

TECHNICAL SPECIFICATIONS

EOS C500 Mark II

CAMERA

IMAGE SENSOR

Sensor

Full Frame CMOS sensor

System

RGB primary colour filter (Bayer array)

Sensor Modes

Full Frame / Super 35 mm (Crop) / Super 16 mm (Crop)

Total Pixels

Approx. 20.8 megapixels (6062 x 3432)

Effective Pixels (Full Frame Mode)

Approx. 18.69 megapixels (5952 x 3140): 5952 x 3140 or 4096 x 2160 or 2048 x 1080 selected resolution
Approx. 17.52 megapixels (5580 x 3140): 3840 x 2160 or 1920 x 1080 selected resolution

Effective Sensor Screen Size

38.1 x 20.1 mm (43.1 mm on the diagonal): 5952 x 3140, 4096 x 2160 or 2048 x 1080 selected resolution
35.7 x 20.1 mm (41.0 mm on the diagonal): W 3840 x 2160 or 1920 x 1080 selected resolution

Dynamic Range

Canon Log 2: 1600% / 15+ stops
Canon Log 3: 1600% / 14 stops
Wide DR: 800% (at ISO 400)

IMAGE PROCESSOR

Type

DIGIC DV7

LENS

Lens Mount

Canon EF Mount, B4 mount lens via adapter accessory (EF or PL)

Lens Magnification factor (for EF Mount lenses, including Cinema Primes)

Full Frame:
5952 X 3140/4096 X 2160/2048 X 1080: x1.056
3840 X 2160/1920 X 1080: x1.056
Super 35MM (Crop):
4096 X 2160/2048 X 1080: x1.460
3840 X 2160/1920 X 1080: x1.534
Super 16mm (Crop):
4096 X 2160/2048 X 1080: x2.920
3840 X 2160/1920 X 1080: x3.069

Changeable Lens Mount

Yes, User changeable to EF with Cinema Mount or PL

Peripheral illumination correction

YES (dependent on lens used)

ND filter

Up to 10 stops via built in ND filter system (in extended mode)

Focus control

EF Mount: Via lens, wireless control or wired remote (dependent on lens used)
PL Mount: Only Cine Servo lenses

Iris control (EF mount lenses)

Via body, grip, wireless control or wired remote. 1/2-stop, 1/3-stop or FINE control.

Cooke /i Technology Support

Yes (PL Mount only after mount change)

Anamorphic Lens Support

Yes, x2.0/x1.3

Image stabilization system

Optical depending on lens used

RECORDING

Internal Recording

CFexpress card x2 for Cinema RAW Light or XF-AVC/MXF, SD card for XF-AVC Proxy recording
SD card also used for Photo Storage (1920 x 1080), CP setting transfer and firmware update.

Recording time (CFexpress card, 512GB) Approx.

Cinema RAW Light: 5952 X 3140: 2.1Gbps: 30 Mins
4096 X 2160: 1 Gbps: 65 Mins
2048 X 1080: 250 Mbps: 270 Mins
XF-AVC/MXF:
4096 X 2160: 810 Mbps 80 Mins/410 Mbps 165 Mins
2048 X 2160: 310 Mbps 215 Mins/160 Mbps 425 Mins

Recording Formats

System Frequency/ Frame Rates

Cinema RAW Light (CRM), XF-AVC (MXF)
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)

Cinema RAW Light Bit Rate/Bit Depth (PAL)

5952 X 3140: 50.00P, 2.1 Gbps 10-bit/25.00P, 2.1 Gbps 12-bit
4096 X 2160: 50.00P, 1 Gbps 10-bit/25.00P, 1 Gbps 12-bit
2048 X 1080: 50.00P, 250Mbps 10-bit/25.00P 250 Mbps 12-bit
4096 X 2160/3840 X 2160: 50.00P YCC 4:2:2 10-BIT 810 Mbps/25.00P YCC 4:2:2 10-bit 410 Mbps
2048 X 1080/1920 X 1080: 50.00P YCC 4:2:2 10-BIT 310 Mbps/25.00P YCC 4:2:2 10-bit 160 Mbps
All Intra Frame
2048 X 1080: 50.00P, YCC 4:2:0 8-bit 35 Mbps/25.00P, YCC 4:2:0 8-bit 24 Mbps Long GOP

XF-AVC Recording Bit Rate/ Sampling (PAL)

XF-AVC Proxy Recording Bit Rate/ Sampling (PAL) To SD Card

Slow/Fast motion

Yes, Cinema RAW Light 5952 x 3140/4096 x 2160:
1 - 60 FPS/2048 x 1080 (2K Crop) 1 - 120FPS
XF-AVC:
4096 x 2160/3840 x 2160 (810/410 Mbps)
1 - 60 FPS (Full Frame/Super 35mm Crop)
2048x1080/1920x1080
1 - 60 FPS (Full Frame/Super 35mm Crop)
1 - 120 FPS (Super 16mm Crop)

Interval Record

No

Frame Record

No

Pre Record (cache record)

Yes, 3 seconds

Relay Recording

Yes

Double Slot (simultaneous) Recording

Yes

Scan Reverse

Yes

HD->SD conversion

No

Photo storage media

SD/SDHC memory card

Photo Recording Size

Approx. 930 KB at 2048x1080; Approx. 880 KB at 1920x1080

SYSTEM

Wave Form Monitor

Yes. Via MON.1/2, VIDEO or HDMI Terminals (Not available from SDI Out 1-4)
Line Display/Line and Spot/Line Select/Field Display/RGB Display/YPrPb. HDR PQ and HDR-HLG output supported.

False Colour Display (Exposure Indication) Colour Bars

Yes. Via MON.1/2, VIDEO or HDMI Terminals

Peaking

SMPTE, EBU and ARIB colour bars available. See the menu.

Peaking

Peaking 1, Peaking 2 (Colour, Gain, Frequency customisable)

Zebra

Level 1; Level 2; Both
Output via HD-SDI or HDMI

Markers

On/Off selectable; center, horizontal, grid, aspect, safety zone, and rectangular marker. Colour selectable, yellow, blue, green, red, black, gray or white.

EVF

Built- In EVF

No

Optional EVF Accessory

Yes. OLED Electronic Viewfinder, EVF-V50 or EVF-V70

INPUTS/OUTPUTS

Audio in

XLR 3-pin connector x2, 3.5 mm stereo mini jack (input only)
Input 1 and 2 on camera body. Additional 2x 3-Pin XLR on optional Expansion Unit EU-V2 (Input 3 and 4)

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Headphone output	3.5 mm stereo mini jack (output only, Camera Body).	Auto Focus System (EF Mount)	Dual Pixel CMOS AF, Contrast AF
Video monitor output	MON.: BNC jack , (output only, Camera Body).	AF Frame Sizes (EF Mount)	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
HDMI	HDMI connector (type A) (output only, Camera Body).	Auto Focus Modes (EF Mount)	Selectable AF point over 80% (approx.) of sensor 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 Priority or Face Only.
USB	Yes, Input only, Camera Body. (GP-E2 connection)	Face Detection AF (EF Version Only)	EF version: All compatible Canon EF lenses, Canon Cine Servo Lenses
SDI output	BNC jack 1 x 12G-SDI Out (output only, Camera Body).	Focus Guide	Gain setting
Time code	BNC jack (input/output, Camera Body).	Gain setting	[-6dB,-3dB], -2dB(*), 0dB, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, 21dB, 24dB, 27dB, 30dB, 33dB, 36dB, 39dB, 42dB, [45dB,48dB,51dB,54dB]
Genlock	Ye with optional Expansion Unit EU-V1 and EU-V2. BNC jack (input only/also serves as SYNC OUT connector)	SHUTTER	[---] 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.
Synch	BNC jack (output only/also serves as GENLOCK connector)	Control Modes	Off; Speed; Angle; Clear Scan (CS); Slow Shutter (SLS)
Component out	No	Shutter speed	1 sec to 1/2000 depending on frame rate and Shutter Control Mode, 39 setting options
AV terminal	No	Shutter Angle	11.25° to 360° depending on frame rate
DC Output	Yes, with optional EU-V2. DC 24V 2A jack Fischer 3-pin jack (output only), D-Tap connection, 50W maximum	Slow Shutter (SLS)	1/3, 1/4, 1/6, 1/8, 1/12, 1/15, 1/25, 1/30 depending on frame rate
DC input	XLR 4-pin jack	Clear Scan	24.00 Hz* to 250.40 Hz (*) The frequency will differ depending on the frame rate setting.
Remote Control Terminal	REMOTE A connector 2.5 mm stereo mini-mini jack (input only) REMOTE B connector Round 8-pin jack (for RS-422) with optional EU-V1 or EU-V2	CUSTOM PICTURE	
Wireless Control Terminal	Yes	Stored Configurations	BT.709 (Wide DR / BT.709 Gamut) LOG (Canon Log 2 / Cinema Gamut) HDR-PQ (HDR-PQ / BT.2020 Gamut) HDR-HLG (HDR-HLG / BT.2020 Gamut) USER5 to USER20 (Wide DR / BT.709 Gamut) * From BT.709, HDR-HLG is protected.
Lens terminal	Yes, with optional EU-V2. 12-pin jack	Colour Matrix	Neutral: Accurate colour reproduction Production Camera: Colour reproduction for use in movie production Video: Color reproduction equivalent to C300/500 CP-OFF (for commercial cameras)
Ethernet terminal	Yes, with optional EU-V1 and EU-V2. Ethernet connector (RJ45) (supports 1000 BASE-T)	HDR-HLG Profile	BT.2100: Corresponds to ITU-R BT.2100 Vivid: Corresponds to Traditional Colour in ITU-R BT.2390
IP Streaming	Yes. Via Ethernet connection. Wi-Fi capability TBC) 9 Mbps/4 Mbps:1920 X 1080 (59.94p/59.94i/50.00p/50.00i) optional EU-V1 or EU-V2 required	Master Pedestal	-50 to +50
User Viewing LUT input	Yes	Master Black	Adjustable for each channel RGB -50 to +50 plus Master Black -50 to +50
Video connector	Canon's proprietary specification (special 13-pin jack) for LM-V2 Monitor or optional EVF-V70 viewfinder or LM-V1 monitor	Black Gamma	Adjustable Level -50 to +50, Range -20 to +50 and Point -20 to +50
MISC.		Low Key Saturation	Adjustable: -50 to +50
Tally lamp	Yes	Knee	Point -50 to +109, Slope -35 to +50, Saturation -10 to +10
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 EF model all compatible lenses, PL Version compatible Canon Cine Servo lenses only with 12-pin connection on optional EU-V2		
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.		

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TECHNICAL SPECIFICATIONS

EOS C500 Mark II

Sharpness	Adjustment for Level, H Detail Freq., Coring, HV Detail Balance, Limit, Select, Knee Aperture and Level dependent sharpness
Noise reduction	Off, On (1 to 12)
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 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
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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	Linear PCM (24-bit / 48kHz), 4 channels
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ACCESSORIES

Supplied

Optional

Camera Grip GR-V1, Thumb rest, Mic holder unit [w/ M4 screw], LCD Monitor LM-V2, LCD Attachment Unit LA-V2, Handle unit, Shoulder strap SS-1200, Battery Charger CG-A20, Compact power adapter CA-CP200B, AC cable, Battery pack (BP-A60), Extension System Attachment Bracket, Unit Cable UN-5, Other: Stopper, Hex Wrenches (M4 and M3), Hex Socket Head Bolt (1/4 in.), Hex Socket Head Bolt (M3)

Canon Battery Pack BP-A30/BP-A60 (provided with camera)
Canon Battery Charger CG-A10/CG-A20 (provided with camera)
Canon Remote Controller RC-V100
Canon Compact Power Adapter CA-CP200B (provided with camera)
Canon Shoulder Strap SS-1200 (provided with camera)
Canon Tripod base TB-1
Canon GPS Receiver GP-E2
Canon Unit Cable UN-5 (provided)/UN-10 (purchased separately)
Canon OLED Electronic View Finder EVF-V50(*)/EVF-V70

* Canon Extension unit 1: EU-V1
* Canon Extension unit 2: EU-V2
* Canon EF Cinema Lock Mount Kit CM-V1
* Canon PL Mount Kit PM-V1
Canon B4 Mount Adapter MO-4E/MO-4P
Canon LCD Monitor LM-V2 (included)/LM-V1
Canon LCD Attachment Unit LA-V2 (included)/LA-V1
Canon Camera Grip GR-V1 (included)
Canon Shoulder Support Unit SU-15
Canon Shoulder Style Grip Unit SG-1
Canon Clamp Base CL-V2
Canon Rod Clamp RD-1
Canon Handle Unit HDU-2
Canon 8-pin Remote Cable RR-10/RR-100
Canon EF/EF cinema lens group, Canon PL cinema lens group, and accessories designed for these lenses
(*) New products
V-Lock battery

Third Party Accessories

MISCELLANEOUS

Dimensions (Main Body Only)

Weight (Body Only)

Operating Temperature range

Power Supply

Approx. 153x148x168mm (WxHxD)
Approx. 1,730g
Approx. 0 to 40°C, (85% relative humidity)
Approx. -5 to 45°C, (60% relative humidity)
BP-A60 (Supplied), BP-A30 (Optional) V-Lock with EU-V2, 11V - 20V, Mains 4-pin XLR

* All specifications are subject to change without notice

* CFexpress (owned by CompactFlash Association)



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