

# EOS C50

## TECHNICAL SPECIFICATIONS



**Canon**

# EOS C50

## Full Frame Cinema Camera



### OPEN GATE RECORDING FOR ULTIMATE VERSATILITY

The first cinema EOS camera to offer Open Gate Recording using the entire sensor area. This provides enhanced image quality by enabling recording with a wider angle of view and higher resolution giving more freedom in framing and trimming that can be used in a variety of applications.



### 7K FULL FRAME CMOS SENSOR

The 7K full-frame sensor and DIGIC DV7 processor delivers breathtakingly beautiful visuals with support for enhanced 4K image quality with 7K oversampling. Full-frame readout is supported along with Super 35mm modes.



### CANON'S SMALLEST AND LIGHTEST CINEMA EOS CAMERA

The extremely compact form factor on the EOS C50 meets the diverse needs for almost any scenario in the professional world. Combining pro level image quality with a lightweight design.



### DUAL PIXEL CMOS AF II WITH SUBJECT DETECTION

Dual Pixel CMOS AF II offers advanced high-speed, high-precision AF. Algorithms which utilise deep learning enable high-performance subject detection which provides high-speed AF that captures the subject instantly.

**Dual Pixel CMOS AF II**

### LINEUP OF MOUNT ADAPTERS FOR COMPATIBILITY

Users can fully utilise their existing EF lenses by attaching an EF-EOS R adapter. PL lenses can also be attached using a new PL-RF mount adapter.



## CINEMA LIGHT RAW RECORDING

Captures ultra-high-resolution, delivering exceptional detail and fluid motion. This feature makes RAW more accessible through smaller file sizes and simplified processes – and see it at work in professional workflows



## CANON LOG 2 & CANON LOG 3

Canon Log 2 & Canon Log 3 are included to ensure a wide dynamic range. Canon Log 2 enables shooting with dynamic range of up to 16 stops



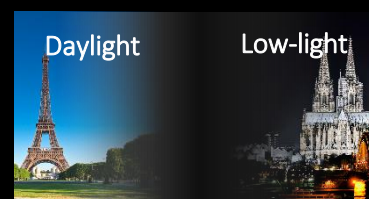
## 4K 120p RECORDING

Supports up to 2K 180P and 4K 120P\* recording. This lets users capture scenes with fast movement, such as sports and concerts.



## SUPPORTS TWO BASE ISO MODES

choose from two base ISO levels (800/6400) from low to high. The camera also features Auto Selection, which automatically switches from one of the two base ISO levels to another level with a higher S/N ratio while maintaining the dynamic range.



## VIRTUAL PRODUCTION SUPPORT

Plug and Play allows data to be synced with a single cable and no prior calibration required. Lens distortion data is delivered along with other lens operations obtain more natural CG composited images that match and coordinate the real camerawork and the virtual space.



## SIMULTANEOUS RECORDING

Dual SD cards slots enable simultaneous recording of XF-AVC, XF-HEVC S, XF-AVC S and proxy data recording to one card while recording Cinema RAW Light internally to the other card for faster video editing.



# EOS C50 | INTERFACES

Multi-function shoe (21pin)

Internal Wi-Fi

Zoom Rocker



Time code (DIN)

USB (Type C)

Microphone terminal

Headphone terminal

HDMI output terminal (Type-A)

Remote Control (E3)



# WHY CANON CINEMA CAMERAS?

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## SIGNATURE COLOUR SCIENCE

Our colour science is designed to deliver clarity, depth and precision in every frame as well as vibrant true-to-life hues. Uncompromising image quality is at the heart of every Canon cinema camera.

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## TRUE VERSATILITY

Our C500 Mark II and C300 Mark III have been built with a modular design, making it adaptable for diverse shooting environments. Transition with ease and speed between handheld and studio set-ups. The compact yet powerful EOS C50 and EOS R5 C redefines on-the-go filmmaking, packing high-performance specs into a portable design.

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## CRAFTED FOR RELIABILITY

From intense shoots to challenging conditions, our cameras are built to perform, ensuring you never miss moment.

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When you purchase a cinema EOS camera or lens, you're unlocking a network of support with Canon Professional Services (CPS). This paid membership is dedicated to the professional community of photographers and cinematographers. It provides comprehensive assistance from a top-tier professional team, including technical help and repairs as well as the latest industry updates. Find all your service needs in one convenient place.

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**Canon**

EOS C50

SPECIFICATIONS

| EOS C50 |                                            |                                                                                                                                                                                                                                                                                               |
|---------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System  | Lens mount                                 | RF mount                                                                                                                                                                                                                                                                                      |
|         | Sensor                                     | 35mm full-frame CMOS sensor                                                                                                                                                                                                                                                                   |
|         | Number of pixels                           | Total pixels: approx. 34.20 megapixels<br>Effective pixels: up to approx. 32.50 megapixels                                                                                                                                                                                                    |
|         | ISO sensitivity                            | 160-25600 (Extended: 100-102400 with extender)                                                                                                                                                                                                                                                |
|         | BASE ISO                                   | 800 / 6400 / (auto selection)                                                                                                                                                                                                                                                                 |
|         | Sensor mode                                | Full-frame, Super 35mm Crop                                                                                                                                                                                                                                                                   |
|         | ND filter                                  | No                                                                                                                                                                                                                                                                                            |
|         | Gamma                                      | Canon Log 2, Canon Log 3, Canon 709, BT.709 Wide DR, BT.709 Standard, PQ, HLG                                                                                                                                                                                                                 |
|         | Frame rate                                 | 7K(6960x4640) 29.97p/25.00p (RAW)<br>7K(6960x3672) 59.94p/50.00p (RAW)<br>7K(6912x4608) 29.97p/25.00p (XF-HEVC S)<br>5K(5036x2656) 59.94p/50.00p (RAW)<br>2.5K(2524x1332) 59.94p/50.00p (RAW)<br>4K 59.94p/50.00p (XF-AVC/XF-HEVC S/XF-AVC S)<br>2K 59.94p/50.00p (XF-AVC/XF-HEVC S/XF-AVC S) |
|         | Color space                                | Cinema Gamut, BT.2020 Gamut, BT.709 Gamut                                                                                                                                                                                                                                                     |
|         | White balance                              | Auto, sunlight, tungsten, color temperature (2000K to 15000K), settings A/B                                                                                                                                                                                                                   |
|         | Dynamic range                              | 15+ stops (when set to Sensor mode: Full-frame)<br>16 stops (when set to Sensor mode: Super 35mm (Crop))                                                                                                                                                                                      |
|         | AF                                         | Dual Pixel CMOS AF II                                                                                                                                                                                                                                                                         |
|         | Recording Format                           | Movies<br>Cinema RAW Light<br>XF-AVC<br>XF-HEVC S<br>XF-AVC S                                                                                                                                                                                                                                 |
|         |                                            | Photos<br>JPEG                                                                                                                                                                                                                                                                                |
|         | Maximum frame rate*<br>(slow & fast, etc.) | Full-frame 3:2: 6960x4640/30P, 6912x4608/30P<br>Full-frame: 6960x3672/60P, 4096x2160/120P, 2048x1080/180P<br>Super35mm Crop: 5036x2656/60P, 4096x2160/60P, 2048x1080/60P<br>Super16mm Crop : 2524x1332/150P, 2048x1080/150P                                                                   |
|         | Recording format (audio)                   | Linear PCM 24-bit/48kHz/4ch<br>AAC 16-bit/48kHz/2ch (XF-HEVC S / XF-AVC S)                                                                                                                                                                                                                    |
|         | Recording media                            | CFexpress (Type B) x1 / SD (UHS-II) x1                                                                                                                                                                                                                                                        |
|         | LCD monitor                                | 3.0-inch LCD 1.62 million dots, touch panel                                                                                                                                                                                                                                                   |
|         | Viewfinder                                 | No                                                                                                                                                                                                                                                                                            |
|         | Multi-function shoe (21 pin)               | Yes (with electrical contacts)                                                                                                                                                                                                                                                                |
|         | Wi-Fi                                      | Internal                                                                                                                                                                                                                                                                                      |

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SPECIFICATIONS

EOS C50 (continued)

|                        |                        |                                                                                                                                                                          |
|------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input/Output Terminals | LENS                   | No                                                                                                                                                                       |
|                        | SDI OUT                | No                                                                                                                                                                       |
|                        | MON.                   | No                                                                                                                                                                       |
|                        | HDMI                   | Type-A                                                                                                                                                                   |
|                        | INPUT                  | Mini-XLR x2 (AES/EBU not supported; when hand unit is attached)                                                                                                          |
|                        | Ethernet               | No (support available with standard ethernet adapter)                                                                                                                    |
|                        | USB                    | Yes (USB Type-C) [HOST supported/ power supply]                                                                                                                          |
|                        | GRIP                   | No                                                                                                                                                                       |
|                        | MIC                    | Φ3.5mm stereo mini jack                                                                                                                                                  |
|                        | Headphone              | Yes (stereo)                                                                                                                                                             |
|                        | REMOTE E3 (φ2.5mm)     | Yes                                                                                                                                                                      |
|                        | REMOTE N3 terminal     | Yes (conversion adapter: RA-E3 required)                                                                                                                                 |
|                        | TC (TIME CODE)         | Yes (DIN terminal) [doubles as input/output]                                                                                                                             |
|                        | G-LOCK                 | No                                                                                                                                                                       |
|                        | SYNC                   | No                                                                                                                                                                       |
|                        | RET                    | No                                                                                                                                                                       |
|                        | DC-IN                  | Yes (DR-E6P, DR-E6C)                                                                                                                                                     |
| Power / Other          | Battery                | LP-E6P                                                                                                                                                                   |
|                        | Operating temperature  | Guaranteed performance conditions:<br>Approx. 0 °C to 40 °C 85% (relative humidity)<br>Guaranteed operating conditions:<br>Approx. -5 °C to 45 °C 60%(relative humidity) |
|                        | Dimensions (W x H x D) | Approx. 142 x 88 x 95 mm                                                                                                                                                 |
|                        | Main body weight       | Approx. 670 g                                                                                                                                                            |



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| Main Recording Formats |               |                          |              |                            |                                                                  |                                |
|------------------------|---------------|--------------------------|--------------|----------------------------|------------------------------------------------------------------|--------------------------------|
| Format                 | Codec         | Intra-frame/<br>Long GOP | Sampling     | Resolution                 | Max. Bit rate                                                    | Slow & Fast<br>Max. frame rate |
| Cinema RAW Light       | -             | -                        | 12bit        | 6960x4640                  | 1800Mbps (29.97P ST)<br>1510Mbps (25.00P ST)                     | 30P                            |
|                        |               |                          |              | 6960x3672                  | 2860Mbps (59.94P ST)<br>2380Mbps (50.00P ST)                     | 60P                            |
|                        |               |                          |              |                            | 2900Mbps (29.97P HQ)<br>2420Mbps (25.00P HQ)                     | 30P                            |
|                        |               |                          |              | 5036x2656                  | 1500Mbps (59.94P ST)<br>1250Mbps (50.00P ST)                     | 60P                            |
|                        |               |                          |              |                            | 1520Mbps (29.97P HQ)<br>1270Mbps (25.00P HQ)                     | 30P                            |
|                        |               |                          |              | 2524x1332                  | 769Mbps (59.94P HQ)<br>642Mbps (50.00P HQ)                       | 150P                           |
| XF-AVC                 | H.264/<br>AVC | Intra-frame              | 422<br>10bit | 4096 x 2160<br>3840 x 2160 | 1200Mbps (59.94P)<br>1000Mbps (50.00P)                           | 120P                           |
|                        |               |                          |              | 2048 x 1080<br>1920 x 1080 | 300Mbps (59.94P)<br>250Mbps (50.00P)                             | 180P                           |
|                        |               |                          |              | 1920 x 1080                | 150Mbps (59.94i)<br>125Mbps (50.00i)                             | —                              |
|                        |               | Long GOP                 | 422<br>10bit | 4096 x 2160<br>3840 x 2160 | 250Mbps (59.94P/50.00P)<br>150Mbps (29.97P/25.00P/24.00P/23.98P) | 120P                           |
|                        |               |                          |              | 2048 x 1080<br>1920 x 1080 | 50Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)            | 180P                           |
|                        |               |                          |              | 1920 x 1080                | 50Mbps (59.94i/50.00i)                                           | —                              |
|                        |               |                          |              |                            |                                                                  |                                |



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| Main Recording Formats |                |                          |           |                            |                                                                     |                                   |
|------------------------|----------------|--------------------------|-----------|----------------------------|---------------------------------------------------------------------|-----------------------------------|
| Format                 | Codec          | Intra-frame/<br>Long GOP | Sampling  | Resolution                 | Max. Bit rate                                                       | Slow & Fast<br>Max. frame<br>rate |
| XF-HEVC S              | H.265/<br>HEVC | Intra-frame              | 422 10bit | 6912 x 4608                | 1620Mbps (29.97P)<br>1350Mbps (25.00P)                              | 30P                               |
|                        |                |                          |           |                            | 1730Mbps (24.00P/23.98P)                                            | 24P                               |
|                        |                | Long GOP                 | 422 10bit |                            | 486Mbps<br>(29.97P/25.00P/24.00P/23.98P)                            | 30P                               |
|                        |                |                          |           | 4096 x 2160<br>3840 x 2160 | 225Mbps (59.94P/50.00P)<br>135Mbps<br>(29.97P/25.00P/24.00P/23.98P) | 120P                              |
|                        |                |                          |           | 2048 x 1080<br>1920 x 1080 | 50Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00<br>P/23.98P)           | 180P                              |
|                        |                |                          | 420 10bit | 6912 x 4608                | 360Mbps<br>(29.97P/25.00P/24.00P/23.98P)                            | 30P                               |
|                        |                |                          |           | 4096 x 2160<br>3840 x 2160 | 150Mbps (59.94P/50.00P)<br>100Mbps<br>(29.97P/25.00P/24.00P/23.98P) | 120P                              |
|                        |                |                          |           | 2048 x 1080<br>1920 x 1080 | 35Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00<br>P/23.98P)           | 180P                              |
| XF-AVC S               | H.264/<br>AVC  | Intra-frame              | 422 10bit | 4096 x 2160<br>3840 x 2160 | 1200Mbps (59.94P)<br>1000Mbps (50.00P)                              | 120P                              |
|                        |                |                          |           | 2048 x 1080<br>1920 x 1080 | 300Mbps (59.94P)<br>250Mbps (50.00P)                                | 180P                              |
|                        |                | Long GOP                 | 422 10bit | 4096 x 2160<br>3840 x 2160 | 250Mbps (59.94P/50.00P)<br>150Mbps<br>(29.97P/25.00P/24.00P/23.98P) | 120P                              |
|                        |                |                          |           | 2048 x 1080<br>1920 x 1080 | 50Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00<br>P/23.98P)           | 180P                              |
|                        |                |                          | 420 8bit  | 4096 x 2160<br>3840 x 2160 | 150Mbps (59.94P/50.00P)<br>100Mbps<br>(29.97P/25.00P/24.00P/23.98P) | 120P                              |
|                        |                |                          |           | 2048 x 1080<br>1920 x 1080 | 35Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00<br>P/23.98P)           | 180P                              |

\*When 2K 120-180P is selected in Full-frame mode, the angle of view is cropped by approx. 12%.



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| Proxy/Cropped Recording Formats |            |                      |                     |                            |                                                                  |                             |
|---------------------------------|------------|----------------------|---------------------|----------------------------|------------------------------------------------------------------|-----------------------------|
| Format                          | Code c     | Intra-frame/Long GOP | Sampling            | Resoluti on                | Max. Bit rate                                                    | Slow & Fast Max. frame rate |
| XF-AVC                          | H.264/AVC  | Long GOP             | 420 8bit (Proxy)    | 2048 x 1080                | 35Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)               | 150P                        |
|                                 |            |                      |                     | 1920 x 1080                | 35Mbps (59.94P/59.94i/50.00P/50.00i/29.97P/25.00P/24.00P/23.98P) | —                           |
| XF-HEVC S                       | H.265/HEVC | Long GOP             | 420 8bit (Proxy)    | 2048 x 1080                | 16Mbps/9Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)         | 150P                        |
|                                 |            |                      |                     | 1920 x 1280                | 16Mbps/9Mbps (29.97P/25.00P/24.00P/23.98P)                       | 30P                         |
|                                 |            |                      |                     | 1920 x 1080                | 16Mbps/9Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)         | —                           |
|                                 |            |                      | 420 8bit (Proxy)    | 1280 x 720                 | 6Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)                | —                           |
|                                 |            |                      | 422 10bit (Cropped) | 1080 x 2048<br>1080 x 1920 | 50Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)               | —                           |
|                                 |            |                      |                     | 1080 x 1080                | 27Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)               | —                           |
|                                 |            |                      | 420 10bit (Cropped) | 1080 x 2048<br>1080 x 1920 | 35Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)               | —                           |
|                                 |            |                      |                     | 1080 x 1080                | 19Mbps (59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)               | —                           |
|                                 |            |                      |                     |                            |                                                                  |                             |
|                                 |            |                      |                     |                            |                                                                  |                             |

\*When 2K 120-180P is selected in Full-frame mode, the angle of view is cropped by approx. 12%.



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| SPECIFICATIONS

| Proxy/Cropped Recording Formats |               |                          |                        |                            |                                                             |                                                       |
|---------------------------------|---------------|--------------------------|------------------------|----------------------------|-------------------------------------------------------------|-------------------------------------------------------|
| Format                          | Codec         | Intra-frame/<br>Long GOP | Sampling               | Resolution                 | Max. Bit rate                                               | Slow & Fast<br>Max. frame rate                        |
| XF-AVC S                        | H.264/<br>AVC | Long GOP                 | 420 8bit<br>(Proxy)    | 2048 x 1080                | 16Mbps/9Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P) | 150P                                                  |
|                                 |               |                          |                        | 1920 x 1280                | 16Mbps/9Mbps<br>(29.97P/25.00P/24.00P/23.98P)               | 30P                                                   |
|                                 |               |                          |                        | 1920 x 1080                | 16Mbps/9Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P) | —                                                     |
|                                 |               |                          |                        | 1280 x 720                 | 6Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)        | —                                                     |
|                                 |               | Intra-frame              | 422 10bit<br>(Cropped) | 1080 x 2048<br>1080 x 1920 | 300Mbps(59.94P)<br>250Mbps(50.00P)                          | —                                                     |
|                                 |               |                          |                        | 1080 x 1080                | 159Mbps(59.94P)<br>133Mbps(50.00P)                          | —                                                     |
|                                 |               | Long GOP                 |                        | 1080 x 2048<br>1080 x 1920 | 50Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)       | —                                                     |
|                                 |               |                          |                        |                            | 1080 x 1080                                                 | 27Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P) |
|                                 |               |                          | 420 10bit<br>(Cropped) | 1080 x 2048<br>1080 x 1920 | 35Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)       | —                                                     |
|                                 |               |                          |                        | 1080 x 1080                | 19Mbps<br>(59.94P/50.00P/29.97P/25.00P/24.00P/23.98P)       | —                                                     |

\*When 2K 120-180P is selected in Full-frame mode, the angle of view is cropped at approx. 12%.



EOS C50

SPECIFICATIONS

| Still Image Mode |                            |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System           | Lens mount                 | RF mount                                                                                                                                                                                                                                                                                                                                                                                                           |
|                  | Sensor                     | 35mm full-frame CMOS sensor                                                                                                                                                                                                                                                                                                                                                                                        |
|                  | Number of pixels           | Total pixels: approx. 34.20 megapixels<br>Effective pixels: up to approx. 32.50 megapixels                                                                                                                                                                                                                                                                                                                         |
|                  | Formats                    | RAW, C-Raw, HEIF, JPEG                                                                                                                                                                                                                                                                                                                                                                                             |
|                  | Number of recording pixels | L (large): approx. 32.30 million (6960 × 4640) pixels<br>M (middle): approx. 15.40 million (4800 × 3200) pixels<br>S1 (small 1): approx. 8.10 million (3472 × 2320) pixels<br>S2 (small 2): approx. 3.80 million (2400 × 1600) pixels<br>RAW (raw): approx. 32.30 million (6960 × 4640) pixels<br>C-Raw: approx. 32.30 million (6960 × 4640) pixels<br>(figures are for when set to 3:2 aspect ratio (full-frame)) |
|                  | Vlewfinder                 | No                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                  | AF                         | Dual Pixel CMOS AF II                                                                                                                                                                                                                                                                                                                                                                                              |
|                  | Standard ISO sensitivity   | 100-64000 (50-102400 with extender)                                                                                                                                                                                                                                                                                                                                                                                |
|                  | Shutter format             | Electronic shutter                                                                                                                                                                                                                                                                                                                                                                                                 |
|                  | Shutter speed              | 1/6000 to 30 sec                                                                                                                                                                                                                                                                                                                                                                                                   |
|                  | In-body IS                 | No                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                  | Drive mode                 | Single shooting, High-speed continuous shooting+, High-speed continuous shooting, Low-speed continuous shooting, Self-timer: 10 sec., Self-timer: 2 sec., Self-timer: Continuous                                                                                                                                                                                                                                   |
|                  | Continuous shooting speed  | High-speed continuous shooting+: Up to approx. 40 shots/sec.<br>High-speed continuous shooting: Up to approx. 20 shots/sec.<br>Low-speed continuous shooting: Up to approx. 5.0 shots/sec.                                                                                                                                                                                                                         |
|                  | External flash             | No                                                                                                                                                                                                                                                                                                                                                                                                                 |



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