop-In Circular Polarizing Filter A Drop-In Filter Mount Adapter EF-EOS R with Drop-In Variable ND Filter A
Flash	Canon Speedlite (EL-100, 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III, 470EX-AI, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, 600EX-II-RT, Macro-Ring-Lite MR-14EX, Macro Ring Lite MR-14EX II, Macro Twin Lite MT-24EX, Macro Twin Lite MT-26EX Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)
Remote Controller/Switch	Remote control with E3 type socket and Speedlite 600EX-II-RT
Other	GPS receiver GP-E2
PHYSICAL SPECIFICATIONS	

Body Materials	Magnesium alloy, with some parts of aluminium and polycarbonate resin with glass fibre
Operating Environment	0 – 40 °C, 85% or less humidity
Dimensions (WxHxD)	132.5 × 85.0 × 70.0 mm
Weight (body only)	Approx. 440 g (485 g with card and battery)

All data is based on Canon standard testing methods except where indicated.

Subject to change without notice.

1. with 50mm lens at infinity, -1m-1 dpt
2. Frame grab images from 4K movies and images shot in S2 quality cannot be resized
3. RAW image processing during image Playback only with RAW
4. Large/Fine resolution
5. Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style. Maximum fps and buffer capacity may be reduced depending on the cameras settings, light level, subj
6. Figures quoted are when used with UHS-II SD memory card
7. Recording 4K movies requires a memory card with a UHS-I/UHS speed class of 3 or higher
8. Wi-Fi use may be restricted in certain countries or regions
9. Based on the CIPA Standards and using the battery supplied with the camera, except where indicated
- 10 Coverage vary depending on the lens used, for full specifications see the list of supported lenses on the Canon support site