

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



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

Canon

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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
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)
Yes, Via service Centre

Dynamic Range

Interchangeable Sensor Block

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
Yes, via Service Centre. EF to PL or PL to EF options.[†]

Changeable Lens Mount

Peripheral Illumination correction

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.
Yes (PL Mount only)

Cooke /i Technology Support

Anamorphic Lens Support

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)

Recording Formats

Recording Frame Rate

XF-AVC Recording Bit Rate/ Sampling (50Hz Mode) To 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)

Canon RAW .RMF, XF-AVC Intra, XF-AVC Long GOP, XF-AVC Proxy ProRes, Apple Quick File Format 4444XQ/4444/422HQ/422

Depending on Recording Mode

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

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

2048x1080 YCC420 8 bit/1920x1080 YCC420 8 bit
Bit Rate: 24/35Mbps Long GOP

Yes, 1 -168 FPS, depending on shooting mode/resolution. 168 FPS available

No

No

No

Yes

Yes

Yes

No

SD/SDHC memory card

Approx. 930 KB at 2048x1080; Approx 880 KB at 1920x1080

XF-AVC Proxy Recording Bit Rate/ Sampling (50Hz Mode) To SD Card Slow/Fast motion

Interval Record

Frame Record

Pre Record (cache record)

Relay Recording

Double Slot (simultaneous)

Recording

Scan Reverse

HD->SD conversion

Photo storage media

Photo Recording Size

SYSTEM

Wave Form Monitor

False Colour Display (Exposure Indication) Colour Bars

Peaking

Zebra

Markers

EVF

Built- In EVF

Optional EVF Accessory

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) 3.5 mm stereo mini jack (output only)
Headphone output	MON.1/MON.2: BNC jack , output only
Video monitor output	HDMI connector (type A) (output only)
HDMI	No
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) Yes, for WFT-E6B, WFT-E8
Wireless Control Terminal	12-pin jack
Lens terminal	Ethernet connector (RJ45) (supports 1000 BASE-T)
Ethernet terminal	Canon's proprietary specifications, LEMO 7-pin jack
CTRL terminal	YES
User Viewing LUT input	Canon's proprietary specifications (special 13-pin jack, output only)
Video connector (For EVF)	
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
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
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
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

Gain setting

SHUTTER SPEED

Control Modes

Shutter speed

Shutter Angle

Slow Shutter (SLS)

Clear Scan

CUSTOM PICTURE

Stored Configurations

Storage Medium

Master Pedestal

Master Black

Black Gamma

Low Key Saturation

Knee

Sharpness

Noise reduction

Skin detail

Selective Noise Reduction

Colour matrix

White balance

Colour correction

Setup level

Clip 100% IRE

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.

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.

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
HDMI connector (type A) (output only)
-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
AWB, USER setting 01 (setting range: 2000K to 15000K/ -20CC to +20CC), daylight, tungsten, settings (A/B)
Area selection / area revision of two areas
-50 to +50 On/Off
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
Yes, for previous models

White Balance Matching

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 (0.32 oz.) / 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)

Operating Temperature range

* 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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Canon Inc.
canon.com
Canon Europe
canon-europe.com
English edition
Canon Europa NV 2018

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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

EOS C700 FF



PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
EOS C700 FF	3042C003AA	4549292118346	<Please fill in RRP>
EOS C700 FF PL	3043C003AA	4549292118377	<Please fill in RRP>

OPTIONAL ACCESSORIES:

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

Canon

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EOS C700 FF



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)

