

Canon EOS C500 Cinema EOS Camera (Body Only)

The Cinema EOS C500 4K Digital Cinema Camera capitalizes on the groundbreaking ergonomic design of the EOS C300 camera, and offers a Super 35mm, 8.85-megapixel CMOS image sensor, DIGIC DV III Image Processor and an expansive range of recording and output options specifically for 4K and 2K image acquisition. Addressing the discrete needs of cinema and TV, the EOS C500 offers two forms of 4K origination - productions can dynamically select DCI (SMPTE 2048-1:2011 standard) or the alternative television-centric Quad-HD (SMPTE 2036-1:2009 and ITU-R BT. 1769 standards) source image formats.

The EOS C500 features uncompressed Canon RAW output for both 4K and 2K recording. The Canon RAW output is delivered to external recording systems via built-in dual 3G-SDI ports. Dual uncompressed HD-SDI out ports supports external live monitoring. HD content can be written to dual onboard CF cards simultaneously to provide proxy video for offline NLE systems.

Canon has collaborated with some of the most respected names in the industry to ensure the Cinema EOS C500's output works seamlessly with external digital recording units, portable and master monitors, and on set DIT systems. The Cinema EOS C500 provides flexibility in 4K and 2K recording to allow production teams to maximize the efficiency in their production and post-production workflows.

Specifications

Imaging Sensor

Effective Pixels

4096 x 2160 pixels; Approx. 8.85 megapixels

Total Pixels

4206 x 2340 pixels; Approx. 9.84 megapixels

Sensor Type

CMOS

Sensor Size

Super 35; 26.2 x 13.8 (29.6 mm diagonal); 6.4 µm cell pitch

Scanning System

Progressive

Number of Sensors

1

Filter

RGB Primary Color Filter (Bayer Array)

Imaging Processor

Digic DV III

Lens System

Interchangeable Lens System

Choice of PL or EF mounts for compatibility with a wide variety of lens systems.

Zoom/Focus Preset

N/A

Shockless Zoom

N/A

Digital Teleconverter

N/A

ND Filter

Mechanical ND filter system with option of clear, 2, 4, and 6 stops

Iris Dial

Iris Dial located on camera body for use with EOS EF Lenses with electronic Iris control (EF Camera version only)

Peripheral Illumination Correction

Available on EF Mount model only

Exposure and Metering

Exposure Modes

Manual

Metering Modes

N/A

Gain

Normal Setting -6dB to 30 dB TBD

Fine Setting 0dB to 24 dB in 0.5 dB increments

ISO

320 to 20,000

Auto Gain Control (AGC)

N/A

Shockless Gain

N/A

Exposure Compensation/AE Shift

N/A

Shutter Modes

3 Modes: OFF; Speed; Angle; Slow Shutter; Clear Scan

Speed Mode is selected in 1/3 or 1/4 stop increments

Shutter Speed Range

59.94i/59.94p: 1/60 to 1/2000 in 1/4 or 1/3 stops; SLS: 1/4, 1/8, 1/15, 1/30; CS: 59.94 Hz - 250.27 Hz

29.97p: 1/30 to 1/2000 in 1/4 or 1/3 stops; SLS: 1/4, 1/8, 1/15; CS: 29.97 Hz - 250.27 Hz

23.98p/24p: 1/24 to 1/2000 in 1/4 or 1/3 stops; SLS: 1/3, 1/6, 1/12; CS: 23.97 Hz - 250.27 Hz

50i/50p: 1/50 to 1/2000 in 1/4 or 1/3 stops; SLS: 1/3, 1/6, 1/12 1/25; CS: 50.00 Hz - 250.78 Hz

25p: 1/25 to 1/2000 in 1/4 or 1/3 stops; SLS: 1/3, 1/6, 1/12; CS: 25.00 Hz - 250.78 Hz

Shutter Angle Settings

59.94i/59.94p: 360, 240, 216, 180, 120, 90, 60, 45, 30, 22.5, 15, 11.25

29.97p: 360, 240, 216, 180, 120, 108, 90, 60, 45, 30, 22.5, 15, 11.25

23.98p/24p: 360, 345.6, 288, 240, 180, 172.8, 144, 120, 90, 86.4, 72, 60, 45, 30, 22.5, 15, 11.25

50i/50p: 360, 300, 240, 180, 150, 120, 90, 60, 45, 30, 22.50, 15, 11.25

25p: 360, 300, 240, 180, 150, 120, 90, 75, 60, 45, 30, 22.50, 15, 11.25

Iris (Aperture) Range

EF Lens only - 1/2, 1/3 stop or fine setting can be selected
Smooth Manual control on Cinema Lenses

Focus

Focus Settings

Manual

Autofocus System

N/A

AF Modes

None

External Recording Output

Resolution

Resolution

Mode	Resolution	Frame Rate
4K RAW 10bit	4096x2160/3840x2160	59.94p/29.97p/
		23.98p/50.00p/
		25.00p/24.00p
4K RAW 10bit	4096x1080/3840x1080	62p up to 119.88p in 2 frame steps
2K RGB 444 12bit	2048x1080/1920x1080	59.94p/29.98p/23.98p/50.00p/25.00p True 24 (24.00p)
2K RGB 444 10bit	2048x1080/1920x1080	59.94p/29.98p/23.98p/50.00p/25.00p True 24 (24.00p)
2K YCC 422 10bit	2048x1080/1920x1080	62p up to 119.88p in 2 frame steps

Recording/Codec

Compression

8 Bit MPEG-2 Long GOP

Maximum Bit rate

50Mbps (CBR)