

EOS C80

ELEVATE YOUR CREATIVITY



The EOS C80 is designed to excel in professional video and live productions, where cinematic high quality, compact, familiar design and flexible ergonomics are key to single operator or small team productions.



Full frame 6K BSI sensor

TRIPLE
BASE
ISO

Triple base ISO

RF
MOUNT
SYSTEM

RF mount system

Dual Pixel
CMOS

AF II Dual Pixel CMOS AF II

Cinema RAW
Light

12-Bit Cinema RAW
Light

XF-HEVC S
XF-AVC S
XF-AVC

4:2:2 10-Bit
Recording





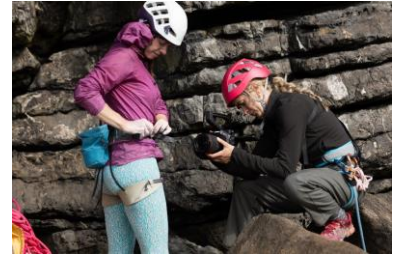
Full frame 6K BSI sensor

Capture breathtaking footage with Canon's cutting-edge backside illuminated (BSI) sensor, delivering next-generation capabilities, triple base ISO (800 / 3200 / 12800), organic colour reproduction, and 16 stops of dynamic range.



Dual Pixel CMOS AF II with EOS iTR AF X

Enjoy updated, faster auto focus technology. Pin-sharp and ultra-responsive face, eye, head, body, and animal tracking covering the full sensor. Have full control with face-only recognition and customisable settings to help ensure your focus never slips.



Compact, ergonomic and familiar design

A familiar and updated design delivers improved ergonomics, connectivity, plus updated joystick and multi-function shoe. Use the top handle or build your own rig, with flexibility to shoot your way in challenging conditions.



Professional recording formats and high frame rates

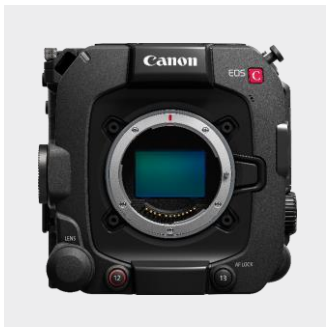
Including 12-bit Cinema RAW Light LT up to 6K 30P, and 4:2:2 10-bit up to 4K 120P. Oversampled 4K is available via XF-AVC and improved XF-AVC S / XF-HEVC S (MP4) formats, all featuring detailed metadata and filename structures. Output HDMI RAW to compatible external recorders.



RF mount

Rely on cutting-edge prime, zoom, and cinema lenses for unrivalled optical performance, real-time lens metadata, and ultra-responsive AF/IS systems. Easily use your PL and EF lenses with a Canon mount adapter.

PRODUCT RANGE



EOS C400



EOS C80



EOS C70

IMAGE SENSOR

| | |
|-------------------------------------|---|
| Sensor | Full Frame Back-Side Illuminated (BSI) CMOS sensor |
| System | RGB primary color filter (Bayer array) |
| Sensor Modes | Full Frame / Super 35mm (crop) |
| Total Pixels | Approx. 26.67 megapixels (6202 x 4300) |
| Effective Pixels | Approx. 19.05 megapixels (6008x3170) : When 6000x3164 / 4096x2160 / 2048x1080 is selected as the resolution Approx. 17.86 megapixels (5634x3170) : When 3840x2160 / 1920x1080 is selected as the resolution |
| Effective Sensor Screen Size | Full Frame: 36.0 x 19.0 mm (40.7 mm on the diagonal) : When 6000x3164 / 4096x2160 / 2048x1080 is selected as the resolution 33.8 x 19.0 mm (38.7 mm on the diagonal) : When 3840x2160 / 1920x1080 is selected as the resolution |
| Dynamic Range¹ | Canon Log 2: 1600% / 16 stops (at ISO 800) Canon Log 3: 1600% / 14 stops (at ISO 800) Base ISO: 800 / 3200 / 12800 ¹ |

IMAGE PROCESSOR

Type DIGIC DV7

LENS

| | |
|------------------------------------|---|
| Lens Mount | Canon RF mount PL mount support via PL-RF Mount Adapter EF mount support via EF-EOS R Mount Adapter |
| Lens Magnification Factor | Full frame: 6000x3164, 4096x2160 or 2048x1080: Actual focal length x Approx. 1.06 3840x2160 or 1920x1080: Actual focal length x Approx. 1.12 Super 35mm (Crop): 4368x2304, 4096x2160 or 2048x1080: Actual focal length x Approx. 1.46 |
| Digital Lens Correction | Peripheral Illumination Correction Chromatic Aberration Correction Diffraction Correction Distortion Correction (RF lenses only) |
| ND Filter | 2, 4 or 6 Stops. Up to 10 stops via built in ND filter system (in extended mode) |
| Iris Control | 1/2-stop, 1/3-stop or FINE control Auto Iris |
| Cooke /I Technology Support | Only when equipped with PL-RF Mount Adapter |
| Anamorphic Lens Support | x2.0 / x1.8 / x1.3 |
| Image Stabilization System | 5-Axis Combination IS (Optical and Digital) with supported lenses Digital 5-Axis IS for non IS lenses. |

RECORDING

| | |
|-----------------------------------|---|
| Internal Recording Media | 2x SD Card (SD / SDHC / SDXC) |
| Recording Time² | Cinema RAW Light LT: 6000 x 3164 576 Mbps: approx. 118 Mins Cinema RAW Light ST: 4368 x 2304 470 Mbps: approx. 145 Mins XF-AVC: 4096x2160 500 Mbps: approx. 136 Mins XF-AVC S: 4096x2160 500 Mbps: approx. 136 Mins XF-HEVC S: 4096x2160 135 Mbps: approx. 505 Mins |

Recording Formats

| | |
|--|---|
| Relay Recording³ | Yes |
| Double Slot (Simultaneous) Recording¹ | Yes |
| Simultaneous Recording in Multiple Formats | Yes |
| System Frequency / Frame Rates | 59.94Hz mode (59.94P / 59.94i / 29.97P / 23.98P) 50.00Hz mode (50.00P / 50.00i / 25.00P) 24.00 Hz mode (24.00P) |
| Cinema RAW Light Bit Rate/Bit Depth (PAL) | 12-bit Cinema RAW Light LT: FF / 6000 x 3164 / 25P [576 Mbps] S35 / 4368 x 2304 / 50P [611 Mbps] S35 / 4368 x 2304 / 25P [306 Mbps] |
| XF-AVC Recording Bit Rate/ Sampling (PAL / MXF) | 12-bit Cinema RAW Light ST: S35 / 4368 x 2304 / 25P [470 Mbps] 4:2:2 10-bit (Intra-frame): 4096x2160 or 3840x2160 / 50P [500 Mbps] 4096x2160 or 3840x2160 / 25P [500 / 375 / 250 Mbps] 2048x1080 or 1920x1080 / 50P [250 Mbps] 2048x1080 or 1920x1080 / 50i [125 Mbps] 2048x1080 or 1920x1080 / 25P [125 Mbps] |
| XF-AVC S Recording Bit Rate / Sampling (PAL / MP4) | 4:2:2 10-bit (Long GOP): 4096x2160 or 3840x2160 / 50P [250 Mbps] 4096x2160 or 3840x2160 / 25P [150 Mbps] 2048x1080 or 1920x1080 / 50P [50 Mbps] 2048x1080 or 1920x1080 / 50i [50 / 25 Mbps] 2048x1080 or 1920x1080 / 25P [50 Mbps] |
| XF-HEVC S Recording Bit Rate / Sampling (PAL / MP4) | 4:2:2 10-bit (Intra-frame) : 4096 x 2160 or 3840 x 2160 / 50P [1000 / 750 / 500 Mbps] 4096 x 2160 or 3840 x 2160 / 25P [500 / 375 / 250 Mbps] 2048 x 1080 or 1920 x 1080 / 50P [250 Mbps] 2048 x 1080 or 1920 x 1080 / 25P [125 Mbps] |
| Proxy Recording Bit Rate / Sampling (PAL) | 4:2:2 10-bit (Long GOP) : 4096 x 2160 or 3840 x 2160 / 50P [250 Mbps] 4096 x 2160 or 3840 x 2160 / 25P [150 Mbps] 2048 x 1080 or 1920 x 1080 / 50P [50 Mbps] 2048 x 1080 or 1920 x 1080 / 25P [50 Mbps] |
| Slow / Fast Motion | 4:2:0 8-bit (Long GOP) : 4096 x 2160 or 3840 x 2160 / 50P [150 Mbps] 4096 x 2160 or 3840 x 2160 / 25P [100 Mbps] 2048 x 1080 or 1920 x 1080 / 50P [35 Mbps] 2048 x 1080 or 1920 x 1080 / 25P [35 Mbps] |
| | 4:2:2 10-bit (Long GOP) : 4096 x 2160 or 3840 x 2160 / 50P [225 Mbps] 4096 x 2160 or 3840 x 2160 / 25P [135 Mbps] 2048 x 1080 or 1920 x 1080 / 50P [50 Mbps] 2048 x 1080 or 1920 x 1080 / 25P [50 Mbps] |
| | 4:2:0 10-bit (Long GOP) : 4096 x 2160 or 3840 x 2160 / 50P [150 Mbps] 4096 x 2160 or 3840 x 2160 / 25P [100 Mbps] 2048 x 1080 or 1920 x 1080 / 50P [35 Mbps] 2048 x 1080 or 1920 x 1080 / 25P [35 Mbps] |
| | 4:2:0 8-bit (Long GOP): 2048x1080 or 1920x1080 [35 / 16 / 9 Mbps] 1280 x 720 [6 Mbps] |
| | 4:2:0 10-bit (Long GOP): 2048x1080 or 1920x1080 [16 / 9 Mbps] 6K RAW: up to 30FPS 4K recording: up to 120FPS (Long GOP) / 60FPS (Intra-frame) 2K recording: up to 180FPS (Long GOP) / 120FPS (Intra-frame) |

| | |
|---|---|
| Interval Record | Yes |
| Frame Record | Yes |
| Pre Record (Cache Record)⁶ | 3 Seconds |
| Digital Tele-converter | 1.5x, 2x, 2.5x, 3x, Off |
| Photo Storage Media | SD Card |
| Photo Recording Size⁷ | 4096x2160 / 3840x2160 / 2048x1080 / 1920x1080 |
| SYSTEM | |
| Display Type | 3.5 inch LCD Touch Panel |
| Display Resolution | approx. 2.76 million dots (1280 x RGB x 720) |
| Display Touch Screen Functions | Focus Point Selection Touch Screen UI for Shooting Settings |
| OSD for Vertical Shooting | Yes |
| Wave Form Monitor | Yes (Line / Line + Spot / RGB Parade / YPrPb Parade) |
| False Colour Display (Exposure Indication) | Yes (6 Colour Index) |
| Colour Bars | SMPTE / EBU / ARIB |
| Peaking | Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable) |
| Zebra | Level 1; Level 2; Both |
| Markers | On / Off selectable: centre, horizontal / vertical, grid, aspect, safe area and user marker. Colour selectable |
| EVF | |
| Built-In EVF | No |
| INPUTS / OUTPUTS | |
| Audio In | 2x Mini XLR 3-pin connector 1x 3.5 mm stereo mini jack Built in Stereo microphones on camera body |
| Headphone Output | 1x 3.5mm stereo mini jack |
| Video Monitor Output | No |
| HDMI | 1x HDMI (Type-A) |
| HDMI | 1x USB-C Data Terminal (USB3.2 Gen1) |
| SDI Output | 1x 12G-SDI Output (BNC) |
| Time Code | 1x BNC Terminal (Input / Output) |
| Genlock | No |
| Sync | No |
| Multi-Function Shoe | Yes (via camera body) |
| DC Input | 1x 24V DC jack |
| Remote Control Terminal | 1x 2.5 mm stereo mini jack |
| Lens Terminal | No |
| Ethernet Terminal | 1x RJ45 Connector (1000BASE-T compatible) |
| Grip | No |
| IP Streaming | IP Streaming via Ethernet / Wi-Fi connection 9 Mbps / 4 Mbps: 1920 x 1080 (59.94p / 59.94i / 50.00p / 50.00i) UDP / RTP / SRT / RTP+FEC / RTSP+RTP |
| User LUT Input | Yes, in-built LUTs available for monitoring. Custom LUTs can be applied directly to internal recordings via Look File function (compatible with 17 or 33 grid .cube files) |
| Video Connector | No |
| Tally Signal | Yes, via Wi-Fi or Ethernet using XC Protocol |
| Return Signal Input | No |

Default Function Button Settings

1. WB
2. SET WB
3. PEAKING
4. WFM
5. DISP
6. ZEBRA
7. AUTO IRIS
8. MAGN.
9. FUNC
10. (unassigned)
11. (unassigned)
12. AF LOCK
13. AUDIO STATUS

User Assignable Buttons

- 13x (Body)
- Yes, 1x
- Yes, 3x
- Cinema RAW Development
XF Utility
EOS VR Utility
Remote Camera Control Application
RAW Plugin for Avid Media Access
RAW Plugin for Final Cut Pro
XF Plugin for Avid Media Access
EOS VR Plugin for Adobe Premiere Pro
CV Metadata Plugin for Adobe After Effects
Live Link Plugin for Unreal Engine
CV Metadata Extraction Tool
MP4 Join Tool
HEVC Activator
Canon Multi-Camera Control
Content Transfer Professional
Browser Remote Control

MISCELLANEOUS

Tally Lamp

Custom Dial

Software Application Support

Smartphone Application Support

EXPOSURE

Exposure Metering

Exposure Compensation

Auto Exposure Mode

Push Auto Iris

Exposure Lock

Auto Gain Control Setting

ISO Sensitivity⁸

- Standard / Spotlight / Backlight
- AE shift function available. Target value (±8 steps from center)
- Auto Iris / Auto ISO
- Yes
- No
- Yes
- 1-Stop Display:
100* / 160** / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200* / 102400*
- 1/3-Stop Display:
100* / 125* / 160 / 200 / 250 / 320 / 400 / 500 / 640 / 800 / 1000 / 1250 / 1600 / 2000 / 2500 / 3200 / 4000 / 5000 / 6400 / 8000 / 10000 / 12800 / 16000 / 20000 / 25600 / 32000* / 40000* / 51200* / 64000* / 80000* / 102400*

*when ISO Extended Range is set to ON

**when ISO Extended Range is set to OFF

Auto Focus System

AF Frame Sizes

- Dual Pixel CMOS AF II + EOS iTR AF X
- Full: approx. 100% (Vertical) x approx. 100% (Horizontal)
- Large Zone (Vertical): Video display range approx. 97% (Vertical) x 25% (Horizontal)
- Large Zone (Horizontal): Video display range approx. 43% (Vertical) x 76% (Horizontal)
- Zone: Video display range approx. 43% (Vertical) x 25% (Horizontal)
- Small Zone: Video display range approx. 15.9% (Vertical) x 11.8% (Horizontal)
- Continuous AF / One-Shot AF

Auto Focus Modes

Face Detection AF

Animal Detection AF

Focus Guide

Gain Setting⁹

Yes (Eye / Face / Head / Body)

Yes (Dogs / Cats)

Yes, with compatible Canon lenses

⁻6dB*, -3dB*, -2dB**~42dB, 45dB*, 48dB*, 51dB*, 54dB*

*when ISO Extended Range is set to ON

**when ISO Extended Range is set to OFF

SHUTTER

| | |
|---------------------------|--|
| Control Modes | Speed / Angle / Clear Scan / Slow Shutter |
| Shutter Speed | 1/1~1/2000 (total of 47 settings) |
| Shutter Angle | 11.25° to 360° depending on frame rate |
| Slow Shutter (SLS) | 1/3, 1/4, 1/6, 1/8, 1/12, 1/15, 1/25, 1/30 depending on frame rate |
| Clear Scan | 23.97 Hz~1971 Hz depending on sensor mode / frame rate |

CUSTOM PICTURE

| | |
|------------------------------|---|
| Stored Configurations | C1: Canon 709 C2: Canon Log 2 C3: Canon Log 3 C4: BT.709 Wide DR C5: BT.709 Standard C6: PQ C7: HLG C8: EOS Standard C9: EOS Neutral C10: User10 ~User20 |
| HDR-HLG Profile | BT.2100: Corresponds to ITU-R BT.2100 Vivid: Corresponds to Traditional Colour in ITU-R BT.2390 |

| | |
|----------------------|--|
| Colour Matrix | Neutral: Accurate colour reproduction Production Camera: Colour reproduction for use in movie production Video: Colour reproduction with contrast for TV broadcasts. |
|----------------------|--|

| | |
|------------------------------------|---|
| Image Adjustment Parameters | Master Pedestal Master Black Black Gamma Low Key Saturation Knee Sharpness Noise Reduction Skin Detail Colour Matrix Tuning White Balance Colour Correction |
|------------------------------------|---|

WI-FI & GPS SPECIFICATIONS

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|---|--|
| Wi-Fi | In-built (2.4 / 5GHz bands) Supporting 802.11a/b/g/n/ac |
| GPS Information (Optional Accessory) | Only when equipped with GP-E2 GPS Receiver |

WHITE BALANCE

| | |
|----------------------------|---|
| Auto | Yes |
| Preset | Daylight (5600K), Tungsten (3200K), Kelvin (2000K-15000K, 100K intervals), Set A, Set B |
| White Balance Shift | -5 CC - +5 CC (Daylight / Tungsten) -20 CC - +20 CC (Kelvin) |

TIME CODE

| | |
|------------------------|--|
| Count Up System | Regen / RecRun / Free Run / External / Frame Count |
|------------------------|--|

AUDIO

| | |
|-------------------------|--|
| Recording Format | RAW / XF-AVC: Linear PCM (24-bit / 48 kHz, 4 channels) XF-AVC S / XF-HEVC S: Linear PCM (24-bit / 48 kHz, 4 channels) or MPEG2-AAC LC (16 bit 48kHz) 2 channels |
|-------------------------|--|

ACCESSORIES

| | |
|-----------------|---|
| Supplied | Handle Unit BP-A30N Battery Pack CA-CP300 B Compact Power Adapter CG-A20 Battery Charger Microphone Holder SS-1200 Shoulder Strap |
| Optional | BP-A60N/BP-A30N Battery Pack BP-A30/BP-A60 Battery Pack CG-A20/CG-A10 Battery Charger PL-RF Mount Adapter EF-EOS R Mount Adapter EF-EOS R Control Ring Mount Adapter EF-EOS R Drop-In Filter Mount Adapter EF-EOS R 0.71x Mount Adapter Remote Camera Controller RC-V100 Remote Camera Controller RC-IP100 Remote Camera Controller RC-IP1000 DM-E1D Multi-Function Shoe Directional Stereo Microphone OC-E4A Off-Camera Shoe Cord IFC-100U / IFC-400U Interface Cable Tascam CA-XLR2d XLR Microphone Adapter |

Third Party Accessories

POWER SOURCE

| | |
|-------------------------------|--|
| Power Supply (Battery) | BP-A30N (Supplied) BP-A60N / BP-A30 / BP-A60 (Optional) |
| Power supply (Mains) | DC IN 24V Terminal |

| | |
|--------------------------|--|
| Power Consumption | RAW LT, 6000x3164, 29.97P (14.5W) RAW LT, 4368x2304, 59.94P (18.2W) XF-AVC, 3840x2160, 59.94P (19.6W) XF-AVC, 2048x1080, 59.94P (17.9W) |
|--------------------------|--|

| | |
|-----------------------|---|
| Recording Time | With supplied BP-A30N battery pack: RAW LT, 6000x3164, 29.97P: 170 Mins (Full Frame) RAW LT, 4368x2304, 59.94P: 135 mins (Super35) XF-AVC, 3840x2160, 59.94P: 125 mins (Full Frame) XF-AVC, 2048x1080, 59.94P: 140 mins (Super35) |
|-----------------------|---|

PHYSICAL SPECIFICATIONS

| | |
|------------------------------------|--|
| Dimensions (Main Body Only) | approx. 160 x 138 x 116 mm |
| Weight (Body Only) | approx. 1310g |
| Weight (Accessories) | Handle Unit: Approx. 155g BP-A30N Battery Pack: Approx. 243g CA-CP300 B Compact Power Adapter: Approx. 219g Battery Charger CG-A20: Approx. 145g Microphone Holder + 2 screws: Approx. 60g |

Operating Temperature Range

| | |
|--|---|
| | Approx. 0 to 40°C, (85% relative humidity) Approx. -5 to 45°C, (60% relative humidity) |
|--|---|

Footnotes:

- ^[1] When shooting in RAW or Canon Log 2/3
- ^[2] Based on 25P recording on a 512GB card at maximum bitrate
- ^[3] Relay Recording not available during RAW or S&F Recording
- ^[4] Double Slot Recording not available during S&F Recording
- ^[5] Proxy recording available in XF-AVC, XF-AVC S and XF-HEVC S (depending on the main format selected)
- ^[6] Pre Record not available during RAW or S&F Recording
- ^[7] Depending on Sensor Mode and Format selected
- ^[8] Available when Base ISO is set to Automatic
- ^[9] Available when Base ISO is set to Automatic

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What's in the box

EOS C80 EMEA

- EOS C80 EU BODY
- Camera Cover
- Measure Hook
- Microphone Holder Unit
- Screws for Microphone Holder Unit (M4)
- Handle Unit
- SS-1200 Shoulder Strap
- Compact Power Adapter CA-CP300B
- AC Cable EU
- Battery Charger CG-A20
- BP-A30N Battery Pack
- Printed Matter Unit
- Packaging

