*1: AC Adapter Kit ACK-E18 can also be used.

*2: The digital compass cannot be used with this camera. (Shooting direction will not be recorded.)
Specifications

■ 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 14.9 mm
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 (Compatible with Dual Pixel CMOS AF)
Effective pixels: Approx. 24.1 megapixels
* Rounded to the nearest 100,000.
Aspect ratio: 3:2
Dust deletion: Auto, 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), C-RAW (Canon original), RAW +JPEG Large 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. 3.8 megapixels (2400 x 1600)
- RAW/C-RAW : 24.0 megapixels (6000 x 4000)

Aspect ratio: 3:2, 4:3, 16:9, 1:1
Folder Creation/selection: 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  
White balance correction, and White balance bracketing provided  
* Flash color temperature information transmission possible  
**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:** Digital Lens Optimizer, Peripheral illumination correction, Distortion correction, Chromatic aberration correction, Diffraction correction

### Viewfinder

**Type:** Eye-level pentamirror  
**Field of view coverage:** Vertical/Horizontal approx. 95%  
(with Eye point approx. 19 mm)  
**Magnification:** Approx. 0.87x (−1 m⁻¹ with 50mm lens at infinity)  
**Eyepoint:** Approx. 19 mm (from eyepiece lens center at −1 m⁻¹)  
**Dioptric adjustment range:** Approx. −3.0 – +1.0 m⁻¹ (dpt)  
**Focusing screen:** Fixed, Precision Matte  
**Mirror:** Quick-return type  
**Depth-of-field preview:** Available (with customized DISP button setting)
**Autofocus** (for viewfinder shooting)

Type: TTL secondary image-registration, phase-difference detection with the dedicated AF sensor

AF points: 9-point AF (Center point: cross-type, vertical line sensitive when supporting f/2.8)

Focusing brightness range: EV –0.5 – 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-assist beam: Built-in flash: Intermittent firing

External Speedlite: Infrared firing, Intermittent firing

**Exposure Control**

Metering mode: 63-zone TTL open-aperture metering

- Evaluative metering (linked to all AF points)
- Partial metering (approx. 9.0% of viewfinder at center)
- Spot metering (approx. 4.0% 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, Special scene modes (Portrait, Smooth skin, Group Photo, Landscape, Sports, Kids, Close-up, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Water painting effect, Toy camera effect, Miniature effect, HDR art standard, HDR art vivid, HDR art bold, HDR art embossed)

Creative Zone modes:


ISO speed (Recommended exposure index):

- Basic Zone modes: ISO speed set automatically
- Creative Zone modes: ISO Auto, ISO 100 – 25600 set manually (whole-stop increments), and ISO expansion to H (equivalent to ISO 51200) provided
Exposure compensation: Manual: ±5* stops in 1/3- or 1/2-stop increments
* ±3 stops with [Shooting screen: Guided] set
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: With AE lock button

■ Shutter

Type: Electronically-controlled, focal-plane shutter
Shutter speed:
- Basic Zone modes: 1/4000 – 1 sec.
- Creative Zone modes: 1/4000 – 30 sec., bulb

■ Drive System

Drive mode:
- Single shooting, Continuous shooting, Silent single shooting,
- Silent continuous shooting
Self-timer: 10 sec / remote control*, 2 sec, Continuous
* When Wireless Remote Control BR-E1 (sold separately) is used.

Continuous shooting speed:
- Max. approx. 5.0 shots/sec.
- Silent continuous shooting: Max. approx. 2.5 shots/sec.

Max. burst:
- JPEG Large/Fine: Full
- RAW: Approx. 10 shots
- C-RAW: Approx. 37 shots
- RAW+JPEG Large/Fine: Approx. 9 shots
- C-RAW+JPEG Large/Fine: Approx. 17 shots
* The number of possible shots and standard maximum burst apply to a UHS-I compliant 32 GB card based on Canon testing standards.
* Maximum burst varies depending on shooting conditions (including aspect ratio, subject, memory card brand, ISO speed, Picture Style, and Custom Function).
* “Full” indicates that shooting is possible until the card becomes full.
## Flash

- **Built-in flash:** Retractable flash
  - Guide No.: Approx. 9.8/32.1 (ISO 100, in meters/feet)
  - Flash coverage: Approx. 18mm lens angle of view
  - Recharge time: Approx. 3 sec.

- **External Speedlite:** Compatible with EL/EX-series Speedlites

- **Flash metering:** E-TTL II autoflash

- **Flash exposure compensation:**
  - Built-in flash: ±2 stops in 1/3- or 1/2-stop increments
  - External Speedlite: ±3 stops in 1/3- or 1/2-stop increments

- **FE lock:** Provided

- **PC terminal:** Not provided

- **Flash control:**
  - Built-in flash function settings
  - External Speedlite function settings
  - External Speedlite Custom Function settings

## Live View Shooting

- **Focus method:** Dual Pixel CMOS AF system

- **AF method:**
  - Face+Tracking
  - Zone AF
  - 1-point AF
  - Spot AF
  - Manual focus (approx. 5x / 10x magnification available for focus check)

- **AF operation:**
  - One-Shot AF
  - Servo AF

- **Focusing brightness range:**
  - EV –4 – 18 (with the center AF point, at room temperature, f/1.2, ISO 100, One-Shot AF)

- **Metering mode:**
  - Real-time metering using the image sensor
  - 384-zone (24×16) metering

- **Still photo shooting:**
  - Evaluative metering (linked to all AF points)
  - Partial metering (approx. 5.5% of screen, at center)
  - Spot metering (approx. 3.7% of screen, at center)
  - Center-weighted average metering

- **Metering brightness range:**
  - EV –2 – 20 (at room temperature, ISO 100)

- **Exposure compensation:** ±3 stops in 1/3-stop or 1/2-stop increments

- **Creative filters:** Provided

- **Touch Shutter:** Provided

- **Grid display:** Three types
**Movie Shooting**

Recording format: MP4

Movie: MPEG-4 AVC / H.264
Variable (average) bit rate

Audio: AAC

Recording size and frame rate:
- 4K (3840x2160): 23.98p/25.00p
- Full HD (1920x1080): 59.94p/50.00p/29.97p/25.00p
- HD (1280x720): 59.94p/50.00p
- HDR movie (1920x1080): 29.97p/25.00p
- 4K Time-lapse movie (3840x2160): 29.97p/25.00p
- Full HD Time-lapse movie (1920x1080): 29.97p/25.00p

Compression method: IPB (Standard), IPB (Light)
* Time-lapse movie shooting: ALL-I

Bit rate:
- 4K (23.98p/25.00p)/IPB (Standard): Approx. 120 Mbps
- Full HD (59.94p/50.00p)/IPB (Standard): Approx. 60 Mbps
- Full HD (29.97p/25.00p)/IPB (Standard): Approx. 30 Mbps
- Full HD (29.97p/25.00p)/IPB (Light): Approx. 12 Mbps
- HD (59.94p/50.00p)/IPB (Standard): Approx. 26 Mbps

Focus system:
- Dual Pixel CMOS AF system
- Contrast detection*
* When recording 4K movies or 4K Time-lapse movies

AF method:
- Face+Tracking, Zone AF*, 1-point AF, Spot AF*
* Not available in 4K movie or 4K Time-lapse movie recording

Manual focus (approx. 5x / 10x magnification available for focus check)

Movie Servo AF: Provided

Digital zoom: Approx. 3x – 10x

Focusing brightness range: EV –2 – 18 (with the center AF point, at room temperature, f/1.2, ISO 100, One-Shot AF)

Metering mode: Center-weighted average and Evaluative metering with the image sensor
* Automatically set by the AF method

Metering brightness range: EV 0 – 20 (at room temperature, ISO 100, with center-weighted average metering)
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 – 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 – 12800 set automatically), ISO 100 – 12800 set manually (whole-stop increments), expandable to H (equivalent to ISO 25600)
  For 4K movies or 4K Time-lapse movies: ISO 100 – 6400
HDR movie shooting:  Possible
Creative filters for movies:  Dream, Old Movies, Memory, Dramatic B&W, Miniature effect movie
Video snapshots:  Settable to 4 sec., 6 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:  Three types
Time-lapse movie:  Shooting interval* (minutes:seconds), Number of shots*, Movie recording size, Auto exposure (Fixed 1st frame, Each frame), Screen auto off, Beep as image shot settable
  * Some limitations apply when Scene 1, Scene 2, or Scene 3 is used.
Still photo shooting:  Not possible during movie shooting
Cards that can record movies:

<table>
<thead>
<tr>
<th>Movie recording size</th>
<th>Card performance requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>4K 23.98 fps/25.00 fps</td>
<td>UHS-I/UHS Speed Class 3 or higher</td>
</tr>
<tr>
<td>Full HD 59.94 fps/50.00 fps</td>
<td>SD Speed Class 10 or higher</td>
</tr>
<tr>
<td>Full HD 29.97 fps/25.00 fps</td>
<td>SD Speed Class 6 or higher</td>
</tr>
<tr>
<td>HD 59.94 fps/50.00 fps</td>
<td>SD Speed Class 4 or higher</td>
</tr>
<tr>
<td>IPB (Light) Full HD 29.97 fps/25.00 fps</td>
<td>SD Speed Class 4 or higher</td>
</tr>
</tbody>
</table>
■ LCD Monitor

Type: TFT color, liquid-crystal monitor
Monitor size and dots: Wide 7.7 cm (3.0 in) (3:2) with approx. 1.04 million dots
Brightness adjustment: Manual (7 levels)
Interface languages: 29
Touch screen technology: Capacitive sensing

■ 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)
Zoom magnification ratio: Approx. 1.5x – 10x
Image search: Search conditions settable (Rating, Date, Folder, Protect, File type)
Image browsing methods: Single image, 10 images, specified number, date, folder, movies, stills, protect, rating
Image rotation: Provided
Image protection: Provided
Rating: Provided
Movie playback: Possible (LCD monitor, HDMI), built-in speaker
Slide show: Automatically play back all images or the images that match search conditions
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: Provided
Cropping: Provided

■ Print Ordering
DPOF: Version 1.1 compliant

■ Customization Features
Custom Functions: 11
My Menu: Up to 5 screens can be registered
Copyright information: Text entry and appending possible
Display level settings: Shooting screen, Menu display, Mode guide, Feature guide

■ Interface
DIGITAL terminal: Hi-Speed USB (USB2.0), terminal type: Micro-B
  • For PC communication
  • For compact photo printer connection
HDMI mini OUT terminal: Type C (Auto switching of resolution)
External microphone 3.5 mm diameter stereo mini-jack
IN terminal: Directional Stereo Microphone DM-E1 connection
Remote control terminal: For Remote Switch RS-60E3
Wireless remote control: Compatible with Wireless Remote Control BR-E1 (Bluetooth connection)
### Wireless Features

#### [Wi-Fi]

- **Standards compliance**: IEEE 802.11b/g/n
- **Transmission method**: DS-SS modulation (IEEE 802.11b)  
  OFDM modulation (IEEE 802.11g/n)
- **Transmission frequency (central frequency)**: Frequency: 2412 to 2462 MHz  
  Channels: 1 to 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
- **Communication with a smartphone**: 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.
- **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 can be sent to a Wi-Fi printer.
- **Send images to a Web service**: Images in the camera or links to images can be sent to registered Web services.

#### [Bluetooth]

- **Standards compliance**: Bluetooth Specification Version 4.1 compliant (Bluetooth low energy technology)
- **Transmission method**: GFSK modulation
Battery: Battery Pack LP-E17 (Quantity 1)
* AC power usable with household power outlet accessories.

Number of possible shots: With viewfinder shooting:
Approx. 1070 shots at room temperature (23°C/73°F),
approx. 1020 shots at low temperatures (0°C/32°F)
With Live View shooting:
Approx. 320 shots at room temperature (23°C/73°F),
approx. 300 shots at low temperatures (0°C/32°F)
* With a fully-charged Battery Pack LP-E17

Movie shooting time: 4K:
Approx. 1 hr. 50 min. at room temperature (23°C/73°F)
Approx. 1 hr. 40 min. at low temperatures (0°C/32°F)
Full HD:
Approx. 2 hr. 30 min. at room temperature (23°C/73°F)
Approx. 2 hr. 20 min. 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. 122.4 x 92.6 x 69.8 mm / 4.82 x 3.65 x 2.75 in.
Weight (Black): Approx. 449 g / 15.84 oz. (Including battery and card)
Approx. 402 g / 14.18 oz. (Body only)
Weight (Silver): Approx. 449 g / 15.84 oz. (Including battery and card)
Approx. 402 g / 14.18 oz. (Body only)
Weight (White): Approx. 451 g / 15.91 oz. (Including battery and card)
Approx. 404 g / 14.25 oz. (Body only)
■ Operation Environment

Working temperature: 0°C – 40°C / 32°F – 104°F

Working humidity: 85% or less

- All the data above is based on Canon’s testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and the exterior are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.