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CINEMA EOS SYSTEM



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佳能香港有限公司通過ISO 9001・ISO 14001・ISO 27001(佳能數碼製作中心)及OHSAS 18001之管理體系認證

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Canon EOS C700 / C700 PL / C700 GS PL Specifications

System

• Recording System

Movies: Video compression: MPEG-4 AVC/H.264, Intra-frame or Long GOP / Apple ProRes

Audio compression: Linear PCM, 24 bit, 48 kHz, 4 channels

File format: MXF, Apple QuickTime File Format

Photos: DCF [Design rule for Camera File system], compatible with Exif Ver. 2.3, JPEG compression

• Video Configuration (recording/playback)

Recordings on the CFast card:

Format : XF-AVC (main recording/sub recording), ProRes (main recording)

Bit rate [XF-AVC] : 810 Mbps, 440 Mbps, 410 Mbps, 360 Mbps, 310 Mbps, 225 Mbps, 210 Mbps, 170 Mbps, 160 Mbps (Intra-frame); 50 Mbps (Long GOP)

Codec [ProRes] : Apple ProRes 4444, ProRes 422 HQ, ProRes 422

Resolution : 4096x2160, 3840x2160, 2048x1080, 1920x1080

Color sampling : YCbCr 4:2:2, 10 bit; RGB 4:4:4, 12 bit; RGB 4:4:4, 10 bit

Frame rate : 59.94P, 59.94i, 50.00P, 50.00i, 29.97P, 23.98P, 25.00P, 24.00P

Recordings on the SD card:

Format : XF-AVC Proxy (sub recording)

Bit rate : 35 Mbps, 24 Mbps (Long GOP)

Resolution : 2048x1080, 1920x1080

Color sampling : YCbCr 4:2:0, 8 bit

Frame rate : 59.94P, 59.94i, 50.00P, 50.00i, 29.97P, 23.98P, 25.00P, 24.00P

• Recording Media (not included)

Main recording/sub recording: CFast 2.0 card (2 slots)

Sub recording and photos: SD, SDHC (SD High Capacity) or SDXC (SD eXtended Capacity) memory card

• Image Sensor

C700 / C700 PL : Super 35mm-equivalent CMOS sensor

C700 GS PL : Super 35mm-equivalent CMOS sensor with global electronic shutter

Effective pixels : When the resolution is 4096x2160 or 2048x1080: approx. 8,850,000 pixels (4096x2160)

When the resolution is 3840x2160 or 1920x1080: approx. 8,290,000 pixels (3840x2160)

When the main recording format is [RAW (Capture Drive)]:

C700 / C700 PL: approx. 10,720,000 pixels (4512x2376)

C700 GS PL: approx. 10,150,000 pixels (4272x2376)

• Control Display

7.66 cm (3.0 in.) color LCD, approx. 1,036,000 dots, aspect ratio 3:2

• Lens Mount

C700 : Canon EF mount with Cinema Lock compatible with Canon EF lenses

C700 PL / C700 GS PL: PL mount compatible with EF Cinema lenses (PL mount) and Cooke's /i Technology

Lens multiplication factor for 35mm equivalent focal length (approximate):

When the resolution is 4096x2160, 2048x1080: 1.460

When the resolution is 3840x2160, 1920x1080: 1.534

• Shutter Speed

Speed (1/3-stop increments or 1/4-stop increments), angle, clear scan, slow, off

• Iris

Manual (1/2-stop increments or 1/3-stop increments, fine adjustment available), push auto iris, automatic aperture

• ISO Speed

C700 / C700 PL: ISO 100 to ISO 102400 / C700 GS PL: ISO 200 to ISO 102400 (1-stop or 1/3-stop increments)

• Gain

C700 / C700 PL: -6 dB to 54 dB / C700 GS PL: -6 dB to 48 dB (3-dB increments),

C700 / C700 PL: -2 dB to 54 dB / C700 GS PL: -2 dB to 48 dB (fine adjustment in 0.5-dB increments)

• ND Filter: Built-in (Off, 2, 4, 6, 8 or 10 stops), motor operated

• Exposure: AE shift, light metering modes (standard, spotlight, backlight)

• White Balance

Auto white balance (AWB); custom white balance (2 sets, A and B); user-set white balance (5 settings, 2,000 K to 15,000 K); two preset settings (daylight and tungsten lamp)

Color temperature and color compensation (CC) adjustment available for all settings except AWB.

- **Focus**

Manual focus

C700 only: Also autofocus (one-shot AF, AF-boosted MF, continuous AF); face AF and subject tracking

C700: AF type: Dual Pixel CMOS AF, contrast-detection AF

- **Subject Illumination (ISO 25600, with a f/1.2 lens, 100% output)**

59.94 Hz: 0.45 lux (shutter speed 1/30)

50.00 Hz: 0.38 lux (shutter speed 1/25)

- **Built-In Microphone:** Monaural electric condenser microphone

Terminals

- **SDI OUT Terminals (SDI OUT 1 to SDI OUT 4) / MON. Terminals (MON. 1 and MON. 2)**

BNC jack, output only, 0.8 Vp-p / 75 Ω, unbalanced

3G-SDI: SMPTE 424, SMPTE 425, SMPTE ST 299-2

HD-SDI: SMPTE 292, SMPTE ST 299-1 Embedded audio, time code (VITC/LTC)

- **HDMI OUT Terminal:** HDMI connector, output only

- **VIDEO Terminal:** Proprietary connector for the optional EVF-V70 OLED Electronic Viewfinder, output only

- **INPUT Terminals (INPUT 1 and INPUT 2)**

XLR 3-pin jack (pin1: shield, pin2: hot, pin3: cold), 2 sets, balanced

Analog Inputs Sensitivity:

MIC setting: -60 dBu (volume center, full scale -18 dB) / 600 Ω

LINE setting: 4 dBu (volume center, full scale -18 dB) / 10 kΩ

Microphone attenuator: 20 dB

Digital Inputs (AES/EBU)

AES3 standard (48 kHz, 24 bit, 2ch) / 110 Ω

- **MIC Terminal**

Ø 3.5 mm stereo mini-jack, -72 dBV (volume center, full scale -18 dB) / 1.2 kΩ

Microphone attenuator: 20 dB

- **Headphone Terminal**

Ø 3.5 mm stereo mini-jack, -α to -8 dBV (16 Ω load, volume range Min to Max) / 50 Ω or less

- **GENLOCK/SYNC OUT Terminal**

BNC jack, 1.0 Vp-p / 75 Ω

GENLOCK setting: input only; SYNC OUT setting: output only, tri-level HD signal

- **TIME CODE IN/OUT Terminal**

BNC jack, input/output

Input setting: 0.5 Vp-p to 18 Vp-p / 100 kΩ; Output setting: 1.3 Vp-p / 50 Ω or less

- **REMOTE A Terminal, REMOTE B Terminal**

REMOTE A: Ø 2.5 mm stereo sub-mini jack

REMOTE B: Circular 8-pin jack (for the optional RC-V100 Remote Controller, RS-422 interface)

- **CTRL Terminal:** LEMO circular 7-pin jack (for the optional OU-700 Remote Operation Unit)

Power/Others

- **Compatible Batteries:** V-mount batteries, rated input: 14.8 V DC (acceptable range: 12 V to 20 V DC)

- **DC IN 12V Terminal**

XLR 4-pin jack (male connector), rated input: 12 V DC

(acceptable range: 11.5 V to 20 V DC), 10 A (acceptable maximum load current)

- **DC OUT 24V 2A Terminal:** Fischer 3-pin connector, rated output: 24 V DC, maximum current: 2.0 A

- **DC OUT 12V 2A Terminal:** LEMO 2-pin connector, rated output: 12 V DC, maximum current: 2.0 A

- **D-TAP Terminal:** D-Tap connector, maximum output: 50 W (nominal)

- **Power Consumption**

49.3 W (XF-AVC, 4K recording at 59.94P or 50.00P), 59.1 W (ProRes 422 HQ, 4K recording at 29.97P or 25.00P)

- **Operating Temperature:** 0 – 40 °C (32 – 104 °F)