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.









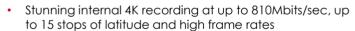












- Up to 4.5k* recording with optional CODEX recorder, at up to 100fps and 4.5K* cinescope up to 120fps
- Supports SMPTE ST.2084 monitoring and ACES 1.0 plus internal ProRes / XF-AVC or optional external RAW recording
- Intuitive operation, accurate autofocus, built-in 10-stop ND, plus optional wired 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



FOS 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



^{*} May require firmware update

EOS C700

Technical Specifications

CAMERA

IMAGE SENSOR

System Total pixels per sensor

Effective pixels per sensor

Dynamic Range

IMAGE PROCESSOR

IFNS Lens Mount

Lens Magnification factor (for EF Mount lenses including Cinema Primes)

Changeable Lens Mount Peripheral illumination correction ND filter

Iris control

Focus control

Cooke / I Technology Support Anamorphic Lens Support Image stabilization system Super 35mm type CMOS

RGB primary colour filter (Bever array) Approx. 11.54 megapixels (4622 x 2496) 4096 x 2160/2048 x 1080: Approx. 8.85 mp 3840 x 2160/1920 x 1080; Approx 8.29 mp

Canon Log 2/Canon Log 3: 1600% (ISO 800 or higher) With Canon Log/Wide DR: 800% (ISO 400 or higher)

Triple DIGIC DV 5

Canon EF Mount with Cinema Lock / PL Mount (Cooke / I Technology compatible)

depending on version

B4 mount lens via adapter accessory (EF or PL) 4096 x 2160 or 2048 x 1080: focal length x approx. 1.460 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)

EF and PL Mount version: No magnification factor for Canon Cinema 700ms

Yes, via Service Centre, FF to PL or PL to FF options.1 YES (dependent on lens used)

Up to 10 stops via built in ND filter system EF Mount: Via lens, wireless control or wired remote

(dependent on lens used)

PL Mount: Only Cine Servo lenses 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.

YES (PL Mount only)

Depends on lens used

RECORDING

Internal Recording

Recording Formats

Recording Frame Rate

XF-AVC Recording Bit

Rate/Samplina

To CFast 2.0™Card

(50Hz Mode)

RAW Recording options

1. Capture Drive, CDX-36150: 4096 x 2160, 12bit/10bit, Canon Log 2 applied 4.5K up to 100fps, 4.5K cinescope up to 120FPS, Crop 2K max 240 fps ProRes 422HQ, 4K /QFHD 10bit. 2K / FHD: ProRes 422 HQ 10 bit 120 fps, ProRes 4444 XQ 12

bit 60 fps. ProRes 4444 12 bit 60 fps

2. External device via 3G-SDI: 4096 x 2160, 12bit/10bit,

Canon Log 2 applied

CFast 2.0™ card x 2 for XF-AVC or Pro Res recording,

SD card for XF-AVC Proxy recording

SD card also used for Photo Storage (1920 x 1080) and firmware update, including firmware updates for CODEX

XF-AVC - Intra: 810 Mbps, 10 Mins 160 Mbps, 50 Mins. Recording time (64Gb CFast 2.0™card)

XF-AVC Long GOP 50Mbps: 165 Mins

ProRes: 4K,ProRes4322HQ 10Mins. 2K ProRes4444 25 Mins

Canon RAW .RMF, XF-AVC Intra, XF-AVC Long GOP.

XF-AVC Proxy

ProRes, Apple Quick File Format 4444XQ/4444/422HQ/422 4K RAW: up to 60P (up to 120P to CDX-36150*). Max 240P

(2K Cropped)

4096x2160/3840x2160: YCC42210 bit 2048x1080/1920x1080: RGB444 12 bit RGB444 10 bit YCC422 10 bit, 1920x1080; YCC422 10 bit 50Mbps Long GOP

4096 x2160/3840x2160: YCC422 10 bit 2048 x1080/1920x1080: RGB444 12 bit, RGB444 10 bit, YCC422 10 bit

Bit rates (depending on recording mode): 810/440/410/310/225/210/170/160/90Mbps Intra-frame 50 Mbps Long GOP

ProRes Recording Bit Rate/ Sampling (50Hz Mode)

XF-AVC Proxy Recording

Bit Rate/ Sampling

Interval Record

CODEX CDX-36150: 4K/QFHD: ProRes 422 HQ 10 bit 60 fps

2K/FHD: ProRes 422 HQ 10 bit 120 fps. ProRes 4444 XQ 12 bit 60 fps ProRes 4444 12 bit 60 fps.

Crop 2K/FHD: ProRes 422 HQ 10 bit 240 fps CFast 2.0™ Card: 4096x2160 YCC422 10bit/3840x

2160 YCC422 10bit 2048x1080 YCC422 10bit/1920x1080 YCC422 10bit 2048x1080 RGB444 12bit/1920x1080 RGB444 12bit

Rit rates: ProRes4444/ProRes422HQ /ProRes422 2048x1080 YCC420 8 bit/1920x1080 YCC420 8 bit

Bit Rate: 24/35Mbps Long GO

(50Hz Mode) To SD Card Yes. 1 - 240 FPS depending on setting Nο

Frame Record Nο Pre Record (cache record) Relay Recording Yes Double Slot (simultaneous) Yes Recording HD->SD conversion Nο

Photo storage media SD/SDHC memory card

Photo Recording Size Approx. 930 KB at 2048x1080; Approx 880 KB at 1920x1080

SYSTEM

Yes. Via MON.1/2, VIDEO or HDMI Terminals (Not available **Wave Form Monitor**

from SDI Out 1 -4)

Line Display/Line and Spot/Line Select/Field

Display/RGBDisplay/YPrPb

False Colour Display Yes. Via MON.1/2, VIDEO or HDMI Terminals (Exposure Indication)

(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)

Level 1; Level 2; Both

Output via HD-SDI or HDMI On/Off (Aspect ratio, Aspect marker, Safety Zone Area, Markers

Safety Zone, Grid, Horizontal, Centre)

Zebra

Built- In EVF

Optional FVF Accessory

Yes. OLFD Flectronic ViewFinder, EVF-V70

3.5 mm stereo mini jack (output only)

MON.1/MON.2: BNC jack, output only

HDMI connector (type A) (output only)

XLR 3-pin connector x2, 3.5 mm stereo mini jack (input only)

Control Display 3.0-inch (7.66cm on the diagonal) colour liquid crystal,

approx. 1.036 million dots

INPUTS/OUTPUTS

Audio in Headphone output

Video monitor output

HDMI

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

DC Output DC 24V 2A jack Fisher 3-pin jack (output only), DC 12V 2A jack LEMO 2-pin jack (output only)

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 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)



EOS C700

Technical Specifications

Tally lamp Yes Custom Dial

SHOOTING FUNCTIONS

Exposure metering

EXPOSURE

Exposure compensation Auto Exposure mode Push Auto Iris

Exposure Lock Auto Gain Control setting ISO Sensitivity

Auto Focus System (EF Version Only) AF Frame Sizes (EF Version Only)

Auto Focus Modes (EF Version Only)

Face Detection AF (EF Version Only) **Focus Guide**

Gain setting

SHUTTER SPEED

Control Modes Shutter speed

Shutter Angle Slow Shutter (SLS) Clear Scan

Manual exposure determined by shutter setting, iris setting, ISO/gain setting and ND filter setting, Push Auto Iris, Auto Iris

Yes Auto Iris

Yes EF model all compatible lenses, PL Version compatible

Nο

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

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.

EF version: All compatible Canon EF lenses, Canon Cine

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.

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

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

CUSTOM PICTURE

Preset: Stored Configurations

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 Loa 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)

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 Storage Medium

SD/SDHC memory card (all customisation data and metadata), up to 20 Custom Pictures per card

Master Pedestal -50 to +50

Master Black -50 to +50 for each channel . R.G.B. Black Gamma

-50 to +50 adjusts colour level in low brightness area Low Key Saturation Knee Adjusts over exposure characteristic, start, slope, saturation Sharpness Adjustment for Level, H Detail Freq., Coring, HV Detail

Balance, Limit, Select, Knee Aperture and Level

dependent sharpness

Off. On (1 to 12) Noise reduction

Skin detail Selective Noise Reduction

Colour matrix

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

-50 to +50 for R and B colours White balance

Area selection / area revision of two areas Colour correction

Setup level

Clip 100% IRE Limits output to 100% after setup adjustment

WI-FI & GPS SPECIFICATIONS

GPS Information (Optional Accessory) Latitude/Longitude/Elevation, Coordinated Universal Time

(UTC)

WHITE BALANCE

Auto

YES

Preset Daylight (5400K), Tungsten (3200K), Kelvin (2000K-15000K,

100K intervals), Set A, Set B YES. -9 to +9 (Daylight and Tungsten only)

White Balance Shift

BLACK BALANCE Black balance adjustment

YES



EOS C700

Technical Specifications

TIME CODE

Countup system Start value settina Regen, RecRun, FreeRun, External, Hold (Drop frame available for some frame rates)

"00:00:00:00", Set/Reset selectable

AUDIO

Recordina

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).

ACCESSORIES

Supplied

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)

Optional

(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-4F / 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)

Third Party Accessories

MISCELLANEOUS

Dimensions (Main Body Only)

Weight (Body Only)

(width x height x depth)

Approx. 167 x 154 x 327 mm (6.6 x 6.1 x 1.1 in)

PL model

Approx. 167 x 154 x 336 mm (6.6 x 6.1 x 1.1 in) EOS C700: Approx. 3440 g (7.6 lb)

EOS C700 PL: Approx. 3600 g (7.9 lb)

Weight (Accessories) Microphone holder unit: Approx. 80 g (2.8 oz.)/Clamp base:

Approx. 120 g (4.2 oz.)/

Handle unit: Approx. 260 g (9.2 oz.)/Extension unit attachment bracket Approx. 9 g (0.32oz.)/Reinforcing plate. Approx. 56 g (2.0 oz.)/EVF-V70: Approx. 830 g (1.8 lb)/SG-1: Approx. 565 g (1.2 lb)/SU-15: Approx.930 g (2.1 lb)/

OU-700: Approx. 375 g (13.2 oz.)/

UC-V75: Approx. 50 g (1.8 oz.)/ UC-V1000: Approx. 450 g (15.9 oz.)/UN-5 unit cable Approx. 80 g (2.8 oz.)

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

All specifications are subject to change without notice

Operating Temperature

* Firmware upgrades may be required to enable all camera features. Visit the Canon Support website for more information, or contact your local Canon representative.

Footnotes

ranae

Lens Mount Exchange is a payable option and must be carried out in a Canon Service Centre or Authorised Service Centre.

Users changing from PL to EF Mount option can also have Dual Pixel AF activated at the same time. Changing from EF to PL mount will result in the loss of Dual Pixel AF capability.

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**

Canon Inc. canon.com Canon Europe canon-europe.com English edition Canon Europa NV 2017

