

**Cutting edge technology in a lightweight, compact modular design with seamless integration into post-production workflows. The EOS C300 and C300 PL were designed with filmmakers in mind.**

## EOS C300 EOS C300 PL

The powerful EOS C300 and EOS C300 PL cameras are centred on Canon's unique Super 35mm CMOS sensor, revolutionary Canon DiGiC DV III Image Processor and 50Mbps 4:2:2 codec writing out to dual CF cards. Compact and lightweight, modular in design, the EOS C300 is compatible with Canon's new EF Cinema lenses and over 60 existing EF lenses for amazing creative expression. While the EOS C300 PL features an industry standard PL mount and is compatible with Canon's new PL Cinema lenses. The EOS C300 and EOS C300 PL are reliable in the studio and rugged on location – no matter how far your assignment or imagination takes you.



### Key Features

#### Outstanding Image Quality

- 8.3 Megapixel Super 35mm equivalent CMOS sensor
  - Shallow Depth-of-Field
  - High Sensitivity, Low Noise
  - High Dynamic Range
- DiGiC DV III Image Processor
  - Suppressing Moiré and Retaining Resolution
  - Reduced rolling shutter artefacts
  - Preventing Jaggies
- Mechanical ND filter

#### Lens Versatility

- EF Model : over 60 existing Canon EF lenses can be used plus the newly developed EF-mount Cinema lenses in a zoom or prime series
- PL Model : Industry standard PL lenses including Canon's new Cinema Zoom PL lenses

#### Optimal Workflow for HD Movie

- File Format
  - Internationally standardised format - MXF
  - Highly versatile, MPEG-2 Long GOP 4:2:2 codec
  - Class-leading, image quality - 50 Mbps
- Recording Media
  - Records to common and affordable CF cards
  - No need for dedicated card readers
- Industry Standard Terminals
  - HD/SD-SDI, GENLOCK, Time code, XLR

#### Mobility, Versatility, Expendability and Modular Design

- 1920x1080 at 60i, 50i, 30P, 25P, 24P and True 24.00P, and 1280x720 at 60P, 50P, 30P, 25P, 24P and True 24.00P
- Highly-expandable, modular design
- Dustproof, splash-resistant specifications
- Wireless remote operation control option
- Multi-angle control panel
- Button layout for access from many angles

#### Incredible Image Detail

Newly designed Canon Super 35mm imaging sensor allows for Full HD capture without interpolation.

#### High Image Quality Even in Low Light

A remarkably high signal-to-noise ratio that lets you record with great detail and up to 12 stops of dynamic range for quality, usable footage in low light conditions at high ISO settings.

#### Canon Log

Shoot in a much wider variety of conditions, environments, and lighting set-ups knowing that the full range exposure latitude is available in the post process

#### Ultimate Creativity in Lenses

Ability to film using over 60 existing Canon EF lenses including creative lenses like Fisheye, or the newly developed Cinema lenses in either EF or PL mount.

#### Compatibility with Accessories and Workflow

Compatible with major third-party shooting accessories like matte boxes, support rods, geared control rings and knobs for follow focus. Seamless integration into post-production

#### Wireless Control

Easy-to-control using common devices, such as smartphones, tablet computers, or notebooks using the wireless file transmitter, WFT-E6.

#### Modular Design

Modular design for superb mobility and expandability.



### Cinema EOS System

A new HD system for a new century, designed from the ground up to serve the evolving needs of the cinematography world. Seamless compatibility with a wide range of accessories and production tools. Unrivalled versatility – and limitless potential for growth. This is the Canon Cinema EOS system.



EOS C300 & EOS C300PL Technical Specifications					
<b>Imaging Sensor</b>					
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)				
Effective Pixels	3840 x 2160 pixels; Approx. 8.29 megapixels				
Total Pixels	4216 x 2340 pixels; Approx. 9.84 megapixels				
Scanning System	Progressive				
Filter	RGB Primary Color Filter (Bayer Array)				
Imaging Processor	DiGiC DV III				
<b>Lens System</b>					
Interchangeable Lens System	EOS C300 : EF mount for compatibility with over 60 EF Canon lenses. EOS C300PL: PL mount 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)				
<b>Exposure and Metering</b>					
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: 23.97Hz – 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				
<b>Focus</b>					
Focus System	Manual				
Autofocus System	Not Available				
<b>Recording/Codec</b>					
Signal System	NTSC and PAL				
Compression	8 Bit MPEG-2 Long GOP				
Colour Space	4:2:2 at 50Mbps recording				
Maximum Bit Rate	50Mbps (CBR)				
Canon Log Gamma	Available				
Recording Options	<b>Mode</b>	<b>Resolution</b>	<b>Frame Rate</b>		
	50Mbps (CBR) 4:2:2 422P@HL	1920 x 1080	59.94i/29.97p/23.98p; 50i/25p; True 24 (24.00)		
	35Mbps (VBR) 4:2:0 MP@HL	1280 x 720	59.94p/29.97p/23.98p; 50p/25p; True 24 (24.00)		
	25Mbps (CBR) 4:2:0 MP@H14	1920 x 1080 1280 x 720 1440 x 1080	59.94i/29.97p/23.98p; 50i/25p 59.94p/29.97p/23.98p; 50p/25p 59.94i/29.97p/23.98p; 50i/25p		
Recording Time	CF Card Capacity	Bit Rate :	<b>50 Mbps</b>	<b>35 Mbps</b>	<b>25 Mbps</b>
	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 other Canon models				
File Format	MXF (OP-1a)				
Maximum Clip Number	999 (per media)				
<b>Audio</b>					
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				

# EOS C300 & EOS C300PL

## Interchangeable-lens Digital Video Camcorder

Canon



Headphone Adjustment	16 Settings; Volume is muted at lowest setting
1KHz Tone	Available; -12, -18, or -20dB
<b>Features and Performance</b>	
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)
Colour Bars	Colour 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
<b>EVF</b>	
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)
<b>Display</b>	
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)

### EOS C300 & EOS C300PL Technical Specifications continued

<b>Input/Output</b>	
HD/SD SDI	Yes (with embedded audio); HD 4:2:2(YCbCr) 1920 x 1080: 60i/50i, 1280 x 720: 60p/50p;

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## Interchangeable-lens Digital Video Camcorder

Canon



	SD 4:2:2 (YCbCr) 640 x 480: 60i/50i BNC Connector, output only
NTSC 480i/PAL 576i	Compliant with SMTPE 259M
Embedded Audio	Compliant with SMTPE 272M
Time Code Standard	(VITC/LTC) SMTPE 12M
HD-SDI	Compliant with SMTPE 292M
1080i/720p	Compliant with SMTPE 292M
Embedded Audio	Compliant with SMTPE 299M
Time Code Standard	(VITC/LTC) SMTPE 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)
<b>Power</b>	
Power Terminal	DC in on camera (no need for “Dummy Battery”)
Battery	BP-9 Series
Compact Power Adapter	CA-940
<b>Kit Contents</b>	
Included	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
<b>Optional Accessories</b>	
Tripod Adapter	Canon TA-100
Battery	Battery Pack BP-955, BP-975 (with open cover), Battery Charger CG-940, Compact Power Adapter CA-940
Wi-Fi Adapter	Canon WFT-E6
<b>Other</b>	
Dimensions (W x H x D)	EOS C300 (Body plus Thumb Rest): Approx. 133 x 179 x 171mm EOS C300 (Body plus Grip): Approx. 174 x 179 x 171mm EOS C300 PL (Body plus Thumb Rest): Approx. 133 x 179 x 177mm EOS C300 PL (Body plus Grip): Approx. 174 x 179 x 177mm The following is the same for both models: EOS C300 + Monitor Unit: Approx. 185 x 249 x 187mm EOS C300 + Handle Unit + Monitor Unit: Approx. 185 x 284 x 301mm
Main Unit Weight	EOS C300 Body: Approx. 1430g      Grip: Approx. 230 g EOS C300 PL Body: Approx. 1630g      Handle Unit: Approx. 180g
Total Equipped Weight	EOS C300: Approx. 2520g*      EOS C300 PL: Approx 2720g* * Weights for both models include the grip, monitor unit, BP-955, 2x CF cards. EOS C300: Approx. 2700g**      EOS C300 PL: Approx 2900g** ** 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

