EOS C70

WELCOME TO A NEW AGE OF FILMMAKING

The EOS C70 is a new generation RF Mount Cinema EOS camera with a Super 35mm DGO 4K sensor designed to bridge DILC and Cinema Cameras.

- First RF Mount Cinema EOS Camera

- 4K Super 35mm DGO Sensor

- High Dynamic Range with 16+ Stops

- High Frame Rate recording up to 4K 120fps

- Dual SD card slots supporting simultaneous recording & multiple formats

- Improved Dual Pixel CMOS AF with EOS iTR AF X (Intelligent Tracking & Recognition)

- Professional I/O Terminals

- Compatible with Mount Adapter EF-EOS R 0.71x to utilise Canon EF mount lenses

4K | **DGO** Dual Gain Output | **RF** LENS

MP4 | **SD XC** | **HDR**

PRODUCT RANGE

EOS C300 Mark III   **EOS C70**

EOS C200

EOS C100 Mark II

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MOUNT ADAPTER EF-EOS R 0.71x

ADAPT AND CREATE

The MOUNT ADAPTER EF-EOS R 0.71x is an EF to RF Mount Lens Adapter that maintains the original angle of view of a full frame EF lens when used on the EOS C70. It also increases the light transmission, to offer a one-stop brighter image.

- Adapt EF lenses to RF mount cameras

- Maintain full frame angle of view

- One stop brighter image

- Superior communication between lens and body

- No compromise construction

PRODUCT RANGE

MOUNT ADAPTER
EF-EOS R

**MOUNT ADAPTER
EF-EOS R 0.71x**

MOUNT ADAPTER
EF - EOS R Control Ring

MOUNT ADAPTER
EF - EOS R Drop-in Filter

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TECHNICAL SPECIFICATIONS

EOS C70

CAMERA	
Image Sensor	
Sensor	Super 35mm Dual Gain Output (DGO) sensor
System	RGB primary colour filter (Bayer array)
Sensor Modes	Super 35 mm / Super 16 mm (Crop)
Total Pixels	Approx. 9.6 megapixels (4206 x 2280)
Effective Pixels	Approx. 8.85 megapixels (4096 x 2160): When 4096 x 2160 or 2048 x 1080 is selected as the resolution Approx. 8.29 megapixels (3840 x 2160): When 3840 x 2160 or 1920 x 1080 is selected as the resolution
Effective Sensor Screen Size	Super 35 mm; 26.2 x 13.8 mm (29.6 mm on the diagonal): When 4096 x 2160 or 2048 x 1080 is selected as the resolution 24.6 x 13.8 mm (28.2 mm on the diagonal): When 3840 x 2160 or 1920 x 1080 is selected as the resolution
Dynamic Range	Canon Log 2: 1600% / 16+ stops** Canon Log 3: 1600% / 14 stops** Wide DR: 800% (at ISO 400) **At ISO800 / Dual Gain Output: On
Image Processor	
Type	DIGIC DV7
Lens	
Lens Mount	Canon RF mount Compatible lenses: All RF lenses and all EF lenses (includes EF-S lenses/EF cinema lenses) (*EF lenses are compatible with EF - EOS R Mount Adapter accessories)
Lens Magnification factor (for EF Mount lenses, including Cinema Primes)	Super 35 mm; 4096 x 2160, or 2048 x 1080 resolution: Actual focal length x approx. 1.460 3840 x 2160, or 1920 x 1080 resolution: Actual focal length x approx. 1.534 Super 16 mm (Cropped); 2048 x 1080 resolution: Actual focal length x approx. 2.920 1920 x 1080 resolution: Actual focal length x approx. 3.069 If using Canon Mount Adapter EF-EOS R 0.71 X Adapter there is no change to effective focal length
Peripheral illumination correction	Yes
Chromatic aberration correction	Yes
Distortion correction	Yes, RF Mount lenses only
Diffraction correction	Yes
ND filter	2, 4 or 6 Stops. Up to 10 stops via built in ND filter system (in extended mode)
Iris control (EF mount lenses)	1/2-stop, 1/3-stop or FINE control
Anamorphic Lens Support	Yes, x2.0 / x1.3
Image stabilization system	Yes. Function depending on lens used, Digital 5-Axis IS for non IS lenses. Combination of Optical IS and Digital IS to give combined 5-Axis IS. IS performance depends on lens used
RECORDING	
Internal Recording Media	SD card for XF-AVC or MP4 recording. Dual Slot recording. SD card also used for Photo Storage (1920 x 1080), CP setting transfer and firmware update High speed SD UHS-II cards recommended. V90 standard recommended for all recording functions
Recording time SD card, 512GB Approx.	XF-AVC / MXF: 4096 x 2160: 410 Mbps 156 Mins MP4 (HEVC): 4096 x 2160: 225 Mbps 285 Mins MP4: 4096 x 2160: 150Mbps 428 Mins

Recording Formats	XF-AVC (MXF) ALL-I or Long GOP, 4:2:2 10-bit MP4 H.265/HEVC, 4:2:2 10-bit MP4 H.264, 4:2:0 8-bit
Relay Recording	Yes
Double Slot (simultaneous) Recording	Yes
Simultaneous recording in multiple formats	Yes, in Dual Recording Mode Options Available: [XF-AVC / MP4] [All-I / Long GOP] [4:2:2 10-bit / 4:2:0 10-bit / 4:2:0 8-bit] [UHD / 2K / FHD]
System Frequency/ Frame Rates	59.94Hz mode (59.94P / 59.94i / 29.97P / 23.98P) 50.00Hz mode (50.00P / 50.00i / 25.00P) 24.00 Hz mode (24.00P)
XF-AVC Proxy Recording Bit Rate/ Sampling (PAL) to SD Card	2048 X 1080: 50.00P, 4:2:0 8-bit 35 Mbps/ 1920 x 1080 24 Mbps Long GOP
Slow/Fast motion	4K recording: up to 120FPS 2K (Crop) recording: up to 180 FPS Audio recording at normal frame rate possible
Interval Record	No
Frame Record	No
Pre Record (cache record)	Yes, 3 seconds (XF-AVC recording only)
Scan Reverse	Yes
HD->SD conversion	No
Photo storage media	SD/SDHC memory card
Photo Recording Size	4096x2160 / 3840x2160 / 2048x1080 / 1920x1080

SYSTEM	
LCD Display	
Display Type	3.5 inch LCD Touch Panel
Display Resolution	3.5 inch LCD 2.76 million dots (1280 x 720 x RGB)
Display Touch Screen Functions	Focus point selection, Shooting setting adjust, Start/Stop recording (activated via Menu)
OSD for Vertical Shooting	Yes, via menu or user assignable button
Wave Form Monitor	Yes. LCD or external output via HDMI.
False Colour Display (Exposure Indication)	Yes. LCD or HDMI (Use of viewing LUT will affect false colour display)
Colour Bars	SMPTE, EBU and ARIB
Peaking	Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable)
Zebra	Level 1; Level 2; Both Output via HDMI: Yes
Markers	On/Off selectable: centre, horizontal, grid, aspect, safety zone, rectangular and user marker. Colour selectable, yellow, blue, green, red, black, grey or white.
EVF	
Built- In EVF	No
Inputs/Outputs	
Audio in	Mini XLR 3-pin connector x2 , 3.5 mm stereo mini jack (input only) Built in Stereo microphones on camera body
Headphone output	3.5 mm stereo mini jack (output only, Camera Body)
HDMI	HDMI connector (type A) (output only)
USB	Yes, Type C (USB 3.2 Gen1) Connection for optional GPS Unit, or Third Party Wi-Fi, Ethernet adapters
Time code	BNC / HDMI
DC input	24V DC IN
Remote Control Terminal	REMOTE A connector 2.5 mm stereo mini-mini jack (input only)
IP Streaming/FTP	Yes. IP streaming requires third-party optional USB-C to Ethernet converter and decoder transmission device. FTP via FT server. Transfer of clips on SD card (Media Mode)
LUT Support	Yes, in-built LUTs/View Assist available for LCD/HDMI Monitoring. Custom LUTs can be applied directly to internal recordings via Look File function (compatible with 17 or 33 grid .cube files).

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TECHNICAL SPECIFICATIONS

EOS C70

Default function button settings	1. White balance 2. Set White Balance 3. Peaking: All 4. WFM: All 5. DISP 6. Zebra: All 7. Push Auto Iris 8. INDEX / Magnification 9. FUNC 10. One-Shot AF 11. (Unassigned) 12. AF lock 13. Audio Status
User Assignable Buttons	13 Assignable buttons (numbered) on camera body. In excess of 80 options via the menu
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 with compatible lenses
Push Auto Iris	Yes
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	Dual Pixel CMOS AF, Contrast AF. Face Priority, Face Only and Tracking AF modes available
AF Frame Sizes	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 ALL; size equivalent to approx. 80% of sensor Selectable AF point over approx. 80% of sensor Dual Pixel AF area approx. 60% when EF mount lens fitted using EF-RF adapter
Auto Focus Modes	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	Face Priority or Face Only.
Focus Guide	All compatible Canon RF, Canon EF lenses, Canon Cine Servo Lenses (EF Mount with EF-RF Mount adapter)
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	
Control Modes	Off; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS)
Shutter speed	1 sec 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	C1: BT.709 (Wide DR / BT.709 Gamut) C2: LOG2 (Canon Log 2 / Cinema Gamut) C3: LOG3 (Canon Log3 / Cinema Gamut) C4: PQ (PQ / BT.2020 Gamut) C5: HLG (HLG / BT.2020 Gamut) C6: BT.709 Standard (BT.709 Standard / BT.709) USER 7 to USER 20 (Wide DR / BT.709 Gamut)
Colour Matrix	Neutral: Accurate colour reproduction Production Camera: Colour reproduction for use in movie production Video: Colour reproduction equivalent to C300/500 CP-OFF (for commercial cameras)
Master Pedestal	-50 to +50
Master Black	Adjustable for each channel RGB -50 to +50 plus Master Black -50 to +50
Black Gamma	Adjustable Level -50 to +50, Range -20 to +50 and Point -20 to +50
Low Key Saturation	Adjustable: -50 to +50
Knee	Point -50 to +109, Slope -35 to +50, Saturation -10 to +10
Sharpness	Adjustment for Level, H Detail Freq., Coring, HV Detail Balance, Limit, Select, Knee Aperture and Level dependent sharpness
Noise reduction	Off, On - Two Options: Spatial Filter (1-12) / Frame Correlation (1-3)
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
Wi-Fi & GPS Specifications	
Wi-Fi (Optional Third Party Accessory)	(1) WPS [Wi-Fi Protected Setup] (push-button system, PIN code system) (2) Manual setup (3) Search for access points Open system, WPA-PSK, WPA2-PSK, WEP-64, WEP-128, TKIP, AES, Auto /manual
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	
Count up system	Regen, RecRun, Free Run, External, Hold (Drop frame available for some frame rates)
Start value setting	"00:00:00:00", Set/Reset selectable
Audio	
Recording Format	XF-AVC: Linear PCM (24-bit / 48 kHz, 4 channels) MP4: MPEG-2 AAC LC (16-bit, 48 kHz, 2-channel) / Linear PCM (16-bit, 48 kHz, 4-channel)

TECHNICAL SPECIFICATIONS

EOS C70

ACCESSORIES

Supplied

Mic holder unit
Handle unit
Compact power adapter CA-CP200L
Battery Charger CG-A20 OTH
AC cable
Battery pack
(BP-A30)
Other items: Includes camera cover, shoe adapter knob, and microphone holder screws.

Optional

Canon Battery Pack BP-A30
(provided with camera)/BP-A60
Canon Battery Charger CG-A10/CG-A20
(provided with camera)
Canon Remote Controller RC-V100
Canon Compact Power Adapter CA-CP200L
(provided with camera)
Canon Shoulder Strap SS-1200
(provided with camera)
Canon Shoulder Support Unit SU-15
Canon GPS Receiver GP-E2
Canon RF lenses, EF lenses, EF cinema lenses,
and accessories designed for these lenses
Canon Mount Adapter EF-EOS R
Canon Control Ring Mount Adapter EF-EOS R
Canon Drop-In Filter Mount Adapter EF-EOS R
(w/ drop-in variable ND filter A and circular polarizing filter A)
(*) Canon Mount Adapter EF-EOS R 0.71x
(*) Canon EXTENDER RF 1.4x
(*) Canon EXTENDER RF 2x
(*) New products

Third Party Accessories

Wi-Fi Adapter, Ethernet Adapter

MISCELLANEOUS

Dimensions (Main Body Only)	160 x 130 x 116 mm
Weight (Body Only)	1190g (with grip belt and measure hook)
Weight (with accessories)	Approx. 1620 g (BP-A30, 2 SD cards, Handle Unit, Microphone Holder, Grip belt, and Measure hook)
Operating Temperature range	Approx. 0 to 40°C, (85% relative humidity) Approx. -5 to 45°C, (60% relative humidity)
Power Supply (Battery)	BP-A30 (Supplied) BP-A60 (Optional)
Power supply (Mains)	Compact Power Adapter CA-CP200L: 24V DC
Power Consumption (Approx.)	Max power consumption: 14.6W
Recording Time (Approx.)	With supplied BP-A30 battery pack: Super 35mm, 4096x2160/50.00P 175 Mins Super 16mm, 2048x1080/50.00P 205 Mins

Footnote :

* All specifications are subject to change without notice

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The EOS C70 is a new generation RF Mount Cinema EOS camera with a Super 35mm DGO 4K sensor designed to bridge DILC and Cinema Cameras.

Sales Start Date: December 2020 (TBD)

PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code
EOS C70 (EU18)	4507C003AA	4549292167467

OPTIONAL ACCESSORIES:

Product Name	Mercury Code	EAN Code
MOUNT ADAPTER EF-EOS R 0.71x	4757C001AA	4549292177138

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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 C70 (EU18)	4507C003AA	EA	Each	1	34.4	26.2	21.3	3.29
		CT	Carton	2	54	36	23.6	7.37
		EP	Euro Pallet	40	120	80	131	162.4
			Layers per Pallet	5				
			Cartons per Layer	4				
			Products per layer	8				

What's in the box?

- EOS C70 BODY EU
- Camera Cover
- Measure Hook
- Camera Grip
- Stopper
- Microphone Holder Unit
- Shoe Adapter Base
- Shoe Adapter Knob
- Screw for Microphone Holder Unit (M4)
- Handle Unit
- Hex Socket Head Bolt(1/4 inch)
- SS-1200 Shoulder Strap
- Compact Power Adapter CA-CP200 L
- AC Cable EU
- Battery Charger CG-A20 OTH
- BP-A30 JP Battery Pack OTH
- Printed Matter Unit
- Packaging Unit

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