**EOS C70**

- Canon Super 35mm Dual Gain Output (DGO) Sensor, 16+ stops of Total Dynamic Range
- DIG!C DV7 Image Processor
- Canon Log 2 and 3, PQ, and HLG Recording
- RF Mount
- EF Lens Compatibility with Mount Adapter EF-EOS R 0.71x
- Direct Touch Control

- Firmware Available Summer 2023 Adds New Features:
- Improvement to Clear Scan shutter mode
- Improved Face Detection AF
- Waveform Monitor/Vector Scope magnification
- Adds support for Flex Zoom CN-E14-35MM T1.7 L S

**PROFESSIONAL CINEMA. COMPACT DESIGN.**

The Canon EOS C70 offers exceptional cinema capabilities in a compact package. Enjoy stunning images with a 4K Super 35mm DGO Sensor and all the built-in features you could ask for, including ND Filters, mini XLRs, direct touch rotatable LCD screen, Dual Pixel CMOS Autofocus, and excellent battery life. Making the EOS C70 even more powerful is compatibility with Canon's expanding line of high-performance RF Lenses.

**IMPRESSIVE IMAGE QUALITY**

Get smooth blacks and bold colors. The EOS C70's Super 35mm DGO Sensor generates 16+ stops of total dynamic range and maintains low noise levels in order to prioritize saturation for bright areas and lower noise for darker areas.

**MORE BUILT-INS, LESS ADD-ONS,**

Start shooting with all the built-ins you could ask for including ND filters for various lighting conditions, mini XLRs for professional audio recording, and dual SD card slots for simultaneous recording in different formats. Access it all with one hand on the direct touch rotatable LCD screen, allowing for on-the-spot changes while holding the camera.

**SERIOUS CINEMA IN A SMALL PACKAGE**

Control your dynamic range by choosing between Canon Log 2 or Canon Log 3 Gamma, and capture frame rates up to 120 fps in 4K or up to 180 fps in 2K CROP mode–all with electronic image stabilization. Enhance the EOS C70 further by synchronizing multi-camera productions via the built-in timecode port and adding Cinema RAW Light internal recording, Canon 709

Custom Picture Profile, XF-AVC Intra 4K 60p recording, and other new features via a free firmware upgrade.

**BUILT TO BE TAKEN ANYWHERE**

Designed to go where you go, the EOS C70's unibody design exhibits a compact form factor and a built-in ergonomic grip that makes handheld shooting easy and comfortable.

**CANON'S RF SYSTEM & LEGENDARY LENSES**

The EOS C70 is a cinema powerhouse all on its own and is engineered with a built-in RF mount for compatibility with Canon's expanding line of high-performance RF Lenses.

For increased flexibility, the EOS C70 is also compatible with Canon's line of award-winning EF lenses using the Mount Adapter EF-EOS R 0.71x. This maintains a similar full-frame angle of view on the Super 35mm sensor, but boosts the speed of the attached lens by an average of 1-stop.

**FEATURES**

**Canon Super 35mm Dual Gain Output (DGO) Sensor, 16+ stops of Total Dynamic Range**

The EOS C70 features Canon's next generation Super 35mm Dual Gain Output (DGO) Sensor. This sensor is capable of a total dynamic range in excess 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.

**Enhanced Clear Scan Mode**

Firmware available Summer 2023 will add improvements to Clear Scan shutter mode to help reduce or virtually eliminate the flickering caused by some LED walls.

**DIG!C DV7 Image Processor**

The EOS C70 features Canon's DIG!C DV7 image processor that takes the extensive RAW information captured from the imaging sensor and processes it for output. DiG!C is also the engine behind features such as high frame rate recording, Dual Gain Output (DGO) Sensor, Dual Pixel Autofocus, HDR (PQ) output, Electronic Image Stabilization, and proxy recording.

**Canon Log 2 and 3, PQ, and HLG Recording**

The EOS C70 supports both Canon Log 2 and Canon Log 3 Gamma. In post-production, Canon Log is designed to reproduce the entire tonal range that the CMOS image sensor is capable of. Log workflows provide the user with higher dynamic range (16+ stops), more highlight and shadow retention, and more flexibility in color grading.

Canon Log 2 provides the largest dynamic range and image detail. However, while Canon Log 2 provides the most post-production flexibility and full dynamic range of the sensor, it typically requires more time in post and color correction.

For users looking for most of the benefits of a log workflow, but with shorter turnaround times, Canon Log 3 provides an alternative with only a slightly reduced dynamic range of 14 stops.

The EOS C70 also features HLG and PQ compliance with ITU-BT.2100 in Custom Picture (CP) presets, allowing users to record HDR footage instantly without grading.

**Canon 709 Custom Picture Preset**

The new Canon 709 CP preset features the same dynamic range as the Wide DR profile with great contrast. Canon 709 provides a rich, cinematic look to your footage right out of the box, with little to no processing or color grading, helping to save time in postproduction.

**RF Mount**

The EOS C70 is the first Cinema EOS camera engineered with a built-in RF mount making it compatible with Canon's expanding line of high-performance RF lenses. The short flange distance helps to dramatically reduce body depth, resulting in a more compact design.

**EF Lens Compatibility with Mount Adapter EF-EOS R 0.71x**

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, Mount Adapter EF-EOS R 0.71x. This adapter 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.

The adaptor connects to the camera's RF mount with additional support from two flanges that securely attach via four screws, making for a very robust connection. Once mounted, the adapter maintains a similar full-frame angle of view on the Super 35mm sensor, while boosting the speed of the attached lens by an average of 1-stop. The adapter also carries all EF information through to the RF contacts, so on certain lenses*, full DPAF, aberration and vignetting correction, and metadata will be available, working just as they do on a native EF mount.

**Waveform Monitor / Vector Scope**

The Firmware available Summer 2023 will provide the option to double the size of the on-screen waveform monitor and vector scope. It also adds the ability to adjust opacity (transparency) of these on-screen tools, making it easier to see and adjust exposure while shooting.
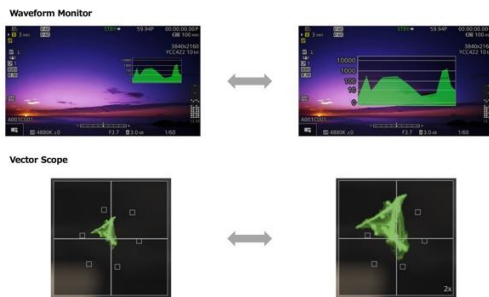


**Direct Touch Control**

The EOS C70 is equipped with Direct Touch Control which allows easy access to commonly used menu settings on the fully-rotatable LCD screen. Users will be able to simply touch the screen to start/stop recording, access file format and resolution, set ISO/Gain, color temperature and iris, and display important settings. Shooting settings that were once in various places of the menu can now be accessed with one hand, allowing for on-the-spot changes while holding the camera.

**Compact, Uni-Body Design**

The EOS C70 features a uni-body design that exhibits a compact form factor and an ergonomic built-in grip making handheld shooting easy and comfortable.

**Built-in Mini-XLRS**

The EOS C70 is equipped with two mini-XLR audio input terminals for professional audio recording. Additionally, manual audio control dials let users intuitively and quickly adjust the audio control.

**Built-in Neutral Density Filter System**

The thin, motorized ND filter unit has been specifically designed for the RF mount's short flange back. It offers up to 10 stops of ND, allowing users to shoot in various lighting conditions.

**Time Code Terminal**

The EOS C70 includes a time code input/output terminal in the lower front of the body that makes synchronizing easier in multi-camera productions.

**Dual Pixel CMOS AF**

Canon's Dual Pixel CMOS AF technology uses every pixel on the imaging sensor to detect focus and to capture actual image information, offering users high precision focusing and exceptional image quality.

**EOS iTR AF X**

The EOS C70 is the first Cinema EOS camera to feature EOS iTR AF X, which includes a head detection algorithm developed with deep learning technology. In Face Detection mode, the AF works with this advanced algorithm to dramatically improve distance measuring and tracking reliability.

The Firmware update available Summer 2023 further improves Face Detection AF in the EOS C70 by making it possible to select a subject via the RF lens' control ring or camera dial. This allows you to make adjustments without having to change the position of your hands or take your eyes away from the shot. Face Detection AF will maintain focus on a selected face, even when the subject turns their face away from the camera, or if the subject is wearing a head covering such as a helmet, scarf, or hat.

**Eye AF**

Detects and tracks the subject's pupil for precise focusing. With Firmware version 1.0.5.1, Eye Detection AF, Face Detection AF and Subject Tracking AF during Slow and Fast Recording allows for more accurate auto focus performance at accelerated frame rates.

**Dual Pixel Focus Guide**

The EOS C70 also features Dual Pixel Focus Guide, which is an innovative UI that gives users both front- and back-focus information telling users if the focus position is in the back or the front, aiding in smooth pulls during manual focus.

**Electronic Image Stabilization with Coordinated Control**

For the first time in a Cinema EOS camera, enhanced image stabilization is available with coordinated control. With an RF lens and the electronic IS in the EOS C70, coordinated control optimizes hand-shake correction, resulting in better anti-vibration performance than the conventional EF lens and electronic IS together.

In addition, the EOS C70 adds Super 16 Digital IS, which stabilizes the 2K images by using the peripheral area around the center of the 4K sensor, to provide high performance stabilization.

**Auto ISO/Gain Control**

The EOS C70 is the first Cinema EOS camera to feature Auto ISO and Gain Control. EOS C70 can automatically adjust sensitivity by utilizing the DGO sensor characteristics to switch gain smoothly, helping users concentrate on framing without worrying about aperture and other camera settings when moving from indoor to outdoor locations with significant changes in lighting.

**Remote Control Support**

The EOS C70 features a remote terminal that allows users to control the camera with Canon's RC-V100 ("Remote A" connection). The multi-functional RC-V100 remote controller provides full access to all important functions, including start/stop, shutter/gain adjustments, zoom/focus/iris parameters, custom picture values, white balance, black gamma, and more.

With Firmware version 1.0.5.1, the camera now features Canon's IP-based XC protocol to help maximize operability and remote control of camera settings. Using the XC protocol, the camera can be operated by Canon's RC-IP100 control panel or via the browser-based Remote Control Camera Application (RCCA) over an Ethernet Network connection**. Additionally, XC Protocol-enabled third-party controllers (RCP) can control the C70.

** IP/Ethernet connectivity for XC protocol requires the use of USB network adapters.

**Dual SD Card Slots with Various Recording Options**

The EOS C70 has dual SD card slots for simultaneous recording in different formats, including 4K/HD and XF-AVC/MP4.

**High Frame Rate; 4K 120P and 2K CROP 180P**

The EOS C70 is capable of ultra-high frame rates with its new chip design and powerful DiG!C DV7 processor. Frame rates up to 120 fps can be obtained in 4K, while 2K CROP mode provides even greater flexibility with speeds up to 180 fps. The EOS C70 supports Dual Pixel CMOS AF, even when shooting at high frame rates, keeping the camera in focus even when mounted on gimbals or drones. With the Firmware update 1.0.5.1, Eye AF, Face Detection AF and Subject Tracking AF are now available in Slow & Fast recording modes from 24p to 120p.

*V90 SD cards are recommended for Slow & Fast motion recording.

**Look File for Recording (User LUT)**

The EOS C70 has a new option called Look File to import '.Cube' type 3D LUTs for use while recording. This function greatly improves the flexibility of EOS C70 in professional workflows.

A new viewing assist feature called CMT 709 provides the ability to see on-set how the video will look on a REC.709 monitor when recording in Canon Log 2 or Canon Log 3. This is a great starting point for any color grading, and facilitates making changes while filming, which reduces the need to "fix it in post."

**4K 60p Intra-frame Recording (Available Via Free Firmware Upgrade)**

Newly added XF-AVC Intra-Frame 60p records at a bit rate of 600Mbps and offers users a lightweight, high-quality codec that helps to minimize storage costs, speed up file transfer and record onto the C70's SD media.

**Cinema RAW Light Internal Recording**

Cinema RAW Light internal recording capabilities in the EOS C70 camera further enhances the recording capabilities of what's already a powerful digital imaging machine. This compact cinema camera can capture 12-bit Cinema RAW Light internally to compatible SD cards. Cinema RAW Light captures the widest dynamic range from the Dual Gain Output sensor (16+ stops total) and allows the most flexibility to grade captured content. Three quality settings of Cinema RAW Light are available: RAW HQ (high quality), RAW ST (standard quality), and RAW LT (light recording). All three modes are 12-bit regardless of frame rate. Lastly, Cinema RAW Light is compatible with Proxy and Double-Slot recording.

**Frame and Interval Recording Modes**

Frame and Interval Recording modes add even more recording flexibility to the EOS C70 camera by allowing easy creation of stop motion and time-lapse sequences when recording in the XF-AVC and MP4 formats. Frame recording is for stop motion capture, and every press of the record button captures a user-determined number of frames. Interval Recording sets the interval and number of frames to be captured for time-lapse sequences. Both recording modes help operators further tell their story in a more creative and inspiring form and are easy to use.