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 [8]	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

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} (dioptre)
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
Image Processing	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 correction
	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. 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
	Bitrate/Mbps	MP4: 4K (16:9) 3840 x 2160 (25, 23.98 fps) IPB 120Mbps / 869 MB/min Full HD (59.94p/50.00p)/IPB Approx. 60 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
	Histogram	Brightness: Yes 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, subject, m
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