EOS C700 FF

PRIMARY PRODUCTION CAMERA WITH 5.9K FULL FRAME CMOS SENSOR

Canon's newly developed Full Frame CMOS sensor offers low noise, wide colour gamut, and a wide dynamic range of 15-stops for a natural look and greater freedom when grading.

- 5.9K Full Frame CMOS Sensor
- 15-stops of dynamic range
- Various sensor modes including Full Frame, Super 35mm and Super 16mm
- Accurate and reliable Dual Pixel CMOS AF system with Canon EF mount
- Supports multiple recording formats including Canon Cinema RAW, ProRes and XF-AVC

FULL FRAME CMOS **HDR** High Dynamic Range **Dual Pixel CMOS AF**

ProRes **XF-AVC 4:2:2** Built-in **ND**

PRODUCT RANGE

EOS C700 FF

EOS C700 FF

EOS C700

EOS C700 PL

EOS C700 FF
EOS C700
EOS C700 PL
EOS C700 GS PL
EOS C300 Mark II
EOS C300 Mark II PL
EOS C300
EOS C300 PL
EOS C200
EOS C100 Mark II
EOS C100

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TECHNICAL SPECIFICATIONS

EOS C700 FF

CAMERA
IMAGE SENSOR

Sensor	Full Frame CMOS sensor
System	RGB primary colour filter (Bayer array)
Sensor Modes	Full Frame / Super 35 mm (Crop) / Super 16 mm (Crop)
Effective Pixels (Full Frame Mode)	Approx. 18.69 megapixels (5952 x 3140): When 4096 x 2160 or 2048 x 1080 is selected as the resolution Approx. 17.52 megapixels (5580 x 3140): When 3840 x 2160 or 1920 x 1080 is selected as the resolution
Effective Sensor Screen Size	38.1 x 20.1 mm (43.1 mm on the diagonal): When 4096 x 2160 or 2048 x 1080 is selected as the resolution 35.7 x 20.1 mm (41.0 mm on the diagonal): When 3840 x 2160 or 1920 x 1080 is selected as the resolution
Dynamic Range	Canon Log 2 in Excess of 15 Stops (TBC) / Canon Log 3: 1600% (ISO 800 or higher) With Canon Log/Wide DR: 800% (ISO 400 or higher)
Interchangeable Sensor Block	Yes, Via service Centre

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)	Full Frame: 4096 x 2160/2048 x 1080: Nil 3840 x 2160/1920 x 1080: X 1.06 Super 35MM (Crop): 4096 x 2160/2048 x 1080: X 1.46 3840 x 2160/1920 x 1080: X1.53 Super 16mm (Crop): 4096 x 2160/2048 x 1080: X 2.92 3840 x 2160/1920 x 1080: X 3.07
Changeable Lens Mount	Yes, via Service Centre. EF to PL or PL to EF options.[1]
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	Yes (PL Mount only)
Anamorphic Lens Support	Yes
Image stabilization system	Depends on lens used

RECORDING

RAW Recording options	Codex Drive: 59.94P/50.00P. 5952x3140/5952x2532:10bit 4096x2160/2048x1080:12bit 29.97P/23.98P/25.00P/24.00P. 5952x3140/5952x2532/4096x2160/2048x1080:12bit External Recorder via SDI: 59.94P/29.97P/23.98P/50.00P/25.00P/24.00P 4096x2160:10bit
Internal Recording	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 CDX-36150

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: 4K,ProRes4322HQ 10Mins. 2K ProRes4444 25 Mins (25.00P)
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	Depending on Recording Mode
XF-AVC Recording Bit Rate/ Sampling (50Hz Mode) To CFast 2.0 Card	4096x2160 YCC422 10 bit/3840x2160 YCC422 10 bit 2048x1080 YCC422 10 bit/1920x1080 YCC422 10 bit 2048x1080 RGB444 12 bit/1920x1080 RGB444 12 bit 2048x1080 RGB444 10 bit/1920x1080 RGB444 10 bit Bit Rates: 810/440/410/310/225/210/170/160/ 90 Mbps Intra-frame 50 Mbps Long GOP depending on Recording Mode
ProRes Recording Bit Rate/ Sampling (50Hz Mode) Max Frame Rate Capture Drive or CFast card.	CFast 2.0™ or CDX-36150: Full Frame Super 35mm (Crop) 4K/UHD ProRes 422HQ 10bit 30 FPS 2K/FHD ProRes 422HQ 10bit 60 FPS,ProRes 4444 12bit 60 FPS Super 16mm (Crop) 2K/FHD ProRes 422HQ/ ProRes 422 10bit 168 FPS CDX-36150 Full Frame Super 35mm (Crop) 4K/UHD ProRes 422HQ 10bit 60 FPS 2K/FHD ProRes 4444XQ 12bit 60 FPS Super 35mm (Crop) 2K/FHD ProRes 422HQ 10bit 72 FPS
XF-AVC Proxy Recording Bit Rate/ Sampling (50Hz Mode) To SD Card	2048x1080 YCC420 8 bit/1920x1080 YCC420 8 bit Bit Rate: 24/35Mbps Long GOP
Slow/Fast motion	Yes. 1 -168 FPS, depending on shooting mode/resolution.168 FPS available
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/RGB Display/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 (7.66cm on the diagonal) colour liquid crystal, approx. 1.036 million dots

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TECHNICAL SPECIFICATIONS

EOS C700 FF

INPUTS/OUTPUTS	
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
User Viewing LUT input	YES
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	Autro 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
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.
Auto Focus System (EF Version Only)	Dual Pixel CMOS AF, Contrast AF
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
Auto Focus Modes (EF Version Only)	One-Shot AF, Continuous AF and AF-Boosted MF. All 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 Detection AF (EF Version Only)	Face Priority or Face Only.

Focus Guide	EF version: All compatible Canon EF lenses, Canon Cine Servo Lenses PL Version: Compatible Canon Cine Servo lenses
Gain setting	[-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.

SHUTTER SPEED

Control Modes	Off; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS)
Shutter speed	1/1 to 1/2000 depending on frame rate and Shutter Control Mode, 39 setting options
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	24.00 Hz* to 250.40 Hz (*) The frequency will differ depending on the frame rate setting.

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) 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 HLG Support
Storage Medium	HDMI connector (type A) (output only)
Master Pedestal	-50 to +50
Master Black	-50 to +50 for each channel , R,G,B
Black Gamma	Adjustable Level, Range and Point
Low Key Saturation	-50 to +50 adjusts colour level in low brightness area
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
Noise reduction	Off, On (1 to 12)
Skin detail	Off, Low, Middle, High / Hue, Chroma, Area, Luminance. 32 steps
Selective Noise Reduction	Off, Low, Middle, High / Hue, Chroma, Area, Luminance.
Colour matrix	Phase, Gain and RGB adjustment, in tandem with Gamma selection
White balance	AWB, USER setting 01(setting range: 2000K to 15000K/ -20CC to +20CC), daylight, tungsten, settings (A/B)
Colour correction	Area selection / area revision of two areas
Setup level	-50 to +50 On/Off
Clip 100% IRE	Limits output to 100% after setup adjustment

TECHNICAL SPECIFICATIONS

EOS C700 FF

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
White Balance Matching	Yes, for previous models
White Balance Shift	YES. -9 to +9 (Daylight and Tungsten only)

BLACK BALANCE

Black balance adjustment	YES

TIME CODE

Countup system	Regen, RecRun, FreeRun, External, Hold (Drop frame available for some frame rates)
Start value setting	"00:00:00:00", Set/Reset selectable

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 (48kHz/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-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
Third Party Accessories	Codex CDX-36150 IDX V-Mount battery

MISCELLANEOUS

Dimensions (Main Body Only)	(width x height x depth) EF model 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)
Weight (Body Only)	EOS C700 FF EF: Approx. 3440 g (7.6 lb) EOS C700 FF PL: Approx. 3615 g (8.0 lb) Both STC
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.)
Operating Temperature range	Approx. 0 to 40°C, (85% relative humidity) Approx. -5 to 45°C, (60% relative humidity)

* All specifications are subject to change without notice
* Canon is an authorised licensee of the CFast 2.0™ trademark, which may be registered in various jurisdictions.

Footnotes

[1] 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. No AF available on GS model even after mount change to EF. Changing from EF to PL mount will result in the loss of Dual Pixel AF capability.

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EOS C700 FF

Canon's newly developed Full Frame CMOS sensor offers low noise, wide colour gamut, and a wide dynamic range of 15-stops for a natural look and greater freedom when grading.

Sales Start Date: August 2018

PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code
EOS C700 FF	3042C003AA	4549292118346
EOS C700 FF PL	3043C003AA	4549292118377

OPTIONAL ACCESSORIES:

Product Name	Mercury Code	EAN Code
RAW Recorder		
CODEX C700 RECORDER MODULE (V-Lock)	3165V705	8714574652283
CODEX C700 RECORDER MODULE (Anton Bauer)	3165V706	8714574652290
EVF		
EVF-V70	1753C001AA	4549292080469
Cables for EVF		
UN-5 (50cm)	0886C001AA	4549292047950
UN-10(100cm)	0887C001AA	4549292047967
Remote Operation Unit		
OU-700	1755C001AA	4549292080513
Cables for Remote Operation Unit		
UC-V75	1750C001AA	4549292080490
UC-V1000	1751C001AA	4549292080506
Shoulder Support Unit		
SU-15	1752C001AA	4549292080483
Shoulder -style grip unit		
SG-1	1754C001AA	4549292080476
B4 Mount adapter		
MO-4E (for EF mount)	1788C001AA	4549292081398
MO-4E (for PL mount)	1788C002AA	4549292081855
Remote Controller		
REMOTE CONTROLLER RC-V100	9660B001AB	4549292014013
RR-10 (10m) Cable	1185C001AA	4549292061703
RR-100 (100m) Cable	1186C001AA	4549292061710
Wireless File Transmitter		
WFT-E8B (EU8)	1173C007AA	4549292066487
GPS Receiver		
GP-E1	6364B001AA	4960999848808

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Measurement / Logistic Information:

Product Name	Mercury Code	Pack type	Pack description	Quantity per pack	Length (cm)	Width (cm)	Height (cm)	Gross Weight (kg)
EOS C700 FF	3042C003AA	EA	Each	1	47	36	37	7.8
EOS C700 FF PL	3043C003AA	CT	Carton	1	47	36	37	7.8
		EP	Euro Pallet					
			Layers per Pallet					
			Cartons per Layer					
			Products per layer					

What's in the box?

- Cinema EOS C700 FF body
- Body cap
- Microphone holder unit
- Clamp base
- Handle unit
- Extension unit attachment bracket

- Base feet x 4
- Allen keys (1/4-inch, M4)
- Reinforcing plate
- Measuring hook x 2
- Screws
- Lithium battery (CR2025)

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