

EOS C700



Flexible, robust and highly capable primary 4K camera

A flexible, robust and highly capable primary 4K camera for drama, independent film and documentary that is configurable for multiple production workflows including support for HDR monitoring.



- Stunning internal 4K recording at up to 810Mbps/sec, up to 15 stops of latitude and high frame rates
- Supports SMPTE ST.2084 monitoring and ACES 1.0 plus internal ProRes / XF-AVC or optional external RAW recording
- Intuitive operation, accurate autofocus, built-in 10-stop ND, plus optional wired or wireless WiFi control
- Extensive lens support includes anamorphic, EF, PL, and B4; modular design with Shoulder Support Unit and EVF
- Robust construction, power outputs and powerful V-lock battery support, ideal for broadcast and movie industries

Product Range



EOS C700



EOS C500



EOS C300 Mark II

EOS C700 (incl. C700 PL and C700 GS PL)
EOS C500 (incl. C500 PL)
EOS C300 Mark II
EOS C300 (incl. C300 PL)
EOS C100 Mark II
EOS C100



Technical Specifications

CAMERA

IMAGE SENSOR

| | |
|------------------------------------|--|
| Sensor | Super 35mm type CMOS |
| System | RGB primary colour filter (Bayer array) |
| Total pixels per sensor | Approx. 11.54 megapixels (4622 x 2496) |
| Effective pixels per sensor | 4096 x 2160/2048 x 1080: Approx. 8.85 mp 3840 x 2160/1920 x 1080: Approx 8.29 mp |
| Dynamic Range | Canon Log 2/Canon Log 3: 1600% (ISO 800 or higher) With Canon Log/Wide DR: 800% (ISO 400 or higher) |

IMAGE PROCESSOR

| | |
|-------------|-------------------|
| Type | Triple DIGIC DV 5 |
|-------------|-------------------|

LENS

| | |
|---|--|
| Lens Mount | Canon EF Mount with Cinema Lock / PL Mount (Cooke / i Technology compatible) depending on version B4 mount lens via adapter accessory (EF or PL) |
| Lens Magnification factor (for EF Mount lenses, including Cinema Primes) | 4096 x 2160 or 2048 x 1080: focal length x approx. 1.46 3840 x 2160 or 1920 x 1080: focal length x approx. 1.534 B4 adapter attached: focal length x approx 1.3 (1.2947) (Full HD/1920 x 1080) PL Mount version: No magnification factor for Canon Cinema Zooms |
| Peripheral illumination correction | YES (dependent on lens used) |
| ND filter | Up to 10 stops via built in ND filter system |
| Focus control | EF Mount: Via lens, wireless control or wired remote (dependent on lens used) PL Mount: Only Cine Servo lenses |
| Iris control | Via body, grip, wireless control or wired remote. 1/2-stop, 1/3-stop or FINE control. Possible to maintain constant F-number during zoom. |
| Cooke / i Technology Support | No |
| Anamorphic Lens Support | Yes |
| Image stabilization system | Depends on lens used |

RECORDING

| | |
|--|--|
| RAW Recording options | 1. Capture Drive, CDX-36150: 4096 x 2160, 12bit/10bit, Canon Log 2 applied 2. External device via 3G-SDI: 4096 x 2160, 12bit/10bit, Canon Log 2 applied |
| Internal Recording | CFast 2.0™ card x 2 for XF-AVC or ProRes recording, SD card for XF-AVC Proxy recording |
| Recording time (64Gb CFast 2.0™ card) | XF-AVC - Intra: 810 Mbps, 10 Mins / 160 Mbps, 50 Mins. XF-AVC Long GOP 50Mbps: 165 Mins ProRes: TBC |
| Recording Formats | Canon RAW .RMF, XF-AVC Intra, XF-AVC Long GOP, XF-AVC Proxy ProRes, Apple Quick File Format 4444XQ/4444/422HQ/422 |
| Recording Frame Rate | 4K RAW: up to 60P (up to 120P to CDX-36150*). Max 240P (2K Cropped) 50P: 4096x2160/3840x2160: YCC422 10 bit, 810Mbps Intra-frame; 2048x1080/1920x1080: RGB444 12 bit 440Mbps Intra-frame, RGB444 10 bit 410Mbps Intra-frame, YCC422 10 bit 310Mbps Intra-frame, 50Mbps Long GOP 50i: 1920x1080 YCC422 10 bit 50Mbps Long GOP 25P: 4096x2160/3840x2160: YCC422 10 bit 410Mbps Intra-frame 2048x1080/1920x1080: RGB444 12 bit 225Mbps Intra-frame RGB444 10 bit 210Mbps Intra-frame, YCC422 10 bit 160Mbps Intra-frame 50Mbps Long GOP ProRes Recording Bit Rate/ Sampling (50Hz Mode) To CFast 2.0™ Card 50P/25P: 4096x2160/ 3840x2160: YCC422 10 bit ProRes422HQ 2048x1080/1920x1080: RGB444 12 bit ProRes444XQ /ProRes444 YCC422 10 bit: ProRes422HQ/ProRes422 XF-AVC Proxy Recording Bit Rate/ Sampling (50Hz Mode) To SD Card 50P: 2048x1080/1920x1080: YCC420 8 bit/35Mbps Long GOP 50i: 1920x1080: YCC420 8 bit/ 24Mbps Long GOP 25P: 2048x1080/1920x1080: YCC420 8 bit/ 24Mbps Long GOP |

| | |
|---|---|
| Slow/Fast motion | Yes. 1 - 240 FPS depending on setting |
| Interval Record | No |
| Frame Record | No |
| Pre Record (cache record) | No |
| Relay Recording | Yes |
| Double Slot (simultaneous) Recording | Yes |
| Scan Reverse | Yes |
| HD->SD conversion | No |
| Photo storage media | SD/SDHC memory card |
| Photo Recording Size | Approx. 930 KB at 2048x1080; Approx 880 KB at 1920x1080 |

SYSTEM

| | |
|---|---|
| Wave Form Monitor | Yes. Via MON.1/2, VIDEO or HDMI Terminals (Not available from SDI Out 1-4) Line Display/Line and Spot/Line Select/Field Display/RGBDisplay/YPrPb |
| False Colour Display (Exposure Indication) | Yes. Via MON.1/2, VIDEO or HDMI Terminals (Not available from SDI Out 1-4) |
| Colour Bars | SMPTE, EBU and ARIB color bars available. See the menu. |
| Peaking | Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable) |
| Zebra | Level 1; Level 2; Both Output via HD-SDI or HDMI |
| Markers | On/Off (Aspect ratio, Aspect marker, Safety Zone Area, Safety Zone, Grid, Horizontal, Centre) |
| EVF | |
| Built- In EVF | No |
| Optional EVF Accessory | Yes. OLED Electronic ViewFinder, EVF-V70 |

DISPLAY PANEL

| | |
|------------------------|---|
| Control Display | 3.0-inch (7.62cm on the diagonal) colour liquid crystal, approx. 1.036 million dots |
|------------------------|---|

INPUTS/OUTPUTS

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|----------------------------------|--|
| Audio in | XLR 3-pin connector x2 , 3.5 mm stereo mini jack (input only) |
| Headphone output | 3.5 mm stereo mini jack (output only) |
| Video monitor output | MON.1/MON.2: BNC jack , output only |
| HDMI | HDMI connector (type A) (output only) |
| USB | No |
| SDI output | BNC jack (4 lines, output only) |
| Time code | BNC jack (input/output) |
| Genlock | BNC jack (input only/also serves as SYNC OUT connector) |
| Synch | BNC jack (output only/also serves as GENLOCK connector) |
| Component out | No |
| AV terminal | No |
| DC Output | DC 24V 2A jack Fisher 3-pin jack (output only), DC 12V 2A jack LEMO 2-pin jack (output only) |
| DC input | XLR 4-pin jack |
| Remote Control Terminal | REMOTE A connector 2.5 mm stereo mini-mini jack (input only) REMOTE B connector Round 8-pin jack (for RS-422) |
| Wireless Control Terminal | Yes, for WFT-E6B, WFT-E8 |
| Lens terminal | 12-pin jack |
| Ethernet terminal | Ethernet connector (RJ45) (supports 1000 BASE-T) |
| CTRL terminal | Canon's proprietary specifications, LEMO 7-pin jack |
| Video connector (For EVF) | Canon's proprietary specifications (special 13-pin jack, output only) |

MISC

| | |
|--------------------|-----|
| Tally lamp | Yes |
| Custom Dial | Yes |

SHOOTING FUNCTIONS

| | |
|----------------------------------|--|
| EXPOSURE | |
| Exposure metering | Manual exposure determined by shutter setting, iris setting, ISO/gain setting and ND filter setting, Push Auto Iris, Auto Iris |
| Exposure compensation | Yes |
| Auto Exposure mode | Auto Iris |
| Push Auto Iris | Yes EF model all compatible lenses, PL Version compatible Canon Cine Servo lenses only |
| Exposure Lock | No |
| Auto Gain Control setting | Yes |

Technical Specifications

| | | | |
|---|--|---|---|
| ISO Sensitivity | 1-Stop Display: [100], 160(*), 200, 400, 800, 1600, 3200, 6400, 12800, 25600, [51200,102400] [---] Displayed when ISO speed expansion is ON. (*) Displayed when ISO speed expansion is OFF 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 speed expansion is ON. Dual Pixel CMOS AF, Contrast AF | Master Pedestal Master Black Black Gamma Low Key Saturation Knee Sharpness | -50 to +50 -50 to +50 for each channel, R,G,B Adjustable Level, Range and Point -50 to +50 adjusts colour level in low brightness area Adjusts over exposure characteristic, start, slope, saturation Adjustment for Level, H Detail Freq., Coring, HV Detail Balance, Limit, Select, Knee Aperture and Level dependent sharpness Off, On (1 to 12) Off, Low, Middle, High / Hue, Chroma, Area, Luminance. 32 steps Off, Low, Middle, High / Hue, Chroma, Area, Luminance. Phase, Gain and RGB adjustment, in tandem with Gamma selection -50 to +50 for R and B colours Area selection / area revision of two areas -50 to +50 On/Off Limits output to 100% after setup adjustment |
| Auto Focus System (EF Version Only) AF Frame Sizes (EF Version Only) | Large; size equivalent to approx. 20% (vertical) x 25% (horizontal) of the image display range Small; size equivalent to approx. 20% (vertical) x 8% (horizontal) of the image display range Selectable AF point over 80% (approx.) of sensor One-Shot AF, Continuous AF and AF-Boosted MF are the available modes. All of these modes take effect when the AF/MF switch of the EF lens is at the AF setting. One-Shot AF Continuous AF AF-Boosted MF Face Priority or Face Only. | Noise reduction Skin detail Selective Noise Reduction Colour matrix | |
| Auto Focus Modes (EF Version Only) | | White balance Colour correction Setup level Clip 100% IRE | |
| Face Detection AF (EF Version Only) Focus Guide | | | |
| Gain setting | EF version: All compatible Canon EF lenses, Canon Cine Servo Lenses PL Version: Compatible Canon Cine Servo lenses [-6dB,-3dB], -2dB(*), 0dB, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, 21dB, 24dB, 27dB, 30dB, 33dB, 36dB, 39dB, 42dB, [45dB,48dB,51dB,54dB] [---] Displayed when ISO speed expansion is ON. (*) Displayed when ISO speed expansion is OFF. When ISO speed expansion is ON: between -2 dB and 54 dB When ISO speed expansion is OFF: Any value from -2 dB to 42 dB in 0.5 dB increments can be set. | WI-FI & GPS SPECIFICATIONS GPS Information (Optional Accessory) | Latitude/Longitude/Elevation, Coordinated Universal Time (UTC) |
| SHUTTER SPEED Control Modes Shutter speed | Off; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS) 1/1 to 1/2000 depending on frame rate and Shutter Control Mode, 39 setting options | WHITE BALANCE Auto Preset | YES Daylight (5400K), Tungsten (3200K), Kelvin (2000K-15000K, 100K intervals), Set A, Set B YES. -9 to +9 (Daylight and Tungsten only) |
| Shutter Angle Slow Shutter (SLS) Clear Scan | 11.25° to 360° depending on frame rate 1/3, 1/4, 1/6, 1/8, 1/12, 1/15, 1/25, 1/30 depending on frame rate 24.00 Hz* to 250.40 Hz (* The frequency will differ depending on the frame rate setting. | White Balance Shift BLACK BALANCE Black balance adjustment | YES |
| CUSTOM PICTURE Stored Configurations | Preset: Canon Log 3 : C.Gamut (Canon Log 3/ Cinema Gamut/Neutral) Canon Log 3 : BT.2020 (Canon Log 3/ BT.2020 Gamut/Neutral) Canon Log 3 : DCI-P3 (Canon Log 3/ DCI-P3 Gamut/Neutral) Canon Log 3 : BT.709 (Canon Log 3/ BT.709 Gamut/Neutral) Canon Log 2 : C.Gamut (Canon Log 2/ Cinema Gamut/Neutral) Canon Log 2 : BT.2020 (Canon Log 2/ BT.2020 Gamut/Neutral) Canon Log 2 : DCI-P3 (Canon Log 2/ DCI-P3 Gamut/Neutral) Canon Log 2 : BT.709 (Canon Log 2/ BT.709 Gamut/Neutral) Canon Log (Canon Log / BT.709 Gamut/Cinema EOS Original) BT.2020 (Wide DR/BT.2020 Gamut/Neutral) BT.709 (Wide DR/ BT.709 Gamut/Neutral) | TIME CODE Countup system Start value setting | Regen, RecRun, FreeRun, External, Hold (Drop frame available for some frame rates) "00:00:00:00", Set/Reset selectable |
| Stored Configurations | Main Settings: Canon Log 3, Canon Log 2, Canon Log, Wide DR, Normal 1 (Standard), Normal 2 (x4.0), Normal 3 (BT.709), Normal 4 (x5.0) Colour Space: BT.709 Gamut, BT.2020 Gamut, DCI-P3 Gamut, Cinema Gamut Colour Matrix: Neutral, Production Camera, Cinema EOS Original, Video, Off | AUDIO Recording | Internal & Capture Drive recording: linear PCM 48 KHz, 24-bit, 4-ch RAW (SDI OUT): linear PCM 48 KHz, 16-bit, 2-ch Digital input available following two-channel (XLR), analog input, AES3 standards (48 kHz/24-bit/2-ch). |
| Storage Medium | SD/SDHC memory card (all customisation data and metadata), up to 20 Custom Pictures per card | ACCESSORIES Supplied Optional Third Party Accessories | Mic holder unit, Clamp base, Handle unit, Extension unit attachment fittings, Base legs x4, Allen key (1/4"), Allen key (M4), Reinforcing plate, Measuring hook x2, Lithium battery (CR2025) (including those not currently for sale) Canon Remote Controller RC-V100, Canon Wireless Transmitter WFT-E6 / WFT-E8, Canon GPS Receiver GP-E1, Canon Unit Cable UN-5/UN-10, Canon 8-pin Remote Cable RR-10 / RR-100, Canon B4 Mount Adapter MO-4E / MO-4P, Canon OLED Electronic View Finder EVF-V70, Canon Remote Operation Unit OU-700, Canon Shoulder Support Unit SU-15, Canon Shoulder Style Grip Unit SG-1, Canon Remote Operation Unit Cable UC-V75/UC-V1000 Codex CDX-36150 (Codex Recorder for EOS C700) IDX V-Mount battery |
| | | MISCELLANEOUS Operating Temperature range | Approx. 0 to 40°C, 85% (relative humidity) Approx. -5 to 45°C, 60% (relative humidity) |
| | | | * Firmware upgrades may be required to enable all camera features. Visit the Canon Support website for more information, or contact your local Canon representative. All specifications are subject to change without notice |
| | | | Note: Specifications above relate to the C700 and C700 PL models only |

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Sales Start Date: December 2016



Product Details:

| Product Name | Mercury Code | EAN Code |
|----------------|--------------|---------------|
| EOS C700 EF | 1454C003AA | 4549292067064 |
| EOS C700 PL | 1471C003AA | 4549292068054 |
| EOS C700 GS PL | 1789C003AA | 4549292081411 |

Optional Accessories:

| Product Name | Mercury Code | EAN Code |
|--------------------------------------|--------------|---------------|
| Shoulder Style Grip Unit SG-1 | 1754C001AA | 4549292080476 |
| OLED Electronic View Finder EVF-V70 | 1753C001AA | 4549292080469 |
| Shoulder Support Unit SU-15 | 1752C001AA | 4549292080483 |
| Remote Operation Unit OU-700 | 1755C001AA | 4549292080513 |
| Remote Operation Unit Cable UC-V75 | 1750C001AA | 4549292080490 |
| Remote Operation Unit Cable UC-V1000 | 1751C001AA | 4549292080506 |
| Unit cable 50cm | 0886C001AA | 4549292047950 |
| Unit cable 100cm | 0887C001AA | 4549292047967 |

Measurement / Logistic Information:

| Product Name | Mercury Code | Pack type | Pack description | Quantity per pack | Length (mm) | Width (mm) | Height (mm) | Net Weight (kg) | Gross Weight (kg) |
|----------------|--------------|-----------|------------------|-------------------|-------------|------------|-------------|-----------------|-------------------|
| EOS C700 EF | 1454C003AA | EA | Each | 1 | | | | | |
| EOS C700 PL | 1471C003AA | CT | Carton (Outer) | | | | | | |
| EOS C700 GS PL | 1789C003AA | EP | Euro Pallet | | | | | | |

What's in the box?

- EOS C700
- Body cap
- Handle unit
- Clamp base
- Microphone holder
- Bottom surface feet x 4
- Measuring hook x 2
- Extension unit attachment
- Hexagonal wrenches x 2
- Reinforcing plate
- Button battery

