

# TECHNICAL SPECIFICATIONS



<b>IMAGE SENSOR</b>			
<b>Type</b>	22.3mm x 14.8 mm CMOS	<b>Metering Range</b>	Via optical viewfinder:
<b>Effective Pixels</b>	Approx. 32.5 MP		EV 1-20 (at 23 °C with 50mm f/1.4 lens ISO 100)
<b>Total Pixels</b>	Approx. 34.4 MP		Via liveview on LCD screen:
<b>Aspect Ratio</b>	3:2		EV -2-20 (at 23 °C, ISO 100, evaluative metering)
<b>Low-Pass Filter</b>	Built-in/Fixed		Movie: EV 0-20 (at 23 °C, ISO 100, evaluative metering)
<b>Sensor Cleaning</b>	EOS integrated cleaning system	<b>AE Lock</b>	Auto: In One-shot AF mode with evaluative metering exposure is locked when focus is achieved.
<b>Colour Filter Type</b>	Primary Colour	Manual: By AE lock button in creative zone modes.	+/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB).
		<b>Exposure Compensation</b>	2, 3, 5 or 7 Shots +/-3 EV 1/3 or 1/2 stop increments
<b>IMAGE PROCESSOR</b>		<b>ISO Sensitivity</b>	Auto (100-25600), 100-25600 (in 1/3-stop or whole stop increments)
<b>Type</b>	DIGIC 8		ISO can be expanded to H: 51200
		<b>SHUTTER</b>	During Movie shooting: Auto (100-12800), 100-12800 (in 1/3-stop or whole stop increments) ISO can be expanded to H: 25,600
<b>LENS</b>		<b>Type</b>	Electronically-controlled focal-plane shutter
<b>Lens Mount</b>	EF/EF-S	<b>Speed</b>	30-1/8000sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode). Electronic shutter up to 1/16000
<b>Focal Length</b>	Equivalent to 1.6x the focal length of the lens		
<b>Image Stabilisation</b>	Optical Image Stabilizer on compatible lenses. Movie: Movie Digital IS	<b>WHITE BALANCE</b>	
		<b>Type</b>	Auto white balance with the imaging sensor
<b>FOCUSING</b>		<b>Settings</b>	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. Yes, 1 setting can be registered
<b>Type</b>	Via optical viewfinder:  TTL-CT-SiR with a CMOS sensor  Via liveview on LCD screen:  Dual Pixel CMOS AF System. Phase detection pixels built onto imaging sensor <sup>[1]</sup> 45 cross-type AF points (45 f/5.6 cross-type AF points, 27 f/8 points [9 cross-type], centre point is f/2.8 and f/5.6 dual cross-type) <sup>[2][3]</sup>	<b>Custom White Balance</b>	+/-3 levels in single level increments 3 bracketed images per shutter release. Selectable Blue/Amber bias or Magenta/ Green bias.
		<b>WB Bracketing</b>	
<b>AF System/ Points</b>	EV -3 - 18 (at 23°C & ISO100) AI Focus One Shot AI Servo		
<b>AF working range</b>	Automatic selection: 45 point AF Manual selection: Single point AF Manual selection: Spot AF Manual selection: Zone AF Manual selection: Large Zone AF AF points can be selected separately for vertical and horizontal shooting	<b>VIEWFINDER</b>	
<b>AF Modes</b>	Indicated by a transmissive LCD in viewfinder and Quick Control screen	<b>Type</b>	Pentaprism
<b>AF Point Selection</b>	Yes, up to 8m AF points can be selected separately for vertical and horizontal shooting	<b>Coverage (Vertical/Horizontal)</b>	Approx. 100%
<b>Selected AF point display</b>	Intermittent firing of built-in flash or emitted by optional dedicated Speedlite	<b>Magnification</b>	Approx. 0.95x <sup>[4]</sup>
<b>Predictive AF (7)</b>	Selected on lens	<b>Eyepoint</b>	Approx. 22mm (from eyepiece lens centre)
<b>AF Lock</b>	+/- 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	<b>Dioptr Correction</b>	-3 to +1 m-1 (dioptr)
<b>AF Assist Beam</b>		<b>Focusing Screen</b>	Fixed (Transmissive LCD screen)
<b>Manual Focus</b>		<b>Mirror</b>	Quick-return half mirror (Transmission: reflection ratio of 40:60, no mirror cut-off with EF 600mm f/4 IS USM or shorter)
<b>Focus Bracketing</b>		<b>Viewfinder Information</b>	AF information: AF points, focus confirmation, AF area selection mode Exposure information: Shutter speed, aperture value, ISO speed (always displayed), AE lock, exposure level/compensation, spot metering circle, exposure warning, AEB. Flash information: Flash ready, high-speed sync, FE lock, flash exposure compensation, red-eye reduction light. Image information: Card information, maximum burst (2 digit display), Highlight tone priority (D+). Composition information: Grid, Electronic level, Aspect Ratio Other information: Battery check, Alert symbol, Flicker Detection
<b>AF Microadjustment</b>		<b>Depth of field preview</b>	Yes, with Depth of Field preview button.
<b>EXPOSURE CONTROL</b>			
<b>Metering modes</b>	Via optical viewfinder:  220,000-pixel RGB+IR metering sensor Metering with the area divided into 216 segments (18 x 12) (1) Evaluative metering (linked to all AF points) (2) Partial metering (approx. 6.5 % of viewfinder) (3) Spot metering (approx. 2.0 % of viewfinder) (4) Center-weighted average metering  Via liveview on LCD screen:  (1) Evaluative metering (384 zones) (2) Partial metering (approx. 4.5 % of LCD screen) (3) Spot metering (approx. 2.6 % of LCD screen) (4) Center-weighted average metering		



# TECHNICAL SPECIFICATIONS



## LCD MONITOR

<b>Type</b>	Touch screen Vari angle 7.7cm (3.0") 3:2 Clear View II TFT, approx. 1040K dots
<b>Coverage</b>	Approx. 100%
<b>Viewing Angle (horizontally/vertically)</b>	Approx 170°
<b>Coating</b>	Anti smudge
<b>Brightness Adjustment</b>	Adjustable to one of seven levels
<b>Display Options</b>	(1) Quick Control Screen (2) Camera settings (3) Electronic Level

## FLASH

<b>Built-in Flash GN (ISO 100, meters)</b>	12
<b>Built-in Flash Coverage</b>	up to 17mm focal length (35mm equivalent: 27mm)
<b>Built-in Flash recycle time</b>	Approx. 3 seconds
<b>Modes</b>	Auto, Manual flash, Integrated Speedlite Transmitter
<b>X-sync</b>	1/250sec
<b>Flash Exposure Compensation</b>	+/- 3EV in 1/2 or 1/3 increments
<b>Flash Exposure Bracketing</b>	Yes, with compatible External Flash
<b>Flash Exposure Lock</b>	Yes
<b>Second Curtain Synchronisation</b>	Yes
<b>HotShoe/ PC terminal</b>	Yes/ No
<b>External Flash Compatibility</b>	E-TTL II with EX series Speedlites, wireless optical multi-flash support
<b>External Flash Control</b>	via camera menu screen

## SHOOTING

<b>Modes</b>	Scene Intelligent Auto (Stills and Movie), Creative Auto, SCN (Portrait, Landscape, Close-up, Sports, Night Portrait, Handheld Night Scene, HDR Backlight Control, Food, Kids, Candlelight), Creative filters, Program AE, Shutter priority AE, Aperture priority AE, Manual (Stills and Movie), Bulb, Custom 1, Custom 2, Group Photo, Panning
<b>Picture Styles</b>	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)
<b>Colour Space</b>	sRGB and Adobe RGB
<b>Image Processing</b>	Highlight Tone Priority (normal plus enhanced) Auto Lighting Optimizer (4 settings) Long exposure noise reduction High ISO speed noise reduction (4 settings) Multi Shot Noise Reduction Auto Correction of Lens Peripheral illumination and Chromatic aberration correction Creative Assist Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Water painting effect, Toy camera effect, Miniature effect) Multi-exposure RAW image processing - during image Playback only Resize to M or S1, S2 Digital Lens Optimizer HDR art vivid, HDR art bold, HDR art embossed, HDR art standard to Creative Filters
<b>Drive modes</b>	Single, Continuous L, Continuous H, Self timer (2s+remote, 10s +remote), Silent single shooting, Silent continuous shooting <sup>(1)</sup> Self-Timer: Continuous, Continuous Panning
<b>Continuous Shooting</b>	Max. Approx. 10fps. (speed maintained for 58 JPEG and 25 RAW with UHS-II card) Live view Max. Approx 11fps. with One-Shot AF, 7fps with Servo AF <sup>(6) (7)</sup>
<b>Intervalometer</b>	Built-in, number of shots selectable from 1-99 or unlimited. Bulb timer possible

## LIVE VIEW MODE

<b>Type</b>	Electronic viewfinder with image sensor
<b>Coverage</b>	Approx. 100% (horizontally and vertically)
<b>Frame Rate</b>	59.94 fps
<b>Focusing</b>	Manual Focus (Magnify the image 5x or 10x at any point on screen) Autofocus: Dual Pixel CMOS AF (Face detection and Tracking AF, Eye AF, FlexiZone-Multi, FlexiZone-Single), Tracking sensitivity adjustment (-2 to +2), acceleration tracking (-2 to +2) AF auto pt. switching (0 to +2)
<b>Metering</b>	Real-time evaluative metering with image sensor. Evaluative metering, partial metering, spot metering, center-weighted average metering.
<b>Display Options</b>	Grid overlay (x3), Histogram, Electronic level,

## FILE TYPE

<b>Still Image Type</b>	JPEG: Fine, Normal (Exif 2.31 compliant) / Design rule for Camera File system (2.0) RAW: RAW (CR3 14-bit), CRAW (Compact RAW) Digital Print Order Format [DPOF] Version 1.1 compliant
<b>RAW+JPEG simultaneous recording</b>	Yes, any combination of RAW + JPEG possible.
<b>Image Size</b>	RAW: (3:2) 6960 x 4640, (4:3) 6160 x 4640, (16:9) 6960 x 3904, (1:1) 4640x 4640

JPEG 3:2 (L) 6960 x 4640, (M) 4800 x 3200, (S1) 3472 x 2320, (S2) 2400 x 1600
JPEG 4:3 (L) 6160 x 4640, (M) 4256 x 3200 (S1) 3072 x 2320 (S2) 2112 x 1600
JPEG 16:9 (L) 6960 x 3904, (M) 4800 x 2688 (S1) 3472 x 1952 (S2) 2400 x 1344
JPEG (1:1) (L) 4640 x 4640, (M) 3200 x 3200, (S1) 2300 x 2300 (S2) 1600 x 1600

## Movie Type

<b>Movie Type</b>	In-camera RAW processing & Image Resize available in playback
<b>Movie Size</b>	MP4 [Video: MPEG-4 AVC/H.264, Audio: MPEG-4 AAC-LC (stereo)] 4K - 3840 x 2160 (29.97, 25 fps) <sup>(8)</sup> Full HD - 1920 x 1080 (119.88, 100, 59.94, 50, 29.97, 25 fps) <sup>(8)</sup> HD - 1280 x 720 (59.94, 50 fps) HDR - 1920 x 1080 (29.97, 25 fps) 4K Timelapse - 3840 x 2160 (29.97, 25 fps)
<b>Movie Length</b>	Max duration 29min 59sec, Max file size 4GB (If file size exceeds 4GB a new file will be created automatically except in Timelapse Movie mode), ExFat formatted cards have no file size limitation
<b>Folders</b>	New folders can be manually created and selected
<b>File Numbering</b>	(1) Consecutive numbering (2) Auto reset (3) Manual reset

## OTHER FEATURES

<b>Custom Functions</b>	29 Custom Functions
<b>Metadata Tag</b>	User copyright information (can be set in camera) Image rating (0-5 stars)
<b>LCD Panel / Illumination</b>	Yes/Yes
<b>Water/ Dust resistance</b>	Yes
<b>Sound Memo</b>	No
<b>Intelligent Orientation Sensor</b>	Yes
<b>Playback zoom</b>	1.5x - 10x



# TECHNICAL SPECIFICATIONS



<b>Display Formats</b>	(1) Single image with information (2 levels) (2) Single image (3) 4 image index (4) 9 image index (5) 36 image index (6) 100 image index (7) Jump Display (8) Movie edit	<b>POWER SOURCE</b>	Rechargeable Li-ion Battery LP-E6N (supplied), built in for date & settings Approx. 1300 (at 23°C, AE 50%, FE 50%) <sup>[5]</sup> Approx. 1200 (at 0°C, AE 50%, FE 50%) 6 levels + percentage Power turns off after 1, 2, 4, 8, 15 or 30mins.
<b>Slide Show</b>	Image selection: All images, by Date, Folder, Movies, Stills, Protect Playback time: 1/2/3/5/10/20 seconds Repeat: On/Off Background music: On/Off Transition effect: Off, Slide in 1, Slide in 2, Fade 1, Fade 2, Fade 3 Brightness: Yes RGB: Yes	<b>Batteries</b>	
<b>Histogram</b>	Yes	<b>Battery life</b>	
<b>Highlight Alert</b>	Yes	<b>Battery Indicator</b>	
<b>Image Erase/Protection</b>	Erase: Single image, Select range, All images in folder, All images on card Protection: Single image, select range, all images in folder, all images on a card	<b>Power saving</b>	
<b>Menu Categories</b>	(1) Shooting menu (x4) (2) Playback menu (x4) (3) Wireless menu (4) Setup menu (x5) (5) Custom Functions menu (6) My Menu	<b>PHYSICAL SPECIFICATIONS</b>	
<b>Menu Languages</b>	29 Languages English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukrainian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Vietnamese, Hindi, Romanian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Malay, Indonesian, and Japanese	<b>Body Materials</b>	Aluminum alloy and polycarbonate resin with glass fiber 0 – 40 °C, 85% or less humidity 140.7 x 104.8 x 76.8mm Approx. 701g (CIPA testing standard, including battery and memory card)
<b>Firmware Update</b>	Update possible by the user.	<b>Operating Environment</b>	
<b>INTERFACE</b>		<b>Dimensions (WxHxD)</b>	
<b>Computer</b>	USB Micro-B Interface Cable IFC-600PCU	<b>Weight (body only)</b>	
<b>Wi-Fi</b>	Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only, 1-11 ch)	<b>ACCESSORIES</b>	
<b>Wi-Fi Security</b>	Camera Access Point: WPA2-PSK with AES encryption or open Infrastructure: Shared key, with WEP encryption, WPA-PSK/WPA2-PSK with TKIP/AES encryption or open	<b>Viewfinder</b>	Eyecup Eb Rubber Frame Eb, E-series Dioptic Adjustment Lens Eyepiece Extender EP-EX15 Magnifier MG-Eb Angle Finder C
<b>Bluetooth</b>	Bluetooth® (Specification version 4.1, Bluetooth low energy technology) <sup>[9]</sup>	<b>Case</b>	Leather case EH21-L Built in Wi-Fi transmission Bluetooth functionality with Camera Connect app requires smart device to be equipped with Bluetooth version 4.0 (or later). Also requires smart device to be using operating system iOS 11.4 (or later) or Android 5.0 (or later)
<b>Other</b>	HDMI mini output, Output of YCbCr 4:2:2, 8bit over HDMI for video streaming is possible with or without shooting info. External microphone (3.5mm Stereo mini jack), Headphone socket (Stereo mini jack) HDMI (Mini - Type C connector), Output options include [With info], [Clean / 4K output], and [Clean / FHD output]. HDR output of photos to compatible TV supported	<b>Wireless File Transmitter</b>	Bluetooth functionality with Camera Connect app requires smart device to be equipped with Bluetooth version 4.0 (or later). Also requires smart device to be using operating system iOS 11.4 (or later) or Android 5.0 (or later)
<b>DIRECT PRINT</b>		<b>Lenses</b>	All EF and EF-S lenses
<b>Canon Printers</b>	Canon Compact Photo Printers and PIXMA Printers supporting PictBridge via wireless LAN	<b>Flash</b>	Canon Speedlites (90EX, 220EX, 270EX, 270EX II, EL-100, 320EX, 420EX, 430EX, 430EX II, 430EX III-RT, 470EX-AI, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, Macro-Ring-Lite MR-14EX II, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)
<b>PictBridge</b>	Yes (via Wireless LAN)	<b>Battery Grip</b>	BG-E14
<b>STORAGE</b>		<b>Remote Controller/ Switch</b>	Remote Switch RS-60E3, Remote Controller RC-6, Remote Controller BR-E1, Timer Remote Controller TC-80N3 only when used with Remote Controller Adapter RA-E3
<b>Type</b>	SD, SDHC, SDXC (UHS-II compatible)	<b>Other</b>	Directional Stereo Microphone DM-E1 GPS Receiver GP-E2 Hand Strap E2
<b>SUPPORTED OPERATING SYSTEM</b>			
<b>PC &amp; Macintosh</b>	Windows 10 / 8.1 / 7 SP1 <sup>[10]</sup> Mac OS X 10.14 / 10.13 / 10.12		
<b>SOFTWARE</b>			
<b>Image Processing</b>	Digital Photo Professional 4 DPP Express Picture Style Editor, EOS Utility, Image Transfer Utility Picture Style editor Camera Connect app available on iOS and Android devices with operating system iOS 11.4 (or later) or Android 5.0 (or later)		
<b>Other</b>			

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

<sup>[1]</sup> Dual Pixel CMOS AF - AF is possible over an area of up to approx. 100% Vertical x 88% Horizontal of the frame depending on the lens used

<sup>[2]</sup> Peripheral Cross type AF points will not function as a cross type AF points with the following lenses: EF 35-80mm f4.5-5.6 (II/III/USM), EF35-105mm f4.5-5.6 (USM), EF 80-200mm f4.5-5.6 (II)

<sup>[3]</sup> The number of AF points, cross-type AF points, and dual cross-type AF points vary depending on the lens used. For full compatibility list please refer to product manual on [www.canon-europe.com/support](http://www.canon-europe.com/support)

<sup>[4]</sup> with 50mm lens at infinity, -1m-1 dpt

<sup>[5]</sup> Based on the CIPA Standard and using the batteries and memory card format supplied with the camera, except where indicated

<sup>[6]</sup> 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.

<sup>[7]</sup> Sustained continuous shooting speed is tested based on Canon's testing standard. Function requires compatible UHS-II memory card, total number of frames captured varies depending on shooting subject, settings and brand of memory card

<sup>[8]</sup> 4K Movie or 120fps Full HD requires UHS-I Speed Class 3 or higher, Full HD requires SD Speed class 10 or higher

<sup>[9]</sup> Bluetooth functionality with Camera Connect app requires smart device to be equipped with Bluetooth version 4.0 (or later). Also requires smart device to be using operating system iOS 11.4 (or later) or Android 5.0 (or later)

<sup>[10]</sup> Software applications compatible with Windows 10 in Windows 10 Desktop Mode only

<sup>[11]</sup> Silent drive mode reduces the noise of the mirror mechanism, electronic shutter mode in Live View is available for silent single shots

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