Canon
SEE IMPOSSIBLE

EOS C70

Ready For Action

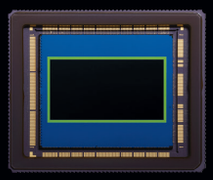
4K RF MOUNT DGO Dual Gain Output Dual Pixel CMOS AF

Developed with an idea of combining the Cinema EOS series with the EOS R series, the new EOS C70 4K Digital Cinema Camera delivers exceptional image quality and professional video features in a compact, mobile form factor. It's the first Cinema EOS camera with a built-in RF lens mount, a feature once exclusive to EOS R system mirrorless cameras. This allows users to access the superb lineup of Canon RF lenses and enter a whole new realm of creative possibilities.

Featuring a Super 35mm Dual Gain Output (DGO) sensor capable of over 16 stops of total dynamic range, a DIGIC DV 7 image processor that helps enable 4K 120p High Frame Rate recording, Dual Pixel CMOS AF and more, the EOS C70 is the high-performance cinema camera that's ideal for documentary, news-gathering and corporate videos.

- Canon Super 35mm Dual Gain Output (DGO) Sensor, 16+ Stops of Total Dynamic Range
- DIGIC DV 7 Image Processor
- Canon Log 2, 3, PQ, HLG Recording
- RF Mount
- EF Lens Versatility with Mount Adapter
- New Compact, Lightweight Design
- 2x Built-in Mini-XLRs
- Time Code Terminal
- Built-in ND Filter
- Dual Pixel CMOS AF, EOS iTR AF X, Dual Pixel Focus Guide
- Electronic Image Stabilization with Combination IS
- Dual SD Card Slots with Various Recording Options
- High Frame Rate; 4K 120p and 2K CROP 180p
- Look File for Recording (User LUT)
- Long GOP Supported in 4K/2K

Canon Super 35mm Dual Gain Output (DGO) Sensor



The EOS C70 features Canon's next-generation Super 35mm Dual Gain Output (DGO) sensor. This sensor is capable of a total dynamic range of 16+ stops and includes Canon's exclusive Dual Pixel CMOS Autofocus technology. The DGO sensor is an imaging system that generates high dynamic range and maintains low noise levels by reading out each photodiode with two different gains. It combines the two with a saturation prioritizing gain for bright areas, and a lower noise prioritizing gain for darker areas.

EF Lens Versatility

In addition to RF lenses, the EOS C70 offers tremendous flexibility by also being compatible with Canon's broad line of award-winning EF lenses thanks to the new EF-RF optical adapter (sold separately). The Mount Adapter EF-EOS R 0.71x converts light transmission from full frame to Super 35mm image format. It extends the angle of view and optical sensitivity, while seamlessly integrating with the camera's optical corrections.

CINEMA EOS

SPECIFICATIONS

Image Sensing Device

Sensor: Super 35mm / Super 16mm (crop) CMOS Dual Gain Output sensor with DPAF technology

Total Pixels: 9.6 Megapixels (4206 x 2280)

Number of Effective Pixels: 8.85 Megapixels (4096 x 2160): 4K/2K DCI recording
8.29 Megapixels (3840 x 2160): UHD/FHD recording

Image Processing Platform

Image Processor: DIGIC DV 7 image processor

Lens Mount

RF Mount
Compatible lenses: all RF lenses and all EF lenses (including EF-S lenses/EF cinema lenses)*

* EF lenses are compatible with EF Mount Adapter

Exposure

Exposure Modes: (1) Manual exposure based on shutter setting, iris setting, ISO/gain setting and ND filter setting (2) Push auto iris control, auto iris control

(Light metering system selection, shift possible)
(3) Auto ISO

Shutter Setting: Speed, Angle, Clear Scan, Slow or Off mode selected
Either 1/3 or 1/4 stops selected as speed increment

Iris Setting: Can be set to 1/2-stop, 1/3-stop or Fine (1) Push auto iris control (2) Auto iris control

Lenses that support auto iris:

RF Lenses

RF85mm F1.2L USM DS	RF35mm F1.8 Macro IS STM	RF24–105mm F4L IS USM	RF100–500mm F4.5–7.1L IS USM
RF85mm F1.2L USM	RF28–70mm F2L USM	RF24–70mm F2.8L IS USM	
RF85mm F2 Macro IS STM	RF24–240mm F4–6.3 IS USM	RF15–35mm F2.8L IS USM	
RF50mm F1.2L USM	RF24–105mm F4–F7.1 IS STM	RF70–200mm F2.8L IS USM	

EF Lenses*

EF-S 10–18mm f/4.5–5.6 IS STM	EF-S 55–250mm f/4–5.6 IS STM	EF-S 18–55mm f/4–5.6 IS STM	EF 85mm f/1.4L IS USM
EF-S 18–55mm f/3.5–5.6 IS STM	EF 24–105mm f/3.5–5.6 IS STM	EF 70–300mm f/4–5.6 IS II USM	
EF-S 18–135mm f/3.5–5.6 IS STM	EF-S 18–135mm f/3.5–5.6 IS USM	EF-S 35mm f/2.8 Macro IS STM	

* Supported by EF lenses released in 2018 and later

CINE-SERVO Lenses

CN7x17 KAS S/E1	CN20x50 IAS H/E1	CN-E 18–80mm T4.4 L IS KAS S
CN7x17 KAS S/P1	CN20x50 IAS H/P1	CN-E 70–200mm T4.4L IS KAS S

ISO: 1-stop, 1/3-stop settings: 100*–160–25600–102400*

* When the sensitivity is expanded

Internal ND Filter: 5 density settings (2, 4, 6, 8*, 10* stops) * When expansion is selected

Focus Control/Assist

Focus Control: Dual Pixel CMOS AF (DPAF), Manual Focus, One-Shot AF, Continuous AF, AF-Boosted MF, Face Detection AF (Only lenses that support AF functions can be used in any of these modes)

Focus Guide: Available; displays focus status or unfocused status using the AF signal

LCD Monitor

3.5-inch (8.8 cm diagonal) color wide-screen LCD with 16:9 aspect ratio, approx. 2.76 million dots (1280 x RGB x 720)

Viewfinder

N/A

White Balance

Kelvin setting (setting range: 2000K to 15000K /-20CC to +20CC), AWB, Daylight, Tungsten, Set A, Set B

System Frequency Selection

Frame Rates: 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

SD Card: 2 slots; recording of movie, photos (JPEG), custom pictures, clip metadata, menu settings, SD/SDHC/SDXC supported

Compression Formats

Video: (1) XF-AVC: MPEG-4 AVC/H.264, (2) MP4(HEVC): H.265/HEVC, (3) MP4(AVC): H.264/AVC

Audio: (1) Linear PCM (16 bit - 48kHz; 4-channel recording), (2) AAC (16-bit - 48kHz; 2-channel recording)

Time Code

Count-up: (1) Drop frame*, (2) Non-drop frame

* Only in 59.94 Hz mode

Operation Mode: Regeneration, Record Run, Free Run, External Source

Gamma: BT.709, Wide DR, Canon Log 2, Canon Log 3, PQ, HLG

Color Space: Cinema Gamut, BT.709, BT.2020

Other Features

Slow & Fast motion recording, B&W Image: LCD/HDMI, relay recording*, double-slot recording**, custom picture settings, color bar, peaking, zebra pattern, magnify, waveform monitor display, assignable buttons, marker display, enlarged display, custom picture display, control via Browser Remote***, peripheral illumination correction, diffraction correction, fan control, geotagging

* Not available during Slow Motion recording
** Not available in combination with Slow & Fast motion recording or relay recording
*** Browser Remote with Ethernet or Wi-Fi USB-C Adapter

Terminal

Input: MIC jack (3.5mm), INPUT (1/2) - Mini-XLR, REMOTE Terminal A (LANC/RC-V100)

Output: HDMI, 3.5mm stereo headphone mini-jack

Input/Output Control: Time Code, USB (Type-C, for Wi-Fi/Ethernet/GP-E2)

Power

Supply: DC IN terminal (DC 24 V)

Battery Terminal: DC 14.4 V

Dimensions (W x H x D)

Approx. 6.3 x 5.1 x 4.6 in. (160 x 130 x 117mm) (body only)

Weight

Approx. 2.6 lb. (1179.3g) (body only)

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