EOS C300 MARK II DIGITAL CINEMA CAMERA

Designed with extensive user input, the EOS C300 Mark II Digital Cinema Camera delivers improved image expression capabilities and operability advances including in-camera 4K recording to dual CFast card slots and 2K/Full HD recording to an SD card slot, up to 15 stops of dynamic range, 10-bit Canon Log Gamma 2 recording, and MXF support for a diverse array of workflow environments. The camera integrates a totally re-designed imaging system of advanced components, including a newly developed 8.85 Megapixel Canon Super 35mm 16:9 CMOS image sensor, powerful Canon Dual DIGIC DV5 image processors, and the Canon XF-AVC codec. Working together they provide such advantages as Dual-Pixel CMOS AF with an expanded focusing area and Face Detection (when used with Canon EF lenses). They also provide reduced visual noise, and high-sensitivity shooting at a maximum ISO of 102,400 for bright, sharp image capture using only ambient lighting.

KEY FEATURES

- New Canon 8.85 Megapixel CMOS Sensor
- Dual Canon DIGIC DV 5 Image Processors
- Canon XF-AVC H.264 Codec
- Internal 4K/2K/Full HD Recording
- Twin 3G-SDI Outputs for up to 30p 4K
- Full Manual Control
- 1.77 Megapixel Color OLED EVF With Adjustable 60° Tilt Angle
- Uses All Canon CN-E Cinema Prime and Zoom Lenses
- Uses All Canon EF and EF-S Photo Lenses (Including Specialty Tilt-Shift and Other Models)
- Built-In Mono Microphone
- Removable LCD Monitor and Control Panel with XLR Inputs
- Removable Hand Grip
- Improved Low-Angle Camera Handle Extension
- Wi-Fi for Remote LiveView Display and Camera Control (with optional WFT-E6A Wireless Controller)
**EOS C300 MARK II DIGITAL CINEMA CAMERA**

**SPECIFICATIONS**

**IMAGE SENSOR**
- **Effective Pixels**: Approx. 8.85 megapixels (4096 x 2160) when 4096 x 2160 or 2048 x 1080 is selected as the resolution.
- **Sensor Type**: CMOS (single-panel)
- **Sensor Size**: Equivalent to Super 35 mm
- **Imaging Processor**: Dual DIGIC DV 5

**LENS SYSTEM**
- **Lens Mount**: Canon EF Mount, EF Cinema Mount, or PL Mount
- **Interchangeable Lens System**: EF-mount for compatibility with EF, EF-S and EF Cinema lens systems
- **Exposure Modes**:
  - (1) Manual exposure based on shutter setting, iris setting, ISO/GAIN setting, and ND filter setting
  - (2) Push auto iris control, auto iris control (Light metering system selection, shift possible)
- **Shutter Setting**: Speed, Angle, Clear Scan, Slow, or Off mode selected
- **ISP/GAIN**:
  - ISO: 1/3 step, 1/5 step settings
  - GAIN Normal [-6dB, -2dB, -4dB, -54dB]
  - *When the sensitivity is expanded*
  - GAIN Normal [100, 160, 2560, *102400]
- **ND Filter**: 5 density settings (2, 4, 6, 8, 10) stops
- **Focus Control**:
  - (+ Auto iris control)
  - (1) Auto iris control
  - (2) Push iris control
- **ND Filter**
- **Focus Mode**:
  - Manual focus, one-shot AF, continuous AF, AF-Boosted MF
  - Face detection AF (Only lenses that support AF functions can be used in any of these modes)

**VIDEO FORMAT**
- **Video Compression Formats**: MPEG-4 AVC/H.264
- **Audio Recording System**: Linear PCM (16bit / 24bit - 48 kHz - 4ch)
- **File Format**: MOV
- **Bit Rate**:
  - 40 Mbps: Intraframe recording 50Mbps Long GOP
  - 20 Mbps: Long GOP recording
  - 10 Mbps: Proxy recording

**SF CARD**
- **Capacity**:
  - SD Card: Movies: LongGOP recording only (*)
  - CFast Card: Movies: LongGOP recording only (*)
- **Recording**: Proxy recording using low bit rate

**Power**
- **Battery Pack**: 14.4 V DC
- **Battery Charger**: CG-810

**Recording Media**
- **Cfast Card**: Movie recording, custom picture settings, metadata
- **SD Card**: Recording of movies and photos (JPEG), custom pictures, metadata, menus, and other data possible

**PLAYBACK OPERATIONS**
- Normal playback, fast forward (at speeds of 5x, 15x, 60x), fast reverse (at speeds of 5x, 15x, 60x), frame forward, frame reverse, forward skip, reverse skip, reverse review

**Clip Information Displays**
- Clip metadata display, custom picture data display

**Edit**
- Clip deletion, clip copying

**Other**
- **GPS Support**: GP-E1
- **Wireless Transmitter**: WFT-E6/E6T-E8
- **Body Dimensions** (W x H x D):
  - Approx. 5.9 x 7.2 x 7.2 in (149 x 183 x 183 mm) (with thumb rest)
- **Weight (Body Only)**:
  - EF mount: Approx. 3.9 lb (1770 g)
  - PL mount: Approx. 4.4 lb (2000 g)

**CANON 8.85 MEGAPIXEL SUPER 35MM CMOS SENSOR**

The heart of the any Canon camera is its superb image-sensor technology. The EOS C300 Mark II Cinema Camera integrates an 8.85 Megapixel Super 35mm 16.9 CMOS sensor that supports 4K (DCI) and UHD recording with a maximum resolution of 4096 x 2160 pixels. The camera fully utilizes the image data delivered by this 4K CMOS sensor to also enable Over Sampling HD Processing for 2K (DCI) and Full HD 1080-60p recording.

Each pixel in this CMOS imaging sensor also maintains a wide pixel pitch that helps maximize the amount of light that falls on to each photo site, thus enhancing the EOS C300 Mark II’s sensitivity while also minimizing noise and supporting ISO speeds of up to 102,400 for extreme low-light imaging.

**DUAL DIGIC DV5 IMAGE PROCESSORS**

The EOS C300 Mark II cinema camera’s re-designed imaging system includes dual DIGIC DV 5 image processors, which work in concert with the camera’s advanced Super 35 CMOS sensor and XF-AVC codecs to enable a wide variety of image quality and feature improvements. These include 15 stops of dynamic range, Canon Log 2 recording, Dual Pixel CMOS AF, simultaneous 4K and HD proxy recording, and 2K/Full HD frame rates of up to 120 fps.

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