EOS C700 FF

CINEMA EOS SYSTEM

4K

EOS C700 FF

5.9K Full Frame CMOS Sensor

The EOS C700 FF features a 38.1 x 20.1 mm full frame sensor developed for top-end cinema cameras. It supports readout at full size, as well as Super 35mm and anamorphic modes. Using the dedicated CODEX CDX-36150, the EOS C700 FF can record 5.9K 12/10-bit RAW, with 4K and 2K RAW 12-bit options available, as well as shooting ProRes 4K.

New Sensor Technology & Recording Modes

Filmmakers can capture filmic images with unprecedented low noise, and a broad ranging tonality that exceeds 15-stops of dynamic range. The new sensor allows for various senor modes including full frame, Super 35mm and Super 16mm, while recording in a wide range of versatile formats including ProRes, XF-AVC (internally to CFast cards) and Canon's uncompressed Cinema RAW.

Multiple Lens Options

The C700 FF is available in both EF lock and PL mount, compatible with Canon's extensive range of EF series and Cinema lenses

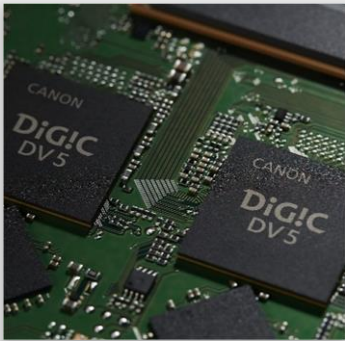*no one sees it like you*

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REDEFINE WHAT YOU THOUGHT POSSIBLE

5.9K Full Frame

The C700 FF features a 38.1 x 20.1mm full-frame sensor that has been newly developed for top-end cinema cameras.

DiG!C DV 5

Three DIGIC DV5 image processors boasting high data processing power while suppressing noise has been adopted. This dramatically reduces noise at high ISOs and produces clearer details

XF-AVC ProRes

In addition to Canon's exclusive XF-AVC, the C700 FF offers standard support for the highly versatile Apple ProRes format.

5.9K RAW
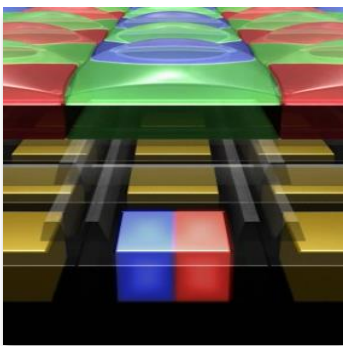### 60P/50P

The C700 FF adds support for 60P/50P Cinema RAW with a resolution of 5952 x 3140 via the dockable Codex Recorder CDX-36150

60fps **5.9K RAW**
72fps **4K(Crop)**
168fps **2K(Crop)**

The C700FF supports high-speed shooting, It supports detailed settings from 1fps to up to 168fps (2K crop) for greater emotion in visual expression.
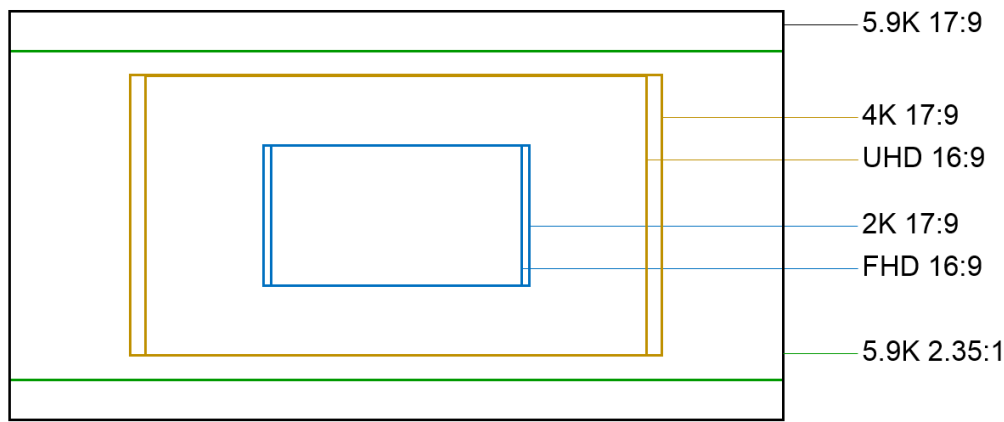
Dual Pixel CMOS AF

Ground-breaking AF technology that uses a CMOS sensor with a construction that combines the functions of both imaging and phase difference AF.

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New full-frame CMOS Sensor

- 5.9K 17:9
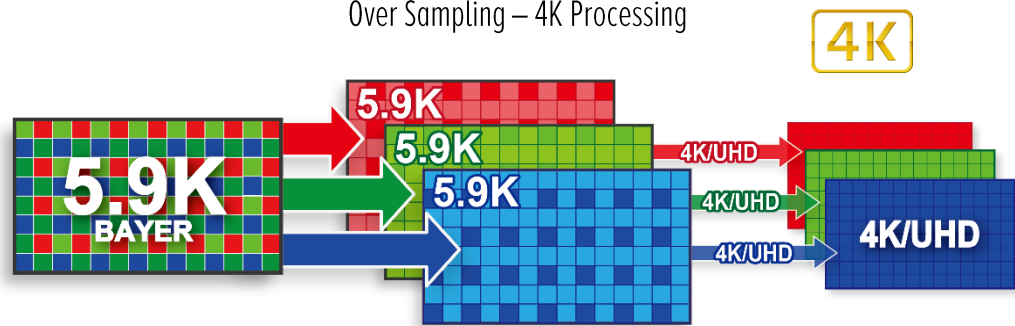- 4K 17:9
- UHD 16:9
- 2K 17:9
- FHD 16:9
- 5.9K 2.35:1

The full-frame sensor supports readout at full size, as well as Super 35mm and anamorphic modes. In addition to full-frame lenses, it can be used with conventional Super 35mm lenses

Codex Recorder CDX-35150

Collaboration with Codex, the biggest name in the "A" camera market, to develop a dockable RAW recorder that fits on the cinema camera. It uses Codex media, applications and workflow, and can output Canon Cinema RAW RMF files. It also supports 5.9K 60fps RAW

Over Sampling – 4K Processing

4K

5.9K BAYER → 5.9K → 4K/UHD

The C700 FF utilizes the rich expressive power of 5.9K in 4K/UHD recording to meet a wider array of image production needs.

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Flexible Shooting Possible

The optional remote operation unit (OU-700) enables wired remote operation to make work easier for assistants in charge of camera settings or triggering.

Industry Standard IU Design

The industry-standard GUI is simple and intuitive. It can be used independently regardless of EVF operations (camera direct).

Wide-ranging Inputs and Outputs

The C700 supports both 12V DC output and the more powerful 24V DC output. The RS422 features long-distance transmission and simultaneous multi-key operation.

On-board Features to Meet EFP Needs

IP streaming is supported allowing users to stream video online in real time as they shoot.
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SUPPORTS MULTIPLE OPTIONAL ACCESSORIES FOR VARIOUS APPLICATIONS

OLED Viewfinder EVF-V70

This newly-developed EVF offers industry-standard operability and quality worthy of a top-end cinema camera.

Shoulder Support Unit SU-15

This official Canon shoulder rig is designed for better balance and comfort when shooting from the shoulder

Remote Operation Unit OU-700

Ideal for a multi-member team, the remote unit can be attached or detached from the right side of the body.

Shoulder-Style Grip Unit SG-1

The grip supports 12-pin lens connector to enable power supply from the main body. Set REC, zoom, and iris/aperture easily from right in front of you.

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Technical Specifications

ProductName		EOS C700 FF EOS C700 FF PL
Image Sensing Device	Sensor modes	Full Frame / Super 35 mm (Crop) / Super 16 mm (Crop)
	Effective Pixels	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
	Sensor	C700: CMOS Sensor with DAF Technology C700 PL: CMOS Sensor
Lens Mount		C700: EF mount (cinema lock type) C700 PL: PL mount
Exposure	Exposure Mode	(1) Manual exposure based on shutter setting, iris setting, ISO/gain setting, and ND filter setting (2) Push auto iris control (Light metering system selection, shift possible)
	Shutter Setting	Speed, Angle, Clear Scan, Slow, or Off mode Either 1/3 or 1/4 steps selected as speed increment
	Iris Setting	1/2-stop, 1/3-stop or fine setting selected (1) Push auto iris control (2) Auto iris control

Lenses that support Auto Iris:

EF Lenses

EF-S 18-135mm f/3.5-5.6 IS STM	EF-S 18-55mm f/3.5-5.6 IS STM	EF-S 55-250mm f/4-5.6 IS STM
EF-S 10-18mm f/4.5-5.6 IS STM	EF 24-105mm f/3.5-5.6 IS STM	
	EF-S 18-135mm f/3.5-5.6 IS USM	

CINE-SERVO Lenses

CN7×17 KAS S/E1	CN20×50 IAS H/E1	CN-E18-80mm T4.4 L IS KAS S
CN7×17 KAS S/P1	CN20×50 IAS H/P1	

ENG Broadcast Lenses
2/3" mount lenses which allow for 12-pin communication using B4 mount

HJ14ex4.3B IASES	HJ18ex7.6B IASES	HJ24ex7.5B IASES
HJ17ex7.6B IASES	HJ22ex7.6B IASES	

	ISO	1 step, 1/3 step settings [*100 - 160 - 25600 - *102400] • When the sensitivity is expanded Normal [*-6 dB - -2 dB - 42 dB - *54 dB] Fine: Setting in 0.5 dB step increments possible. * When the sensitivity is expanded
	ND Filter	5 density settings (2, 4, 6, 8*, 10* stops) *when expansion is selected

main body included accessories

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Focus Control		Dual Pixel CMOS AF support (C700 FF) Manual Focus, One-Shot AF, continuous AF, AF-Boosted MF, Face Detection AF Lenses must support AF
Control Display		3.0-inch (7.66cm on the diagonal) color liquid crystal Approximately 1.036 million dots
Viewfinder		Optional OLED Electronic View Finder (EVF-V70) sold separately
White Balance		AWB, kelvin setting (setting range: 2000K to 15000K/ -20CC to +20CC), daylight, tungsten, settings (A/B)
System Frequency Selection	Frame Rate	59.94 Hz, 50.00 Hz, 24.00 Hz 59.94 Hz mode: 59.94i/59.94P/29.97P/23.98P 50.00 Hz mode: 50.00i/50.00P/25.00P 24.00 Hz mode: 24.00P
Recording Media	CFast Card (2 slots)	Movie recording (XF-AVC/ProRes), custom pictures, metadata recording
	SD Card	Records movies (XF-AVC (proxy), photos (JPEG), custom pictures, metadata, menus and other data
	Codex Capture Drive	Video (RAW) (Available with Codex Recorder Attached to C700)
Compression Formats	Video	(1) XF-AVC/ MPEG-4 AVC/H.264 (2) ProRes/ Apple ProRes Codec (3) RAW / Uncompressed
	Audio	Linear PCM (24 bit- 48kHz) 4-Channel Recording
XF-AVC	Resolution/Sampling	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 Rate	810/440/410/310/225/210/170/160/ 90Mbps Intra-frame 50 Mbps Long GOP
ProRes	Resolution/Sampling	4096x2160 YCC422 10bit/3840x2160 YCC422 10bit 2048x1080 YCC422 10bit/1920x1080 YCC422 10bit 2048x1080 RGB444 12bit/1920x1080 RGB444 12bit
	Bit Rate	Prores4444/ProRes422HQ /ProRes422
XF-AVC (proxy)	Resolution/Sampling	2048x1080 YCC420 8 bit/1920x1080 YCC420 8 bit
	Bit Rate	24/35Mbps Long GOP
RAW	Bit Depth	12/10 bit
	Resolution	5952x3140/5952x2532/4096x2160 (cropped)/ 2048x1080 (cropped)/2048x1080 (cropped)
Time Code	Count-Up	Drop frame* or non-drop frame *Only in the 59.94 Hz mode
	Operation Mode	Rec run, free run, regeneration
	Gamma	Canon Log 3 / Canon Log 2 / Canon Log / Wide DR / etc.
	Color Space	Cinema Gamut / BT.2020 Gamut /DCI-P3 Gamut/BT.709 Gamut
	LUT	BT.709 / BT.2020/ DCI/ ACESproxy/HDR-ST2084 and others
Others		Slow & Fast motion recording (max. 168 fps supported), relay recording, double slot recording, custom picture settings, color bar, peaking display, zebra display, My Menu settings, waveform monitor display, custom function, assignable buttons, key lock, marker displays, enlarged display, custom display, Control via Browser Remote, peripheral illumination correction, monaural microphone, fan control, correction of chromatic aberration of magnification, geotagging, and other functions.
Playback	Playback Operations	Normal playback, frame forward, frame reverse,
	Clip Display	List display of clip file names
	Clip Information Display	Clip metadata display, custom picture data display
	Edit	Clip deletion
Terminal	Input	GENLOCK terminal (also serves as SYNC OUT terminal), TIME CODE terminal (input/output switching), REMOTE terminals (A/B), MIC jack, INPUT terminal (XLR: 2 sets)
	Output	MON. (1/2) terminals, SDI-OUT terminal (4 sets), HDMI OUT terminal, headphones jack, SYNC OUT terminal (also serves as GENLOCK terminal), TIME CODE terminal (input/output switching), VIDEO terminal
	Input/Output Control	LENS terminal, Ethernet terminal, CTRL terminal
Power Supply	Input	DC IN 12V jack (XLR 4-pin jack)
	Output	DC 24V 2A/DC 12V 2A terminal/D-TAP terminal
Image Processing Platform		Triple DiGiC DV 5
Related Accessories		RC-V100, WFT-E6A,WFT-E8A, GP-E1, UN-5/UN-10, EVF-V70, OU-700, SU-15, SG-1, UC-V75, UC-V1000, MO-4E / MO-4P (1) Codex CDX-36150 (Codex Recorder for Canon C700 FF) / Removable Capture Drive for CDX-36150
IP Streaming		Streams video to decoder transmission device or computer over the network.
	Bit rate/Resolution/ Frame Rate	9Mbps/4Mbps: 1920x1080 [59.94i/50.00i] 2Mbps: 1280x720 [29.97P/25.00P] 1.5Mbps: 720x480(/579)/[59.94i/50.00i]
	Audio	MPEG-2 ACC-LC
	Audio Rate	256KBbps
	Transfer Media	Wi-Fi / Ethernet
	Protocols	UDP, RTP, RTP + FEC, RTSP + RTP
	Error Correction	FEC

Technical Specifications

Wi-Fi SPECIFICATIONS (With Optional WFT Unit)	
Standards	IEEE 802.11b/g/n (2.4 GHz band), IEEE 802.11a/n (5 GHz band)
Transmission Frequencies and Channels	IEEE 802.11b/g/n (2.4 GHz band), 2412-2462MHz, 1-11ch (US, Canada, Korea, Taiwan, Philippines, Mexico, Saint Pierre, Miquelon, Brazil) 2412-2472 MHz, 1-13ch (in countries other than the ones listed above) IEEE 802.11n/11a (5 GHz band): Differs depending on the model's destination.
Wi-Fi Setup Method	(1) WPS [Wi-Fi Protected Setup] (push-button system, PIN code system) (2) Manual Setup (3) Search for Access Points
Authenticatin Systems	Open system, WPA-PSK, WPA2-PSK
Encryption	WEP-64, WEP-128, TKIP, AES
Dimensions (W x H x D)	C700 FF: Approx. 6.6 x 6.1 x 12.9 in (167 x 154 x 327mm) C700 FF PL: Approx. 6.6 x 6.1 x 13.2 in (167 x 154 x 336mm)
Weight	C700 FF: Approx. 3440 g (7.6 lb) C700 FF PL: Approx. 3600 g (7.9 lb)

For more information visit
canon.com.au
canon.co.nz

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