## **CR-N700 CLOSE THE** DISTANCE WITH UNRIVALLED CLARITY

Harness the power of a 1.0type 4K sensor and DIGIC DV7 processor with Dual Pixel AF. A 15x optical zoom (30x in Full HD) captures productions in exceptional detail, even in Night Mode. Stream 4K60P and HDR quality broadcast footage via a wide range of IP protocols.





- 4K 60P 4:2:2 10-bit Image Quality
- 1.0-inch Type CMOS sensor
- DIGIC DV7 Processor
- 15x Optical and 30x Advanced zoom
- Dual Pixel CMOS AF with EOS iTR AF X
- HDR Imagery
- Region of Interest Cropping
- Inbuilt Protocols including SRT, NDI | HX, FreeD and more
- Flexible connectivity with 12G-SDI, HDMI, IP (PoE++) and more









**CR-N700** 

CR-N500 CR-N300

CR-X500 CR-X300

RC-IP100

Remote Camera

**Control Application** 











CR-N300



## **TECHNICAL SPECIFICATIONS**

CR-N700

Indoor PTZ Camera Satin black/Titanium white

9-bladed iris diaphragm

35mm equivalent focal length:

approx, 25.5 (W) - 382.5 mm (T) Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)

20x diaital zoom 83 - 1245 mm f/28 - 45

1/60 sec

Type 1.0 (1.0 in.) single-plate CMOS sensor

f=8.3 – 124.5 mm, F/2.8 – 4.5, 15x optical zoom,

15x optical zoom (30 x with advanced zoom)

Approx. 3.0 lux (with 59.94 Hz frame frequency,

USB

Protocol<sup>2</sup>

Preset

approx. 8.29 megapixels (3840 x 2160)

CATEGORY Model Name Model Type Color

CAMERA Image Senso Effective pixels Lens

Optical zoom Digital zoom Focal Lenath

Angle of View

Minimum Subject Illumination

Shutter Speed

Iris Gain ND Filter Night Mode (IR Cut Filter Off) White Balance

Focus

Minimum focusing distance

Gamma

Pan and Till

SERVER Video Output Format SDI

HDMI

IP

shutter speed, 59.94P frame rate, and 21 dB gain) INTERFACE Approx. 2.5 lux (with 50.00 Hz frame frequency, Communication Control 1/50 sec. Network Terminal shutter speed, 50.00P frame rate, and 21 dB gain) 12G-SDI OUT Terminal 1/3 - 1/2000 sec. (specific values depend on the frame frequency and frame rate) Manual/Automatic aperture '-6.0 dB - 36.0 dB 6G-SDI OUT Terminal Built-in (Off, 1/4, 1/16, 1/64), motor operated 3G-SDI OUT Terminal Yes AUTO (AWB), Set A, Set B, preset settings (daylight: 5,600 K<sup>1</sup>, tungsten lamp: 3,200 K<sup>1</sup>), GEN-LOCK Terminal TIME CODE Terminal color temperature setting HDMI OUT Terminal (2,000 K – 15,000 K), Manual Focus mode: Manual, AF-boosted MF, Continuous RS-422 Terminal AF, Face AF, Tracking AF type: Dual Pixel CMOS AF, Contrast AF AUDIO INPUT 1/INPUT 2 Detection: Face Detection, Eye Detection Terminals 1 cm at wide end 60 cm across entire zooming range BT.709 Normal, BT.709 Wide DR, BT.709 Standard, Canon Loa 3, PQ, HLG Pan operation range: Horizontal ±170° **MIC Terminal** Pan operation speed: 0.1° - 100°/sec. Tilt operation range: Vertical  $-30^{\circ} - +90^{\circ}$ Tilt operation speed:  $0.1^{\circ} - 100^{\circ}$ /sec. [12G-SDI] **USB** Terminal 3840 x 2160 External Device I/O Terminal 59.94P/29.97P/23.98P/50.00P/25.00P (4:2:210 bit) 1920 x 1080: OTHERS 59.94P/59.94i/29.97P/29.97PsF/23.98P/50.00P/50.00i/ **Operating Environment** 25.00P/25.00PsF (4:2:2 10 bit) 1280 x 720: 59.94P/50.00P (4:2:2 10 bit) 720 x 576: 59.94i/50.00i (4:2:2 10 bit) [3G-SDI] 1920 x 1080: Power Supply 59.94P/59.94i/29.97P/23.98P/50.00P/50.00i/25.00P (4:2:210 bit) 1280 x 720: 59.94P/50.00P (4:2:2 10 bit) 720 x 576; 59.94i/50.00i (4:2:2 10 bit) Power Consumption 3840 x 2160: 59.94P/29.97P/23.98P/50.00P/25.00P (4:2:210 bit) 1920 x 1080; 59.94P/59.94i/29.97P/23.98P/50.00P/50.00i/25.00P Dimensions (W x H x D) (4:2:2 10 bit) 1280 x 720: 59.94P/50.00P (4:2:2 10 bit) Weiaht IP Ratina 720 x 576; 59.94i/50.00i (4:2:2 10 bit) Wiper [Frame frequency 59.94 Hz] 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360: Noise 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) Footnotes: [Frame frequency 29.97 Hz] 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360; 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) [Frame frequency 50.00 Hz] 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit)



[Frame frequency 25.00 Hz] 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360; 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) [Frame frequency 23.98 Hz] 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) \*59.94 fps/50.00 fps is only when H.265. JPEG has one pattern fixed depending on the frame frequency (format is fixed and cannot be selected) Resolution: 1280 x 720 59.94/29.97 Hz: 14.99 fps, 50.00/25.00 Hz: 12.50 fps, 23.98 Hz: 11.99 fps No Canon XC, RTSP/RTP, NDI I HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), SRT, FreeD Number of presets: Max. 100 (including home position) LAN, Wi-Fi, Serial, IR LAN x 1, RJ45, 1000Base-T BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, SMPTE ST 2082, 2081, 424, 425, 292, 259, 299, 272 compliant Embedded audio, Time code (VITC/LTC) No BNC jack (output only) x 1, 0.8 Vp-p/75 Ω. SMPTE ST 424, 425, 292, 259, 299, 272 compliant Embedded audio, Time code (VITC/LTC) BNC jack (also serves as the SYNC OUT terminal) BNC jack (for both input/output) HDM connector (Type A), both video and audio are output only RJ45 connector x 1 XLR 3-pin jack (balanced) ((1) shield, (2) hot, (3) cold), two lines Sensitivity (MIC): -60 dBu (manual volume center, -18 dB full scale) Sensitivity (LINE): +4 dBu (manual volume center, -18 dB full scale) Supply Voltage: 48 V DC (Bias resistance: 6.8  $k\Omega$ ) φ 3.5 mm stereo mini-jack (unbalanced; supports (rewoa ni-pula Sensitivity (MIC): -72 dBu (manual volume center, -18 dB full scale) Sensitivity (LINE): -10 dBV (manual volume center, -18 dB full scale) Supply Voltage: 2.4 V DC (Bias resistance: 2.2 kΩ) No Temperature 0°C - +40°C (+32°F - +104°F) Humidity 10% – 90% (without condensation) PoE: PoE++ power supply via LAN connector (IEEE802.3bt compliant) - PoE and PoE+ cannot be used External power source: 12 V DC PoE++ Input: Approx. 37.4 W\*/1.2 A max. (body only) DC Input: Approx. 36.7 W/3.5 A max. (body only) \* Class 5 (40.0 W required) for power supply device Approx. 200 x 269 x 208 mm (excluding protrusions) Approx. 4.4 kg (9.7 lb.) (body only) NC 30 or less

Color temperatures are given for reference purposes only.

2 NDI® is a registered trademark of NewTek. Inc

Class 5 (40.0 W required) for power supply devices

Canon Inc. canon.com Canon Europe canon-europe.com English edition Canon Europa NV 2022

