

EOS C300 / EOS C300 PL SPECIFICATIONS

IMAGING SENSOR

Effective Pixels: 3840 x 2160 pixels; Approx. 8.29 megapixels
Total Pixels: 4206 x 2340 pixels; Approx. 9.84 megapixels
Sensor Type: CMOS (single-panel), equivalent to Super 35mm
Sensor Size: 24.6 x 13.8 mm effective screen size (6.4 x 6.4 µm pixel 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 mount camera bodies for compatibility with a wide variety of lens systems.
ND Filter: Mechanical ND filter system with option of clear, 2 stops, 4 stops, and 6 stops
Iris Ring: Iris Dial located on camera body for use with EOS EF Lenses with electronic Iris control
Peripheral Illumination Correction: Available on EOS C300 (EF Mount only)

EXPOSURE AND METERING

Exposure Modes: Manual
Manual Gain: Normal Setting -6dB to 30dB
ISO: 320 to 20000
Shutter Modes: OFF; Speed; Angle; Slow Shutter; Clear Scan
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 – 250.70 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 – 250.70 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 – 250.70 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 – 250.70 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 – 250.70 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

FOCUS

Focus System: Manual
Autofocus System: Not Available

RECORDING/CODEC

Signal System: NTSC and PAL
Compression: 8 Bit MPEG-2 Long GOP
Color Space: 4:2:2 at 50Mbps recording
Maximum Bit Rate: 50Mbps (CBR)
Canon Log Gamma: Available
Recording Options:

Mode	Resolution	Frame Rate
50Mbps (CBR) 4:2:2 422P@HL	1920 x 1080	59.94i/29.97p/23.98p 50i/25p True 24 (24.00)
		1280 x 720 59.94p/29.97p/23.98p 50p/25p True 24 (24.00)
35Mbps (VBR) 4:2:0 MP@HL	1920 x 1080	59.94i/29.97p/23.98p 50i/25p
		1280 x 720 59.94p/29.97p/23.98p 50p/25p
25Mbps (CBR) 4:2:0 MP@H14	1440 x 1080	59.94i/29.97p/23.98p 50i/25p

Recording Time:

Card Capacity	Bit Rate	50 Mbps	35 Mbps	25 Mbps
CF Card				
2 GB	5 Minutes	5 Minutes	10 Minutes	
4 GB	10 Minutes	10 Minutes	20 Minutes	
8 GB	20 Minutes	25 Minutes	40 Minutes	
16 GB	40 Minutes	55 Minutes	80 Minutes	
32 GB	80 Minutes	110 Minutes	155 Minutes	
64 GB	160 Minutes	225 Minutes	310 Minutes	

Recording Media:

CF Card (Type 1 Only); 2 Slots (Movie Files); UDMA supported
SD Card (Still Images, Custom Picture Data*, Clip Metadata, and menu settings); SD/SDHC/SDXC Supported; MMC Cards are not supported
* Custom Picture Data and settings is not compatible with data from others Canon models
File Format: MXF (OP-1a)
Maximum Clip Number: 999 (per media)

AUDIO

Recording Format: Linear PCM; 2-Channel; 16-Bit; 48 kHz
Built-in Microphone: None
External Audio Inputs: 2 – XLR inputs (Auto and Manual level settings)
Recording Channel Selection: Two Channel Recording
XLR Mic Trimming: Available; -12dB, -6 dB, 0dB or +12dB
Recording Level Adjustment Range: - Infinity to +18dB
Phantom Power: Available; +48V
Headphone Adjustment: 16 Settings; Volume is muted at lowest setting
1KHz Tone: Available; -12, -18, or -20dB

FEATURES AND PERFORMANCE

Playback: Index Displays: Index Display, Normal, "OK Mark" Index, "Check Mark" Index, "Shot Mark" Index, Expand Index, Photo Index
Clip Playback: Forward Search (x5, x15, x60), Reverse Search (x5, x15, x60), Forward frame Advance, Reverse Frame Advance, Record Review, Clip Jump (Forward and Backward), Skip Playback
Playback Functions: Inter-media Copy (Single Clip, All Clips, Last Clip); Clip Delete (Single Clip, All Clips, Last Clip)
Still Image Playback: index, single playback, erasure, protect
Slow and Fast Motion Recording:
50 Mbps - 1920 x 1080 (Playback Rate: 29.97p/23.98p/24.00p)
Record Rate: 1-30 (Playback Rate: 50i/25p) Record Rate: 1-25
50 Mbps - 1280 x 720 (Playback Rate: 59.94p/29.97p/23.98p/24.00p)
Record Rate: 1-60 (Playback Rate: 50p/25p) Record Rate: 1-50
35 Mbps - 1920 x 1080 (Playback Rate: 29.97p/23.98p/24.00p)
Record Rate: 1-30 (Playback Rate: 50i/25p) Record Rate: 1-25
35 Mbps - 1280 x 720 (Playback Rate: 59.94p/29.97p/23.98p/24.00p)
Record Rate: 1-60 (Playback Rate: 50p/25p) Record Rate: 1-50
25 Mbps - 1440 x 1080 (Playback Rate: 29.97p/23.98p) Record Rate: 1-30
Special Recording Functions: Relay Recording*; Double-Slot Recording**; Copying between Media

* Not available during Slow Motion 50 Mbps recording
** Not available in combination with Slow and fast motion recording
Photo Recording: Available; Images captured to SD Card (1920 x 1080)

Waveform Monitor: Available

Vectorscope: Available

Exposure / Focus Aids: Peaking (2 types), Zebra Pattern*, Magnify, Edge Monitor Focus Assist, Black and White Mode
* Can be output via the SDI or HDMI Jack (HD Only)
Interval Record: Available; Interval can be set in 25 levels ranging from 1 second to 10 minutes. (1s/2s/3s/4s/5s/6s/7s/8s/9s/10s/15s/20s/30s/40s/50s/1m/2m/3m/4m/5m/6m/7m/8m/9m/10m)
NTSC 59.94i/29.97p/23.98p/24.00p: Selectable between 1, 3, 6, 9 frames
NTSC 59.94p: Selectable between 2, 6, 12 frames
PAL 50i/25p/50p: Selectable between 2, 6, 12 frames
Frame Record:
NTSC 59.94i/23.98p/24.00p: Selectable between 1, 3, 6, 9 frames
NTSC 59.94p: Selectable between 2, 6, 12 frames
PAL 50i/25p/50p: Selectable between 2, 6, 12 frames

Pre-Record: Yes, 3 seconds cache (Audio and Video)
Scan Reverse: When using a Depth of Field Converter or other lens adapters it flips or reverses the image automatically so it is recorded correctly.

Time Code: Drop Frame*(DF) and Non-Drop Frame (NDF)
*Drop Frame works with NTSC models only and is not available in 24P
Time Code Modes: Regen, Record Run, Free Run and External Source
Drop Frame and Non Drop Frame available

White Balance: Available; 2,000K to 15,000K in 100K increments
White Balance Presets: Daylight (5,400K); Tungsten (3,200K); Kelvin White balance shift is available within Presets (-9 to +9)
Custom Picture Settings: 23 Custom Picture settings
A total of nine 9 Customized Pictures are available in the camera and up to 20 can be saved to an SD card
Custom Pictures CP7, CP8 and CP9 ship with the following preset:
C7: Video.C – Intended for recording media for playback on consumer TVs. The setting minimizes noise in the dark areas and improves contrast by tightening up on black.
C8: Cine.V – Suited for giving recorded media a film tone.
C9: Cine.F – Used for when recorded media will be transferred to film.

Custom Functions: Available, 9 total functions
Custom Display: Yes; LCD panel and EVF information display can be customized. Total of 27 display options can be turned on and off
Assign Buttons: 15; Can be assigned functions as desired (30 functions Available)

Color Bars: Color bars compliant with SMPTE, EBU, or ARIB standards can be selected.

Dynamic Range: up to 800% with Canon Log Gamma and ISO 850 (+2.5dB) and above
*ISO 850 or above – gain 2.5dB or above

EVF

Type: 0.52-inch Color (1,555,000 dots)
Aspect Ratio: 16:9
Viewing Angle Adjustment: Available; Viewing Angle can be adjusted up and down 60°

Diopter Adjustment Range: +2.0 to -5.5

Field of View Coverage: 100%

EVF Adjustments: Brightness, Contrast, Color, and Backlight (Normal or Bright)

DISPLAY

Type: Rotating 4-inch Wide Screen Color LCD Display (1,230,000 dots) on detachable controller
Aspect Ratio: 16:9
Field of View Coverage: 100%
Display Adjustments: Brightness, Contrast, Color, Sharpness, and Backlight (Normal or Bright)

INPUT/OUTPUT

HD/SD SDI: Yes (with embedded audio);
HD 4:2:2(YCbCr) 1920 x 1080: 60i/50i, 1280 x 720: 60p/50p;
SD 4:2:2 (YCbCr) 640 x 480: 60i/50i
BNC Connector, output only
NTSC 480i/PAL 576i: Compliant with SMPTE 259M
Embedded Audio: Compliant with SMPTE 259M
Time Code Standard: (VITC/LTC) SMPTE 12M
HD-SDI: (Compliant with SMPTE 292M)
1080i/720p: Compliant with SMPTE 292M
Embedded Audio: Compliant with SMPTE 299M
Time Code Standard: (VITC/LTC) SMPTE 12M
Time code In/Out: Yes; BNC Connector (Input and Output)
Genlock: Yes; BNC Connector
Adjustment range: -1023 to +1023
Synch Out: Yes; BNC Connector
HD tri-level signal (HD Sync)
HD-Y signals (HD-Y)
Black Burst signal
Composite
HDMI: Yes (Type A)
Audio Input Terminal: 2 – Balanced 3-pin XLR (Mic Level, Mic Level with phantom power and Line Level)
3.5mm Microphone terminal
Headphone Jack: Available; 3.5mm stereo mini-jack
Remote Terminal: Available (Fully LANC Compatible)

POWER

Power Terminal: DC in on camera (no need for "Dummy Battery")
Battery: BP-9 Series
Compact Power Adapter: CA-940

ACCESSORIES

Tripod Adapter: Canon TA-100
Tripod Adapter Base: Canon TB-1
Wi-Fi Adapter: Canon WFT-E6A

OTHER

Dimensions(W x H x D): EOS C300 (Body plus Thumb Rest):
Approx. 5.2 x 7.0 x 6.7 in (133 x 179 x 171mm)
EOS C300 (Body plus Grip):
Approx. 6.9 x 7.0 x 6.7 in. (174 x 179 x 171mm)
EOS C300 PL (Body plus Thumb Rest):
Approx. 5.2 x 7.0 x 7.0 in. (133 x 179 x 177mm)
EOS C300 PL (Body plus Grip):
Approx. 6.9 x 7.0 x 7.0 in. (174 x 179 x 177mm)
The following is the same for both models:
EOS C300 + Monitor Unit:
Approx. 7.3 x 9.8 x 7.4 in. (185 x 249 x 187mm)
EOS C300 + Handle Unit + Monitor Unit:
Approx. 7.3 x 11.2 x 11.9 in. (185 x 284 x 301mm)
Main Unit Weight: EOS C300 Body: Approx. 3.2 lb. (1430g)
EOS C300 PL Body: Approx. 3.6 lb. (1630g) Grip: Approx. 8.1 oz. (230 g) Handle Unit: Approx. 6.3 oz. (180g)
Total Equipped Weight: EOS C300: Approx. 5.6 lb. (2520g)*
EOS C300 PL: Approx. 6.0 lb. (2720g)*
EOS C300: Approx. 6.0 lb. (2700g)**
EOS C300 PL: Approx. 6.4 lb. (2900g)**
* Weights for both models include the grip, monitor unit, BP-955, 2x CF cards. ** Weights for both models include the grip, monitor unit, Handle Unit, BP-955, 2x CF cards.

Temperature and Humidity: Performance requirements: 0°C to 40°C, 85% (relative humidity) Operating requirements: -5°C to 45°C, 60% (relative humidity)

Language Support: English, Japanese, Chinese, German, Spanish, French, Italian, Polish, Russian

Time and Date: Automatic Calendar range January 1st, 2010 through December 31, 2031 selectable in American, Japanese and European Date formats.

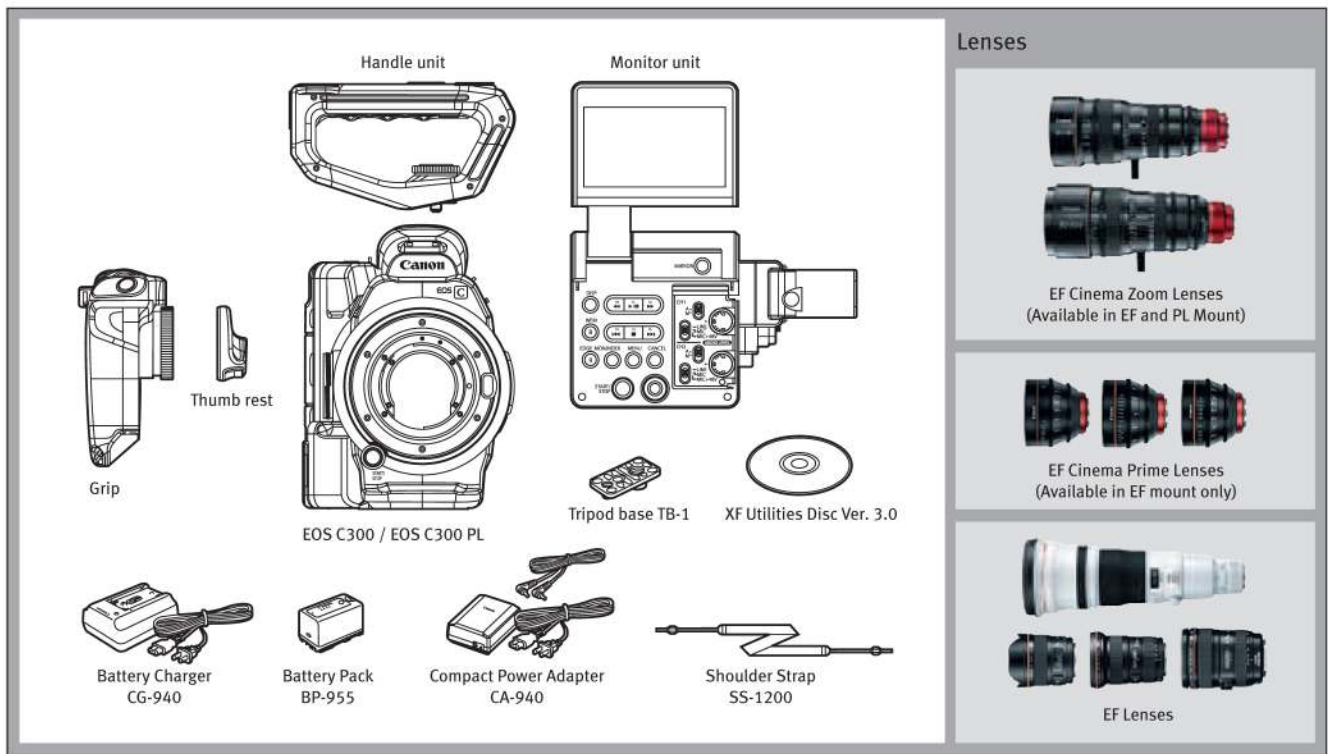
World Clock: World Clock support – UTC time setting: Setting range from +14:00 to -12:00

CANON EF CINEMA LENS SPECIFICATIONS

Canon EF Cinema Zoom Lenses													
	Mount	Focal Length	Zoom Ratio	Max. Relative Aperture (T-Number)	Iris Blades	Angle Of View		M.O.D. (from image sensor)	Object Dimensions at M.O.D.		Front Diameter	Approx. Size (W x H x L)	Approx. Mass
						1.78:1 24.6 x 13.8mm	1.78:1 24.0 x 13.5mm		1.78:1 24.6 x 13.8mm	1.78:1 24.0 x 13.5mm			
CN-E14.5-60mm T2.6 L SP	PL	14.5-60mm	4.1x	1:2.6 at 14.5-60mm	11	79.2° x 49.9° at 14.5mm 22.6° x 12.8° at 60mm	74.2° x 57.8° at 14.5mm 20.7° x 15.2° at 60mm	0.70m/2'4"	65.2 x 36.7cm at 14.5mm 15.0 x 8.4cm at 60mm	66.9 x 37.5cm at 14.5mm 15.4 x 8.6cm at 60mm	Ø136mm	5.35 x 6.42 x 12.52 in./ 136.0 x 163.1 x 318.0mm	9.9 lb./ 4.5kg
CN-E14.5-60mm T2.6 L S	EF												
CN-E30-300mm T2.95-3.7 L SP	PL	30-300mm	10x	1:2.95 at 30-240mm/ 1:3.7 at 300mm	11	43.6° x 25.4° at 30mm 4.6° x 2.6° at 300mm	44.6° x 25.9° at 30mm 4.7° x 2.6° at 300mm	1.5m/5'	98.8 x 55.6cm at 30mm 9.6 x 5.4cm at 300mm	101.3 x 56.8cm at 30mm 9.9 x 5.6cm at 300mm	Ø136mm	5.67 x 6.58 x 13.47 in./ 144.0 x 167.1 x 342.1mm	12.79 lb./ 5.8kg
CN-E30-300mm T2.95-3.7 L S	EF												

Canon EF Cinema Prime Lenses													
	Mount	Focal Length	Zoom Ratio	Max. Relative Aperture (T-Number)	Iris Blades	Angle Of View		M.O.D. (from image sensor)	Object Dimensions at M.O.D.		Front Diameter	Approx. Size (W x H x L)	Approx. Mass
						1.5:1 36.0 x 24.0mm	1.78:1 24.6 x 13.8mm		1.5:1 36.0 x 24.0mm	1.78:1 24.6 x 13.8mm			
CN-E24mm T1.5 L F	EF	24mm	-	1:1.5	11	73.7° x 53.1°	54.3° x 32.1°	0.30m/12"	28.8 x 19.2cm	19.7 x 11.0cm	Ø114mm	4.66 x 4.66 x 4.0 in./ 118.4 x 118.4 x 101.5mm	2.65 lb./ 1.2kg
CN-E50mm T1.3 L F	EF	50mm	-	1:1.3	11	39.6° x 27.0°	27.6° x 15.7°	0.45m/18"	24.9 x 16.6cm	17.0 x 9.5cm	Ø114mm	4.66 x 4.66 x 4.0 in./ 118.4 x 118.4 x 101.5mm	2.43 lb./ 1.1kg
CN-E85mm T1.3 L F	EF	85mm	-	1:1.3	11	23.9° x 16.1°	16.5° x 9.3°	0.95m/3'2"	34.3 x 22.9cm	23.4 x 13.1cm	Ø114mm	4.66 x 4.66 x 4.0 in./ 118.4 x 118.4 x 101.5mm	2.87 lb./ 1.3kg

EOS C300 / EOS C300 PL SYSTEM



EOS C300 / EOS C300 PL KIT CONTENTS



- EOS C300 or EOS C300 PL Body (with Grip/Camera cover R-F-3)
- Monitor unit
- Handle unit
- Battery Pack BP-955*
- Battery Charger CG-940*
- Compact Power Adapter CA-940*
- Eye Cup
- Viewfinder Cap
- Thumb rest
- Tripod base TB-1
- WFT Attachment
- Measuring Hook
- AC Cable x2
- DC Cable(for CA-940)
- Shoulder Strap SS-1200
- XF Utilities Disc Ver. 3.0

* Also available as optional accessory