# EOS R6 Mark III

## Detailed Specifications

| | |
|---|---|
| **Body basics** | |
| **Type** | Full-frame mirrorless camera, with RF lens mount |
| **Sensor size** | Full frame; approx. 35.9 x 24.9mm |
| **Image processor** | DIGIC X |
| **Lens mount** | Canon RF mount |
| **Compatible lenses** | Canon RF lenses (including RF-S lenses)<br>• Automatic image cropping to APS-C size when RF-S lenses attached<br>• EF and EF-S mount lenses compatible w/ optional lens mount adapter EF-EOS R<br>• Canon RF5.2mm F2.8 L Dual Fisheye lens<br>*(RF-S dual lenses not compatible)* |
| **Lens conversion factor** | None (1.6x when RF-S or EF-S lenses attached) |
| **Image sensor** | |
| **Sensor type** | Full-frame Canon CMOS sensor |
| **Sensor size** | Approx. 35.9 x 24.9mm |
| **Effective Pixels** | Max. approx. 32.5 million pixels (with RF or EF lenses) |
| **Total pixels** | Approx. 34.2 million pixels |
| **Actual recording pixels (still images)** | Approx. 32.3 million pixels (6960 x 4640 pixels) |
| **Maximum movie recording resolution** | 7K RAW; 4K for MP4 format recording |
| **Pixel size (approx.)** | Approx. 5.16µ (microns square) |
| **Aspect ratio (still images)** | 3:2 (Horizontal : Vertical) |
| **Cross-type AF detection** | none |
| **Sensor color filtration** | RGB primary colors |
| **Low-pass filter** | Installed at front of sensor; non-detachable |
| **Dust Delete feature** | Yes — automatic or user-applied manual sensor cleaning<br>• Auto cleaning: at Power Off / Enable / Disable<br>• Clean now (performs cleaning immediately; camera re-starts after cleaning) |
| **Clean sensor manually** | Yes<br>• Clean Manually (shutter blades held open, for manual user cleaning) |
| **Dust Delete Data acquisition** | Coordinates of dust on sensor detected by test shot, added to subsequent images<br>• Canon DPP software can automatically erase detected dust spots<br>• Not available with Canon RF-S lenses or EF-S lenses attached<br>• May not be available with certain combinations of camera functions active |
| **Recording system** | |
| **Image recording format** | Design rule for Camera File system 2.0; EXIF 2.31 |

<table>
<tr><td>Card folder system</td><td>When card is inserted, the following are added:<br>• CRM folder (for RAW video files)<br>• DCIM folder (for still-image files)<br>• XFVC folder (for MP4 format video files)<br>• MISC folder</td></tr>
<tr><td>Folder selection</td><td>User creation of addional folders and selecting folders on card is possible</td></tr>
<tr><td>Folder naming — still images</td><td>DCF standards compliant<br>• Default folder name within DCIM folder: “xxxxEOSR6”<br>• Can be changed by user to any 5-character string</td></tr>
<tr><td>Folder naming — movies</td><td>XFVC folder: XF-HEVC S and XF-AVC S file formats<br>• REEL xxxx — MP4 video file saved in XFVC folder<br>CRM folder: RAW video files<br>• REEL xxxx — RAW video file (.CRM) is saved<br>In each REEL xxxx folder: up to 999 files can be saved in one folder</td></tr>
<tr><td>Folder naming — news metadata</td><td>XF-HEVC S and XF-AVC S formats<br>• News Metadata saved in XMLTAG folder, in currently selected card<br>• Up to 100 XML files can be saved in one XMLTAG folder</td></tr>
<tr><td>File naming — still images</td><td>
<table>
<tr><th>Item</th><th>Details</th></tr>
<tr><td>Preset code</td><td>Unique 4-digit character string + 4-digit file number</td></tr>
<tr><td>User setting 1</td><td>Any 4 characters + 4-digit file number</td></tr>
<tr><td>User setting 2</td><td>Any 3 characters + 1-digit image size[1] + 4-digit file number<br>• Range of 4-digit file number: 0001–9999<br>1: Character for image size:<br>L = L or RAW; M = M; S = S1; T = S2; C = CRAW</td></tr>
</table>
</td></tr>
</table>

**File naming — movies**

Example:

**A_0001_C001_A yymmdd_hhmmss XX_CANON_001_Proxy**

***(1) _ (2) _ (3) _ (4) (5) _ (6) (7) _ (8) _ (9) _ (10)***

| Item | Details |
|---|---|
| **(1) Camera Index** | 2 characters from A~Z. "_" can also be selected for 2nd character. A different character is assigned for each camera. |
| **(2) Reel number** | 4-digit number from 0001~9999. A different number automatically assigned to each card. Any initial value can be specified. When card is replaced with a new card*, the number is incremented by one when recording for the first time.<br>**Newly formatted card, or brand-new card* |
| **(3) Clip number** | 3-digit number from 001~999, with "C" added before it. If #999 is exceeded, "C" changes to "D." A clip number is automatically assigned to each clip. Any initial value can be set. D999 is highest number possible. |
| **(4) Codec type** | "A" is assigned aoutmatically if codec type of the main movie is AVC; "H" if it is HEVC; and "X" if file is RAW. |
| **(5) Shoot start date** | Start date (year, month, and day) automatically assigned. |
| **(6) Shoot start time** | Start time (H, M, S) is automatically assigned |
| **(7) Random ID** | ID randomly assigned for ech clip — two characters from A~Z and 0~9. |
| **(8) User defined** | 5 characters from A~Z and 0~9 (user-settable). The default is CANON. |
| **(9) Stream number** | 3-digit number from 001~999. This is assigned to files that have been split. |
| **(10) Proxy** | "Proxy" automatically added to a Proxy movie file. |

** Up to 999 movie files can be recorded to one card.*

** Proxy file has same name as main file, except "Proxy" added (10).*

** [Record to multiple] — same file name set for both card 1 and 2.*

** Display of remaining number of movie files possible during video recording.*

**News Metadata**

NewsML-G2 standard compliant.

News Metadata (XML) file of movie associated with the set News Metadata is generated when [Add News Metadata: ON] is set. Name of generated XML file is same as movie file (only extension differs).

*News Metadata (XML) file is saved to same location as movie file on card.*

*When News Metadata has been set from Content Transfer Professional, the News Metadata set from the card inserted in camera is disabled (that of the app has priority).*

## Image type / recording format

<table>
<tr><td>Image type / recording format / extension</td><td>
<table>
<tr><th colspan="2">Image type / recording format</th><th>Extension</th></tr>
<tr><td rowspan="4">Still photo</td><td>JPEG</td><td>.JPG</td></tr>
<tr><td>HEIF ([HDR shooting (PQ)] active)</td><td>.HIF</td></tr>
<tr><td>RAW</td><td rowspan="2">.CR3</td></tr>
<tr><td>C-RAW (Compact RAW)</td></tr>
<tr><td rowspan="3">Movies[1]</td><td>RAW</td><td>.CRM</td></tr>
<tr><td>XF-HEVC S — YCC422 10-bit<br>XF-HEVC S — YCC420 10-bit<br>XF-AVC S — YCC422 10-bit<br>XF-AVC S — YCC420 8-bit</td><td>.MP4</td></tr>
<tr><td>News Metadata[1]</td><td>.XML</td></tr>
</table>
1: When a movie is recorded with [Add CP File: ON], a “CPF” file will be created
</td></tr>
<tr><td>Proxy movie recording</td><td>Available — [1] Main [2] Proxy recording<br>(yellow Set-up Menu > Record func+card/folder sel. > Movie record options)</td></tr>
<tr><td>Canon Log movie recording</td><td>Canon Log 2 / Canon Log 3<br>(selected in Custom Picture [CP] Menu: Color mode > [CP] > INFO button > select [CP] file)</td></tr>
<tr><td>File numbering (still images)</td><td>Continuous numbering<br>• Numbering of files continues, even if card is replaced<br><br>Auto Reset<br>• Resets to 0001 when card is replaced with formatted card (no images on card). If replacement card has images, numbering continues from last image on card.<br><br>Manual Reset<br>• When set on Menu, new image folder created on card, and file numbering resets to 0001 in that folder. Folder can be re-named in-camera.</td></tr>
<tr><td>Movie clip numbering</td><td>Continuous numbering<br>• Numbering of video clips continues from last recorded clip, even if card is replaced.<br><br>Auto reset<br>• When card is replaced with formatted card (no files on card), numbering will reset to 001. If newly-installed card has video clips, numbering will continue from last recorded clip on card.</td></tr>
<tr><td colspan="2">Recording media</td></tr>
<tr><td>Memory card type</td><td>(one) CFexpress Type B card<br>• CFexpress 2.0 and VPG400 supported<br>• Supports up to 8TB in size<br>(CFexpress cards above 2TB cannot be used for firmware update)<br><br>(one) SDXC / SDHC / SD card<br>• Compatible with UHS-II cards<br>• Eye-Fi and MultiMediaCards (MMC) not supported</td></tr>
<tr><td>Card slots</td><td>Two (card slot 1 — CFexpress; card slot 2 — SD)</td></tr>
<tr><td>Card access (“card busy”) indicator</td><td>Access lamp lights up in red, or blinks in red</td></tr>
<tr><td>Card reading error warning</td><td>Error warning displayed in viewfinder and LCD screen;<br>shutter release locks</td></tr>
<tr><td>Card formatting</td><td>Normal formatting<br><br>Low-level formatting option (both card types)</td></tr>
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| | |
|---|---|
| **Maximum individual file size** | CFexpress — unlimited<br>SDXC / SDHC / SD:<br>• SDXC — exFAT format: unlimited file size<br>• SDHC — FAT32 format: 4GB (if exceeded, a new file created for movies)<br>• SD — FAT16 / FAT12 format: 2GB (if exceeded, a new file created for movies<br>*Movies recorded as split files are handled as a single file when played back in camera* |
| **Release shutter without card** | Supported (Menu option to prevent shutter release when no card installed) |
| **Record function + card / folder selection** | Stills / video on separate cards: Disable / Enable<br>Stills record options: Standard / Auto switch card / Rec separately / Rec to multiple<br>Video record options:<br>• Standard (records to user-selected primary card only)<br>• Relay recording[1] [2] (records to primary card, switch to other card if primary fills up)<br>• CFexpress — Main / SD — Proxy[1]<br>• CFexpress — Main / SD — Sub[1]<br>• Record to multiple (same file type recorded to both cards)<br>*1: Cannot be used with: S&F movies; Movies at 100.0 FPS or higher; Time-lapse movies; HDMI RAW output*<br>*2: Not available when movie record quality surpasses what SD card is capabile of recording* |
| **Still image record / play** | Card 1 or 2 (CFexpress card can be set as priority card) |
| **Video record / play** | Card 1 or 2 (CFexpress card can be set as priority card) |
| **Still image folders** | Select folder / Create folder / Change folder name |
| **Video: Relay recording** | Uninterrupted movie recording by switching to opposite card during recording, if first card becomes full<br>• Available record time display is total time for both cards<br>• When record destination switched, the switch is displayed on LCD screen or EVF<br>• Movie files with relay recording will have different file names on each card<br>• Movie files with relay recording will not play back seamlessly as one single file<br>• When [Pre-recording] is active, if remaining capacity of selected card is less than the set Pre-recording time, relay recording is not possible |
| **Video: Main / Proxy recording** | Proxy movie file recorded to SD card — a lighter video file than Main file at card slot 1<br>• Proxy recording format and file size automatically set, depending on settings for Main movie file<br>• Available recording time for Main movie is indicated on LCD screen or EVF<br>• If a new file is created during movie recording (split files), a new file is created simultaneously for both the Main movie and Proxy movie<br>• Even if Proxy movie recording stops due to an error, recording for Main movie will continue<br>• If recording for Main movie stops, recording for Proxy movie also stops<br>• If there is no Card 1 installed (CFexpress), the time available for Proxy movie is indicated, and Proxy movie recording remains possible |
| **Video: Main / sub recording** | RAW standard / light recorded to Card 1; MP4 movie fixed at 4K DCI Fine to Card 2<br>• Frame rate (FPS) for sub movie will be same as the main movie<br>• Available time for main movie is indicated on LCD screen and EVF<br>• Even if one movie stops recording (card full, etc.), the other movie will continue recording<br>• If no Card 1 installed, time available for sub movie is indicated, and recording of sub movie is possible |

| | |
|---|---|
| **Video: Record to multiple cards** | Records same movie file type & size to Card 1 and Card 2<br>• Available time for card with least space is indicated<br>• When one movie stops recording (card full, etc.), the other movie also stops recording |
| **Still image recording** | |
| **Image size — RAW images** | RAW / C-RAW (Compact RAW)<br>• approx. 32.3 million pixels for both RAW options |
| **Image size — JPEG / HEIF** | L (approx. 32.3 MP)<br>M (approx. 15.4 MP)<br>S1 (approx. 8.1 MP)<br>S2 (approx. 3.8 MP) |
| **HEIF files** | Available when HDR (PQ) is active<br>• Conforms to MIAF (multi-image application format) standards |
| **C-RAW (Compact RAW) files** | RAW images conforming to Canon .CR3 format, with smaller file sizes<br>• RAW offers better image quality than C-RAW<br>• Conversion from RAW to C-RAW, or vice-versa, not possible<br>• Simultaneous recording of RAW and C-RAW not possible |
| **RAW + JPEG / HEIF simultaneous rec.** | Possible — with one or two memory cards<br>(any combination of RAW or C-RAW and JPEG or HEIF images) |
| **One-touch switching of image quality** | Available (can be assigned to preferred button via [Customize Buttons for shooting]) |
| **Dual Pixel RAW** | Disable / Enable<br>• Possible when RAW or C-RAW is set<br>• Not possible with Electronic Shutter<br>• High-speed Continuous+ and High-speed Continuous drive not supported<br>• Dual Pixel RAW image processing available with Digital Photo Professional software (Dual Pixel RAW processing not possible in-camera)<br>• Maximum burst during continuous shooting may be lower |
| **RAW burst mode** | None |
| **JPEG / HEIF image quality** | L, M, and S1 quality — Fine or Normal<br>S2 — Fine only |
| **Still image cropping, aspect ratio** | Full-frame (3:2)<br>1.6x crop (3:2)<br>1:1 (square aspect ratio)<br>4:3<br>16:9<br>• Switching between Masked or Outline shooting area possible |

**Recording pixels — cropping & aspect ratios**

| Image size | | Resolution (pixels) — approximate | | | | |
|---|---|---|---|---|---|---|
| | | Still image aspect ratio / cropping | | | | |
| | | 3:2 | 1.6x (crop)[1] | 1:1 | 4:3 | 16:9 |
| JPEG/ HEIF | L | 32.3 MP (6960x4640) | 12.4 MP (4320x2880) | 21.5 MP (4640x4640) | 28.6 MP (6160x4640) | 27.2 MP (6960x3904) |
| | M | 15.4 MP (4800x3200) | Not available | 10.2 MP (3200x3200) | 13.6 MP (4256x3200) | 12.9 MP (4880x2688) |
| | S1 | 8.1 MP (3472x2320) | | 5.4 MP (2320x2320) | 7.1 MP (3072x2320) | 6.8 MP (3472x1952) |
| | S2 | 3.8 MP (2400x1600) | 3.8 MP (2400x1600) | 2.6 MP (1600x1600) | 3.4 MP (2112x1600) | 3.2 MP (2400x1344) |
| RAW | RAW/ C-RAW | 32.3 MP (6960x4640) | 12.4 MP (4320x2880) | 32.3 MP (6960x4640) | | |

- Values for recorded pixels rounded off to nearest 100,000th
- Shaded cells indicate inexact proportion
- RAW and C-RAW images generated in 3:2 aspect ratio, and set aspect ratio/cropping is appended to images and applied in RAW processing
- JPEG / HEIF images generated in the set aspect ratio
- These aspect ratios and pixel counts also apply to resizing

*1: Angle of view approx. 1.6x the indicated focal length*

**Bit depth (still images)**

JPEG — 8 bits

HEIF — 10 bits

RAW (mechanical / 1st-curtain electronic shutter) — 14 bits (14-bit analog–digital conversion); Canon original

RAW (Electronic shutter) — 14 bits (12-bit A–D conversion), Canon original

**Gamma / color space**

Standard dynamic range (HDR PQ off):

- Internal recording to cards — sRGB or Adobe RGB
- HDMI output — BT.709

HDR PQ on:

- Internal recording to cards — BT.2020
- HDMI output — BT.709 / BT.2020[1]

*1: When connected to an HDR compatible monitor*

**Video signal range**

| HDR shooting (PQ) | Internal recording | | HDMI output | |
|---|---|---|---|---|
| | Range | Recording range | Range | HDMI output range |
| Disable (SDR) | 0–255 | Full range | 64–940 | Narrow range |
| HDR PQ | 0–0123 | Full range | 64–940 | Narrow range |

**Digital tele-converter**

Off / 2.0x / 4.0x

- Images recorded at user-set JPEG or HEIF Image Quality, but quality is lower due to digital enlargement
- Magnification is 3.2x / 6.4x when 1.6x crop is active, or when RF-S / EF-S lenses are used
- Digital tele-converter not available for RAW or C-RAW images
- Display frame rate is fixed at [Smooth] when digital tele-converter is active
- The following settings are fixed with digital tele-converter:
  AF Area — 1-point AF, fixed to center
  Whole area tracking Servo AF — Off
  Touch & drag AF — Disabled
- Magnified view not possible

**Still image file size / Total available shots / Maximum continuous burst**

**Mechanical and 1st-curtain Electronic Shutter — at 12 fps:**

| Image quality | | File size (approx. MB) | Number of shots (approx.)[1] | Maximum burst (approx.) | |
|---|---|---|---|---|---|
| | | | | CFexpress[1] | SD card[2] |
| JPEG[3] | L/Fine | 10.4 | 29,600 | Over 1,000 | Over 1,000 |
| | L/Normal | 5.4 | 57,010 | Over 1,000 | Over 1,000 |
| | M/Fine | 5.9 | 52,180 | Over 1,000 | Over 1,000 |
| | M/Normal | 3.2 | 95,260 | Over 1,000 | Over 1,000 |
| | S1/Fine | 3.7 | 83,550 | Over 1,000 | Over 1,000 |
| | S1/Norm. | 2.1 | 142,720 | Over 1,000 | Over 1,000 |
| | S2 | 1.8 | 170,290 | Over 1,000 | Over 1,000 |
| HEIF[4] | L/Fine | 10.6 | 28,720 | Over 1,000 | Over 1,000 |
| | L/Normal | 7.9 | 38,090 | Over 1,000 | Over 1,000 |
| | M/Fine | 6.1 | 48,940 | Over 1,000 | Over 1,000 |
| | M/Normal | 4.7 | 63,100 | Over 1,000 | Over 1,000 |
| | S1/Fine | 4.0 | 73,560 | Over 1,000 | Over 1,000 |
| | S1/Norm. | 3.1 | 91,680 | Over 1,000 | Over 1,000 |
| | S2 | 1.8 | 148,950 | Over 1,000 | Over 1,000 |
| RAW[3] | RAW | 34.3 | 9,100 | Over 1,000 | 400 |
| | C-RAW | 16.8 | 18,740 | Over 1,000 | Over 1,000 |
| RAW + JPEG[3] | RAW + L/F | 34.3 + 10.4 | 6,960 | Over 1,000 | 250 |
| | C-RAW + L/Fine | 16.8 + 10.4 | 11,470 | Over 1,000 | Over 1,000 |
| RAW + HEIF[4] | RAW + L/F | 37.5 + 10.6 | 6,420 | 200 | 200 |
| | C-RAW + L/Fine | 20.6 + 10.6 | 10,080 | 430 | 430 |

*1: CFexpress cards: 325GB card, conforming to Canon test standards*

*2: SD cards: 128GB UHS-II SD card, conforming to Canon test standards*

*3: When HDR (PQ) is set to DISABLE*

*4: With HDR (PQ) active*

*Maximum burst measured under Canon standard test conditions: One-shot AF mode; High-speed continuous+ shooting; ISO 100; Standard Picture Style; room temperature 73°F (23°C)*

**Still-image file size / Total available shots / Maximum continuous burst**

**Electronic Shutter — at 40 fps**

| Image quality | | File size (approx. MB) | Number of shots (approx.)[1] | Maximum burst (approx.) | |
|---|---|---|---|---|---|
| | | | | CFexpress[1] | SD card[2] |
| JPEG[3] | L/Fine | 10.4 | 29,600 | 330 | 330 |
| | L/Normal | 5.4 | 57,010 | 330 | 330 |
| | M/Fine | 5.9 | 52,180 | 330 | 330 |
| | M/Normal | 3.2 | 95,260 | 330 | 330 |
| | S1/Fine | 3.7 | 83,550 | 330 | 330 |
| | S1/Norm. | 2.1 | 142,720 | 330 | 330 |
| | S2 | 1.8 | 170,290 | 330 | 330 |
| HEIF[4] | L/Fine | 10.6 | 28,720 | 300 | 300 |
| | L/Normal | 7.9 | 38,090 | 300 | 300 |
| | M/Fine | 6.1 | 48,940 | 300 | 300 |
| | M/Normal | 4.7 | 63,100 | 300 | 300 |
| | S1/Fine | 4.0 | 73,560 | 300 | 300 |
| | S1/Norm. | 3.1 | 91,680 | 300 | 300 |
| | S2 | 1.8 | 148,950 | 300 | 300 |
| RAW[3] | RAW | 34.3 | 9,100 | 150 | 140 |
| | C-RAW | 16.8 | 18,740 | 280 | 280 |
| RAW + JPEG[3] | RAW + L/F | 34.3 + 10.4 | 6,960 | 150 | 140 |
| | C-RAW + L/Fine | 16.8 + 10.4 | 11,470 | 280 | 280 |
| RAW + HEIF[4] | RAW + L/F | 37.5 + 10.6 | 6,420 | 130 | 130 |
| | C-RAW + L/Fine | 20.6 + 10.6 | 10,080 | 260 | 260 |

*1: CFexpress cards: 325GB card, conforming to Canon test standards*

*2: SD cards: 128GB UHS-II SD card, conforming to Canon test standards*

*3: When HDR (PQ) is set to DISABLE*

*4: With HDR (PQ) active*

*Maximum burst measured under Canon standard test conditions: One-shot AF mode; High-speed continuous+ shooting; ISO 100; Standard Picture Style; room temperature 73°F (23°C)*

## Movie recording (System frequency: NTSC — 59.94 Hz; PAL — 50.00 Hz)

**Maximum time per movie file**

100.0 FPS or more — maximum 2 hr. 00 min.

Less than 100 FPS — maximum 6 hr. 00 min.

*Except when recording stops from overheating, power source depletion, errors, or similar reasons*

**Available movie continuous record time (before overheating shut-down)**

Recording times from cold start (73° F / 23° C, camera internal and external temp.) until shutdown

| Movie recording quality | Continuous recording time (approx.) | |
|---|---|---|
| | Auto power off temperature | |
| | Standard | High |
| **RAW 59.94 FPS; Light (RAW) and 2K Proxy Standard LGOP[1]** | 23 min. | 23 min. |
| **4K DCI 119.9 FPS; Standard LGOP** | 28 min. | 35 min. |
| **4K DCI Fine 59.94 FPS; Standard LGOP** | 23 min | 23 min. |
| **4K DCI 59.94 FPS; Standard LGOP** | No overheating restrictions | No overheating restrictions |
| **4K DCI Fine 29.97 FPS; Standard LGOP** | No overheating restrictions | No overheating restrictions |
| **4K DCI 29.97 FPS; Standard LGOP** | No overheating restrictions | No overheating restrictions |
| **2K DCI 179.8 FPS; Standard LGOP** | 120 min. | 120 min. |
| **Open Gate (MP4) 29.97 FPS; Std. LGOP** | 24 min. | 36 min. |

Test conditions: CFexpress cards and SD cards (conforming to Canon test standards)

Using LCD screen; no communications; no power over USB; 73°F / 23°C

At higher ambient temperatures, using wireless LAN, power over USB, or Live view display active before start of recording, recording time will be shorter

*1: With [card 1] Main / [card 2] Proxy recording set*

**Open Gate recording**

Movie recording from full area of CMOS image sensor — 3:2 aspect ratio

- Open Gate recording separately activated or disabled in red Shooting Menu
- 7K Open Gate RAW or MP4 recording possible[1]; Max. 29.97 / 25.00 FPS
- 7K Open Gate recording resolutions:
  RAW — 6960 x 4840; MP4 — 6912 x 4608
- Open Gate recording not possible for 4K, 2K or Full HD recording

*1: Slight cropping of 7K Open Gate MP4 video, compared to RAW*

*2: Proxy movie during Open Gate recording — 1920 x 1080; 3:2 aspect ratio*

**RAW movie recording**

7K RAW — internal recording to CFexpress card (17:9 aspect ratio; 6960 x 4640)

- RAW (light) to 60p/50p
- RAW to 30p/25p

7K RAW — Open Gate recording (internal, to CFexpress card; 3:2 aspect ratio)

- Open Gate RAW or RAW (light) to 30p/25p

7K ProRes RAW — external recording (via HDMI) to compatible recorders[1]

- 7K to 30p/25p, or cropped 4.3K to 60p/50p

*1: Atomos Ninja 5+, as of September, 2025*

**RAW crop (HDMI RAW external output)**

4320 x 2278 (approx. 17:9 aspect ratio)

**4K movie recording (MP4 only)**

MP4 4K (DCI or UHD) to 120p

- 4K DCI (17:9 aspect ratio) — 4096 x 2160
- 4K UHD (16:9 aspect ratio) — 3840 x 2160

MP4 4K Fine (oversampled from 7K) — DCI or UHD to 30p/25p

MP4 4K Fine (oversampled) — DCI or UHD at 60p/50p

MP4 4K (*not* oversampled) — DCI or UHD to 120p/100p (with sound)

| | |
|---|---|
| **2K / Full HD movie recording (MP4 only)** | MP4 2K — DCI (approx. 17:9 aspect ratio; 2048 x 1080)<br>MP4 Full HD — UHD (16:9 aspect ratio; 1920 x 1080)<br>MP4 2K or Full HD to 180p/150p, or 120/100p — DCI or UHD[1]<br>MP4 2K or Full HD<br>• 60p/50p; 30p/25p; 24p/24.00p[2]<br>*1: Approx. 1.13x cropping at 180p or 150p*<br>*2: 24.00p available only for 2K MP4 recording* |
| **Cropped movie recording (approx. APS-C area of image sensor)** | 4K — DCI (4096 x 2160); 17:9 aspect ratio) or UHD (3840 x 2160; 16:9 aspect ratio)<br>• Available to 60p/50p; 24.00p possible when set to DCI<br>• RAW and RAW (light) not possible during cropped movie recording, except during HDMI RAW recording to compatible external recorders<br>2K — DCI only (2048 x 1080; 17:9 aspect ratio)<br>• Available to 120p/100p; 24.00p possible when set to DCI<br>Full HD — UHD only (1920 x 1080; 16:9 aspect ratio<br>• Available to 120p/100p |
| **Movie recording format** | RAW; RAW light (7K recording only; 17:9 or Open Gate with 3:2 aspect ratio)<br>• 12-bit recording; .CRM file extension<br>• 17:9 aspect ratio — 6960 x 3672; Open Gate 3:2 aspect ratio — 6960 x 4640<br>• RAW video cannot be recorded as a Proxy movie or Sub movie<br>MP4: 4K; 2K; Full HD<br>• XF-HEVC S — H.265 / HEVC[1] YCbCr 4:2:2 color sampling; 10-bit depth<br>• XF-HEVC S — H.265 / HEVC YCbCr 4:2:0 color sampling; 10-bit depth<br>• XF-AVC S — H.264 / MPEG-4 AVC[1] YCbCr 4:2:2 color sampling; 10-bit depth<br>• XF-AVC S — H.264 / MPEG-4 AVC YCbCr 4:2:0 color sampling; 8-bit depth<br>*1: Cannot be recorded as a Proxy movie* |
| **Proxy movie recording** | Smaller, lighter video file recorded simultaneously to card 2, at same time as Main video file in card 1. The smaller file is suitable for quick video uploading and editing.<br>Movie recording size of Proxy movie (recorded to SD card, in slot 2) is set automatically, depending on movie recording format and size of Main movie (card 1)<br>• Main movie can be RAW, 4K (DCI or UHD), 2K, or Full HD (user's choice)<br>• Proxy file is set to 2K–DCI (when Main movie set to DCI) or Full HD–UHD (when Main movie set to UHD aspect ratio)<br>• Proxy file set to XF-AVC S / YCC 420 8-bit for:<br>- RAW Main video<br>- XF-AVC S / YCC 422 10-bit Main video<br>- XF-AVC S / YCC 420 8-bit Main video<br>• Proxy file set to XF-HEVC S / YCC 420 10-bit for:<br>- XF-HEVC S 422 (or 420) 10-bit Main video |

**Movie recording format / Movie recording size / available frame rate (FPS)**
(when [Standard], [Relay recording], or [Record to multiple] is set)

| Movie recording format | Resolution | Image quality | RAW format / Compression format | Frame rate (FPS) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 179.8 | 150.0 | 119.9 | 100.0 | 59.94 | 50.00 | 29.97 | 25.00 | 24.00 | 23.98 |
| **RAW**[1 2 3] | RAW | - - - | Standard (RAW) | | | | | | | Yes | Yes | Yes | Yes |
| | | | Light (RAW) | | | | | Yes | Yes | Yes | Yes | Yes | Yes |
| **XF-HEVC S YCC 422 10 bit**<br>**XF-HEVC S YCC 420 10 bit**<br>**XF-AVC S YCC 420 8 bit** | 4K-DCI | Fine | Standard Long GOP (LGOP) | | | | | Yes | Yes | Yes | Yes | Yes | Yes |
| | | Normal | | | | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes | Yes | Yes | Yes | Yes | Yes |
| | 4K-UHD | Fine | | | | | | Yes | Yes | Yes | Yes | | Yes |
| | | Normal | | | | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes | Yes | Yes | Yes | | Yes |
| | 2K-DCI | Normal | | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes | Yes | Yes | Yes | Yes | Yes |
| | Full HD | Normal | | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes | Yes | Yes | Yes | | Yes |
| **XF-AVC S YCC 422 10 bit** | 4K-DCI | Fine | High Quality Intra<br>Standard Intra<br>Light Intra<br>Standard LGOP | | | | | Yes [6, 7] | Yes [6, 7] | Yes | Yes | Yes | Yes |
| | | Normal | | | | Yes [2, 4, 5, 7, 8, 9] | Yes [2, 4, 5, 7, 8, 9] | Yes [6, 7] | Yes [6, 7] | Yes | Yes | Yes | Yes |
| | 4K-UHD | Fine | | | | | | Yes [6, 7] | Yes [6, 7] | Yes | Yes | | Yes |
| | | Normal | | | | Yes [2, 4, 5, 7, 8, 9] | Yes [2, 4, 5, 7, 8, 9] | Yes [6, 7] | Yes [6, 7] | Yes | Yes | | Yes |
| | 2K-DCI | Normal | Standard Intra<br>Standard LGOP | Yes [2, 4, 5, 7] | Yes [2, 4, 5, 7] | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes | Yes | Yes | Yes | Yes | Yes |
| | Full HD | Normal | | Yes [2, 4, 5, 7] | Yes [2, 4, 5, 7] | Yes [2, 4, 5] | Yes [2, 4, 5] | Yes | Yes | Yes | Yes | | Yes |

*1: Recording to an SD card not possible — CFexpress recording only*
*2: Cannot be used with Relay recording*
*3: Cannot be used with [Record to multiple] (however, recording to card 1 is possible when only card 1 is installed)*
*4: Cannot be used with [Record to multiple]*
*5: Only exFAT-formatted cards can be used for recording (recording to FAT32-formatted cards not possible)*
*6: Recording to an SD card not possible when [High (intra-frame)] is set*
*7: Recording to an SD card not possible when [Standard (intra-frame)] is set*
*8: Recording to an SD card not possible when [Light (intra-frame)] is set*
*9: [High (Intra-frame)] cannot be selected*
***Cannot be used with Relay recording, or [Record to multiple] when recording to an SD card is not possible***

[card 1] **Main /** [card 2] **Proxy recording —**
**Movie recording format / Movie recording size / available frame rate (FPS)**

| Main movie recording format | Main movie recording size | | | Proxy movie recording format | Proxy movie recording size | | |
|---|---|---|---|---|---|---|---|
| | Resolution | Image quality | RAW format / Compression format | | Resolution | Image quality | Compression format |
| **RAW** | RAW | - - - | Standard (RAW)<br>Light (RAW) | XF-AVC S<br>YCC 420<br>8 bit | 2K-DCI | Normal | Standard LGOP<br>Light LGOP |
| **XF-HEVC S<br>YCC 422<br>10 bit** | 4K-DCI | Fine / Normal | Standard LGOP | XF-HEVC S<br>YCC 420<br>10 bit | 2K-DCI | | |
| | 4K-UHS | Fine / Normal | | | Full HD | | |
| **XF-HEVC S<br>YCC 420<br>10 bit** | 2K-DCI | Normal | | | 2K-DCI | | |
| | Full HD | Normal | | | Full HD | | |
| **XF-AVC S<br>YCC 422<br>10 bit** | 4K-DCI | Fine / Normal | High Qualiy Intra<br>Standard Intra<br>Light Intra<br>Standard LGOP | XF-AVC S<br>YCC 420<br>8 bit | 2K-DCI | | |
| | 4K-UHS | Fine / Normal | | | Full HD | | |
| | 2K-DCI | Normal | Standard Intra<br>Standard LGOP | | 2K-DCI | | |
| | Full HD | Normal | | | Full HD | | |
| **XF-AVC S<br>YCC 420<br>8 bit** | 4K-DCI | Fine / Normal | Standard LGOP | XV-AVC S<br>YCC 420<br>8 bit | 2K-DCI | | |
| | 4K-UHS | Fine / Normal | | | Full HD | | |
| | 2K-DCI | Normal | | | 2K-DCI | | |
| | Full HD | Normal | | | Full HD | | |

*Frame rate for Proxy movie is same as user-set FPS rate for Main movie*

*Available movie recording format / movie recording size / frame rate of Main movie when [card 1] Main / [card 2] Proxy recording is the same as for [Rec options: Standard]. However, 100.0 FPS or higher is not selectable.*

[card 1] **Main /** [card 2] **Sub recording —**

**Movie recording format / Movie recording size / available frame rates (FPS)**

| Main movie recording format | Main movie recording size | | | Sub movie recording format | Sub movie recording size | | |
|---|---|---|---|---|---|---|---|
| | Resolution | Image quality | RAW format / Compression format | | Resolution | Image quality | Compression format |
| **RAW** | RAW | - - - | Standard RAW<br>Light (RAW) | XF-HEVC S<br>YCC 422<br>10 bit<br>XF-HEVC S<br>YCC 420<br>10-bit | 4K-DCI | Fine | Standard<br>LGOP |
| | | | | XF-AVC S<br>YCC 422<br>10 bit | | | High Quality Intra<br>Standard Intra<br>Light Intra<br>Standard LGOP |
| | | | | XF-AVC S<br>YCC 420<br>8 bit | | | Standard<br>LGOP |

*Frame rate (FPS) for Sub movie is same as user-set for Main movie*

*Main movie must be RAW (standard RAW or light RAW); MP4 format cannot be selected for Main movie*

*Sub movie (card 2) is always recorded in 4K-DCI resolution / Fine quality; compression is user-selectable*

**Open gate —Recording format / Movie recording size / Frame rate**
(when Standard is set)

| Movie recording format | File type | Image quality | RAW format / Compression format | Frame rates (FPS) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 179.8 | 150.0 | 119.9 | 100.0 | 59.94 | 50.00 | 29.97 | 25.00 | 24.00 | 23.98 |
| **RAW**[1] | RAW | - - - | Standard RAW<br>Light (RAW) | | | | | | | Yes | Yes | Yes | Yes |
| **XF-HEVC S<br>YCC 422<br>10 bit** | MP4 | Normal | High quality Intra<br>Standard Intra<br>Light Intra<br>Standard LGOP | | | | | | | Yes<br>2, 4, 5 | Yes<br>2, 4, 5 | Yes<br>3, 4, 5 | Yes<br>3, 4, 5 |
| **XF-HEVC S<br>YCC 420<br>10 bit** | | | Standard LGOP | | | | | | | Yes | Yes | Yes | Yes |

*1: Open gate recording only to CFexpress cards (not possible with SD cards)*

*2: [High (Intra-frame)] cannot be selected*

*3: Recording to SD card not possible when [High (Intra-frame)] is set*

*4: Recording to SD card not possible when [Standard (Intra-frame)] is set*

*5: Recording to SD card not possible when [Light (Intra-frame)] is set*

**Open Gate — Recording format / Movie recording size / Frame rate**
(when [card 1] Main and [card 2] Proxy is set)

| Main movie recording format | Movie recording size (Main) | | | Proxy movie recording format | Proxy movie recording size | | |
|---|---|---|---|---|---|---|---|
| | Resolution | Image quality | RAW format / Compression format | | Resolution | Image quality | Compression format |
| | RAW | - - - | Standard (RAW)<br>Light (RAW) | XF-AVC S YCC 420 8 bit | 1920 x 1280 | Normal | Standard LGOP<br>Light LGOP |

Proxy movie size and recording format are set automatically, depending on Main movie recording format and size.
Combinations of Main movies and Proxy movie sizes shown above.

*Proxy movie frame rate is same as user-set for Main movie*

*Main movie must be RAW, when Proxy recording is active.*
*RAW movie options for frame rate, etc. are same as when [Standard] is set.*

| | |
|---|---|
| **Movie cropping** | Possible — approx. 1.6x crop<br>[Card 1] Main / [Card 2] Proxy recording possible with Movie cropping active<br>• 4K — Normal recording (Fine not available); DCI or UHD possible<br>• 4K — 23.98 FPS ~ 59.94 FPS possible (except 24.00p)<br>• 2K / Full HD — 23.98 FPS ~ 119.9 FPS[1, 2]<br>(24.00 FPS possible in 2K-DCI only)<br>• Standard LGOP<br>(XF-HEVC S, YCC422 10 bit; XF-HEVC S, YCC420 10 bit; XF-AVC S, YCC420 8 bit)<br>• High Quality Intra / Standard Intra / Light Intra / Standard LGOP<br>(XF-AVC S, UCC 422 10 bit)[3]<br>*1: 119.9 and 100.00 FPS — only exFAT-formatted cards can be used*<br>*2: Cannot be used with Relay recording, or Record to multiple cards*<br>*3: 59.94 and 50.00 FPS — SD card recording not possible when [High (Intra-frame)] or [Standard (Intra-frame)] is set* |

## Estimated recording time; movie bit rate; file size; and card performance requirements

### RAW

| Recording format | RAW format | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| RAW | Standard RAW | 29.97 | 3 min. | 13 min. | 51 min. | 2600 | 18,631 | CFexpress 2.0 Type B (400MB/sec. or more) | |
| | | 25.00 | 3 min. | 15 min. | 59 min. | 2240 | 16,056 | | |
| | | 24.00 | 3 min. | 15 min. | 1 hr. 1 min. | 2150 | 15,412 | | |
| | | 23.98 | | | | | | | |
| | Light RAW | 59.94 | 3 min. | 14 min. | 55 min. | 2410 | 17,272 | CFexpress 2.0 Type B (400MB/sec. or more) | |
| | | 50.00 | 4 min. | 16 min. | 1 hr. 6 min. | 2010 | 14,411 | | |
| | | 29.97 | 7 min. | 28 min. | 1 hr. 49 min. | 1210 | 8,689 | CFexpress 2.0 Type B (200MB/sec. or more) | |
| | | 25.00 | 8 min. | 33 min. | 2 hr. 11 min. | 1010 | 7,258 | | |
| | | 24.00 | 8 min. | 35 min. | 2 hr. 16 min. | 970 | 6,972 | | |
| | | 23.98 | | | | | | | |

- Video bit rate for video only; audio and metadata not included
- When [Audio format: ACC / 16 bit / 2CH] is set (LPCM / 24bit / 4CH when set to RAW)
- When [Add News Metadata: OFF] is set
- Movie recording stops when maximum recording time per movie is reached

### 4K DCI Fine / 4K UHD Fine

| Recording format | Compres-sion method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-HEVC S YCC 422 10 bit | Standard LGOP | 59.94 | 37 min. | 2 hr. 31 min. | 9 hr. 51 min. | 225 | 1,612 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 3 min. | 4 hr. 12 min. | 16 hr. 25 min. | 135 | 968 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-HEVC S YCC 420 10 bit<br>XF-AVC S YCC 420 8 bit | Standard LGOP | 59.94 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 25 min. | 5 hr. 40 min. | 22 hr. 9 min. | 100 | 718 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

## 4K DCI Fine / 4K UHD Fine (continued)

| Recording format | Compres-sion method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-AVC S YCC 422 10 bit | High Quality Intra | 59.94 | 7 min. | 28 min. | 1 hr. 51 min. | 1200 | 8,585 | CFexpress 2.0 Type B | |
| | | 50.00 | 8 min. | 34 min. | 2 hr. 13 min. | 1000 | 7,155 | | |
| | | 29.97 | 14 min. | 56 min. | 3 hr. 42 min. | 600 | 4,294 | | V90 |
| | | 25.00 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | | |
| | | 24.00 | 17 min. | 1 hr. 11 min. | 4 hr. 37 min. | 480 | 3,436 | | V60 |
| | | 23.98 | | | | | | | |
| | Standard Intra | 59.94 | 9 min. | 37 min. | 2 hr. 28 min. | 900 | 6,440 | CFexpress 2.0 Type B | |
| | | 50.00 | 11 min. | 45 min. | 2 hr. 57 min. | 750 | 5,367 | | |
| | | 29.97 | 18 min. | 1 hr. 15 min. | 4 hr. 56 min. | 450 | 3,221 | | V90 |
| | | 25.00 | 22 min. | 1 hr. 30 min. | 5 hr. 55 min. | 375 | 2,685 | | |
| | | 24.00 | 23 min. | 1 hr. 34 min. | 6 hr. 10 min | 360 | 2,577 | | V60 |
| | | 23.98 | | | | | | | |
| | Light Intra | 59.94 | 14 min. | 56 min. | 3 hr. 42 min. | 600 | 4,294 | CFexpress 2.0 Type B | V90 |
| | | 50.00 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | | |
| | | 29.97 | 28 min. | 1 hr. 53 min. | 7 hr. 24 min. | 300 | 2,148 | | V60 |
| | | 25.00 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | | |
| | | 24.00 | 35 min. | 2 hr. 22 min. | 9 hr. 14 min. | 240 | 1,719 | | U3 |
| | | 23.98 | | | | | | | |
| | Standard LGOP | 59.94 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | CFexpress 2.0 Type B | V60 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | | U3 |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate indicates video only; Audio and metadata not included
- When [Audio format: AAC / 16 bit / 2CH] is set
- When [Add News Metadata: OFF] is set
- Movie recording stops when the maximum recording time per movie is reached
- 24.00 FPS not available wehn 4K UHD Fine is set

## 4K DCI Normal / 4K UHD Normal

| Recording format | Compression method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-HEVC S YCC 422 10 bit | Standard LGOP | 119.9 | 18 min. | 1 hr. 15 min. | 4 hr. 56 min. | 450 | 3,221 | CFExpress 2.0 Type B | V60 |
| | | 100.0 | | | | | | | |
| | | 59.94 | 37 min. | 2 hr. 31 min. | 9 hr. 51 min. | 225 | 1,612 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 3 min. | 4 hr. 12 min. | 16 hr. 25 min. | 135 | 968 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-HEVC S YCC 420 10 bit<br>XF-AVC S YCC 420 8 bit | Standard LGOP | 119.9 | 28 min. | 1 hr. 53 min. | 7 hr. 24 min. | 300 | 2,148 | CFexpress 2.0 Type B | V60 |
| | | 100.0 | | | | | | | |
| | | 59.94 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 25 min. | 5 hr. 40 min. | 22 hr. 9 min. | 100 | 718 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

## 4K DCI Normal / 4K UHD Normal (continued)

| Recording format | Compression method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-AVC S YCC 422 10 bit | High Quality Intra | 119.9 | | | | | | | |
| | | 100.0 | | | | | | | |
| | | 59.94 | 7 min. | 28 min. | 1 hr. 51 min. | 1200 | 8,585 | CFexpress 2.0 Type B | |
| | | 50.00 | 8 min. | 34 min. | 2 hr. 13 min. | 1000 | 7,155 | | |
| | | 29.97 | 14 min. | 56 min. | 3 hr. 42 min. | 600 | 4,294 | | V90 |
| | | 25.00 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | | |
| | | 24.00 | 17 min. | 1 hr. 11 min. | 4 hr. 37 min. | 480 | 3,436 | | V60 |
| | | 23.98 | | | | | | | |
| | Standard Intra | 119.9 | 4 min. | 18 min. | 1 hr. 14 min. | 1800 | 12,877 | CFexpress 2.0 Type B | |
| | | 100.0 | 5 min. | 22 min. | 1 hr. 28 min. | 1500 | 10,731 | | |
| | | 59.94 | 9 min. | 37 min. | 2 hr. 28 min. | 900 | 6,440 | CFexpress 2.0 Type B | |
| | | 50.00 | 11 min. | 45 min. | 2 hr. 57 min. | 750 | 5,367 | | |
| | | 29.97 | 18 min. | 1 hr. 15 min. | 4 hr. 56 min. | 450 | 3,221 | | V60 |
| | | 25.00 | 22 min. | 1 hr. 30 min. | 5 hr. 55 min. | 375 | 2,685 | | |
| | | 24.00 | 23 min. | 1 hr. 34 min. | 6 hr. 10 min. | 360 | 2,577 | | U3 |
| | | 23.98 | | | | | | | |
| | Light Intra | 119.8 | 7 min. | 28 min. | 1 hr. 51 min. | 1200 | 8,585 | CFexpress 2.0 Type B | |
| | | 100.0 | 8 min. | 34 min. | 2 hr. 13 min. | 1000 | 7,155 | | |
| | | 59.94 | 14 min. | 56 min. | 3 hr. 42 min. | 600 | 4,294 | CFexpress 2.0 Type B | V90 |
| | | 50.00 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | | |
| | | 29.97 | 28 min. | 1 hr. 53 min. | 7 hr. 24 min. | 300 | 2,148 | | V60 |
| | | 25.00 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | | |
| | | 24.00 | 35 min. | 2 hr. 22 min. | 9 hr. 14 min. | 240 | 1,719 | | U3 |
| | | 23.98 | | | | | | | |
| | Standard LGOP | 119.9 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | CFexpress 2.0 Type B | V90 |
| | | 100.0 | | | | | | | |
| | | 59.94 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate is for video only; Audio and Metadata not included

## 2K DCI / Full HD

| Recording format | Compres-sion method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-HEVC S YCC 422 10 bit | Standard LGOP | 179.8 | 56 min | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | CFexpress 2.0 Type B | U3 |
| | | 150.0 | | | | | | | |
| | | 119.9 | 1 hr. 25 min. | 5 hr. 40 min. | 22 hr. 9 min. | 100 | 718 | CFexpress 2.0 Type B | U3 |
| | | 100.0 | | | | | | | |
| | | 59.94 | 2 hr. 49 min. | 11 hr. 19 min. | 44 hr. 12 min. | 50 | 360 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | | | | | | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-HEVC S YCC 420 10 bit<br>XF-AVC S YCC 420 8 bit | Standard LGOP | 179.8 | 1 hr. 21 min. | 5 hr. 24 min. | 21 hr. 6 min. | 105 | 753 | CFexpress 2.0 Type B | U3 |
| | | 150.0 | | | | | | | |
| | | 119.9 | 2 hr. 1 min. | 8 hr. 5 min. | 31 hr. 37 min. | 70 | 503 | CFexpress 2.0 Type B | U3 |
| | | 100.0 | | | | | | | |
| | | 59.94 | 4 hr. 2 min. | 16 hr. 7 min. | 63 hr. 1 min. | 35 | 253 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | | | | | | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

## 2K DCI / Full HD (continued)

| Recording format | Compres-sion method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-AVC S YCC 422 10 bit | Standard Intra | 179.8 | 9 min. | 37 min. | 2 hr. 28 min. | 900 | 6,440 | CFexpress 2.0 Type B | |
| | | 150.0 | 11 min. | 45 min. | 2 hr. 57 min. | 750 | 5,367 | | |
| | | 119.9 | 14 min. | 56 min. | 3 hr. 42 min. | 600 | 4,294 | CFexpress 2.0 Type B | V90 |
| | | 100.0 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | | |
| | | 59.94 | 28 min. | 1 hr. 53 min | 7 hr. 24 min. | 300 | 2,148 | CFexpress 2.0 Type B | V60 |
| | | 50.00 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | | |
| | | 29.97 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | | U3 |
| | | 25.00 | 1 hr. 8 min. | 4 hr. 32 min. | 17 hr. 44 min. | 125 | 896 | | |
| | | 24.00 | 1 hr. 10 min. | 4 hr. 43 min. | 18 hr. 28 min. | 120 | 861 | | |
| | | 23.98 | | | | | | | |
| | Standard LGOP | 179.8 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | CFexpress 2.0 Type B | U3 |
| | | 150.0 | | | | | | | |
| | | 119.9 | 1 hr. 25 min. | 5 hr. 40 min. | 22 hr. 9 min. | 100 | 718 | | |
| | | 100.0 | | | | | | | |
| | | 59.94 | 2 hr. 49 min. | 11 hr. 19 min. | 44 hr. 12 min. | 50 | 360 | | |
| | | 50.00 | | | | | | | |
| | | 29.97 | | | | | | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate for video only; audio and metadata not included
- When [Audio format: AAC / 16 bit / 2CH] is set (LPCM / 24 bit / 4CH when set to RAW)
- When [Add news Metadata: OFF] is set
- Movie recording stops when maximum recording time per movie is reached
- When set to Full HD, 24.00 FPS is not available

## Proxy movies (2K DCI / Full HD)

| Recording format | Compression method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD |
| XF-HEVC S YCC 420 10 bit | | 59.94 | 8 hr. 44 min. | 34 hr. 58 min. | 136 hr. 39 min. | 16 | 117 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | | | | | | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-AVC S YCC 420 8 bit | | 59.94 | 15 hr. 21 min. | 61 hr. 25 min. | 239 hr. 55 min. | 9 | 67 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | | | | | | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate for video only; audio and metadata not included
- When [Audio format: AAC / 16 bit / 2CH] is set
- When [Add News Metadata: OFF] is set
- Movie recording stops when the maximum recording time per movie is reached
- When set to Full HD, 24.00 FPS is not available

**Sub movies (4K DCI Fine)**

| Recording format | Compres-sion method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-HEVC S YCC 422 10 bit | Standard LGOP | 59.94 | 37 min. | 2 hr. 31 min. | 9 hr. 51 min. | 225 | 1,612 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 3 min. | 4 hr. 12 min. | 16 hr. 25 min. | 135 | 968 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-HEVC S YCC 420 10 bit | Standard LGOP | 59.94 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 25 min. | 5 hr. 40 min. | 22 hr. 9 min. | 100 | 718 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-AVC S YCC 422 10 bit | Light Intra | 59.94 | 14 min | 56 min | 3 hr. 42 min. | 600 | 4,294 | CFexpress 2.0 Type B | V90 |
| | | 50.00 | 17 min. | 1 hr. 8 min. | 4 hr. 26 min. | 500 | 3,579 | | |
| | | 29.97 | 28 min. | 1 hr. 53 min. | 7 hr. 24 min. | 300 | 2,148 | | V60 |
| | | 25.00 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | | |
| | | 24.00 | 35 min. | 2 hr. 22 min. | 9 hr. 14 min. | 240 | 1,719 | | U3 |
| | | 23.98 | | | | | | | |
| | Standard LGOP | 59.94 | 34 min. | 2 hr. 16 min. | 8 hr. 52 min. | 250 | 1,791 | CFexpress 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-AVC S YCC 420 8 bit | Standard LGOP | 59.94 | 56 min. | 3 hr. 47 min. | 14 hr. 47 min. | 150 | 1,075 | CFexrpess 2.0 Type B | U3 |
| | | 50.00 | | | | | | | |
| | | 29.97 | 1 hr. 25 min. | 5 hr. 40 min. | 22 hr. 9 min. | 100 | 718 | | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate for video only; audio and metadata not included
- When [Audio format: AAC / 16 bit /2CH] is set
- When [Add News Metadata: OFF] is set

## Open Gate (RAW / MP4)

| Recording format | Compression method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| RAW | Standard RAW | 29.97 | 3 min. | 13 min. | 51 min | 2,600 | 18,631 | CFexpress 2.0 Type B (400MB/sec or more) | |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| | Light RAW | 29.97 | 5 min. | 22 min. | 1 hr. 27 min. | 1,520 | 10,906 | CFexpress 2.0 Type B (200MB/sec or more) | |
| | | 25.00 | 6 min. | 26 min. | 1 hr. 44 min. | 1,270 | 9,118 | | |
| | | 24.00 | 6 min. | 27 min. | 1 hr. 48 min. | 1,220 | 8,760 | | |
| | | 23.98 | | | | | | | |
| XF-HEVC S YCC 422 10 bit | High Quality Intra | 24.00 | 4 min. | 19 min. | 1 hr. 17 min. | 1,730 | 12,376 | CFexpress 2.0 Type B | |
| | | 23.98 | | | | | | | |
| | Standard Intra | 29.97 | 5 min. | 21 min. | 1 hr. 22 mn. | 1,620 | 11,590 | CFexpress 2.0 Type B | |
| | | 25.00 | 6 min. | 25 min. | 1 hr. 38 min. | 1,350 | 9,658 | | |
| | | 24.00 | 6 min. | 26 min. | 1 hr. 42 min. | 1,300 | 9,301 | | |
| | | 23.98 | | | | | | | |
| | Light Intra | 29.97 | 7 min. | 31 min. | 2 hr. 3 min. | 1,080 | 7,727 | CFexpress 2.0 Type B | |
| | | 25.00 | 9 min. | 39 min. | 2 hr. 28 min. | 900 | 6,440 | | |
| | | 24.00 | 9 min. | 39 min. | 2 hr. 34 min. | 864 | 6,182 | | |
| | | 23.98 | | | | | | | |
| | Standard LGOP | 29.97 | 17 min. | 1 hr. 10 min. | 4 hr. 34 min. | 486 | 3,479 | CFexpress 2.0 Type B | V90 |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| XF-HEVC S YCC 420 10 bit | Standard LGOP | 29.97 | 23 min. | 1 hr. 34 min. | 6 hr. 10 min. | 360 | 2,577 | CFexpress 2.0 Type B | V90 |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate for video only; audio and metadata not included
- When [Audio format: AAC / 16 bit / 2CH] is set (LPCM / 24 bit / 4CH when set to RAW)
- When [Add News Metadata: OFF] is set
- Movie recording stops when maxiumum recording time per movie is reached

**Proxy movies — Open Gate recording (1920 x 1280)**

| Recording format | Compres-sion method | Frame rate (FPS) | Total recording time (approx) | | | Video bit rate (approx. Mb/sec.) | File size (approx. MB/min.) | Card performance requirements | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 64GB | 256GB | 1 TB | | | CFexpress card | SD card |
| XF-AVC S YCC 420 8 bit | Standard LGOP | 29.97 | 8 hr. 44 min | 34 hr. 58 min. | 136 hr. 39 min. | 16 | 117 | CFexpress 2.0 Type B | U3 |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |
| | Standard LGOP | 29.97 | 15 hr. 21 min. | 61 hr. 25 min. | 239 hr. 55 min. | 9 | 67 | CFexpress 2.0 Type B | U3 |
| | | 25.00 | | | | | | | |
| | | 24.00 | | | | | | | |
| | | 23.98 | | | | | | | |

- Video bit rate for video only; audio and metadata not included
- When [Audio format: AAC / 16 bit / 2CH] is set
- When [Add News Metadata: OFF] is set
- Movie recording stops when maxiumum recording time per movie is reached

| | |
|---|---|
| **High Frame Rate (movie)** | Possible in S&F movie recording |
| **HDR movie recording** | Created in-camera, using a single exposure for each video frame. Reduction of over-exposed (clipped) highlights is possible, even in high-contrast scenes.<br>• HDR movie recording — Disable / Enable<br>• Shadow compensation — Off / Standard / Brighter<br>• Saturation — 0 / 1 / 2 / 3 / 4<br>• Limitation of maximum brightness (when HDR-PQ is active) — Disable / 1000 nits<br>*Cannot be used with:*<br>*– RAW movies, or HDMI RAW output*<br>*– Frame rates higher than 60.00 FPS (30.00 FPS with 4K DCI or UHS — Fine)*<br>*– Basic Zone recording, or during still-image shooting*<br>*– Time-lapse movie recording*<br>*– Live streaming*<br>*– Open Gate recording, or Digital Zoom*<br>*– Atuo slow shutter; Clarity; Auto Lighting Optimizer; Highlight Tone Priority; False color* |
| **Dual shooting (still + movie)** | None |
| **Cinema view** | None |
| **Time-lapse movies** | Disable / Enable in red Shooting Menu<br>• Interval — 2 seconds ~ 99:59:59<br>• Shutter count — 2 shots ~ 3,600 shots<br>• Movie recording size — 4K UHD / Full HD (DCI 17:9 recording not possible)<br>• Movie recording format:<br>XF-AVC S YCC420 10 bit<br>XF-AVC S YCC 420 8-bit<br>• Auto exposure — Fixed at first frame / Set automatically for each frame<br>• Screen auto off — Disable / Enable<br>• Beep for each time-lapse frame taken (volume) — 0 (silent) to 5<br>(set in yellow Set-up Menu: ***Volume > Beep per [shot icon] taken)*** |
| **Time-lapse movie playback** | 29.97 FPS (approx 2 minutes, for 3,600 frames, or 2:24 at 25.00 FPS for 3,600 frames) |
| **Shutter speed range — Time-lapse movie** | 1/8000 to 30 seconds |

<table>
<tr><td>Time-lapse movie record format</td><td>4K UHD:<br>XF-AVC S, YCC 422 10 bit / XF-AVC S, YCC 420 8 bit<br>High Quality Intra / Standard Intra / Light Intra (Normal image quality)<br>Full HD:<br>Same recording formats / bit depth; Standard Intra (Normal image quality)</td></tr>
<tr><td>Restrictions during Time-lapse recording</td><td>Not available during Time-lapse:<br>• Audio recording<br>• Movie Servo AF (One-shot AF before recording begins is possible)<br>• IS mode, Movie Digital IS, Subject tracking IS, and Movie Auto Level<br>• Color filter and Custom Picture (CP)<br>• HDR (PQ) recording, HDR movie mode; HDMI RAW output</td></tr>
<tr><td>Auto Power Off — settings retention</td><td>Time-lapse settings are retained, even if camera enters Auto Power Off</td></tr>
<tr><td>HDMI RAW output</td><td>Uncompressed video signals for ProRes RAW™ recording,<br>to compatible external recording devices<br>Off / On (in camera Menu)<br>• CP (Custom Picture) settings applied to HDMI RAW output video<br>• HDMI RAW output audio format: fixed to LPCM / 16 bit / 2CH<br>Audio signals of two output channels can be selected in [Audio monitor]<br>• HDMI RAW output possible when Movie cropping is active</td></tr>
<tr><td>Movie recording format and movie recording size — HDMI RAW output, RAW + Proxy recording</td><td>
<table>
<tr><th rowspan="2">Output</th><th rowspan="2">Format</th><th rowspan="2">Comp. method / RAW type</th><th rowspan="2">Res.</th><th rowspan="2">Image Quality</th><th colspan="6">Frame rate (FPS)</th></tr>
<tr><th>59.94</th><th>50.00</th><th>29.97</th><th>25.00</th><th>24.00</th><th>23.98</th></tr>
<tr><td rowspan="2">HDMI RAW output</td><td rowspan="2">RAW</td><td rowspan="2">Standard RAW</td><td>RAW</td><td rowspan="2">- - -</td><td></td><td></td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td>RAW crop</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td rowspan="2">Proxy movie [card 2]</td><td rowspan="2">XF-AVC S YCC 420 8 bit</td><td>Std. LGOP</td><td rowspan="2">2K DCI</td><td rowspan="2">Normal</td><td colspan="6" rowspan="2">Same frame rate as Main movie is set for Proxy movie</td></tr>
<tr><td>Light GOP</td></tr>
</table>
Angle of view and FPS rate of Proxy movie are same as Main movie<br>Only HDMI RAW output when [card 2] is not inserted<br>No movie is recorded even if [card 1] is inserted<br>Light RAW not available during HDMI RAW output</td></tr>
<tr><td colspan="2">Custom Picture (CP)</td></tr>
<tr><td>CP activation</td><td>(1) via Color button<br>(Color button > select Custom Picture [CP] > INFO / change > Select CP file)<br>(2) via red Shooting Menu<br>(Color mode > Custom Picture [CP] > INFO / change > Select CP file)</td></tr>
</table>

**CP file selection**

| No. | Name | Protect / Unprotect | Gamma / Color Space | Color Matrix |
|---|---|---|---|---|
| **C1** | **Canon 709** | Protect | Canon 709 / BT.709 | Neutral |
| **C2** | **Canon Log 2** | | Canon Log 2 / C.Gamut | Neutral |
| **C3** | **Canon Log 3** | | Canon Log 3 / C.Gamut | Neutral |
| **C4** | **PQ** | | PQ / BT.2020 | Neutral |
| **C5** | **HLG** | | HLG / BT.2020 | Neutral |
| **C6** | **BT.709 Standard** | | BT.709 Standard / BT.709 | Video |
| **C7 ~ C20** | **User 07 to User 20** | Unprotect | Canon 709 / BT.709 | Neutral |

**CP file editing**

| | Overview |
|---|---|
| **Rename** | Renames CP file (up to 16 characters) |
| **Protect** | Protect / Unprotect |
| **Reset** | Resets the selected CP file settings |
| **Gamma / Color Space** | Sets gamma / color space |
| **Color Matrix** | Sets color reproduction |
| **Look File** | Use Look File — On / Off |
| **Look File Setup** | Register / delete Look File |
| **HLG Color** | Sets color tones of HLG |
| **Black** | Adjusts black level and color cast of blacks |
| **Black Gamma** | Corrects gamma in dark areas |
| **Low Key saturation** | Adjusts color saturation in dark areas |
| **Knee** | Compresses bright areas, to reduce clipped highlights |
| **Sharpness** | Sharpness adjustment |
| **Noise Reduction** | Reduces digital noise |
| **Skin Detail** | Reduces noise in areas with skin tones, to give more pleasant skin appearance |
| **Color Matrix Tuning** | Fine tunes color tones |
| **Color Correction** | Corrects color tone of certain areas |
| **Other Functions** | Sets how camera outputs signals exceeding 100% |

**Look file**

3D LUT file (".cube" format, or "Look file") — created with software such as applications for color grading, and registered in the Custom Picture File:

- Color tone of recorded video can be adjusted with the Look file
- Adjustments also applied to video on LCD screen, viewfinder, and HDMI output

*Look file stored in root folder of memory card*

*Look file: select card that contains file in [Movie Record/Play]*

*A registered Look file is applied to the thumbnail of a RAW movie, but not during Playback*

**Custom Picture during RAW movies**

CP settings not applied to a RAW movie file

CP settings are applied to video on the screen, EVF, and HDMI output during RAW movie recording

When RW movies are played back in-camera, only some CP settings are applied (such as Gamma / Color Space, HLG Color, etc.)

<table>
<tr><td>CP file saving</td><td>Save to card / Load from card<br>When [Save to card] is selected, the CP file is saved to currenly selected card<br>CP file is saved with “.CPF” extension > “C_PICT” folder > PRIVATE folder<br>When [Load from card] is selected, content of the number (C1~C20) selected in [Select CP File] is replaced with the content of the loaded CP file<br>CP file saving (Save to card / Load from card) requires same camera model</td></tr>
<tr><td>CP status</td><td>Settings in CP file can be checked</td></tr>
<tr><td>CP restrictions</td><td>• ISO speed selectable can differ, depending on items of Custom Picture<br>• HDR (PQ) shooting, HDR movie mode, Time-lapse movie recording, and Live Streaming are not possible<br>• The camera cannot frame-grab still images from movies recorded using Custom Picture<br>• HDMI RAW output is not possible</td></tr>
<tr><td colspan="2">Canon Log</td></tr>
<tr><td>Canon Log type</td><td>Canon Log 2 / Canon Log 3<br>• Selected in red Shooting Menu:<br>Color mode > CP (Custom Picture) > Select CP file > C2 or C3</td></tr>
<tr><td>C-Log dynamic range</td><td>Canon Log 2 — approx. 1600% (max. 15+ stops)<br>Canon Log 3 — approx. 1600%[1] (no number of stops provided)<br>1: With 4K DCI (or UHD) Fine; 29.97 or 25.00 FPS, and ISO 800 active</td></tr>
<tr><td>Gamma / color space</td><td>
<table>
<tr><th rowspan="2">HDR shooting (PQ)</th><th rowspan="2">Custom Picture</th><th colspan="2">Color Space</th></tr>
<tr><th>Internal recording</th><th>HDMI output</th></tr>
<tr><td>Disable (SDR)</td><td>Off</td><td>BT.709</td><td>BT.709</td></tr>
<tr><td>HDR PQ</td><td>Off</td><td>BT.2020</td><td>BT.709[1]<br>BT.2020[2, 3]</td></tr>
<tr><td rowspan="6">Disable (SDR)</td><td>Canon 709</td><td>BT.709</td><td>BT.709</td></tr>
<tr><td>Canon Log 2</td><td>Cinema Gamut</td><td>BT.709[4] /<br>Cinema Gamut[5]</td></tr>
<tr><td>Canon Log 3</td><td>Cinema Gamut</td><td>BT.709[4] /<br>Cinema Gamut[5]</td></tr>
<tr><td>PQ</td><td>BT.2020</td><td>BT.709[1] /<br>BT.2020[2 3]</td></tr>
<tr><td>HLG</td><td>BT.2020</td><td>BT.709[1] /<br>BT.2020[2 3]</td></tr>
<tr><td>BT.709 Standard</td><td>BT.709</td><td>BT.709</td></tr>
</table>
1: When connected to an SDR monitor, and when [Playback HDR/C.Log View Assist ON] is set<br>
2: When connected to SDR monitor, and when [Playback HDR/C.Log View assist OFF] is set<br>
3: When connected to an HDR-compatible monitor<br>
4: When [Playback HDR/C.Log View Assist ON] is set<br>
5: When [Playback HDR/C.Log View Assist OFF] is set
</td></tr>
</table>

**Video signal range**

| HDR shooting (PQ) | Custom Picture | Internal recording | | HDMI output | |
|---|---|---|---|---|---|
| | | Range | Recording range | Range | HDMI output range |
| **Disable (SDR)** | **Off** | 16–235 (8 bits)<br>64–940 (10 bits) | Narrow range | 64–940 | Narrow range |
| | **Off** | 16–235 (8 bits)[1]<br>64–940 (10 bits) | Narrow range | 64–940 | Narrow range |
| | **Canon 709** | 16–235 (8 bits)<br>64–940 (10 bits) | Narrow range | 64–940 | Narrow range |
| | **Canon Log 2[2]** | 0–255 (8 bits)<br>0–1023 (10 bits) | Full range | 0–1023 | Full range |
| | | | | 64–940 | Narrow range |
| | **Canon Log 3[2]** | 0–255 (8 bits)<br>0–1023 (10 bits) | Full range | 0–1023 | Full range |
| | | | | 64–940 | Narrow range |
| | **PQ** | 16–235 (8 bits)<br>64–940 (10 bits) | Narrow range | 64–940 | Narrow range |
| | **HLG** | 16–235 (8 bits)<br>64–940 (10 bits) | Narrow range | 64–940 | Narrow range |
| | **BT.709 Standard** | 16–254 (8 bits)<br>64–1019 (10 bits) | Narrow range (contains super white) | 64–1019 | Narrow range (contains super white) |

*1: Only proxy movie / Sub movie supported ([Movie record format: XF-AVC S YCC 420 8 bit] is not selectable when [HDR shooting (PQ)] is set)*

*2: When connected to a monitor that is not Full Range compatible, output is with Narrow Range*

## Time Code

<table>
<tr><td>Options</td><td>
<table>
<tr><th>Item</th><th>Details</th></tr>
<tr><td rowspan="2">Count up</td><td>Rec run</td></tr>
<tr><td>Free run</td></tr>
<tr><td rowspan="3">Start time setting</td><td>Manual input setting</td></tr>
<tr><td>Reset</td></tr>
<tr><td>Time code</td></tr>
<tr><td rowspan="2">Movie recording count</td><td>Rec time</td></tr>
<tr><td>Time code</td></tr>
<tr><td rowspan="2">Movie play count</td><td>Rec time</td></tr>
<tr><td>Time code</td></tr>
<tr><td rowspan="2">HDMI</td><td>Time code:  Off / On</td></tr>
<tr><td>Rec command:  Off / On</td></tr>
<tr><td rowspan="2">Drop frame<br>(178.8 / 119.9 / 59.94 / 29.97 FPS supported)</td><td>Enable</td></tr>
<tr><td>Disable</td></tr>
<tr><td rowspan="3">User bit type</td><td>Manual setting[1]</td></tr>
<tr><td>Time</td></tr>
<tr><td>Date</td></tr>
</table>
• At 59.94 / 50.00 FPS, time code is added to each frame of MP4 files<br>
• For display on the camera, addition is performed every two frames<br>
1:  Up to 8 hexadecimal (0–9 or A–F) digits can be set
</td></tr>
<tr><td colspan="2">Movie Pre-recording</td></tr>
<tr><td>Basic function</td><td>Records 3 or 5 seconds of video, before actual recording is started by user</td></tr>
<tr><td>Activation</td><td>In red shooting menu — On / Off</td></tr>
<tr><td>Pre-recording time</td><td>3 or 5 seconds</td></tr>
<tr><td>Restrictions</td><td>• Not available for RAW movies;  S&F movies;  Time-lapse movies;<br>or HDMI RAW output<br>• [PRE-3] or [PRE-5] displayed on upper-right of screen or EVF when active<br>• Touch sounds not played during Pre-recording<br>• Electronic level and histogram display not possible during Pre-recording<br>• When active, 3 or 5 seconds is subtracted to determine total recording time<br>indicated in upper-left of screen or EVF before recording begins</td></tr>
<tr><td colspan="2">S&F  (Slow & Fast motion movie recording)</td></tr>
<tr><td>S&F mode activation</td><td>Via Mode Dial  (S&F setting)<br>• Exposure mode chosen on LCD screen —<br>Movie Auto exposure;  Shutter priority (Tv);  Aperture priority (Av), or S&F Manual</td></tr>
<tr><td>Exposure control</td><td>S&F movie auto exposure;  S&F movie shutter priority auto;<br>S&F movie aperture-prioity auto;  S&F movie shutter-priority auto</td></tr>
<tr><td>Audio recording  (S&F mode)</td><td>None</td></tr>
<tr><td>Available resolutions  (S&F mode)</td><td>4K DCI / UHD;  2K DCI;  Full HD (UHD)</td></tr>
<tr><td>Recording FPS  (S&F mode)</td><td>180 FPS ~ 1.0 FPS<br>Some restrictions, depending on movie record format, resolution, playback FPS</td></tr>
<tr><td>Playback FPS  (S&F mode)</td><td>NTSC — 23.98 FPS;  24.00 FPS;  29.97 FPS;  59.94 FPS<br>PAL — 24.00 FPS;  25.00 FPS;  50.00 FPS</td></tr>
<tr><td>Maximum slow motion  (S&F)</td><td>7.5x slow  (at 180 FPS recording, and 23.98 FPS playback speed)</td></tr>
</table>

<table>
<tr><td>Maximum fast motion (S&F)</td><td>NTSC — 59.94x fast (at 1.0 FPS recording, and 59.94 FPS playback speed)<br>PAL — 50.00x fast (at 1.0 FPS recording, and 50.00 FPS playback speed)</td></tr>
<tr><td>HDMI output (S&F mode)</td><td>Same as video recording FPS — maximum frame rate 59.94 FPS (NTSC) or 50.00 FPS (PAL)</td></tr>
<tr><td>Time code (S&F mode)</td><td>Available</td></tr>
<tr><td>Compatible memory cards (S&F)</td><td>CFexpress — no limitations (up to 8GB card capacity)<br>SD cards — some restrictions when [Intra-frame recording] is active<br>• At high frame rates (approx. 120~180 FPS), recording possible only exFAT-formatted cards (depends on combinations of other settings)</td></tr>
<tr><td>Autofocus — S&F recording</td><td>Available<br>• AF is more difficult at shutter speeds longer than 1/25th second, or for moving subjects</td></tr>
<tr><td>Other S&F restrictions</td><td>• Relay recording; [card 1] Main / [card 2] Proxy recording; [card 1] Main / [card 2] Sub recording; and Record to multiple not available<br>• Pre-recording; Open Gate recording; and Subject Tracking IS not available<br>• Cannot be used with Digital Zoom; Movie auto slow shutter; Custom shooting modes; Audio settings; Live Streaming; or Time-lapse movies<br>• Some limits on SD card recording when [Intra-frame} recording is set</td></tr>
<tr><td colspan="2">SCN (Special Scene movie modes)</td></tr>
<tr><td>Exposure control in SCN movie modes</td><td>Full auto exposure; Exposure Compensation (Brightness control) available in all except HDR movie mode.</td></tr>
<tr><td>Smooth skin movie</td><td>Applies [Smooth skin effect], to soften skin when recording<br><table><tr><th>AF area</th><th>Subject to detect</th><th>Movie Digital IS / Subject tracking IS</th></tr><tr><td>Whole area AF</td><td>People</td><td>Off</td></tr></table>Press “Q” button for:<br>• Smooth skin effect — +1 ~ +5<br>• Movie record size & FPS adjustment<br>• Exposure compensation<br>• Priority card selection (if two cards installed)<br>• Movie self-timer<br>• Headphone volume adjustment<br>• AF for close-up demos (during Smooth skin movie) — On / Off (video only)<br>Picture Style fixed to Auto (Color filter can be set)<br>Live View image magnified view not possible<br>4K UHD (119.9 FPS / 59.94 FPS) and Full HD (179.8 / 119.9 FPS) cannot be set</td></tr>
<tr><td>Movie for close-up demos</td><td>Focusing on subject held in front of a person, for product demos, etc.<br><table><tr><th>AF area</th><th>Subject to detect</th><th>Movie Digital IS / Subject tracking IS</th></tr><tr><td>Whole area AF</td><td>People</td><td>Off</td></tr></table>Press “Q” button for same adjustments as Smooth skin movie (above)<br>• Priority card selection not possible; replaced with Auto Picture Style / Color Filter selection<br>• Does not support subject selection by tapping or half-pressing shutter button<br>• AF point / Tracking frame not displayed<br>• AF programmed to focus at close range (on detected human subject, or object held closer to camera)</td></tr>
</table>

| | |
|---|---|
| **Movie IS mode** | Activates Movie Digital IS ON (Enhanced) for reducion of camera shake during movie recording<br><br>**AF area** / **Subject to detect**<br>Whole area AF / Auto<br><br>Movie Digital IS user-adjustable:<br>• Movie Digital IS can be turned off, or set to to: ON (standard level), Enhanced, Auto level, or Subject Tracking IS<br><br>Press “Q” button for similar adjustments as Smooth skin movie (above)<br>• Priority card selection possible<br>• Movie self-timer; Headphone volume adjustment not available |
| **HDR movies** | High dynamic range movie, created with single exposure for each video frame — reduces overexposed / clipped highlights, even in high-contrast scenes<br><br>Available movie record sizes / FPS rates:<br>• 4K UHD Fine / 29.97 FPS or 23.98 FPS<br>• 4K UHD / 59.94; 29.97; or 23.98 FPS<br>• Full HD / 59.94; 29.97; or 23.98 FPS<br>Picture Style set to [Standard]; Color Filter cannot be set |
| **Movie recording features** | |
| **Recording to multiple cards** | Yes (see “Recording media”) |
| **Movie pre-recording** | Yes (see “Movie Pre-recording”) |
| **Creative filters** | None |
| **Hybrid Auto recording mode** | None |
| **Video snapshot mode** | None |
| **Add movie rotate info** | Enable / Disable<br>• Vertical and horizontal information of camera during movie recording is added<br>• Rotation info not added during RAW movie recording<br>• Main / Proxy recording: rotation info not added to Main or Proxy movie<br>• Main / sub recording: rotation info not added to Main or Sub movie |
| **Start movie recording during still-image shooting** | Yes — possible by pressing movie shoot button during still image shooting<br>Movies recorded as set in [Movie rec. format] and [Movie rec. size]<br>• Still image mode: Scene Intelligent Auto (A+) — video recorded in Scene Intelligent Auto movie mode<br>• Other still-image shooting modes — video recorded in Movie Auto Exposure mode |
| **Magnified view (Digital zoom)** | Approx. 1.0x–10x<br>• Digital zoom available when Full HD 29.97 / 25.00 / 23.98 FPS is set<br>• Only Standard LGOP can be selected (when XF-AVC S / YCC 422 / 10 bit is set, Standard Intra can also be set)<br>• Approx. 1.6x–10x when Movie cropping is active<br>• Zooming also possible with Wireless Remote Control BR-E1<br>• Cannot be used with Custom Picture [CP]; Movie Digital IS; Subject Tracking IS<br>• Not available when Main / Sub recording is set |

| | |
|---|---|
| **Movie Digital IS** | Can be independently activated, vs. IBIS and lens optical IS (if the lens offers it)<br>• Movie Digital IS settings: Off / On / Enhanced<br>• 5-axis digital stabilization (yaw / pitch / roll / shift X / shift Y)<br>• IBIS, lens optical IS and Movie Digital IS work in combination when Movie Digital IS is active (Coordinated IS, with RF lenses having IS[1])<br>• Video files cropped when Movie Digital IS is active<br>*1: RF lenses with IS, but not offering Coordinated IS — lens optical IS continues to work, with IBIS and Movie Digital IS Coordinated* |
| **Subject Tracking IS** | Available during video recording — stabilizes subject selected by user at specified position on screen. Subject position stabilized using tracking information and information on parts of detected subject (including moving subjects).<br>• [Screen center] or [Select position] can be user-selected for [Subject position]<br>• Cannot be used with: RAW movies; movies at 100.00 FPS or higher; S&F movies; Time-lapse movies; Live streaming; HDMI RAW output; Open Gate; Digital zoom; Manual focus<br>• Cannot be combined with Movie Digital IS or Movie Auto Level<br>• Angle of view will be narrowed<br>• Not available in Basic Zone (except [Movie IS mode]); or for still images |
| **Movie Editing (in-camera)** | Video shot with an EOS R6 Mark III camera can be edited in-camera<br>• Cut beginning / Cut end / Play / Save |
| **Frame grab** | Available — individual 4K movie frames can be saved as still JPEG or HEIF[1] images<br>• 4K DCI (Fine or Normal): approx 8.8MP (4096 x 2160)<br>• 4K UHD (Fine or Normal): approx. 8.3MP (3840 x 2160)<br>• Frame grab not possible from RAW or Open Gate movies, or if [Custom Picture] is set<br>*1: HEIF images if original video is shot in [HDR shooting (PQ)]* |
| **Touch-screen movie recording options** | Movie recording can be started / stopped by tapping red Record or Stop icon |
| **Movie self-timer** | Available (Off / 10 sec. / 2 sec.) |
| **Remote control movie recording** | Available, with accessory Canon BR-E1 Wireless Remote Control (BR-E1 set to [video] position) |
| **AF for close-up demos (video only)** | Priority for AF on objects closer to camera than a detected person's face<br>• **During SCN modes:** Movie for close-up demos, or Smooth skin movie mode (with AF for close-up demos activated, via "Q" icon or button)<br>• **During Live streaming:** ([Choose USB connection app] > [UVC / UAC streaming] and camera is connected via USB to computer or other compatible device) |
| **Tally lamp** | Yes (red lamp visible from front and top of camera)<br>• Blinks slowly when free space on card becomes low<br>• Blinks rapidly when card space is full, or maximum number of files is reached<br>• Blinks rapidly when camera internal temperature rises and is late in overheating period<br>• Blinks rapidly when remaining battery level indicator also begins blinking<br>• Does not illuminate during time-lapse recording |
| **Special White Balance options (video only)** | |
| **Shockless WB (video only)** | WB smoothly adjusted when manually switching White Balance<br>• On / Off (user-selectable in red Shooting Menu, under [White Balance setting])<br>• Not available in Basic Zone, or during still-image shooting |

| | |
|---|---|
| **AWB response (video only)** | User-set control of speed of Auto White Balance changes during video recording, if lighting changes<br>• Low / Normal / High<br>• Activated in red Shooting Menu, under [White Balance setting] |
| **AWB lock (video only)** | Temporarily locks AWB to current settings (AWB won't shift during recording, even if lighting changes)<br>• Activated by customizing a button to [AWB–H] icon setting, in VIDEO Customize Buttons menu<br>• [AWB-H] icon replaces AWB icon when activated; customized button toggles AWB lock on or off when pressed |
| **Auto stopping of movie recording** | |
| **Overheating display and auto stop** | Rising internal camera temperature indicated by appearance of thermometer icon and 10-stage analog scale (orange and red index marks indicate late warning for internal heat build-up)<br>• Camera will automatically stop and turn off if maximum overheating detected |
| **Standby: low resolution** | Temporarily changes display frame rate and image quality during movie recording standby, to conserve battery power and offer more time for video recording<br>• Activated in red Shooting menu (Standby: Low res.) — Off / On |
| **Auto power off temperature (still and video recording)** | User-activated in red Shooting menu (Standard / High)<br>• Internal camera temperature, and card temperatures, can become hot when set to [High] — caution is advised when handling cards |
| **Cooling fan settings** | None<br>• Optional Cooling fan CF-R20EP cannot be used |
| **Metadata (movie recording)** | |
| **Adding News Metadata** | Available (Off / On)<br>• XML file based on News Metadata stored to camera in advance is generated during video recording (file extension for Metadata is XML) |
| **News Metadata** | Checking and selection of info in News Metadata saved to SD card is possible; it can be saved to camera (first 8 characters of News Metadata file name displayed) |
| **Clear News Metadata** | Available — clears News Metadata info stored in-camera, via an app or card |
| **Check News Metadata status** | Displays News Metadata stored in-camera (via an app or card) |
| **Add CP file** | Available — adds a CP file (metadata in XML format) to a video file<br>• CP file not added to RAW video files<br>• CP file is added to a Proxy or Sub-movie |
| **Addition of info for digital image stabilizer** | *(For VR movies)* Time-series inertial sensor information and other info with movie data during movie shooting is recorded. Digital image stabilization of VR movies recorded with Canon RF5.2mm F2.8 L Dual Fisheye lens can be performed in (optional) Canon EOS VR Utility software.<br>• Not available for VR movies at 100.0 FPS or higher |
| **Audio** | |
| **Audio format** | LPCM / 24 bit / 4CH; ACC / 16 bit / 2CH<br>• RAW movies recorded at LPCM / 24 bit / 4CH<br>• [Main + Proxy] with RAW Main [card 1]: If Main movie set to AAC / 16 bit / 2CH, audio of Proxy movie set to same settings<br>• [Main + Sub]: Audio format can be selected for sub movie only |

<table>
<tr><td>Audio settings</td><td>Built-in microphone<br>External microphone<br>Multi-functon shoe iinput<br>Use of camera wireless features may pick up noise — camera wireless use during sound recording not recommended</td></tr>
<tr><td>Built-in microphone</td><td>Stereo microphone, at top of camera (left and right of prism)<br>• 48 kHz;  24 or 16 bit;  2 channels<br>• Noise reduction (built-in mic) — Disable / Enable / High<br>(not available for [LPCM / 24 bit / 4CH])</td></tr>
<tr><td>External microphone<br>(via external mic IN terminal)</td><td>3.5mm diameter stereo mini jack (3-pin)<br>• Plug-in power supported<br>(Canon Stereo Microphone DM-E100 recommended;  compatibility info for third-party mics cannot be provided, because plug-in specs vary by manufacturer)<br>• Input impedance — 2.2 kΩ<br>• Standard input level — ⁻63 dBV<br>• Maximum input level — ⁻23 dBV<br>• Power voltage to microphone — L: 2.0 V;  R: 2.0 V;  GND: 0 V<br>Use of camera wireless features may pick up noise — camera wireless use during sound recording not recommended</td></tr>
<tr><td>Multi-function shoe — Audio input</td><td>Compatible with Canon Directional Stereo Microphone DM-E1D</td></tr>
<tr><td>Sound recording adjustment</td><td>
<table>
<tr><th rowspan="2">Item</th><th rowspan="2">Built-in microphone</th><th colspan="2">External microphone</th></tr>
<tr><th>External mic IN terminal</th><th>Multi-function shoe<br>DM-E1D</th></tr>
<tr><td>Recording mode[1]</td><td>Auto / Manual</td><td>Auto / Manual</td><td>Auto / Manual</td></tr>
<tr><td>Sound record level[1]</td><td>64 levels</td><td>64 levels</td><td>64 levels</td></tr>
<tr><td>Sound record level meter[2]</td><td>Yes</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Wind filter[1]</td><td>Auto / Off</td><td>Off (not displayed)</td><td>On / Off</td></tr>
<tr><td>Attenuator[1]</td><td>Auto<br>(not displayed)</td><td>Auto<br>(not displayed)</td><td>Disable / Enable</td></tr>
<tr><td>Mic directionality[1]</td><td></td><td></td><td>Shotgun (mono)<br>90° (stereo)<br>120° (stereo)</td></tr>
<tr><td>Audio noise reduction[3]</td><td>Disable /<br>Enable / High</td><td></td><td></td></tr>
</table>
1:  Can also be changed during recording in Creative Zone shooting modes (P, Tv, Av, and M).  However, recorded audio in movies and played back in headphones or other devices will be temporarily interrupted when changing settings (except when changing [Record level]).<br>
2:  Sound recording level of all four channels can be checked in [Audio status]. Audio levels of channels associated with built-in mic, external mic, and accessory shoe input is displayed in sound-recording level meters.<br>
3:  Not available for [LPCM / 24bit / 4CH]
</td></tr>
<tr><td>Combination of microphones</td><td>Priority given to mic input:<br>(1) Multi-function shoe;  (2) External mic IN terminal;  (3) Built-in microphone<br>• Microphone with first priority assigned to CH1/CH2;  2nd priority microphone assigned to CH3/CH4</td></tr>
<tr><td>Headphone terminal</td><td>Type:  3.5mm diameter stereo mini jack<br>Max. output level:  ⁻14 dBV (16 16Ω load)</td></tr>
</table>

| | |
|---|---|
| **Audio status** | Microphone: L or R; input 1/2<br>• Recording mode<br>• Audio recording level (when Manual is set)<br>• Channels<br>• Sound recording level meter<br>Monitor CH: Shoot. monitor CH of headphones<br>Headphone volume |
| **Headphone terminal** | 3.5mm diameter stereo mini jack<br>Max. output level: -14 dBV (at 16 Ω load) |
| **Audio monitoring (headphones / HDMI)** | Headphones / HDMI<br>Headphones:<br>• Volume: 0 (silent) ~ 15<br>(can also be changed during recording when in P, Tv, Av, or M exposure modes)<br>• Audio monitoring: Real-time audio (without NR) / Recorded audio (NR applied)<br>(not available for [LPCM / 24bit / 4CH]<br>• Shoot. monitor CH[1]:<br>CH1/CH2; CH1/CH1; CH2/CH2; CH1+2/CH1+2; CH3/CH4; CH3/CH3; CH4/CH4; CH3+4/CH3+4; CH1/CH3; CH2/CH4; CH1+3/CH2+4<br>*1: Shoot. monitor CH displays settable combination, depending on audio format*<br>• Playback monitor CH:<br>CH1/CH2; CH1/CH1; CH2/CH2; CH1+2/CH1+2; CH3/CH4; CH3/CH3; CH4/CH4; CH3+4/CH3+4; CH1/CH3; CH2/CH4; CH1+3/CH2+4 |
| **HDMI audio monitoring** | Shoot. monitor CH: CH1/CH2; CH3/CH4<br>• Shoot monitor CH displays the settable combination, depending on audio format<br>Playback monitor CH: CH1/CH2; CH3/CH4 |
| **HDMI output** | |
| **HDMI output terminal** | HDMI terminal (Type A)<br>• Resolution switches automatically<br>• HDMI CEC not supported<br>• Images not displayed unless [NTSC] or [PAL] set correctly for connected monitor/TV video system |
| **HDMI output settings** | HDR specification: Rec. ITU-R BT.2100<br>HDMI resolution: Auto / 1080p / 1080i<br>HDMI output for movie footage: Supported (HDMI output information display)<br>Bit depth: 10 bits<br>Color sampling: Uncompressed YCbCr 4:2:2<br>Color space : BT.709 / BT.2020<br>Audio output: LPCM 48 kHz / 16 bit / 2CH<br>(output channels can be set in Audio monitor)<br>• Content in output format set on camera is displayed on connected device via HDMI<br>• Content that can be displayed varies, depending on monitor specifications. Display matching camera settings may not be supported<br>• HDR icon is shown when camera is connected via HDMI |

## HDMI resolution

| | Item | Output resolution | NTSC | PAL |
|---|---|---|---|---|
| **4K (DCI / UHD) movie recording**<br>**4K (DCI / UHD) movie playing**<br>**Still photo playback** | **Auto** | **4K DCI** | 59.94p / 29.97p / 24.00p / 23.98p | 50.00p / 25.00p / 24.00p |
| | | **4K UHD** | 59.94p / 29.97p / 23.98p | 50.00p / 25.00p |
| | | **1080** | 59.94p / 60.00i / 59.94i | 50.00p / 60.00i / 50.00i |
| | | **480** | 59.94p | |
| | | **576** | | 50.00p |
| | **1080p** | **1080** | 59.94p / 24.00p | 50.00p / 24.00p |
| | | **480** | | |
| | | **576** | | |
| | **1080i** | **1080** | 60.00i / 59.94i | 60.00i / 50.00i |
| | | **480** | | |
| | | **576** | | |
| **2K / Full HD movie recording**<br>**2K / Full HD movie playing**<br>**Live View display in still photo** | **Auto** | **1080** | 59.94p / 60.00i / 59.94i | 50.00p / 60.00i / 50.00i |
| | | **480** | 59.94p | |
| | | **576** | | 50.00p |
| | **1080p** | **1080** | 59.94p / 24.00p | 50.00p / 24.00p |
| | | **480** | | |
| | | **576** | | |
| | **1080i** | **1080** | 60.00i / 59.94i | 60.00i / 50.00i |
| | | **480** | | |
| | | **576** | | |

*Output resolution and frame rate of HDMI output depend on specifications of connected monitor*

## Display during HDMI connection

| Display during HDMI connection | Camera status | Display details | |
|---|---|---|---|
| | | Camera screen | Device connected via HDMI |
| **Playback / Menu display — *camera LCD screen*** | **Live View image** | Yes | Yes (no information) |
| | **Image playback / Menu display** | Yes | - - - |
| **Playback / Menu display — *connected device*** | **Live View image** | Yes | Yes (no information) |
| | **Image playback / Menu display** | Off | Yes |
| **Connected device only** | **- - -** | Off | Yes |

*Recording to memory card is possible*

*If connected device does not support camera output format, images displayed at lower resolution (display may not be possible, depending on device specifications)*

| | |
|---|---|
| **HDMI HDR output** | Available<br>• Although HDMI HDR output is possible, On / Off selection of HDMI HDR is not available (no HDMI HDR output menu item) |

| | |
|---|---|
| **HDMI output range for Canon Log** | When Canon Log 2 / Canon Log 3 is set, output range of video signal can be set during HDMI output<br>• Prioritize Full Range / Narrow Range |
| **HDMI RAW output** | • ProRes™ RAW recording, to compatible external recorders |

## White balance (stills and movies)

**WB modes**

| White balance modes | Color temperature / K (Kelvin) |
|---|---|
| **AWB (Auto — Ambience priority / White prioritiy)** | Approx. 3000–7000K |
| **Daylight** | Approx. 5200K |
| **Shade** | Approx. 7000K |
| **Cloudy**[1] | Approx. 6000K |
| **Tungsten light** | Approx. 3200K |
| **White fluorescent light** | Approx. 4000K |
| **Flash** | Auto setting[2] |
| **Manual** | Approx. 2000–10000K |
| **Color temperature 1** | Approx. 2500–10000K[3] (set in 100K increments) |
| **Color temperature 2** | |
| **Color temperature 3** | |
| **Color temperature 4** | |

*1: Also effective in twilight and sunset*

*2: With EL- or EX-series speedlites having color temperature information transmission feature, color temperature setting changes to match the color temperature when flash is fired. Set to approx. 6000K if the flash does not have color temperature transmission feature.*

*3: Can also be changed during recording while in Creative Zone modes; Color temperature 1–4 can be switched with [Customize buttons for shooting: Switch color temperature]*

**Custom WB data registration**

**Method 1:**
Shoot a test image of a white or neutral-gray subject (occupying most or all of the frame; *any WB setting can be used to shoot test shot)*. Set Custom WB via "Q" button or red shooting menu. Select [Custom White Balance] menu line-item *(not the Custom WB icon under "White balance.")* Most recent shot will be played-back on LCD screen; possible to scroll to another image on memory card. Press SET burtton to use the displayed image for Custom WB calculation.

**Method 2:**
Set Custom WB (select Custom WB icon) via "Q" button, or in red shooting menu. Tap ERASE icon on-screen — "Shoot to set WB." Camera is now ready to shoot a test image of a white or neutral-gray subject. "WB for Custom White Balance obtained" should be displayed on LCD screen. (This test image will NOT be saved to memory card.) Custom WB now set for subjects in this lighting.

**WB correction**

Blue–amber bias; ±1~9 levels (set via red shooting menu)

Magenta–green bias; ±1~9 levels (set via red shooting menu)

*Shifted from color temperature of current WB mode*

*Blue–amber and Magenta–green bias adjustments can be combined*

*Possible in still-image and video modes; set in red shooting menu, using 8-way Multi-controller on rear of camera*

*Can be combined with Auto Exposure Bracketing*

**WB bracketing (still images only)**

±1–3 levels; Blue–amber or Magenta–green adjustment

- set via “Q” button [WB bracketing icon] or red shooting menu [WB shfit/Bkt.]; rotate rear Quick Control Dial clockwise for Blue–amber bracketiing, or counter-clockwise for Magenta–green adjustment

*Can be combined with WB Correction, using 8-way Multi-controller*

*Three still-image shots taken; not self-canceling*

## Image creation and image processing

**Color mode (via Color button or red shooting menu)**

Picture Style

Color filter

Custom Picture (CP)[1]

*1: Custom Picture available during video shooting only*

**Picture Style (still images and video)**

| | |
|---|---|
| Auto | Faithful |
| Standard | Monochrome |
| Portrait | User Defined 1 |
| Landscape | User Defined 2 |
| Fine Detail | User Defined 3 |
| Neutral | |

**Picture Style Detail Settings**

| Item | | Setting |
|---|---|---|
| **Base style** | | Auto / Standard / Portrait / Landscape / Fine Detail / Neutral / Faithful / Monochrome |
| **Sharpness** | **Strength** | *(Low > High):* 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 |
| | **Fineness**[1] | *(Fine > Grainy):* 1 / 2 / 3 / 4 / 5 |
| | **Threshold**[1] | *(Low > High):* 1 / 2 / 3 / 4 / 5 |
| **Contrast** | | -4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4 |
| **Saturation**[2] | | -4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4 |
| **Color tone**[2] | | [minus settings] — reddish skin tones<br>[plus settings] — yellowish skin tones<br>-4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4 |
| **Filter effect**[3] | | N: None / Ye: Yellow / Or: Orange / R: Red / G: Green |
| **Toning effect**[3] | | N: None / S: Sepia / B: Blue / P: Purple / G: Green |

*1: Fineness and Threshold settings not applied to movie recording*

*2: Except when set to Monochrome*

*3: Only when set to Monochrome*

**Clarity**

-4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4

*Cannot be set in Basic Zone, or used with HDR shooting (PQ)*

**Color space (still images only)**

SRGB / Adobe RGB

- HDMI output — BT.709

When set for HDR PQ: BT.2020

- HDMI output — BT.709 / BT.2020 (when connected to HDR compliant monitor)

| | |
|---|---|
| **Auto Lighting Optimizer** | Disable / Low / Standard / High<br>• Automatically set to Standard in Basic Zone shooting modes<br>• In M or B shooting modes, possible to switch to [Disable] automatically, or to enable user selection<br>• Can be combined with Highlight Tone Priority and HDR PQ<br>• Can be changed during recording in Creative Zone modes<br>• Not available with Custom Picture (CP) |
| **Highlight Tone Priority** | Disable / Enable / Enhanced<br>• ISO with Highlight Tone Priority: Minimum ISO is 200; Expanded ISO not available for greater maximum ISO<br>• [HDR shooting (PQ)] can be activated automatically, via Menu check-box<br>• Can be combined with Auto Lighting Optimizer<br>• Not available with Custom Picture (CP) |
| **Noise reduction** | Long Exposure noise reduction:<br>Disable / Auto / Enable<br>• Operates at exposure times 1 second or longer; noise specific to long exposures is detected<br>High ISO speed noise reduction:<br>Disable / Low / Standard / High<br>• Applies at all ISO speeds<br>• Multi-shot noise reduction not available |
| **Smooth skin effect** | Still images: SCN modes — smooth skin mode<br>• Smooth skin effect adjustable +1~+5, via “Q” icon or button<br>Video: SCN modes — smooth skin movie mode<br>• Smooth skin effect adjustable +1~+5, via “Q” icon or button |
| **Focus breathing correction (video only)** | Compensates for changes in angle of view during focus changes, in video recording<br>Off / On<br>• Applies with compatible Canon lenses only[1]<br>• Angle of view becomes narrower when set<br>• Does not apply when [Distortion correction: OFF] is set<br>• Available when [HDMI RAW output: ON] is set<br>*1: For list of current compatible Canon lenses, see Canon web site cam.start.canon — https://cam.start.canon/en/H001/supplement_0160.html* |

<table>
<tr><td>Canon RF lens correction data</td><td>
Lens aberration correction
<table>
<tr><th></th><th>Still image shooting</th><th>Movie recording</th></tr>
<tr><td>Peripheral illumination correction</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Distortion correction<br>([OFF] not available with certain RF/RF-S lenses)</td><td>Yes</td><td>Yes<br>(with RF/RF-S lenses)</td></tr>
<tr><td>Focus breathing correction</td><td></td><td>Yes</td></tr>
<tr><td>Digital Lens Optimizer (DLO)[1, 2]</td><td>Yes</td><td></td></tr>
<tr><td>Chromatic aberration correction[3]</td><td>Yes</td><td>Yes</td></tr>
<tr><td>Diffraction correction[2]</td><td>Yes</td><td>Yes</td></tr>
</table>
1: Disable; Standard; and High can be set<br>Both chromatic aberration correction and diffraction correction are set to ON<br>At [High] setting, maximum burst (number of shots) will decrease<br>2: Automatically set to [Standard] in Basic Zone shooting modes<br>3: Displayed when [Digital Lens Optimizer: Disable] is set
</td></tr>
<tr><td>Storing of lens aberration information</td><td>Aberration information of lens currently used is stored in RAW image metadata<br>• Information for third-party image processing software:<br>Peripheral illumination correctioon; Distortion correction; Chromatic correction<br>(focus breathing correction, Digital Lens Optimizer, and diffraction correction not applicable)</td></tr>
<tr><td colspan="2">Autofocus</td></tr>
<tr><td>Focusing method</td><td>Dual Pixel CMOS AF (read from CMOS imaging sensor)</td></tr>
<tr><td>Cross-type AF</td><td>None</td></tr>
<tr><td>Smallest (maximum) lens aperture allowing AF</td><td>AF available at effective maximum lens apertures of f/22 or faster<br>(lower f/ number)</td></tr>
<tr><td>Brightness range for AF</td><td>Still images: EV -6.5 ~ 21<br>Movie recording: 4K DCI 30p / 4K UHD 30p: EV -4 ~ 21<br>2K DCI 30p / Full HD 30p: EV -4 ~ 21<br>(with f/1.2 lens[1], center AF point, One-shot AF, ISO 100, at room temperature; movie specs measured at 29.97 / 25.00 FPS)<br>1: Except RF lenses with Defocus Smoothing (DS) coating</td></tr>
<tr><td>Focusing operation</td><td>Still-image shooting: One-shot AF; AI Focus AF; Servo AF<br>Movie recording: One-shot AF; Movie Servo AF<br>Manual focus supported for stills and movies<br>• AI Focus AF:<br>camera automatically switches from One-shot AF to Servo AF in response to subject movement (also applies during continuous shooting)</td></tr>
<tr><td>Select focus mode in camera menu</td><td>Yes (when RF/RF-S lenses without a focus mode switch are used)<br>• Lenses with AF mode switch: lens switch setting takes priority</td></tr>
<tr><td>Preview AF</td><td>Activates continuous AF when camera is awake, before user half-presses shutter button or AF activation button<br>Enable / Disable (still-image shooting only)</td></tr>
<tr><td>Image area used for AF detection</td><td>Varies, depending on lens used<br>• Most Canon RF and RF-S lenses: AF coverage approx. 100% (H) x 100% (V)<br>• List of current lenses: see cam.start.canon web site<br>(https://cam.start.canon/en/H001/supplement_0110.html)</td></tr>
</table>

| | |
|---|---|
| **Number of AF Areas for auto selection** | With focusing area approx. 100% x 100%:<br>Still images — max. 1053 zones (39 x 27)<br>Movie recording[1] — Max. 897 zones (39 x 23)<br>*1: When 4K DCI Fine / 4K DCI is set* |
| **Selectable positions for user-set AF point movement[1]** | Still images — max. 6,097 positions (91 x 67)<br>Movie recording[2] — max. 4,641 positions (91 x 51)<br>*1: Max. user-adjustable AF point movement over approx. 90% (H) x 100% (V)*<br>*2: When 4K DCI Fine / 4K DCI is set* |
| **AF Areas (stills and movies)** | Spot AF<br>1-point AF<br>Expand AF area — 4-point surround<br>Expand AF area — 8-point surround<br>Flexible Zone AF 1<br>Flexible Zone AF 2<br>Flexible Zone AF 3<br>*(each Flexible Zone AF Area user-adjustable, from 9 zones [3x3] to 945 zones [35x27])*<br>Whole Area AF (max. 1,053 zones — 39 x 27)<br>*Movie recording: AF Areas limited when Subject Tracking IS active* |
| **AF Areas *with lock icon* (subject detection & AF Tracking OFF)** | Spot AF<br>1-point AF<br>Expand AF area — 4-point surround<br>Expand AF area — 8-point surround |
| **Limit available AF Areas** | Available |
| **Orientation-linked AF Area** | Automatic changing of AF point location (or AF Area + point location) when camera is rotated<br>[Same for both vert / horiz] — AF point location fixed at location set by user<br>[Separate AF pts: Area + pt.] — AF point location and choice of AF Area change automatically when camera is rotated<br>[Separate AF pts: Pt only] — AF point location (only) changes if camera rotated |
| **Touch AF** | Available (tap LCD screen to position active AF area)<br>• Selected in green Customized Controls when shooting Menu |
| **Touch & drag AF settings** | AF Area location positioning *during viewfinder shooting* by running thumb across surface of LCD screen (while looking through EVF)<br>Disable / Enable<br>• Selected in green Customized Controls when shooting Menu<br>• Available for stills and video<br>Positioning method: Absolute / Relative<br>*(Absolute — length of single thumb movement positions AF Area; Relative — multiple short thumb movements can position AF Area)*<br>Active touch area (portion of LCD screen available for Touch & drag AF):<br>Whole panel / Right / Left / Top / Bottom / Top right / Bottom right / Top left / Bottom left<br>Relative sensitivity: -1 / 0 / +1 |
| **Lens drive when AF impossible** | Continue focus search / Stop focus search |

| | |
|---|---|
| **AF-assist beam firing** | AF-assist beam activated in One-shot AF during still-image shooting<br>Enable — (1) Camera's built-in AF-assist beam (LED on front of body)<br>(2) White LED AF-assist beams of compatible external speedlites[1]<br>• Intermittent flash AF-assist beams from external flash not supported<br>• [LED AF assist beam only] not provided<br>*1: When Speedlite EL-5 is used, LED brightness automatically adjusted to suit brightness of shooing environment (both to reduce glare and improve AF performance)* |
| **Focus preset** | Memorize a focus distance, and immediately return to it with a button press<br>• Using customized buttons, on-camera[1]<br>• Using customized Lens Function buttons (on select RF lenses)<br>*1: Two customized buttons required: one to set desired distance, and a second button to have AF return to memorized distance* |
| **AF Setting Guide URL (in camera's AF Menu)** | |
| **Subject detection, AF tracking** | |
| **Detectable subjects** | **Auto[1]** (People / Animals / Vehicles)<br>**People[2]**<br>**Animals**<br>(birds, cats, dogs, horses)<br>**Vehicles** — *Spot Detection of open, uncovered helmeted drivers/riders can be activated iseparately*<br>• (motorsports vehicles — cars[3] / motorcycles / dirt bikes); aircraft (jets, helicopters); trains[4]<br>None (no subject detection AF performed)<br>• Fixed to [Auto] in Basic Zone shooting modes; selectable options vary in SCN shooting modes<br>• User direct selection of Subject to Detect possible by customizing a button<br>*1: In scenes with multiple subjects for detection, most fitting subject (based on detection results and how scene is composed) is selected*<br>*2: Compatible animals or vehicles will be selected if no person detected upon activation of AF; if animals or vehicles also detected, people are priority*<br>*3: Formula cars; GT cars; rally cars*<br>*4: High-speed trains; Limited express trains; Conventional lines; Steam trains* |
| **Subject detection — detectable priority** | **People**:<br>(1) Eyes; (2) Face; (3) Head; (4) Body<br>• Momentary inability to detect eyes / face / head will cause camera to prioritize body; when these can be detected again, they again take priority<br>**Animals**<br>(1) Eyes; (2) Face; (3) Entire body<br>**Vehicles**<br>(1) Entire vehicle (cars, motorcycles, or aircraft); (2) Front (trains) |
| **Spot detection (vehicles)** | Priority AF placed on detected helmet of driver or rider<br>• Driver/rider must be in open-roof vehicle, and not covered by windshield or similar obstructions<br>• With conventional stock cars, etc., priority will be placed on vehicle, rather than rider viewed through a windshield and/or covered by roof |
| **Limit subjects to detect** | Available (except in Basic Zone shooting modes)<br>Auto / People / Animals / Vehicles / None — one or more can be chosen; when chosen, they are not selectable (can be restored by user at any time) |

| | |
|---|---|
| **Eye Detect AF** | Available<br>(Auto / Right eye / Left eye)<br>• Right and Left eye refer to subject's actual right or left eye, not as viewed from camera position |
| **Whole area tracking AF** | On / Off<br>• Still-image shooting: tracking performed using Whole-area AF when AF is activated<br>• Tracking frame displayed<br>• Video recording: if AF Area is set to any option other than [Whole-area AF], Whole-area tracking is not performed<br>• Cannot be set in Basic Zone shooting modes<br>• Part of subject with highest priority out of detectable parts will be selected as AF target<br>• When OFF, if AF Area is in contact with subject's face/head area, the eyes may be selected as the AF target. If subject's body is primary detectable part of subject, tracking frame is not displayed. |
| **Start & stop whole area AF tracking** | Possible, via SET button<br>• After tracking begins, tracking frame appears as double-frame<br>• Can be started with Touch AF, when set for Whole-area AF tracking |
| **Initial AF tracking position (AF Area)** | [Whole area tracking Servo AF: ON] — position where tracking begins differs, depending on color of tracking frame<br>WHITE: Tracking begins where subject detected<br>(AF point / AF Area are overlapping, or near each other)<br>GRAY: Tracking begins at AF point or Area<br>(AF point / Area are not overlapping, or near each other) |
| **Switching tracked subjects** | None (video recording — integrated into [Subject switching sensitivity] in AF menu) |
| **Lens drive when AF impossible** | Continue focus search / Stop focus search |
| **AF-assist beam firing** | Activated during One-shot AF (still-image shooting only)<br>• Camera's built-in AF-assist beam (orange LED, on front of camera body)<br>• White LED AF-assist beams of compatible external speedlites<br>• Intermittent repeating flash AF-assist from speedlites not supported; [LED AF assist beam only] not provided<br>• No AF-assist beam when AF operation set to [Servo]<br>*Speedlite EL-5: LED brightness automatically adjusted to suit ambient brightness level* |
| **Manual focus** | |
| **MF activation method** | (1) via AF/MF switch on lens<br>(2) via [Focus Mode] menu setting (in AF menu)<br>*[Focus Mode] grayed-out in Menu if attached lens has AF/MF switch on lens* |

| | |
|---|---|
| **Lens electronic MF** | Selected in AF Menu:<br>**DISABLE**<br>**Disable after One-shot AF:**<br>No manual focus adjustment possible after One-shot AF confirms focus<br>**One-shot –> enabled:**<br>Manual focus possible after One-shot AF confirms focus, while continuing to half-press shutter button<br>**One-shot –> enabled (magnify):**<br>Manual focus with magnification of focus area possible, while continuing to half-press shutter button<br>**Enable (actual size):**<br>Manual focus always possible, while camera is turned on<br>**Enable (One-shot –> magnify):**<br>Manual focus always possible, while camera is turned on.<br>Magnification of focus area possible as lens focus ring is turned, after One-shot AF<br>*Requires RF or RF-S lens compatible with Full-time Manual Focusing* |
| **MF peaking settings** | Available — displays high-contrast subject edges as they enter sharp focus, in user-specified color<br>Level: High / Low<br>Color: Red / Yellow / Blue |
| **Focus guide** | Available — displays a guide frame (similar to single AF point) with index marks to show correct focus, front-focused state, or rear-focused state<br>• If subject is a person, face or eye detection is possible |
| **Lens focusing ring rotation direction (RF / RF-S lenses)** | Available: direction of manual focus can be changed in green Customized controls when shooting Menu<br>***Focus ring rotation > Normal / Reverse direction*** |
| **Shutter button: clear MF Magnify (still-image shooting only)** | Available (AF Menu) — On / Off<br>Clears magnified view in MF mode, when shutter button is half-pressed *(shutter button only; does not apply if [Metering + AF Start] has been applied to a customized button)* |
| **Lens focusing ring sensitivity (RF / RF-S lenses)** | Available (green Customized controls when shooting Menu)<br>Varies with rotation speed / Linked to rotation degree |
| **Lens Control Ring: MF or Control Ring functionality** | Available — Use as focus ring / Use as control ring<br>• *Lenses with combination MF ring / Control Ring (no switch on lens for MF / Control Ring operation):* User-selected Menu choice for ring to be Manual focus ring or Control Ring (set in green Customized controls when shooting Menu)<br>• *Lenses with both Control Ring and separate Manual Focus ring:* If [Use as Control Ring] is selected in Menu, focus ring on lens functions as Control Ring; actual lens Control Ring will be inoperative |

## Register (memorize) AF settings

<table>
<tr><td>Register people priority</td><td>Available (Enable / Disable) — allows camera to detect specific people in a scene (even with multiple people in the frame) and focus upon them<br><br>Requires taking a test shot of one or more people to be registered (with faces visible), with [Photograph people and register] active in AF Menu<br><br>• If more than one person is registered, priority can be set by user, and can be changed by user<br>• Up to 10 files (individual people) can be registered<br>• [Register people from image on card]:<br>Possible to have existing image(s) of head and face of a person, and add them for Register people priority<br>• When a registered person is detected in a scene, a round icon is displayed surrounding the active AF Area<br>• If subject tracking is active:<br>Subject being tracked gets priority for AF, even if registered person is detected<br><br>Registered subject images are stored in-camera — it is not necessary for memory card that initially captured image to be registered to be in-camera</td></tr>
<tr><td>Register people priority:<br>Menu choices (AF menu)</td><td>Photograph people and register<br><br>Register people from image on card (RAW images cannot be registered)<br><br>Change / del. priority of reg. people<br><br>Delete all registered people<br><br>Save / load registered data on card:<br><br>• Save registration data on card / Load from card (overwrite) / Load from card (add)</td></tr>
<tr><td>Register / recall AF-related settings</td><td>Up to six sets of separate combinations of AF settings can be memorized (registered) and recalled, to quickly set the camera for different shooting situations<br><br>• SET1 ~ SET6 (sets can be re-named); can be recalled in AF Menu</td></tr>
<tr><td>AF settings that can be registered</td><td><table>
<tr><td>AF operation</td><td>Limit subject to detect</td><td>Case Auto settings</td></tr>
<tr><td>AF area</td><td>Spot detection</td><td>Tracking sensitivity</td></tr>
<tr><td>Orientation linked AF pt.</td><td>Eye detection</td><td>Accel. / decel. tracking</td></tr>
<tr><td>Limit AF areas</td><td>Left / right eye detection</td><td>Servo 1st image priority</td></tr>
<tr><td>Whole area tracking Servo AF</td><td>Register people priority</td><td>Lens drive when AF impossible</td></tr>
<tr><td>Subject to detect</td><td>Servo AF characteristics</td><td>Lens electronic MF</td></tr>
</table></td></tr>
<tr><td>Focus preset</td><td>Available (register / recall)<br><br>• User-applied to specific buttons, via [Customize buttons for shooting]<br>• Two buttons required (one for [Register focus preset]; one for [Playback focus preset] (return lens focus to memorized position)<br>• Available for still-images and video<br>(AF will be at maximum speed when recording video)<br>• Available only with RF lenses capable of AF (EF lenses not compatible)</td></tr>
<tr><td colspan="2">Movie Servo AF</td></tr>
<tr><td>Movie Servo AF activation</td><td>Enable / Disable (in AF menu, when set for video recording)</td></tr>
<tr><td>Subject detection with Movie Servo AF</td><td>Auto / People / Animals / Vehicles / None</td></tr>
</table>

| | |
|---|---|
| **Subject detection priority** | Detect. priority<br>Detect. only<br>• Detect only: Movie Servo AF restricted to main detected subject *(focus remains at last position, if subject is lost and cannot be detected; if subject returns, AF resumes on that subject)*<br>• In AF menu: ***Movie Servo AF > Subject detect. AF > Detect priority / Detect only*** |
| **Movie Servo AF speed** | User-adjustable — 1 (slow) ~ 10 (fast)<br>• Available with lenses supporting slow focus shift during movie recording[1]<br>• Same settings during standby and actual movie recording<br>*1: List of compatible lenses at cam.start.canon web site: https://cam.start.canon/en/H001/supplement_0070.html* |
| **Movie Servo AF tracking sensitivity** | Integrated into [Subject switching sensitivity] (AF menu during video recording)<br>• Not available in Full Auto [A+] or SCN shooting modes, during video recording |
| **AF for close-up demos** | On / Off<br>During video calls or streaming via USB<br>• Also available as shooting mode: SCN modes –> Movie for close-up demos or during Smooth skin movie mode, with [AF for close-up demos] activated via "Q" icon or button |
| **Track after Focusing (video only)** | Main subject to be targeted by AF can be switched, using Lens electronic MF<br>• Off / On (Tracking frame) / On (No Tracking frame)<br>• Orange-colored tracking frame displayed for potential subject switching<br>• Requires [Movie Servo AF: Enable]; Compatible RF / RF-S lens; and [Lens electronic MF: Enable (actual size) / [Enable (One-shot AF –> magnify] to be set<br>• Requires AF Area at: Flexible Zone AF (1~3) or Whole-area AF |
| **Registering (memorizing) AF settings** | |
| **Register/return AF Area to home position** | None |
| **Special AF features** | |
| **Eye control AF** | None |
| **Action Priority AF** | None |
| **Focus bracketing** | |
| **Description** | Continuous still-image recording, with focus distance progressively adjusted from initial position towards infinity for each successive shot<br>• Remote control can be used<br>• User selects number of Focus Bracketed shots, and focus increment to be changed for each shot<br>• User selects Exposure mode (Creative Zone modes only); initial subject for focus at first frame; lens aperture (if camera is in M or Av mode)<br>• Position of AF Area / point for first shot in sequence will be used for second and subsequent Focus Bracketed shots<br>• Shutter mode fixed to Electronic (only) — flash images not possible |
| **Compatible image types** | RAW; C-RAW; JPEG; HEIF<br>(compositied images will be JPEG; if recorded as HEIF images ([HDR shooting (PQ)] active), in-camera composited image(s) will also be HEIF format |
| **In-camera compositing (combining of source images)** | Yes<br>• Also possible to composite Focus Bracketed images, using Canon Digital Photo Professional software, on compatible Macintosh™ or Windows™ computers |

<table>
<tr><td>Focus bracketing setting</td><td>
<table>
<tr><td>Focus bracketing</td><td>Enable / Disable</td></tr>
<tr><td>Shutter count</td><td>2 ~ 999 still images</td></tr>
<tr><td>Focus increment</td><td>1 (narrow) ~ 10 (wide)</td></tr>
<tr><td>Exposure smoothing</td><td>Enable / Disable<br>(set to [Enable] to suppress changes in brightness of lens aperture at different focus positions)</td></tr>
<tr><td>Depth composite[1]</td><td>Enable / Disable</td></tr>
<tr><td>Crop depth composite[2]</td><td>Enable / Disable</td></tr>
</table>
1: Set to DISABLE to save only source images, for compositing later using compatible computer software. ENABLE saves both original source files, and in-camera depth-composited image(s).<br>
2: Auto cropping of finished, in-camera composited image, to remove outer areas without sufficient compositing information, due to shifts in composition from hand-holding or camera shake during bracketed shooting
</td></tr>
<tr><td colspan="2">Viewfinder</td></tr>
<tr><td>Type</td><td>OLED color electronic viewfinder</td></tr>
<tr><td>EVF screen size</td><td>0.5 inches<br>• Diagonal: approx. 0.5 in. (1.3 cm)<br>Width: approx. 0.39 in. (1.0 cm)<br>Height: approx. 0.31 in. (0.8 cm)</td></tr>
<tr><td>EVF dot count (resolution)</td><td>Approx. 3.96 million dots<br>(width x height x 3 (RGB) = 3,686,400 dots</td></tr>
<tr><td>EVF specificatioins</td><td>
<table>
<tr><td>Magnification / Angle of view</td><td>Appprox. 0.76x (50mm lens at infinity, $^{-}$1 m$^{-1}$)</td></tr>
<tr><td>Coverage</td><td>Approx 100%<br>(JPEG Large [3:2] image quality; 3:2 aspect ratio, and approx. 23mm eyepoint)</td></tr>
<tr><td>Eyepoint</td><td>Approx. 23mm (at $^{-}$1 m$^{-1}$ from eyepiece end)</td></tr>
<tr><td>Dioptric adjustment</td><td>Approx. $^{-}$4.0 to $^{+}$2.0 m$^{-1}$</td></tr>
</table>
</td></tr>
<tr><td>Viewfinder brightness</td><td>Auto: automatic adjustment to suit brightness (metering results)<br>Manual: user-adjustable over 1~5 range</td></tr>
<tr><td>Viewfinder color tone adjustment</td><td>Warm tone / Standard / Cool tone 1 / Cool tone 2<br>(also applies to LCD screen)</td></tr>
<tr><td>Fine-tuning viewfinder color tone</td><td>Blue (B) / Amber (A) bias: ±2 levels<br>Magenta (M) / Green (G) bias: ±2 levels</td></tr>
<tr><td>Viewfinder / LCD screen<br>Display frame rate settings</td><td>Power saving: 59.94 FPS<br>Smooth: 119.88 FPS<br>• Magnified view: fixed at 29.97 FPS<br>• During AF operation: from max. FPS rate down to 7.49 FPS<br>• Video: corresponds to movie frame rate, except:<br>17.9.8 / 150.0 / 119.9 / 100.0 FPS; S&F movies 179.8 / 150.0 / 119.9 / 100.0 FPS<br>Also except in standby, when set to [Standby: Low res.: ON]<br>In red Shooting Menu:<br>LCD/EVF (icon) display frame rate set. > Power saving / Smooth</td></tr>
<tr><td>Viewfinder display format</td><td>Display 1 / Display 2 (with black border)</td></tr>
<tr><td>Viewfinder sensor</td><td>Provided</td></tr>
</table>

| | |
|---|---|
| **Viewfinder info — vertical display (still images only)** | Available — viewfinder information switches to maintain position on bottom, when camera is held vertically<br>In red Shooting Menu: ***Shooting info. disp. > VF vertical display > On / Off*** |
| **Image review in viewfinder** | Available<br>(when ON, playback visible on either LCD screen, or EVF when eye is at finder)<br>On / Off — in red Shooting Menu:<br>***Image review > Viewfinder display > Enable or Disable*** |
| **Eyecup** | Fixed; non-removable |
| **LCD screen** | |
| **Type** | TFT color LCD screen |
| **LCD screen dimensions** | Size: 3.0 inch (3:2 aspect ratio)<br>• Diagonal: Approx. 1.65 in. (4.2 cm)<br>Width: Approx. 2.44 in. (6.2 cm)<br>Height: Approx. 1.65 in. (4.2 cm) |
| **Dot count (approx.)** | Approx. 1.62 million dots |
| **Viewing angle** | Approx. 170° (horiz. and vertical) |
| **Coverage** | Approx. 100% (at Large image size, with 3:2 aspect ratio) |
| **Screen brightness** | User-adjustable; 1~7 range<br>• Adjusted in yellow Set-up Menu: ***Screen brightness > 1~7 scale*** |
| **Color tone adjustment** | (same as viewfinder color tone; applies to both)<br>Warm tone / Standard / Cool tone 1 / Cool tone 2<br>• Yellow set-up Menu: ***Screen/viewfinder color tone > select 1~4*** |
| **LCD display frame rate setting** | Screen refresh rate: 59.94 FPS<br>Video frame rate (LCD screen):<br>Corresponds to movie FPS rate<br>• Except for video shot at 100.0 FPS or faster (including S&F movies); and except in standby when set to [Standby: low res ON]<br>Still image shooting:<br>Power saving — 29.97 ~ 7.49 FPS (during AF operation: 59.94 ~ 7.49 FPS)<br>Smooth — 59.94 ~ 7.49 FPS (during AF operation — same)<br>*Suppress lower frame rate: fixed at 59.94 FPS*<br>*Fixed at 29.97 FPS during magnified view* |
| **Vari-angle LCD adjustment** | Yes<br>• Opening angle: approx. 0–175°<br>• Rotation angle — forward: approx. 0–90°; backward: approx. 0–180° |
| **LCD screen coatings** | Anti-smudge coating provided (no anti-reflection coating) |
| **Touch-screen** | Detection method: capacitive sensing |

**Touch-screen operations**

| | |
|---|---|
| **AF point selection / Touch AF** | Supported |
| **Touch shutter[1]** | Disable / Enable |
| **Menu setting touch control** | Supported |
| **Quick Control touch control** | Supported |
| **UI magnification[2]** | Enable / Disable<br>*(double-tap with two fingers to magnify menu screens around the two points touched)* |
| **Touch control** | Enable / Disable |
| **Volume: touch sounds** | Volume: 0 (silent) ~ 5 (maximum) |

Touch control in green Customized controls menu:
**Touch control > Enable / Disable**

*1: Continuous shooting by touch operation not available*

*2: In yellow Set-up Menu: **UI Magnification > Enable / Disable***

**Reverse display**

On / Off — in red Shooting Menu: ***Reverse display > On / Off***

- Reverses LCD screen display, when angled so screen faces front of camera

## Display settings (apply to both EVF and LCD screen)

**Viewfinder / screen display**

Auto 1 (fixed to LCD screen when screen folded away from body)

Auto 2 (also auto switching, when screen folded away from body)

Viewfinder (only)

LCD screen (only)

**Display simulation**

| Item | Simulation display | |
|---|---|---|
| | **Exposure** | **Depth-of-field** |
| **Exposure + DOF [1 2 3]** | Yes | Yes |
| **Exposure [1]** | Yes | |
| **Exposure only during DOF preview [4 5]** | Yes | Yes |
| **Disable** | Display at the correct exposure | - - - |

Applies in Fv / P / Tv / Av / M modes, for still-image shooting

*1: Correct display exposure will be displayed regardless of settings when in B mode, and when using a speedlite*

*2: [Exposure + DOF] is available with RF lenses, and with some (not all) EF lenses*

*3: With EF lenses, shutter-releast time lag may increase*

*4: Correct exposure will be displayed regardless of settings, when in B mode*

*5: When using a speedlite, exposure and depth-of-field simulation display are available*

| | | Depth of field simulation display |
|---|---|---|
| **Standby** | | Yes |
| **During AF operation** | **Aperture** | Up to f/8 |
| | **Under low light** | - - - |
| **During continuous shooting** | | - - - |

| | |
|---|---|
| **Optical viewfinder simulation (OVF simulation view assist)** | On / Off (applies to both EVF and LCD screen)<br>• Live view images (EVF and screen) will differ from actual shooting results<br>• When [On], Live view images will not reflect these settings: Picture Style; White balance; Auto Lighting Optimizer; brightness based on exposure settings (Display simulation); High ISO noise reduction; Highlight Tone Priority; and HDR (PQ) |
| **HDR / Canon Log view assist** | Makes video output to screen or viewfinder, or via HDMI, easier to view when [HDR shooting (PQ)] is active, or when the following are set in Custom Picture: Canon Log 2; Canon Log 3; PQ; HLG<br>**Screen / viewfinder:**<br>• Off<br>• On (BT.709 during CP)<br>*When [HDR shooting (PQ)] is active, images converted to resemble how they would look on an HDR support display device. When Custom Picture is applied, images simply converted to standard gamma and color space are displayed.*<br>• On (HDR Assist during CP)<br>*When [HDR shooting (PQ)] is active, images converted to resemble how they would look on an HDR support display device. When Custom Picture is applied, images converted to resemble how subjects of intermediate brightness would look on an HDR support display device.*<br>**HDMI:**<br>• On / Off<br>When set to ON, operation is same as [Screen/Viewfinder: On (BT.709 during CP)] |
| **Depth-of-field preview** | Available<br>• via Depth-of-field preview button (or customized button, set for DOF preview)<br>• When [Display simulation: Exposure + DOF] is set |
| **Electronic level display** | Available (horizontal and vertical) |
| **Magnified view** | **Still-image shooting / during movie recording standby:**<br>Magnification: 5x / 10x<br>• Available for all AF Area settings<br>• Magnified view can be cancelled in Servo AF or AI Focus AF by pressing shutter button half-way<br>**Magnified recording display — during movie recording**<br>On / Off (LCD screen / viewfinder)<br>Magnification 2x / 5x / 10x<br>• Even if magnified view is used during recording, video will not be recorded in magnified state<br>• Cannot be used with time-lapse movies; digital zoom; or live streaming at higher frame rate than 60 FPS for 4K DCI / UHD<br>• During HDMI output, magnified view is only shown on camera screen or viewfinder. (Devices connected via HDMI do not display the magnified view.)<br>• 5x and 10x magnification not available when Open Gate MP4 is set |
| **Image review (auto, after last image taken)** | Off / 2 sec. / 4 sec. / 8 sec. / Hold |
| **LCD screen information displays** ***(press INFO button to toggle through different screen displays)*** | 1 — Live view + Basic shooting info + on-screen Buttons<br>2 — Live view + Basic shooting info + Detailed shoot info + on-screen buttons<br>3 — Live View + Basic shoot info + Detailed shoot info + on-screen buttons + Histogram (or Waveform Monitor) + Electronic level display<br>4 — Live View (no additional screen info)<br>5 — Camera setting display (no Live View image) |

| | |
|---|---|
| **Viewfinder screen information displays** ***(press INFO button to toggle through various displays, while looking thru EVF)*** | 1 — Live View + Basic shooting info<br>2 — Live View + Basic shoot info + Detailed info display<br>3 — Live View + Basic shoot info + Detailed info display + Histogram / Waveform Monitor + Electronic level display |
| **Shooting information display: still-image shooting** | Viewfinder vertical display (finder info moves as camera is rotated): On / Off<br>Grid display: Off / 3x3 / 6x4 /3x3 + diagonal<br>Histogram (press INFO button to display):<br>• Brightness / RGB (selectable in red Shooting menu under [Shooting info. display]<br>• Histogram display size: Large / small<br>Card free space (%) display: Off / On<br>Lens information display:<br>• Focus distance display[1] — in MF mode / When focusing / Always / Disable (unit — meters / feet)<br>• Focal length display — Enable / Disable<br>• SA variable amount[2]<br>*1: Requires a lens supporting display of lens information*<br>*2: Can be set with RF100mm F2.8 L MACRO IS USM lens (SA stands for Spherical Aberration)* |
| **Shooting information display: movie recording** | Grid display: Off / 3x3 / 6x4 / 3x3 + diagonal<br>Brightness info:<br>• Histogram (brightness or RGB display; Display size: Large / Small<br>• Waveform monitor: Type (Line / RGB)<br>• Zebra display<br>• False color display<br>• Electronic level size: Large / Small<br>Recording emphasis (red outline surrounding image on screen and viewfinder): On / Off<br>Aspect marker (Marker 1 / Marker 2):<br>Off / 1:1 / 4:5 / 5:4 / 9:16 / 4:3 / 13:9 / 14:9 / 16:9 / 1.375:1 / 1.66:1 / 1.75:1 / 1.85:1 / 1.90:1 / 2.35:1 / 2.39:1<br>Lens information display:<br>• Focus distance display[1] — In MF mode / When focusing / Always / Disable<br>• Focal length display — Enable / Disable<br>• SA variable amount[2] — Enable / Disable<br>*1: Can be displayed when the attached lens supports display of lens information*<br>*2: Can be set when using RF100mm F2.8 L MACRO IS USM lens (SA stands for Spherical Aberration)* |
| **Rotate movie shooting info display** | None |

| | |
|---|---|
| **Zebra display (video only)** | Striped pattern over areas of a user-defined brightness level, on the live view image (EVF or screen)<br>Zebra Settings: On / Off (in red Shooting Menu — Zebra settings)<br>Two Zebra brightness levels: Zebra 1 level / Zebra 2 level<br>Available display patterns: Zebra 1 / Zebra 2 / Zebra 1+2<br>• Zebra 1 level: user-adjustable 5%~95%, in 5% increments (left-leaning diagonal zebra lines)<br>• Zebra 2 level: user-adjustable 50%~100%, in 5% increments (right-leaning diagonal zebra lines)<br>*Cannot be used in Basic Zone shooting modes, or time-lapse movies*<br>*Cannot be combined with False Color or MF peaking*<br>*During HDMI output, zebra pattern only visible on camera screeen (HDMI-connected devices will not display camera-generated zebra patterns)* |
| **False color** | Provides visual indication of current image exposure levels — specific colors applied to specific brightness levels in scene, at current camera exposure settings<br>**Red** — white clipping (clipped highlights)<br>**Yellow** — just below white clipping<br>**Pink** — one stop over 18% gray<br>**Green** — 18% gray<br>**Blue** — Just above black clipping<br>**Purple** — black clipping (loss of detail in shadows)<br>**Neutral color** — brightness other than above<br>• Cannot be used in Basic Zone exposure modes, or for time-lapse movies<br>• Cannot be used with camera's color filter feature<br>• Cannot be used with Auto Lighting Optimizer; Zebra display; MF peaking; or still-image/video HDR/C-Log View Assist (screen or viewfinder)<br>• HDMI displays: False color only displayed on camera, except when set to [Display only (icon)] |
| **HDMI output** | |
| **HDMI terminal type** | HDMI terminal (Type A) ("full-size" HDMI terminal)<br>• Resolution switches automatically<br>• HDMI CEC (Consumer Electronics Control) not supported<br>• Images not displayed on external device, unless [NTSC] or [PAL] is correctly set for the TV video system |

**HDMI output settings and description**

| | |
|---|---|
| **HDR specification** | Rec. ITU-R BT.2100 |
| **HDMI resolution** | Auto / 1080p / 1080i |
| **HDMI output for movie footage** | Supported<br>*(HDMI output information display)* |
| **Bit depth** | 10 bits |
| **Color sampling method** | Uncompressed YCbCr 4:2:2 |
| **Color space** | BT.709 / BT.2020 |
| **Audio output** | LPCM 48 kHz / 16 bit / 2CH<br>*(output channels can be set in Audio monitor)* |

*Output format set on camera is displayed on HDMI-connected device*

- Content that can be displayed varies, depending on specifications of connected monitor. Thus, display matching of camera settings may not be supported.
- HDR icon is shown when camera is connected via HDMI

### HDMI resolution

| | Item | Output resolution | NTSC | PAL |
|---|---|---|---|---|
| **4K (DCI / UHD) movie recording**<br>**4K (DCI / UHD) movie playing**<br>**Still photo playback** | **Auto** | **4K DCI** | 59.94p / 29.97p / 24.00p / 23.98p | 50.00p / 25.00p / 24.00p |
| | | **4K UHD** | 59.94p / 29.97p / 23.98p | 50.00p / 25.00p |
| | | **1080** | 59.94p / 60.00i / 59.94i | 50.00p / 60.00i / 50.00i |
| | | **480** | 59.94p | |
| | | **576** | | 50.00p |
| | **1080p** | **1080** | 59.94p / 24.00p | 50.00p / 24.00p |
| | | **480** | | |
| | | **576** | | |
| | **1080i** | **1080** | 60.00i / 59.94i | 60.00i / 50.00i |
| | | **480** | | |
| | | **576** | | |
| **2K / Full HD movie recording**<br>**2K / Full HD movie playing**<br>**Live View display in still photos** | **Auto** | **1080** | 59.94p / 60.00i / 59.94i | 50.00p / 60.00i / 50.00i |
| | | **480** | 59.94p | |
| | | **576** | | 50.00p |
| | **1080p** | **1080** | 59.94p / 24.00p | 50.00p / 24.00p |
| | | **480** | | |
| | | **576** | | |
| | **1080i** | **1080** | 60.00i / 59.94i | 60.00i / 50.00i |
| | | **480** | | |
| | | **576** | | |

*Output resolution and frame rate of HDMI output depend on specifications of connected monitor display*

### Display during HDMI connection

| Display during HDMI connection | Camera status | Display details | |
|---|---|---|---|
| | | Camera screen | Device connected via HDMI |
| **Camera + external monitor** ***(camera playback/menu display — camera's LCD screen)*** | **Live View image** | Yes | Yes (no information) |
| | **Image playback / Menu** | Yes | - - - |
| **Camera + external monitor** ***(playback/menu display — external monitor screen)*** | **Live view image** | Yes | Yes (no information) |
| | **Image playback / Menu** | Off | Yes |
| **External monitor only** | **- - -** | Off | Yes |

*If HDMI-connected device does not support camera output format, images are displayed at lower resolution.*
*Display may not be possible, depending on device specifications.*

| | |
|---|---|
| **HDR output via HDMI** | Available<br>• Although HDMI HDR output is possible, there is no selection of HDMI HDR output (On / Off) — there is no [HDMI HDR output] Menu item |
| **HDMI RAW output** | Supported |
| **HDMI output range for Canon Log** | When Canon Log 2 / Canon Log 3 is set, output range of video signal can be set for when HDMI output is performed<br>• Prioritize Full Range / Narrow Range |

## Shooting modes (stills and video)

| | |
|---|---|
| **A+ (mode dial)** | Scene Intelligent Auto<br>• Video: Scene Intelligent Auto movies |
| **SCN[1] (mode dial)** | **Still images:**<br>Portrait; Smooth skin; Group photo; Landscape; Panoramic shot[2]; Sports; Kids; Panning[3]; Close-up; Food[4]; Handheld Night Scene[5]; HDR Backlight Control; Silent shutter[6]<br>*1: [Brightness] can be set in all SCN modes (except in HDR Backlight Control mode)*<br>*2: Panoramic shot mode: Users can set preferred direction to move camera (right / left / up / down). Automatically set to [Large / Fine] and [Low-speed continuous] Drive mode. The following cannot be set: [Cropping / aspect ratio]; and [Color mode]. All RF and EF lenses can be used, but some lenses can also improve panning stabilization during panning. List of compatible lenses available at cam.start.canon web site* ***(camera > supplemental information)****.*<br>*3: [Effect: Min / Med / Max] can be set.*<br>*Compatible lenses list available at cam.start.canon web site.*<br>***(camera > supplemental information)***<br>*4: [Color tone: Cool tone – Warm tone (five levels)] can be set*<br>*5: Flash photography not available*<br>*6: Camera may make operational sounds, such as autofocusing, aperture adjustment, and image stabilization. Flash photography not available.*<br>*7: Separate settings for still-image shooting and video recording can be registered to each Custom shooting mode (C1~C3)*<br>**Movie recording:**<br>Smooth skin movie; Movie for close-up demos; Movie IS mode; HDR movies |

| | Still images | Video |
|---|---|---|
| **FV (mode dial)** | Flexible-prioritiy AE | Movie auto exposure |
| **P (mode dial)** | Program AE | Movie auto exposure |
| **Tv (mode dial)** | Shutter-priority AE | Movie shutter-priority Auto |

| | | |
|---|---|---|
| **Av (mode dial)** | Aperture-priority AE | Movie aperture-priority Auto |
| **M (mode dial)** | Manual exposure | Movie manual exposure |
| **B (mode dial)** | Bulb exposure | Movie auto exposure |
| **S&F (mode dial)** | Program AE | S&F movie auto exposure<br>S&F movie shutter-priority Auto<br>S&F movie aperture-priority Auto<br>S&F movie manual exposure |
| **C1 / C2 / C3[7]** | Custom shooting mode<br>*(separate 3 customized sets for stills)* | Custom shooting mode<br>*(separate 3 customized sets for video)* |

## Exposure control

| | |
|---|---|
| **Metering modes:**<br>**Still images** | Evaluative metering<br>Partial metering<br>*(approx. 6.2%[1] measured, at center of screen — Partial circle appears on EVF & screen)*<br>Spot metering (multi-spot metering not available)<br>*(approx. 2.9%[1] at center of screen — Spot circle appears on EVF and screen)*<br>Center-weighted average metering<br>*1: When set to full-frame. Values differ when 1.6x crop or Digital tele-converter is active.* |
| **Metering modes:**<br>**Movies** | Evaluative metering<br>*(video — Partial, Spot and Center-weighted metering not available)* |
| **Metering sensor;**<br>**number of metering zones** | CMOS image sensor; 384-zone (24x16) metering<br>*(same applies when set to 1.6x crop)* |
| **Metering brightness range** | Still images — EV -3 ~ 20<br>Movies — EV -1 ~ 20 |
| **Metering timer** | 4 sec. / 8 sec. / 16 sec. / 30 sec. / 1 min. / 10 min. / 30 min. |
| **Exposure beyond range warning** | Blinking shutter-speed and aperture display (EVF and screen) |
| **E-TTL flash metering** | Based on image sensor output signals, with E-TTL compliant flashes |
| **Metered manual flash expossure control** | None |
| **Detect priority AE with AF active** | Yes<br>• Exposure adjustment performed with priority given to detected subject (Tracking Frame), according to [Subject to detect] settings<br>• Disable / Enable<br>• Requires Evaluative metering<br>• When [Disable] is set, exposure is adjusted for entire image area, based on Evaluative metering results |
| **User-set range of shutter speeds — still-image shooting** | **Mechanical / 1st-curtain Electronic:**<br>• Lowest speed: 1/4000 ~ 30 sec. (available range adjustable in 1-stop increments)<br>• Highest speed: 1/8000 ~ 15 sec. (available range adjustable in 1-stop increments)<br>**Electronic shutter:**<br>• Lowest speed: 1/8000 ~ 30 sec. (available range adjustable in 1-stop increments)<br>• Highest speed: 1/16000 ~ 15 sec. (available range adjustable in 1-stop increments) |
| **User-set range of apertures** | Maximum: f/1.0 ~ f/64 (adjustable in 1-stop increments)<br>Minimum: f/1.4 ~ f/91 (adjustable in 1-stop increments) |
| **Same exposure for new aperture (for manual exposure)** | Disable / ISO speed / ISO speed + shutter speed |
| **Video: Aperture set in 1/8 stop increments** | On / Off (requires RF lenses) |

<table>
<tr><td>Lens aperture control — video recording</td><td>Automatically set:<br>Basic Zone (A+, SCN modes); Movie auto exposure (Fv, P, and B modes); Movie shutter-priority (Tv)<br><br>Manually set by user:<br>Movie aperture-priority (Av); Manual exposure mode (M)</td></tr>
<tr><td>Lens iris ring support[1]</td><td>Lens aperture (iris) adjustable when RF lens with Iris Ring is attached to camera<br><table><tr><th>Shooting mode</th><th>Iris ring setting</th><th>Aperture value when shooting</th></tr><tr><td rowspan="2">A+</td><td>Auto</td><td>Camera sets aperture automatically</td></tr><tr><td>Other than Auto</td><td>According to user-set Iris Ring setting</td></tr><tr><td rowspan="2">M / Av<br>(Aperture value — manual setting)</td><td>Auto</td><td>Camera sets aperture automatically</td></tr><tr><td>Other than Auto</td><td>According to user-set Iris Ring setting</td></tr><tr><td rowspan="2">Tv / P<br>(Aperture value — automatically set)</td><td>Auto</td><td>Camera sets aperture automatically</td></tr><tr><td>Other than Auto</td><td>According to user-set Iris Ring setting</td></tr></table><br>1: Applies to both video and still-image shooting</td></tr>
</table>

| | |
|---|---|
| **Anti-flicker shooting** | Applies to illumination flicker at frequencies of 100 Hz or 120 Hz — *adjusts shutter timing to maximize exposure during brightest detected cycle of flickering illumination*<br>Disable / Enable<br>• Not available with Electronic Shutter<br>• Regardless of [Disable / Enable] setting, continuous FPS shooting speed may decrease when flicker is detected<br>• If [Display frame rate set: Smooth] is active, decrease of FPS shooting speed can be suppressed, but effects of flicker may appear in EVF/screen Live View images (bands or stripes, from brightness differences on-screen), or inconsistencies in exposure or color of captured images may occur)<br>• Flicker can also be deteced manually ***(red Shooting Menu > HF anti-flicker shooting > [On] > Recommend Tv setting)***<br>• Increases shutter-release time lag<br>• Interval between shots in continuous shooting may vary<br>• Color tone may differ from images captured with Anti-flicker shooting set to [Disable]<br>• Changing light scources during continuous shooting may prevent reduction of flicker effects |
| **Flicker auto detection in Live View** | Supported<br>• Flicker detection is performed at specific times (such as camera start-up, or when reactivating the Menu screen/playback screen, etc.)<br>• Detection not available during viewfinder shooting, and when [Display frame rate set.: Smooth] is set |
| **High-frequency anti-flicker shooting** | *Extremely fine adjustments of shutter speed (user-set, or automatically applied) to limit banding and other effects of flickering light sources*<br>• Detection frequency range: 50.0 ~ 2011.2 Hz<br>• Available for still-image and video shooting (requires an exposure mode that allows user-set shutter speeds: M or Tv)<br>Disable / Enable<br>• When enabled — Menu options<br>[Recommend Tv sett.] — (auto detection of flicker in scene illumination)<br>[Manual setting] — user-set exact shutter speed, usually from 1/50.0 sec. to 1/8192.0<br>• Video recording range of user-set shutter speeds, at 179.8 / 150.0 / 119.9 / 100.0 FPS —<br>179.8 FPS: 1/180.0 ~ 1/8192.0 sec.<br>150.0 FPS: 1/150.6 ~ 1/8192.0 sec.<br>119.9 FPS: 1/120.3 ~ 1/8192.0 sec.<br>100.0 FPS: 1/100.0 ~ 1/8192.0 sec.<br>• With S&F recording, range of shutter speeds depends on video FPS setting<br>• When [Recommended Tv sett.] is set, adjustment after auto detection is enabled<br>• With flash, maximum sync speed (mechanical or 1st-curtain electronic shutter) will be 1/181.0 sec. |
| **Combining Anti-flicker shooting and High-frequency anti-flicker shooting** | Possible (both must be user-set to ON in red shooting menu) |

## ISO settings — still images

| | |
|---|---|
| **User-set ISO range** | **Still-image shooting:**<br>Normal ISO speed — ISO 100 ~ 64,000<br>Expanded ISO speeds — L (= ISO 50); H (= ISO 102,400)<br>• When [Highlight Tone Priority] is active, available user-set ISOs are 200~64,000<br>• Expanded ISO speeds not available with Highlight Tone Prioritiy, or when [HDR mode] or [HDR shooting (PQ): HDR PQ] is active |
| **User-set limit ISO range (still-image shooting)** | Available — ISO speed range (red shooting Menu)<br>Minimum: L (ISO 50) or 100 ~ 51,200<br>Maximum: ISO 100 ~ H (= ISO 102,400)<br>• Both minimum and maximum allowable ISO adjustable in 1-stop increments |
| **Auto ISO range** | Minimum and maximum possible ISOs can be set by user (in red Shooting Menu)<br>Minimum: L (=ISO 50) ~ ISO 51,200<br>Maximum: ISO 200 ~ 64,000 ("H" expansion not available for Auto ISO)<br>• Basic Zone (A+ mode) Auto ISO range — ISO 100 ~ 12,800<br>• SCN (Special Scene modes) — varies, depending upon SCN mode |

**Auto ISO details**

| Shooting mode | | Without flash | Using flash | |
|---|---|---|---|---|
| | | | Variable control of maximum Auto ISO limit for E-TTL, with compatible lens[1] | Variable control of maximum Auto ISO limit for E-TTL — non-compatible lens |
| Creative Zone | Fv / P / Tv / Av / M | ISO 100[1] ~ 64,000[2] | ISO 100[1] ~ 6400[2] | ISO 100[1] ~ 1600[2] |
| | B | ISO 400[3] | ISO 400[3] | |
| Basic Zone | A+ | ISO 100 ~ 12,800 | ISO 100 ~ 6400 | ISO 100 ~ 1600 |
| | SCN | Varies, depending on SCN mode | | |

*1: ISO 200 when Highlight Tone Priority is active (Enable or Enhanced)*

*2: Varies depending on the [Maximum] and [Minimum] settings for [Auto ISO range]*

*3: If outside the setting range, changed to ISO value closest to ISO 400*

| | |
|---|---|
| **Variable control of max. ISO — E-TTL flash** | Supported<br>• With E-TTL flash at Auto ISO, exposure is controlled by lowering maximum ISO Auto speeds to reduce over-exposed highlights from flash at close distances<br>*List of lenses not compatible with variable control of max. ISO with E-TTL flash:* ***cam.start.canon > select camera model > Supplemental information*** |
| **Auto ISO minimum shutter speed limit** | User-selectable in P or Av modes<br>• Auto setting: Can be set in a range of ±3 stops, over or under "1/lens focal length"<br>• Manual setting: User selects slowest shutter speed before Auto ISO raises ISO setting (avaliable slowest speed — 1/8000 sec. ~ 1 second, in 1-stop increments) |
| **Customizable ISO speed pre-sets** | Three user-selected ISOs can be registered, for rapid changes in user-set ISO during shooting (full-stop increments)<br>• Default settnigs: ISO 200 / 400 / 800<br>• Available for still-image shooting in all Creative Zone modes (Fv, P, Tv, Av, M); in video recording when in Manual exposure mode only |

## ISO settings — movies

**User-set ISO speeds — Manual exposure mode**

| | Custom Picture | ISO speed |
|---|---|---|
| **Normal ISO speed** | **Off** [1] [2] | ISO 100 ~ 25,600 |
| | **Canon 709 / PQ / HLG** | ISO 400 ~ 25,600 |
| | **Canon Log 2 / Canon Log 3** | ISO 800 ~ 25,000 |
| | **BT.709 Standard** | ISO 160 ~ 25,600 |
| **Expanded ISO speed** | **Off** [3] [4] [5] [6] | H (equivalent to ISO 32,000, 40,000, 51,200, 64,000, 102,400) |
| | **Canon 709 / PQ / HLG** [6] | L (equivalent to ISO 100, 125, 160, 200, 250, or 320)<br>H (equivalent to ISO 32,000, 40,000, 51,200, 64,000, 102,400) |
| | **Canon Log 2 / Canon Log 3** [6] | L (equivalent to ISO 100, 125, 160, 200, 250, 320, 400, 500, or 640)<br>H (equivalent to ISO 32,000, 40,000, 51,200, 64,000, 102,400) |
| | **BT.709 Standard** [6] | L (equivalent to ISO 100 or 125)<br>H (equivalent to ISO 32,000, 40,000, 51,200, 64,000, 102,400) |

*1: Lowest ISO speed starts at ISO 200 when Highlight Tone Priority is active*

*2: ISO speed range is ISO 400 ~ 12,800 when [HDR movie Mode: Enable] is set*

*3: Expanded ISO speeds not available when [HDR shooting (PQ): HDR PQ] is set*

*4: Expanded ISO speeds not available when [HDR Movie Mode: Enable] is set*

*5: Expanded ISO speeds not available when Highlight Tone Priority is active*

*6: Expanded ISO speeds not available in RAW movie recording*

*Maximum ISO speed when set manually corresponds to the [ISO speed range] setting*

**User-adjustable available ISO range**
***[ISO speed range]***

Minimum: ISO 100 ~ 25,600

Maximum: ISO 200 ~ 25,600, H (equivalent to ISO 51,200 / 102,400)

- Adjustable in 1-stop increments

**Auto ISO range — movies**
***(P, Tv, Av, C1~C3, S&F mode, Time-lapse movies, and M mode with Auto ISO set)***

ISO speeds always set to Auto in P, Tv, Av, and during Time-lapse movies

| | Custom Picture | ISO speed |
|---|---|---|
| **Normal ISO speed** | **Off** [1] [2] | ISO 100 ~ 25,600 |
| | **Canon 709 / PQ / HLG** | ISO 400 ~ 25,600 |
| | **Canon Log 2 / Canon Log 3** | ISO 800 ~ 25,600 |
| | **BT.709 Standard** | ISO 160 ~ 25,600 |
| **Expanded ISO speed** | **Off** [3] [4] [5] [6] | Equivalent to ISO 32,000, 40,000, 51,200, 64,000, 102,400[7] |
| | **Canon 709 / PQ / HLG** | |
| | **Canon Log 2 / Canon Log 3**[6] | |
| | **BT.709 Standard**[6] | |

*1: Lower end of ISO range starts at ISO 200 when Highlight Tone Prioritiy is active*

*2: Auto ISO range is ISO 400 ~ 12,800 when [HDR Movie Mode: Enable] is set*

*3: Expanded ISO speeds not available when [HDR PQ] is active*

*4: Expanded ISO speeds not available in HDR Movie mode*

*5: Expanded ISO speeds not available when Highlight Tone Priority is active*

*6: Expanded ISO speeds not available during RAW movie recording*

*7: Maximum ISO speed (during Auto ISO operation) corresponds to [Max for Auto] ISO setting*

**Max for Auto ISO**
***[Max for Auto]***

ISO 6400 / 12,800 / 25,600 / H (equivalent to ISO 51,200 / 102,400)

**Max Auto ISO (Time-lapse movies)**

ISO 400 / 800 / 1600 / 3200 / 6400 / 12,800 / 25,600

<table>
<tr><td>Customizable ISO speed pre-sets (video)</td><td>Three user-applied preferred ISO settings can be registered (Manual [M] mode only)<br>• ISOs settable in 1-stop increments, for registering in ISO menu<br>• Set to ISO 200 / 400 / 800 at factory-default settings</td></tr>
<tr><td>Lmiit available ISO speed settings</td><td>Yes, via ISO speed range (red Shooting Menu)</td></tr>
<tr><td colspan="2">Exposure compensation / AEB</td></tr>
<tr><td>Exposure compensaton</td><td>±1/3 ~ 3 stops; 1/3- or 1/2-stop increments<br>• Available in Fv / P / Tv / Av shooting modes; not available in M (manual) mode</td></tr>
<tr><td>Auto Exposure Bracketing (AEB)</td><td>±1/3 ~ 3 stops; 1/3 or 1/2-stop increments<br>• Accessed via red Shooting Menu — Expo.comp/AEB; turn Main Dial to set<br>• Available in all Creative Zone shooting modes, including Manual exposure<br>(Manual exposure mode — adjusted variable is shutter speed (ISO, in Auto ISO)<br>• Not available during movie recording</td></tr>
<tr><td>AE Lock</td><td>Automatic AE Lock<br>User-applied AE Lock</td></tr>
<tr><td>AE Lock after focus confirmation</td><td>Can be user-set (orange Custom Function menu — AE lock meter. mode after focus); user check-box for Evaluative, Partial, Spot, and/or Center-weighted metering</td></tr>
<tr><td colspan="2">Shutter (still-image shooting)</td></tr>
<tr><td>Type</td><td>Electronically-controlled focal plane shutter<br>When set to [Electronic shutter]: Rolling shutter, using CMOS image sensor</td></tr>
<tr><td>Shutter modes</td><td>Mechanical shutter (flash possible)<br>Electronic 1st-curtain shutter (flash possible)<br>Electronic shutter (flash will not fire)<br>Selectable in red Shooting Menu — [Shutter mode]</td></tr>
<tr><td>Shutter speed range</td><td>1/8000 ~ 30 seconds, plus B (Bulb; when in B-mode)</td></tr>
<tr><td>Flash sync speed (maximum)</td><td>
<table>
<tr><th></th><th colspan="2">Canon EL- / EX-series Speedlites</th><th rowspan="2">Non-Canon flash[1]</th></tr>
<tr><th></th><th>Full-frame</th><th>1.6x (crop)</th></tr>
<tr><td>Mechanical shutter</td><td>1/200 sec.</td><td>1/250 sec.</td><td>1/200 sec.</td></tr>
<tr><td>Electronic 1st-curtain</td><td>1/250 sec.</td><td>1/320 sec.</td><td>1/250 sec.</td></tr>
</table>
1: Fastest sync speeds cannot be guaranteed with non-Canon flashes, especially larger studio-type units. Photographers are strongly recommended to perform tests at various fast shutter speeds, to see if any limitations and need for slower speeds exist.<br>• Flash photography with Electronic shutter not supported<br>• Above figures for [Sync speed priority: Disable].</td></tr>
<tr><td>Slow synchro</td><td>Allows flash at slower shutter speeds, in P and Av exposure modes<br>• 1/250[1] – 30 sec. auto<br>(shutter speeds will automatically drop for proper ambient exposure, in low-light situations)<br>• 1/250[1] – 1/60 sec. auto<br>(shutter speeds will not drop below 1/60 second in low-light situations; Auto ISO will rise to attempt to compensate)<br>• 1/250[1] (fixed)<br>(shutter speeds fixed at 1/250 second in P/Av modes, if flash ready lamp detected)<br>1: Fastest sync speed will differ, depending on shutter mode, 1.6x cropped shooting, and Sync speed priority settings, as well as flash unit being used.<br>In red Shooting Menu: External Speedlite control > Slow synchro</td></tr>
</table>

<table>
<tr><td>Sync speed priority</td><td>
Enable / Disable<br>
Red shooting Menu > External speedlite control > Sync speed priority
<h3>Full-frame / 1:1 / 4:3 16:9 cropping active</h3>
<table>
<tr><th rowspan="2">Shutter mode</th><th colspan="2">Sync speed priority</th></tr>
<tr><th>Disable</th><th>Enable</th></tr>
<tr><td>Mechanical shutter</td><td>1/200 sec.</td><td></td></tr>
<tr><td>Electronic 1st-curtain</td><td>1/250 sec.</td><td>1/320 sec.</td></tr>
</table>
<h3>When [Cropping aspect ratio: 1.6x (crop)] is active</h3>
<table>
<tr><th rowspan="2">Shutter mode</th><th colspan="2">Sync speed priority</th></tr>
<tr><th>Disable</th><th>Enable</th></tr>
<tr><td>Mechanical shutter</td><td>1/250 sec.</td><td></td></tr>
<tr><td>Electronic 1st-curtain</td><td>1/320 sec.</td><td>1/400 sec.</td></tr>
</table>
Compatible with the following Canon speedlites:<br>
EL-series<br>
EX-series and Macrolites: 600EX II-RT; 600EX II; 470EX-AI; 430EX III; MT-26EX-RT; MR-14EX II
<ul>
<li>Electronic 1st-curtain shutter mode required (will not work with Mechanical shutter)</li>
<li>Flash Guide Number and maximum flash power will decrease, especially at longer distances to subjects</li>
<li>Under-exposure or irregular expsure may occur, depending on shooting environment</li>
<li>Cannot be combined with Focus Bracketing or High Frequency anti-flicker</li>
</ul>
</td></tr>
<tr><td>Shutter durability</td><td>Durability-tested by Canon engineers to 500,000 cycles<br>(in Mechanical shutter mode — still-image shooting)</td></tr>
<tr><td>Silent shutter function</td><td>
Disables all relevant settings at same time, to prevent sound or light from being emitted by camera during shooting<br>
Shutter mode: switched to Electronic shutter<br>
Beep: Enable / Disable<br>
When set to [Enable], beep tones can be heard via connected, compatible headphones (electronic shutter release sounds, focus beeps, warnings, etc.) — sounds will not be emitted by camera itself, even if [Beep: Enable] has been set<br>
Shutter at shutdown:<br>
Open<br>
Long exposure noise reduction:<br>
Disabled<br>
Flash firing:<br>
Disabled<br>
AF-assist beam firing:<br>
Disabled<br>
Self-timer lamp:<br>
Not emitted (self-timer remains available, without beep tone or lamp)
</td></tr>
<tr><td>Shutter release time lag / shooting time lag</td><td>
Mechanical shutter: approx. 82ms<br>
Electrnic 1st-curtain shutter / Electronic shutter: approx. 50ms
<ul>
<li>With shutter button held at half-depressed position, lag time is measured from when shutter button is fully depressed until shutter activates</li>
</ul>
Based upon Canon standard test methods.<br>Flash not used for these measurements.
</td></tr>
</table>

| | |
|---|---|
| **Shutter when camera turned off (sensor protection)** | Available<br>***Yellow Set-up menu > Shutter at shutdown > Closed / Open*** |
| **Shutter (movie recording)** | |
| **Type** | Rolling shutter, using CMOS image sensor (mechanical shutter not used) |
| **Shutter speed range (all movie exposure modes, except M)** | 1/8000 sec. ~ slowest available speed (based on FPS settings):<br>179.8 FPS — 1/200 sec.<br>150.0 FPS — 1/160 sec.<br>119.9 FPS — 1/125 sec.<br>100.0 FPS — 1/100 sec.<br>59.94 FPS — 1/60 sec.[1]<br>50.00 FPS — 1/50 sec.[2]<br>29.97 FPS — 1/30 sec.<br>25.00 / 24.00 / 23.98 FPS — 1/25 sec.<br>*1: Movie auto exposure modes, with Movie auto slow shutter active — 1/30 sec.*<br>*2: Movie auto exposure modes, with Movie auto slow shutter active — 1/25 sec.* |
| **Shutter speed range — M mode (at all FPS recording speeds)** | 1/8000 sec ~ 1/8 sec. (Movie auto slow shutter not available in M mode) |
| **Shutter speed range — S&F movies** | 1/8000 ~ 1 sec. (depends on shooting mode and video FPS rates) |
| **Time lag before movie recording (approx.)** | Approx. 0.4 sec. |
| **Shutter button function for movies** | Settable in green Customized controls when shooting Menu<br>**Half-press:**<br>Metering + Movie Servo AF (default setting)<br>Metering + One-shot AF<br>Metering only<br>**Full press:**<br>No function (default setting)<br>Start/stop movie recording |
| **Shutter at camera shut-down** | Closed / Open<br>• User-selectable in yellow Set-up Menu [Shutter at shutdown] |
| **Multiple-exposure shooting** | |
| **Image quality (finished image)** | JPEG (Large / Fine)<br>• Initial source images can be RAW, C-RAW, JPEG (Large / Fine only), including RAW + JPEG, or C-RAW + JPEG<br>*HEIF images not supported; RAW or C-RAW multiple-exposure images not supported* |
| **Multiple-exposure shooting** | Disable / On: Func/Ctrl / On: ContShtng<br>• On: ContShtng — Menu display, Image review, Playback, and Reshoot not available during shooting<br>• On: ContShtng — Stops automatically after user-set number of shots have been taken during continuous shooting<br>*All lenses can be used in multiple-exposure shooting* |
| **Multiple exposure control** | Additive / Average / Bright / Dark |
| **Number of exposures** | 2 ~ 9<br>General exposure guidelines for exposure compensation (Additive control mode):<br>2 exposures — ⁻1 stop; 3 exposures — ⁻1.5 stops; 4 exposures — ⁻2 stops |
| **Saving source images** | Available when [On: Func/Contrl] is selected<br>All images / Result only |

| | |
|---|---|
| **Continue new multi-exposures** | Keeps camera in multiple-exposure mode, so subsequent finished multi-exposures can be taken<br>1 shot only / Continuously |
| **Multple exposures with existing image** | Possible (images must be taken with this camera model)<br>• JPEG Large/Fine or Large/Normal images can be used for new multi-exposure<br>• RAW; C-RAW; HEIF; or JPEG M, S1, S2 images cannot be selected; images taken at settings other than [Full-frame] or [1.6x (crop)] cannot be selected |
| **Image review during multiple exposure shooting** | Merged image review possible during multi-exposure shooting, when set to [On: Func/Ctrl] |
| **Display of remaining multple exposures** | Shown in viewfinder, and on LCD screen when full info is displayed |
| **HDR shooting (stills and movies)** | |
| **HDR PQ shooting** | Disable / HDR PQ<br>• Available in red Shooting Menu, for still-images and video |
| **Still photo HDR PQ** | 10-bit HEIF images (YCbCr 4:2:2; Rec. ITU-R BT-2100 (PQ) |
| **Movie HDR PQ** | Depends on movie recording format setting<br>*Cannot be used with XF-AVC S YCC 420 8 bit*<br>*Activated in red Shooting Menu — **HDR shooting (PQ)*** |
| **HDR Movie Mode** | HDR movie created from one single exposure, for each video frame. Reduces excessive highlght brightness. Effective even with moving subjects<br>Disable / Enable<br>• Not available for RAW movies; at frame rates higher than 60.00 FPS; HDMI RAW output; when [1-Main / 2-Sub] is set; with Time-lapse recording or live streaming; with Open Gate recording; with Digital Zoom; in Basic Zone settings; during still-image shooting<br>• ISO speeds 400 ~ 12,800; cannot be used with expanded ISO speeds<br>• Cannot be combined with Custom Picture or Color Filter; Auto slow shutter; Clarity; Auto Lighting Optimizer; Highlight Tone Priority, or False Color |
| **Movie HDR mode (SCN mode)** | See SCN (Special Scene) movie modes |
| **HDR mode (still images)** | Off / Moving sub. / Dynamic range<br>**Moving subject:** HDR images created with one original shot; wide gradation possible with minimal motion blur<br>**Dynamic range:** three source images taken, at user-defined bracketed exposures (standard exposure, under- and over-exposure) — Auto; ±1 EV; ±2 EV; ±3 EV<br>• Moving subject setting: Minimum ISO 800; Mechanical shutter not available; High-speed continuous shooting + not available; RAW / C-RAW not available<br>• Picture Style options limited to [Standard] and [Monochrome]; Color filter cannot be set<br>• Can be combined with HDR shooting (HDR PQ), for wider dynamic range — up to approx. 3,000 nits |
| **Composite (finished) HDR image, HDR mode** | JPEG / HEIF<br>• JPEG when original source images are JPEG; RAW (HDR PQ disabled); or RAW + JPEG / C-RAW + JPEG<br>• HEIF when source images are HEIF; RAW (HDR PQ enabled); or RAW + HEIF / C-RAW + HEIF |
| **Limitation of maximum brightness** | Disable / 1000 nits<br>• Requires HDR (PQ) to be active<br>• When disabled, maximum brightness is approx. 3000 nits — 1 nit = 1 cd (candela)/$m^2$ |

| | |
|---|---|
| **Continuous HDR (HDR mode)** | 1 shot only / Continuously<br>*Not available when set to [Moving sub.]* |
| **Auto Image Align (HDR mode)** | Enable / Disable<br>*Not available when set to [Moving sub.]* |
| **Saving source images** | All images / HDR images only |
| **Image Stabilization** | |
| **In-body Image Stabilization (IBIS)** | Provided (works in tandem with optical IS, in lenses so-equipped)<br>On / Off<br>• With IS lenses, activated by IS on-off switch on lens<br>• With IS lenses with no external on/off switch, or non-IS lenses, activated in red Shooting Menu<br>• IBIS and lens optical IS can be combined with Movie Digital IS, or Subject Tracking IS, during movie recording |
| **Coordinated IS (RF / RF-S lenses with IS)** | Combines stabilization from IBIS (camera body IS) and lens optical IS — always active with IS lenses, if IS is enabled (cannot be separated) |
| **IS correction (number of stops)** | Center — 8.5 stops<br>Peripheral — 7.5 stops<br>*CIPA standard (CIPA DC-100-2024), using RF24–105mm F2.8 L IS USM lens, at 105mm, using Electronic shutter:* |
| **Image Stabilization with non-IS lenses (camera set for still images)** | IS mode — On / Off<br>Movie Digital IS — On / Off<br>Still photo IS — Always / Only for shot<br>• Only for shot: stabilization effect only occurs when shutter button fully depressed; no stabilization effect in viewfinder or LCD screen before or between shots |
| **Movie Digital IS (5-axis digital stabilization)** | 5-axis digital Image Stabilization, moving the captured image on CMOS imaging sensor.<br>Off / On / Enhanced (in red Shooting Menu)<br>• 5-axis correction: Yaw / Pitch (angular shake); X / Y (shift shake); Roll<br>• Can be activated or disabled separately from IBIS (when IS mode is set to ON); Movie Digital IS cannot be enabled when IBIS (or Coordinated IS with IS lens) is Off<br>• Coordinated IS (with Movie Digital IS): IBIS + optical IS (in lens, if available) + Movie Digital IS<br>• Some cropping will occur when Movie Digital IS is active |
| **User input of lens focal length** | Available when lens without focal length data transmission is attached; manually input by user for stabilization correction (IBIS and Movie digital IS)<br>• Setting range 1 ~ 1,000mm |

| | |
|---|---|
| **Subject tracking IS (video recording only)** | Subject position is stabilized, using AF tracking info and subject detection info, to stabilize subject at position in the frame, during video recording<br>Subject tracking IS: Off / On (in red Shooting Menu)<br>Subject position: Screen center / Sel. position<br>• Tracking frame appears as double-frame during subject selection; AF Area fixed at Whole-area AF<br>• Cannot be combined with Movie Digital IS; Movie auto level; Open Gate recording; Digital zoom; RAW movies; HDMI RAW movies; Movies at 100.0 FPS or higher; S&F movies; Time-lapse movies; live streaming; or in Basic Zone modes<br>• Not available in Manual focus (menu setting for Subject tracking IS remains available)<br>• All lenses are compatible with Subject tracking IS; operation with cinema lenses is not ensured<br>• Tilt correction is performed when [Subj. track. IS: On] is set |
| **Panoramic shot stabilization support** | Supported — in-body IBIS used for panning stabilization (possible with all lenses) |
| **Panning assist stabilization support** | None |
| **Subject blur guide** | Visual index during panning, displaying marks indicating steady following of moving subject (displayed on LCD screen and in viewfinder)<br>• Available in Special Scene (SCN) – Panning mode only<br>• Activated via on-screen icon in Q (Quick Control) Menu — On / Off<br>• Blur guide position (relative to active AF Area) can be set via Q-button, and on-screen icons: ***Q-button > INFO button / Guide position > (Close / Normal / Far)*** |
| **Electronic Level (viewfinder and LCD screen)** | |
| **Display range** | Horizontal: 360°<br>Vertical: 10° (top / bottom) |
| **Electronic level precision** | Tilt range: ⁻10° ~ +10° — Horizontal: ±1° or less; Vertical — ±3° or less<br>*Electronic level less accurate when camera is tilted more than 10° up or down* |
| **Movie Auto Level** | Uses roll correction from Movie digital IS to automatically correct tilt during movie recording, to keep horizon lines level<br>• Available for horizontal or vertical video recording<br>*Cannot be combined with RAW movies, Time-lapse movies; Movie Digital IS; or Subject tracking IS* |
| **Drive mode (still images)** | |

**Available drive modes, approximate max. FPS speeds**

**Single shooting**

**High speed continuous + [1]**
(Mechanical / 1st-curtain electronic shutter — 12 FPS; Electronic shutter — 40 FPS)

**High speed continuous[1]**
(Mechanical shutter — 6.2 FPS; Electronic 1st curtain shutter — 8.2 FPS; Electronic shutter — 20 FPS)

**Low speed continuous[1]**
(Mechanical / Electronic 1st-curtain shutter — 3.0 FPS; Electronic shutter — 5.0 FPS

- FPS rates for each continuous shoot mode cannot be user-adjusted

*Lenses compatible with maximum High speed continuous+ shooting:*
*– All RF lenses*
*– EF-mount lenses (with mount adapter) —*
***see cam.start.canon > select camera model > supplemental information***

*Continuous shooting speed will decrease if flicker is detected in ambient lighting (regardless of whether [Anti-flicker shoot is enabled or disabled])*

*1: All listed FPS rates require use of fully-charged Canon LP-E6P battery pack, shutter speed 1/1000 or faster (mechanical) or 1/250 or faster (Electronic), RF lens at maximum aperture, at room temperature (73°F / 23°C).*

**Self-timer operation (in Drive modes)**

10-second / 2 second / Continuous

- Continuous self-timer: 10-second delay; 2~9 shots continuously fired after 10-second count-down; User pre-sets 2~9 shots ***(INFO > set # of shots)***

**Drive speeds for Speedlite photography**

| Drive mode | E-TTL settings | Mechanical shutter | Electronic 1st curtain shutter |
|---|---|---|---|
| High-speed continuous + | E-TTL each shot | | |
| | E-TTL fixed at first shot[1] | 12 FPS[2] | 12 FPS[2] |
| | Anti-flicker shtg. | 5.4 FPS | 11 FPS |
| High-speed continuous | E-TTL each shot | 4.8 FPS | 6.6 FPS |
| | E-TTL fixed at first shot[1] | 6.2 FPS | 8.2 FPS |
| | Anti-flicker shtg. | 5.4 FPS | 6.7 FPS |
| Low-speed continuous | E-TTL each shot | 3.0 FPS | 3.0 FPS |
| | E-TTL fixed at first shot[1] | 3.0 FPS | 3.0 FPS |
| | Anti-flicker shtg. | 3.0 FPS | 3.0 FPS |

*1. Ambient exposure AE, flash metering, and WB do not change after first shot*

*2: Available only with EL or EX-series speedlite introduced in 2007 or after is used*

**Pre-continuous shooting**

Records 20 shots (approx. 0.5 sec.) before shutter button is fully depressed

- Disable / Enable (in red Shooting Menu); can be assigned to a Customized button
- Always sets shutter to Electronic Shutter mode, when enabled; Drive mode always set to High-speed continuous + (other Drive modes not available)
- Available after writing to card is completed, after shutter button is returned to either half-press or no user press
- In Servo AF, full press of shutter button can be activated even if sharp focus is not confirmed
- AEB; flash photography; anti-flicker shooting; focus bracketing; multiple exposure; HDR mode; and Digital Lens Optimizer (High) are not available
- Not possible in Basic Zone shooting modes

| | |
|---|---|
| **Timer shooting** | |
| **Bulb timer** | Bulb mode time can be pre-set by user: (Disable / Enable)<br>***Mode dial to "B" > Bulb timer (red Shooting Menu) > INFO button > Set desired time*** (1 sec. ~ 99:59:59 available)<br>*Allows user to pre-set long exposure time; camera will automatically set Bulb exposure as defined in Bulb timer menu setting*<br>• Elapsed Bulb expsoure time displayed in EVF and on LCD screen, regardless of whether Bulb timer is set by user |
| **Interval timer** | Available (red Shooting Menu)<br>• Shooting interval — 1 sec ~ 99:59:59<br>• Number of shots — 1 ~ 9,999, or Unlimited (if Unlimited check-box is checked) |
| **Movie self-timer** | Available (2 sec. / 10 sec. delay) |
| **EVF / LCD display — continuous shooting** | |
| **High-speed display** | Available — switches alternately between each shot and Live View display (EVF or LCD screen); no black-out between frames in EVF or LCD screen<br>• Requires Drive mode at [H] (High-speed Continuous); mechanical or electronic 1st-curtain shutter; shutter speed 1/30th or faster; lens aperture f/11 or faster<br>• Not available in Continuous High-speed + [H+] Drive mode, or with electronic shutter |
| **Display fading / black-out** | Allows smoother display of fast-moving subjects — captured images are faded, and black frames displayed between shots<br>• Occurs automatically, when High-speed Display is disabled (not active), when Drive mode is set to High-speed continuous, or Low-speed continuous<br>• Not availble in High-speed continuous + |
| **Blackout-free display** | None |
| **Flash** | |
| **Built-in flash** | None |
| **Accessory shoe** | Canon EOS multi-function shoe<br>• 21-pin contacts for compatible speedlites, and other accessories<br>• 5-pin (traditional) contacts for Speedlite EL-1, EX-series speedlites, and third-party flashes and accessories<br>*Operation not guaranteed for third-party accessories and flashes, even if marketed as "Canon E-TTL" or similar by other flash makers* |
| **Speedlite compatibility** | EL-series speedlites<br>EX-series speedlites |
| **TTL flash — older Canon speedlites** | ("off-the-film" traditional TTL flash) None<br>*(requires E-TTL compatibility, for TTL auto flash exposure)* |
| **Sync terminal (flash PC socket)** | None |
| **Flash firing** | Enable / Disable<br>(in red Shooting menu — ***External speedlite control > Flash firing***) |
| **E-TTL balance** | Ambience priority / Standard / Flash priority |
| **E-TTL II flash metering** | Evaluative (face priority) / Evaluative / Average |
| **Continuous E-TTL flash control** | E-TTL each shot / E-TTL 1st shot<br>• [E-TTL 1st shot] set in Continuous H+ Drive mode |
| **Maximum flash sync shutter speeds (normal flash shooting)** | Mechanical shutter — 1/200 sec.<br>Electronic 1st-curtain shutter — 1/250 sec.<br>Electronic shutter — none (flash cannot be used) |

<table>
<tr><td>Sync speed priority</td><td>Allows slightly faster maximum flash sync speeds, with Canon EL-series speedlites, and select EX-series speedlites[1]<br>• Available with Electronic 1st-curtain shutter only<br>• When enabled: (full-frame, 1:1, 4:3, or 16:9 aspect ratio) — 1/320 sec. maximum; (at 1.6x crop) — 1/400 sec. maximum<br>• Disabled in Multi (stroboscopic) flash; Auto external flash metering; or Manual external metering modes; not available with Focus Bracketing or high-frequency anti-flicker is active<br>• Flash power (guide number) may decrease when active<br>1: EL-1; EL-5; EL-10; 600EX-II RT; 470EX-AI; 430EX III-RT; MT-26EX-RT; MR-14EX II</td></tr>
<tr><td>Slow synchro</td><td>1/xxx ~ 30 sec. auto<br>1/xxx ~ 1/60 sec. auto<br>1/xxx sec (fixed) (maximum sync speed only, in P or Av modes)</td></tr>
<tr><td>Flash function settings (available with compatible speedlite attached and turned on) — red Shooting menu:<br>External Speedlite control > Flash function settings > Menu chart</td><td>
<table>
<tr><td colspan="2">Flash mode</td><td>E-TTL flash metering<br>Manual flash<br>Multi flash (stroboscopic)<br>Auto external flash metering<br>Manual external flash metering</td></tr>
<tr><td colspan="2">Wireless function</td><td>Off / Radio transmission / Optical trans.</td></tr>
<tr><td colspan="2">Flash zoom</td><td>Auto / Manual</td></tr>
<tr><td colspan="2">Shutter synchronization</td><td>First-curtain sync<br>Second-curtain sync[1]<br>High-speed sync</td></tr>
<tr><td colspan="2">Flash exposure compensation</td><td>±3 stops (1/3 or 1/2-stop increments)</td></tr>
<tr><td colspan="2">Flash exposure bracketing</td><td>±3 stops (1/3 or 1/2-stop increments)</td></tr>
<tr><td colspan="2">Manual flash output</td><td>1/1 (full power) ~ 1/8192 power</td></tr>
<tr><td rowspan="2">Multi flash (stroboscopic)</td><td>Flash count</td><td>1 ~ 100 times</td></tr>
<tr><td>Flash frequency</td><td>1 ~ 500 Hz</td></tr>
</table>
Available settings and options vary, depending on specs of attached speedlite<br>1: Setting changes to first-curtain sync at shutter spees faster than 1/30 sec.</td></tr>
<tr><td>Flash Custom Function settings (on camera’s Menu)</td><td>Available (functions and number of options depend on attached speedlite)</td></tr>
<tr><td>Clearing settings</td><td>Clear flash settings / Clear all Speedlite C.Fn’s</td></tr>
<tr><td>Speedlite Menu direct button</td><td>Via speedlite menu button / control on speedlites so-equipped<br>• Speedlite EL-5 / EL-10 / ST-E10 displays [Flash function settings] menu on camera LCD screen, when Speedlite menu button pressed<br>• Attached Speedlite in Group Mode, and set for Wireless — Radio transmission: Flash Menu button (on compatible EL-series speedlite, or Speedlite Transmitter) displays Quick flash group control Menu<br>• Other buttons on R6 Mark III camera can be Customized to display Flash function settings, or Quick flash group control Menu<br>Via Customized camera button (set for Flash functions settings, Customize buttons menu)</td></tr>
</table>

| | |
|---|---|
| **Quick flash group control** ***(via Customized button, assigned to [Quick flash group control])*** | Compatible with following Speedlites and Speedlite Transmitters, used as Sender units: EL-1; EL-5; EL-10; 600EX-II RT; 600EX-RT; 430EX III-RT; MT-26EX-RT; ST-E10; ST-E3- RT (ver. 3); ST-E3-RT (ver. 2); ST-E3-RT |

## Playback — still images and movies

### Playback

| Item | Still images | Movies |
|---|---|---|
| **Compatible playback image files** | JPEG / HEIF / RAW (or C-RAW) | MP4 or RAW movies[1] |
| **Image review** | Image review: Off / 2 sec. / 4 sec. / 8 sec. / Hold<br>Viewfinder review: Disable / Enable | |
| **Single-image display** | Yes[2] | Yes |
| **View from last image reviewed** | Yes | Yes |
| **Shooting information display** | No information displayed / Basic shooting information / Detailed shooting information | |
| **Index display** | 4 / 9 / 36 / 100-image index | |
| **AF point display** | Yes | |
| **Highlight alert** | Over-exposed highlight areas in image blink, during single-image display | |
| **Histogram** | Brightness / RGB (displayed via INFO button, during playback) | |
| **Playback grid lines** | Off / 3x3 / 6x4 / 3x3 + diagonal | |
| **Movie play count** | | Rec. time / Time code |
| **Magnified view** | 1.5x ~ 10x (15 levels) | |
| **Magnification** | **Magnification (approx.):** 2x / 4x / 8x / 10x / Actual size / Same as last<br>**Magnified position:** From center / From focus point<br>**Maintain position:** Enable / Disable | |
| **Rotate image** | **Rotate stills** (manually: 90° > 270° > 0°)<br>**Auto rotate:** On (display + computer) / On (computer only) / Off | Change movie rotation information |
| **Set image search conditions[3]** ***Blue Playback Menu: Set image search conditions*** | Search conditions: Rating / Date / Folder / Protection / Type of file (1) / Type of file (2) | |
| **Rating[4]** | Off / (star ratings) 1 ~ 5<br>Select images / Select range / All images on folder / All images on card / All found images | |
| **Protect images** | Select images / Select range / All images in folder / Unprotect all images in folder / All images on card / Unprotect all images on card / All found images / Unprotect all found images | |
| **Erase images [5] [6]** | Select and erase images / Select range / All images in folder / All images on card / All found images | |
| **Image copy (to card in-camera)** | Select images / Select range / Select folder / All images | |
| **Slide show** | **Display time:** 1 / 2 / 3 / 5 / 10 / 20 seconds; **Repeat:** Enable / Disable | |

| | |
|---|---|
| **Playback notes (above)** | *1: Movie files recorded with other camera models may not be played back, even if file extensions are same as used by this camera*<br>*2: Switching between single-image display / magnified view possible by pressing center of Multi-controller*<br>*3: Video files in XFVC folder or in CRM folder are searchable (files in DCIM folder are not searchable)*<br>*4: [Protect when setting rating] can be set (in blue Playback menu)*<br>*5: Pressing ERASE button during playback of a continuous sequence of images can erase all images (in a continuous scene) at once*<br>*6: RAW + JPEG (or HEIF) image playback: pressing ERASE button during playback — option to erase RAW images, or other than RAW images* |
| **Blur / out-of-focus image detection** | None |
| **Movie playback** | **Playback:**<br>Skip backward (approx. 1 sec.)[1]<br>Previous frame[2]<br>Playback<br>Next frame[2]<br>Skip forward (approx. 1 sec.)[1]<br>Select playback position using touch control<br>**Volume:**<br>Off (0), plus [1] ~ [15] levels<br>Volume of built-in speaker or headphones is adjustable<br>When HDMI connected to external device:<br>volume adjusted on the connected device's screen<br>*1: Can be pressed and held to skip backward or forward by up to approx. 60 sec.*<br>*2: Can be pressed and held for rewinding / fast forward* |
| **VR preview** | None |
| **Image processing after shooting — still images** | |
| **RAW image processing (in-camera)** | Available (select images / select range of images)<br>Dual Pixel RAW processing (in-camera) not available;<br>computer processing with Canon Digital Photo Professional (DPP) software required |
| **RAW image processing settings** | Process to JPEG / Process to HEIF<br>Available in-camera RAW processing settings:<br>White Balance (including AWB Ambience / White Priority)<br>PIcture Style<br>Clarity (not available for processing to HEIF)<br>Auto Lighting Optimizer (also available if Highlight Tone Priority is active)<br>High ISO speed Noise Reduction<br>Image quality<br>Color space (for HEIF processing, fixed at HDR PQ)<br>Lens aberration correction[1]<br>*1: Peripheral Illumination correction; Distortion correction; Digital Lens Optimizer; Chromatic aberration correction; and Diffraction correction available* |
| **Cloud RAW image processing** | None |
| **RAW image processing — RAW burst files** | None (no RAW burst mode) |
| **HEIF to JPEG conversion** | Select images / Select range |
| **Cropping** | Available:<br>• Cropping frame: Magnify / reduce; Move<br>• Tilt correction (±10°, in 0.1° increments using a dial, or 0.5° increments using touch)<br>• Aspect ratio: 3:2; 16:9; 4:3; 1:1; 2:3; 9:16; or 3:4 |

| | |
|---|---|
| **JPEG / HEIF image resizing** | Available for JPEG / HEIF images (M, S1, or S2 can be selected) |
| **Playback creative filters** | None |
| **Creative assist** | Available, from RAW or C-RAW images<br>• Preset: Auto1 / Auto2 / Auto3 / Vivid / Soft / Warm / Cool / Green / Shine / Lime / Peach / B&W / Blue / Purple / Normal<br>• 3 effects can be registered for future use (Auto1 / Auto2 / Auto3)<br>Image creation effects (in-camera):<br>Brightness; Contrast; Saturation; Blue–Amber Color Tone 1; Magenta–Green Color Tone 2; Monochrome (includes B&W; Sepia; Blue; Purple; and Green toning) |
| **Red-eye correction** | None |
| **In-camera upscaling** | None |
| **In-camera processing — movies** | |
| **Movie editing** | Movies shot with an EOS R6 Mark III can be edited in-camera:<br>• Cut beginning / Cut end / Play / Save<br>([Save compressed version] and [Overwrite] are not available) |
| **Frame grab** | Individual frames from 4K video files can be saved as still images (JPEG or HEIF)<br>From 4K DCI — Approx. 8.8MP (4096 x 2160)<br>From 4K UHD — Approx. 8.3MP (3840 x 2160)<br>• JPEG still images from normal movies, and HEIF images from HDR (PQ) movies<br>• Not available from RAW or Open Gate movies, or from movies with [Custom Picture] active |
| **Audio features** | |
| **Voice memos** | None |
| **Beep** | Enable / Disable |
| **Volume** | Shutter volume — 0 (silent) ~ 5<br>Focused beep — 0 (silent) ~ 5<br>Touch sounds — 0 (silent) ~ 5<br>Self-timer volume — 0 (silent) ~ 5<br>Beep per Time-lapse video frame taken — 0 (silent) ~ 5<br>• If [Beep: Disable] is set, volume cannot be adjusted (all will be silent)<br>• Shutter volume applies only during Electronic shutter operation.<br>(Beep is available when [Always play aat release] is active, in all Shutter modes<br>• No beeps during movie recording, when subjects are in focus<br>• [Silent shutter function: On] — Shutter volume and [Focused beep] can be configured; audio is played through headphones only |
| **Speakiers** | Built-in monaural speaker — playback volume 0 (silent) ~ 15 |
| **Headphones** | Volume adjustable: 0 (silent) ~ 15 |
| **Optical zoom operation** | |
| **Zoom lever (on camera)** | None |
| **Supported lenses**<br>***(Power Zoom lenses, or with optional Power Zoom adapater attached to lens)*** | Power zooming possible with RF / RF-S Power Zoom lenses, or with compatible RF lens when optional Canon Power Zoom Adapter is attached<br>• Optical zoom speed adjustable:<br>***green Customized controls when shooting Menu > Lens optical zoom speed > Standby (Fast / Slow) > Speed level (range 1 [slight zoom ring rotation] / range 2 (full zoom ring rotation]***<br>• Applies to still and video shooting, and when using Power Zoom Adapter |
| **Quick Control function (stills and movies)** | |

| | |
|---|---|
| **Description** | On-screen touch buttons for major setting adjustments, by pressing [Q] button or tapping [Q] icon on LCD screen |
| **Quick Control screen display** | [Q] 1 / [Q] 2 for Quick Control screen can be set for movie recording |
| **Feature guide** | Enable / Disable<br>Displays a brief description of functions and setting items on Quick Control screen |
| **Quick Control customization** | Available — customize items shown on Quick Control Screen (up to 11 items possible)<br>Edit layout / Reset settings / Clear all items<br>• Separate Quick Control screens for still shooting and video possible<br>• Can also be accessed by pressing and holding [Q] button, while Quick Control screen is displayed |
| **Menu functions** | |
| **Menus displayed** | Shooting / AF / Playback / Communication functions / Function settings / Customize controls / Custom Functions / My Menu<br>• Scroll through main Menu categories by turning Quick Control Dial 2 (top of camera) or by pressing [Q] button when Menu is displayed |
| **Display languages** | 29 languages available (user-selectable, in yellow Set-up Menu) |
| **Help** | Available (for select Menu items; press INFO button when Menu provides prompts) |
| **Firmware updates** | |
| **Firmware updates possible using camera** | Available (downgrading to an earlier firmware version not possible), for the following<br>• Camera firmware; Lens firmware; Mount adapter firmware; Power Zoom Adapter firmware; External Speedlite firmware; Bluetooth remote control firmware; Battery Grip firmware; Firmware for accessories connected to Multi-function shoe |
| **Relevant applications** | • Via CFexpress or SD card, with firmware file copied onto card<br>• Via Canon Camera Connect app or EOS Utility software (Mac™ / Windows™) |
| **Manual / software URL** | QR code available on LCD screen, for access to manual / software website<br>***(yellow Set-up Menu > Manual / software URL)*** |
| **Print order (DPOF)** | |
| **System; DPOF compatibility** | DPOF Version 1.1 (PictBrige not available) |
| **Specifying images** | Select images — available<br>*(RAW, C-RAW, HEIF images, and moves cannot be selected)*<br>Select multiple — Select range / Mark all in folder / Mark all on card / Mark all found images (only during image search) |
| **Print type** | Standard / Index[1] / Both<br>*1: Index: date and file number cannot both be set to ON simultaneously* |
| **Date** | On / Off |
| **File number** | On / Off |
| **Photobook set-up** | None |
| **Direct image transfer (via USB, with Canon EOS Utility software)** | |
| **Compatible computers** | Macintosh™ or Windows™ computers with camera-compatible version of Canon EOS Utility software installed |
| **Image selection / transfer** | Select image / Select range / Select source folders (all images in folder) / All images (all images on card) / All found images (only during image search) |
| **Transferrable images** | JPEG / HEIF / RAW / C-RAW; and movies |
| **Set up direct transfer** | RAW + JPEG transfer — JPEG only / RAW only / RAW+JPEG<br>RAW + HEIF transfer — HEIF only / RAW only / RAW+HEIF |
| **Maximum number of transfer images** | 9,999 or more (maximum 9,999 can be displayed) |

| Customization: Custom Functions (orange Custom Functions menu) | |
|---|---|
| **C.Fn 1: Exposure** | Exposure level increments *(1/3 stop / 1/2 stop)*<br>ISO speed setting increments (*1/3 stop / 1/2 stop)*<br>Speed from metering / ISO Auto<br>(*Restore Auto after metering / Retain speed after metering)*<br>Bracketing auto cancel<br>Bracketing sequence<br>Number of bracketed shots *(3; 2; 5; 7)* |
| **C.Fn 2: Exposure** | Safety shift[1] *(disable / Shutter speed + Aperture / ISO speed)*<br>Same exposure for new aperture[1]<br>*(disable / ISO speed / ISO + shutter speed / Shutter speed)*<br>AE lock metering after focus[1] *(user selects metering modes by checking check-box)*<br>Set shutter speed range<br>*(separate inputs for Mechanical / Electronic 1st-curtain shutter[1], & Electronic shutter)*<br>Set aperture range<br>*1: Not available for video operation* |
| **C.Fn 3: Various settings / Reset** | Add cropping information<br>*(6:6 / 3:4 / 4:5 / 6:7 / 10:12 / 5:7 — available for still images only)*<br>Default Erase operation<br>*([Cancel] selected / [Erase] selected / [Erase RAW] selected / [Erase non-RAW] selected)*<br>Shutter release without lens *(Disable / Enable)*<br>Retract lens on power off *(Enable / Disable)*<br>Add IPTC information *(Disable / Enable)* |
| **My Menu (green Menu section, with star icon)** | |
| **My Menu function** | Copy user-selected items from any other Menu screen, and add them to My Menu for rapid access from one Menu location<br>• Up to six items can be added to each My Menu screen<br>• Up to five My Menu tabbed screens can be added (up to 30 Menu items) |
| **Customized controls** | |
| **Custom shooting mode (C1–C3)** | Available<br>(user can register current camera settings to C1, C2, or C3 shooting modes, for immediate recall)<br>• Auto update can be Enabled or Disabled<br>• Separate C1 ~ C3 settings can be saved for still-image and video use |
| **Customized controls when shooting** | Separate customization of buttons, and for dials / rings, available for stills and movies |
| **Customize buttons — Power Zoom Adapter PZ-E2 / PZ-E2B** | Available (requires customizing two compatible buttons — one for [Zoom tele], and one for [Zoom wide]) |
| **Register focus preset on-camera** | Available (requires customizing two compatible buttons — one for [Register focus preset], and one for [Playback focus preset]) |
| **Customizable buttons for playback** | Available (green Customize buttons when shooting Menu — ***Customize buttons for playback)*** |
| **Multi-function lock** | Available (green Customize buttons when shooting Menu) |
| **Customize displays** | |
| **Customizing info during shooting — LCD screen** | Available for the following views:<br>• View 1: Live View + Basic shooting info + On-screen buttons<br>View 2: Live View + Basic shoot info + Detailed shoot info + On-screen buttons<br>View 3: LV + Basic shoot info + Detailed shoot info + On-screen buttons + Histogram / Waveform monitor + Electronic level |

| | |
|---|---|
| **Customizing info during shooting — viewfinder** | Available for the following views:<br>• View 2: Live View + Bsic shooting info + Detailed info display<br>View 3: LV + Basic shoot info + Detailed shoot info + Histogram/Waveform monitor + Electronic. level |
| **Customizing playback info — viewfinder and LCD screen** | Press INFO button to toggle through available displays |
| **Save settings / Reset camera** | |
| **Save / load settings on card** | Save to card / Load from card (yellow Set-up Menu)<br>• Up to 10 camera settings files can be saved to a card<br>• File renaming is possible<br>• Uploading requires saved settings from EOS R6 Mark III camera model only |
| **Reset individual settings** | Available (yellow Set-up Menu — ***Reset camera > Reset individual settings)***<br>• Basic settings<br>• Individual settings: Customize Quick Controls; Shooting info display; Root certificate; Communication settings; Custom shooting modes (C1 ~ C3); Copyright information; Customized controls; Custom Functions (C.Fn); My Menu |
| **Factory reset** | Available (yellow Set-up Menu — ***Reset camera > Factory reset*** |
| **External interface** | |
| **USB terminal** | USB-C<br>(equivalent to USB 10 Gbps (SuperSpeed Plus USB / USB 3.2 Gen 2) |
| **Ethernet terminal** | None |
| **System extension terminal** | None |
| **HDMI out terminal** | HDMI (Type A)<br>• Resolution switches automatically<br>• Requires [NTSC] or [PAL] be set correctly for connected TV / monitor video system<br>*HDMI CEC (Consumer Electronics Control) not supported* |
| **External microphone IN terminal** | 3.5mm diameter stereo mini jack (3-pin) |
| **Headphone terminal** | 3.5mm diameter stereo mini jack |
| **Remote control terminal** | Canon E3 type terminal (single-pin connector into camera)<br>• Optional Canon RA-E3 Remote Controller Adapter allows use of Canon 3-pin (N3-type) accessories |
| **Wireless remote control** | Possible, with optional accessory Wireless Remote Control BR-E1 or similar units |
| **Flash sync terminal** | None |
| **Multi-function shoe** | Provided<br>(compatible with Canon EL-series speedlites, EX-series speedlites, and specific Canon-brand shoe-mount digital accessories)<br>• 5-pin hot shoe connectors, for traditional Canon E-TTL speedlites<br>• Traditional hot shoe design, for attaching non-dedicated accessories |
| **Date / Time / Zone** | |
| **Available time zones (world time)** | Available (yellow Set-up Menu — ***Date / Time / Zone***) |
| **Daylight savings time** | Off / On |
| **Time difference setting** | Available |
| **Date / time back-up battery** | Built-in secondary battery<br>(internal; automatic recharging when charged battery pack is installed in-camera)<br>• Stores date & time for approx 3 months, if no main battery pack installed in-camera (after 8 hours of initial charging) |
| **Copyright information** | |

| | |
|---|---|
| **Adding copyright information** | Author / Copyright holder can be set in-camera, and is added to image EXIF info<br>***(yellow Set-up Menu > Copyright information)*** |
| **Adding IPTC information** | Supported<br>(International Press Telecommunications Council [IPTC] info from Canon EOS Utility or Content Transfer Professional software can be registered in-camera)<br>• IPTC and EXIF information applied as independent values<br>• Only the presence of IPTC info in an image is displayed during playback in-camera; details of IPTC info cannot be confirmed |
| **Power source** | |
| **Battery** | (one) Canon LP-E6P (rechargable battery pack)<br>*LP-E6 battery pack cannot be used*<br>*LP-E6N and LP-E6NH batteries can be used, but camera functions will be restricted; Also occurs if previous Battery Grip BG-E10 is attached (regardless of battery type installed in grip). Battery display icon may differ from other cameas, if LP-E6N or LP-E6NH battery is installed.* |
| **Battery check** | 6-level display when power switched ON; can be checked in viewfinder or LCD screen |
| **Battery level** | Displayed in 6 steps (EVF or LCD screen); or in 1% increments of remaining power<br>***(yellow Set-up Menu > Battery info.)*** |
| **Battery information** | Power supply — Type (including battery model)<br>Remaining capacity — in 1% increments, plus 6-level display icon<br>Shutter count — displayed (shutter firings using current battery pack)<br>Battery registrations — up to 6 available<br>Recharge performance — indicated by 3-step icon<br>(indicates battery's approximate abilitiy to be fully recharged from depleted state) |
| **Battery charger** | Canon LC-E6 (provided with camera; charges one LP-E6-type battery at a time) |
| **USB battery charging / USB power to camera** | Canon USB Power Adapter PD-E2 or PD-E1 recommended<br>(other USB power supplies cannot be guaranteed for proper operation)<br>**USB battery charging:**<br>• Requires an authenticated battery pack in-camera (USB charging otherwise not supported);<br>• Battery may not be charged unless remaining battery level is low<br>• Supplying power over USB while using AC adapter (DC Coupler DR-E6P) not possible — USB Power Adapter PD-E2 recommended for power to camera<br>• Charging temperature range — 41 ~ 104°F (5 ~ 15°C)<br>Charging will take longer in colder conditions (41 ~ 59°F / 5 ~ 15°C)<br>**USB power to camera:**<br>• Requires a battery be installed in-camera; remaining battery level may decrease, depending on camera operating conditions<br>• Switches to charging installed battery when camera main power turned off |
| **Charge level display** | Charging in progress — Access lamp lit in green<br>Charging finished — Access lamp off<br>Charging error — Access lamp blinks in green |
| **AC power source** | Canon DC Coupler DR-E6P and USB Power Adapter PD-E2<br>*Combination of DR-E6P and PD-E1 cannot be used*<br>*DR-E6 cannot be used*<br>*AC Adapter Kit ACK-E6 cannot be used* |

**Number of shots available**

| Shooting method | Temperature | Available shots (approx.) | |
|---|---|---|---|
| | | Power saving[1] | Smooth[2] |
| Viewfinder shooting[3] | 73°F / 23°C | 390 | 270 |
| LCD screen shooting[4] | | 620 | 510 |

*1: Based on CIPA standards*

*2: According to Canon measurement conditions, based on CIPA test standards*

*3: When [Viewfinder] is set*

*4: When [Screen] is set*

- Using new, fully-charged Canon LP-E6P battery pack
- Number of shots may vary greatly, depending on shooting and viewind conditions
- Since camera supplies power to compatible accessories attached to Multi-function shoe, fewer shots may be available
- Fewer shots will be available if previous Canon LP-E6N or LP-E6NH batteries used
- Using two Canon LP-E6P battery packs in accessory Canon Battery Grip BG-E20 approximately doubles number of shots available

**Available movie recording time**

**Available operating time — movie recording**

| | | Temperature | Available operating time |
|---|---|---|---|
| **RAW** | **Light RAW 59.94 fps / 50.00 fps** | 73°F / 23°C | Approx. 1 hr. 00 min. |
| | | 32°F / 0°C | Approx. 1 hr. 00 min. |
| **4K DCI** | **Standard LGOP 59.94 fps / 50.00 fps** | 73°F / 23°C | Approx. 1 hr. 00 min. |
| | | 32°F / 0°C | Approx. 1 hr. 00 min. |
| **Full HD** | **Standard LGOP 29.97 / 25.00 fps** | 73°F / 23°C | Approx. 2 hr. 40 min. |
| | | 32°F / 0°C | Approx. 2 hr. 40 min. |
| **4K DCI** | ***Movie playback time*** **Standard LGOP 59.94 fps / 50.00 fps** | 73°F / 23°C | Approx. 3 hr. 40 min. |

| | |
|---|---|
| **Time available for Live View shooting** | Approx. 4 hr. 20 min. (at 73°F / 23°C) |
| **Time available for bulb exposure** | Approx. 4 hr. 20 min. (at 73°F / 23°C) |
| **Main power switch** | On top plate of camera, next to Mode Dial — Off / Lock / On |
| **Start-up time (approx.)** | Approx. 0.6 sec. (CIPA-compliant test results), with Password request OFF |

**Power Saving**

| Feature | Time options |
|---|---|
| **Screen dimmer[1]** | 5 sec. / 10 sec. 15 sec. / 20 sec. / 25 sec. / 30 sec. / Disable |
| **Screen off** | 5 sec. / 15 sec. / 30 sec. / 1 min. / 3 min. / 5 min. / 10 min. 30 min. / Disable |
| **Auto power off** | 15 sec. / 30 sec. / 1 min. / 3 min. / 5 min. / 10 min. / 30 min. / Disable |
| **Viewfinder off** | 1 min. / 3 min. / Disable |

*1: If camera remains idle until specified time elapses, screen is dimmed and lower video frame rates are used*

*If a network error occurs during image transfer, in some cases Auto power off time may be extended, due to automatic attempt to transfer the images once again.*

| | |
|---|---|
| **ECO mode** | None |
| **Overheat warning** | Thermometer icon, and 10-stage analog scale to indicate rising internal temperatures |

| | |
|---|---|
| **Hand-held shooting: Low-temperature burn warning** | Icon with temperature and hand graphics appear, alerting user to possibility of low temperature burns or discomfort, during hand-held operation |
| **Auto power off temperature** | Standard / High<br>• When [High] is set, memory cards can become very hot, so caution is advised. Canon suggests tripod operation during [High] operation to avoid problems of rising external body temperatures during hand-held use.<br>• Can be set for still images and video operation |
| **Shutdown warning guidance (high internal temperature)** | Guidance appears on-screen: "...camera may turn off suddenly, in case of rising internal temperatures."<br>Off / On |
| **Standby: low resolution (during video operation only)** | Off / On<br>(in red Shooting Menu, during video operation — **Standby: Low res.)**<br>• Temporarily changes display frame rate and image quality during video recording standby, to conserve battery power and offer more recording time |
| **Authentication** | |
| **Certification logo display** | Available (yellow Set-up Menu — **Certification Logo Display)** |
| **Camera body** | |
| **Chassis material** | Primary magnesium alloy; partically aluminum alloy |
| **Exterior material** | Primarily magnesium alloy and polycarbonate resin with glass fiber |
| **Exterior color** | Black |
| **Tripod socket** | 1/4-20 (ISO 1222) |
| **Hand strap mount** | Compatible with Canon Hand Strap E2 |
| **Operating environment** | Temperature — 32 ~ 104°F / 0 ~ 40°C<br>Relative humidity — 85% or less |
| **Dimensions and weight** | |
| **Dimensions (W x H x D)** | 5.45 x 3.87 x 3.48 in. (138.4 x 98.4 x 88.4mm) |
| **Weight** | Body with battery and one card — Approx. 24.66 oz. / 1.54 lbs. / 699g<br>Body only — Approx. 21.48 oz. / 1.34 lbs. / 609g |
| **Accessories** | |
| **Multi-function shoe cover** | Shoe cover ER-SC2 (provided) — slide-on type cover (no lock button) |
| **Multi-function shoe adapter AD-E1** | Yes — provides dust- and weather-resistant coverage for Multi-function shoe electrical contacts. Strongly recommended for traditional 5-pin speedlites, or for non-dedicated shoe-mount accessories |
| **External flash** | Canon Speedlites:<br>• EL-series; EX-series; Macrolites; Speedlite Transmitter (ST-E3-RT — all versions, and ST-E10)<br>• Off-Camera Shoe Cord OC-E4A / OC-E3 |
| **Battery grip (accessory)** | Canon Battery Grip BG-E20<br>*(Battery Grip BG-R20EP can be used, but Ethernet features not available)*<br>• Battery Grip BG-E10 can be used, but with limited functionality, regardless of battery type installed in grip |
| **Wired LAN accessories** | None *(Wired LAN functions of accessory Battery Grip BG-R20EP cannot be used)* |
| **Wireless LAN accessories** | None *(Wireless File Transmitter WFT-R10 not supported)* |
| **Cooling fan** | None *(Optional Cooling Fan CF-R20EP cannot be used)* |
| **GPS accessories (optional)** | Canon GPS Receiver GP-E2<br>• Requires Multi-function Shoe Adapter AD-E1<br>• Digital compass not supported; cannot be connected via interface cable |

| | |
|---|---|
| **External microphone — wired connection to mic terminal** | Canon Directional Stereo Microphone DM-E1<br>Canon Stereo Microphone DM-E100 |
| **External microphone — wireless via Multi-function shoe** | Multi-function Shoe Directional Stereo Microphone DM-E1D |
| **Remote control — wired** | Canon Remote Switch RS-60E3<br>Canon Timer Remote Controller TC-80N3<br>*(requires optional Canon Remote Controller Adapter RA-E3)* |
| **Remote control — wireless** | Bluetooth — Canon Remote Control BR-E1<br>Smartphone — via Canon Connect app<br>(with compatible iOS™ or Android™ phone, connected to camera via Bluetooth) |
| **Viewfinder: eyecup** | Fixed to camera (non-detachable) |
| **Battery pack** | Canon LP-E6P<br>• Canon LP-E6N and LP-E6NH batteries can be used, with limited power and functions<br>• Canon LP-E6 battery pack cannot be used |
| **Battery charger** | Canon LC-E6 / LC-E6E (supplied with camera)<br>Canon Car Battery Charger CBC-E6 (optional accessory) |
| **AC power source (accessories)** | Canon DC Coupler DR-E6P and USB Power Adapter PD-E2<br>• DR-E6P and PD-E1 cannot be combined<br>• DR-E6 cannot be used; AC Adapter Kit ACK-E6 cannot be used |
| **USB power source** | Canon USB Power Adapter PD-E2 / PD-E1 |
| **USB interface cables** | Canon Interface Cable IFC-100U<br>*(approx. 3 feet / 1m length; USB speed = USB 5 Gbps [SuperSpeed USB / USB 3.2 Gen 1], when connected to camera)*<br>Canon Interface Cable IFC-400U<br>*(approx. 13.1 feet / 4m length; USB speed = 480 Mbps [Hi-speed USB / USB 2.0])* |
| **HDMI cables (video / audio)** | No genuine Canon-brand cables available<br>• Canon HDMI Cable HTC-100 not compatible, because it has HDMI type C terminal |
| **Smartphone link** | via accessory Canon Smartphone Link Adapter AD-P1 |
| **Tripod grip** | Accessory Canon Tripod Grip HG-100TBR<br>• Note: HD-100TBR maximum weight capacity (including body and lens) should not exceed 35.3 oz. / 2.2 lbs. / 1 kg.<br>• Some lenses may block sound in shooting environment from external microphones, which may prevent sound from being picked up correctly |
| **Protecting cloth** | Protecting Cloth PC-E1 / PC-E2 |
| **Strap** | Provided with camera<br>• Optional Canon Hand Strap E2 |
| **Cable protector** | None |
| **Rain cover** | Canon Rain cover ERC-R5L / ERC-R5S |
| **Support for EU RED (European Union Radio Equipment Directive regulations)** | |
| **Start-up password** | 6-digit password (set by user) required first time camera turned on, or when [Clear Entered Information] is performed in-camera<br>• Selecting [Reset] on password entry screen perfoms [Clear Entered Information]<br>• Camera locks after 10 failed password entry attempts; turn power switch off and back on, or wait approx. 10 minutes, to resume entering<br>• Password can be changed at any time by user |

<table>
<tr><td>Manage password</td><td>Password request: On / Off (current password must be entered to switch)<br>Change password: current password must be entered to change to new password<br>Clear entered information: with password set disabled, camera is initialized to original factory settings</td></tr>
<tr><td>Restrictions</td><td>Bluetooth, Wi-Fi and USB connectivity disabled while [Password request] screen is displayed<br>When [Password request: On] is selected, the following are restricted:<br>Image transfer to smartphone via Bluetooth, while camera is turned off<br>Recovering from Auto Power Off by Bluetooth Remote Control<br>Automatic image transfer to image.canon [when charging battery (high power)]<br>Bluetooth function while power switch is off, or while Auto Power Off is in progress<br>• [Password request: Off] is required to use the above function</td></tr>
<tr><td>Show log</td><td>Up to 100 event logs can be checked<br>• Event logs are cleared, starting with oldest as new event logs are added<br>• Event logs stored when camera turned off, and are appended to previous log when power is turned on<br>• Event logs are initialized (reset) when [Clear entered information] or [Factory reset] are performed</td></tr>
<tr><td>Firmware updates,<br>when connected to internet</td><td>Supported<br>• Card must be loaded in-camera<br>• When connecting to internet with communication features (such as [Upload to image.canon] or [Connect to smartphone] active, external server is checked to see if it has newer version of camera firmware</td></tr>
<tr><td colspan="2">Wireless communication functions</td></tr>
<tr><td>Wi-Fi (Wireless LAN) operation</td><td>5.0 GHz band / 2.4 GHz band<br>• FTP transfer<br>EOS Utility<br>Image.canon<br>Camera Connect<br>Content Transfer Professional<br>Camera Control API</td></tr>
<tr><td>Supported Wi-Fi standards</td><td>
<table>
<tr><th rowspan="2">Wi-Fi standards (equivalent)</th><th rowspan="2">Transmission method</th><th colspan="2">Maximum link speed</th></tr>
<tr><th>5 GHz band</th><th>2.4 GHz band</th></tr>
<tr><td>IEEE 802.11ac</td><td rowspan="4">OFDM modulation (CSMA / CA)</td><td>433 Mbps</td><td></td></tr>
<tr><td>IEEE 802.11n</td><td>150 Mbps</td><td>72 Mbps</td></tr>
<tr><td>IEEE 802.11a</td><td>54 Mbps</td><td></td></tr>
<tr><td>IEEE 802.11g</td><td></td><td>54 Mbps</td></tr>
<tr><td>IEEE 802.11b</td><td>DSSS modulation</td><td></td><td>11 Mbps</td></tr>
</table>
Not compatible with MIMO (Multiple-input and multiple-output)</td></tr>
<tr><td>Transmission frequency<br>(center frequency)</td><td>2.4 GHz band:<br>2412 to 2462 MHz; 1 to 11 channels<br>5.0 GHz band:<br>5180 to 5825 MHz; 36 to 165 channels</td></tr>
<tr><td>Wireless LAN setting method</td><td>Connect via wizard<br>Connect via Wi-Fi Protected Setup</td></tr>
<tr><td>Wi-Fi connection during Bluetooth</td><td>Automatic switching to Wi-Fi when function is started on Camera Connect app that requires stronger Wi-Fi connection, such as browsing images on-camera, or remote shooting</td></tr>
<tr><td>Bluetooth — standards compliance</td><td>Bluetooth Specification Version 5.1 compliant</td></tr>
</table>

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|---|---|
| **Bluetooth transmission method** | GFSK modulation |
| **Bluetooth communication functions** | Canon Camera Connect app<br>Canon BR-E1 remote controller |
| **Bluetooth pairing** | Smartphone — up to 10 units<br>BR-E1 remote controller — 1 unit |
| **Bluetooth operation when camera OFF** | Power switch set to OFF: Bluetooth communication still possible (only to smartphone)<br>Auto Power Off: Bluetooth communication still possible |
| **USB communication functons** | Canon EOS Utility (software)<br>Canon Camera Connect app<br>Content Transfer Professional software<br>USB (UVC/UAC) connection streaming |
| **Choosing app for USB connection** | **Photo import / Remote control:**<br>EOS Utility or other computer applications / Android apps / iPhone Photos app<br>**UVC/UAC streaming:**<br>Applications that communicate over USB with camera for video and audio<br>**Canon app(s) for iPhone:**<br>Other than above (such as Camera Connect) |
| **HDMI streaming** | Possible — connect HDMI cable from camera to compatible computer |
| **Wired LAN** | None |
| **Communication functions** | FTP transfer<br>EOS Utility (Wireless LAN / USB)<br>Image.canon (upload images to web service)<br>Camera Connect (wireless LAN / Bluetooth / USB)<br>Content Transfer Professional software (wireless LAN / USB)<br>Wireless Remote Control (Bluetooth)<br>Camera Control API (wireless LAN)<br>GPS device settings (images can be geotagged via Bluetooth-connected smartphone) |
| **Live streaming** | |
| **USB (UVC/UAC) connection streaming (via USB)** | Possible when camera connected to compatible computers, via USB cord, using software on the computer<br>• Power can be supplied from computer during USB streaming (USB Power Delivery supported; requires a power supply capability of 5 V / 1.5 A or greater)<br>• Live streaming not available during still-image shooting, and S&F movie recording<br>• Only P / M / Smooth skin movie modes can be set during Live streaming |
| **Live streaming data formats** | **Video:**<br>Compression method — Motion JPEG; Color sampling — YCC422; Bit depth — 8 bits; Custom Picture — supported; Recording range: Full range<br>**Resolution / Frame rate:**<br>4K 30 FPS; 4K 60 FPS (not available in Smooth skin movie mode)<br>Full HD 60 FPS; Full HD 30 fps<br>*60 or 30 FPS, regardless of NTSC / PAL settings*<br>**Audio**:<br>USB Audio Class (UAC) supported<br>LPCM 48 kHz / 16 bit / 2CH (4 channel input not supported)<br>External microphone (Multi-function shoe input / microphone IN terminal) / built-in microphone — supported<br>(microphones recognized by camera in priority order: External microphone (includes external IN terminal), and built-in microphone |

| | |
|---|---|
| **Compatible OS** | Windows™ / Macintosh™ supported<br>• Compatible version depends on application used with camera; iOS / Android not supported |
| **HDMI streaming service (via HDMI)** | Camera can be connected to compatible computer, via HDMI<br>• HDMI resolution fixed at AUTO; When [Movie recording size] is set to 2K / Full HD, HDMI output frame fixed at 59.94 / 50.00 FPS *(if [Movie recording size] is set to 29.97 / 23.98 / 25.00, it is converted to 59.94 / 50.00 FPS by frame interpolation)*<br>• Custom Picture — supported<br>• HDMI output range: Video range / Full range (can be switched automatically, by Custom Picture setting)<br>**Audio:**<br>• LPCM 48 kHz / 16 bit / 2CH (4-channel input not supported)<br>• External microphone (multi-function shoe input) / external mic (mic IN terminal) / built-in microphone — supported |
| **Compatible OS** | Windows™ / Macintosh™ supported<br>(compatible version varies, depending on application used with the camera) |
| **Canon Camera Connect streaming** | None |
| **Live Switcher Moble streaming (wireless LAN)** | None |