

CR-N400 4K POWER. PRO PRECISION. LIVE WITHOUT LIMITS.

The CR-N400 is a PTZ camera aimed at broadcasters and features a wide range of image quality settings including HDR and 40x Advanced Zoom in Full HD (20x optical in 4K) plus professional interfaces thanks to the latest DIGIC DV7 processor.



4K60P¹ IMAGE QUALITY



20X OPTICAL AND 40X
ADVANCED ZOOM



DIGIC DV7 PROCESSOR

HDR HDR IMAGERY



IP STREAMING AND
CONTROL
PROTOCOLS



AUTO TRACKING



Shoot in stunning 4K60P¹

Deliver breathtaking 4K60P¹ video and enjoy ultra-sharp detail with smooth motion, making fast action events, live sports, and cinematic scenes look lifelike and immersive.

Capture every detail with HDR imagery

Reveal every highlight and shadow with HDR imaging thanks to the DIGIC DV7 processor that ensures sharp clarity, vivid contrast, and lifelike colour, no matter how challenging the lighting conditions.

Connect like a pro

Integrate seamlessly with 12G-SDI, Time Code, Genlock, and Dual XLR inputs. Built for professional workflows, it ensures fast setup, reliable performance, and total studio compatibility.

Zoom further than ever

Bring the action closer with the lineup's longest 40x Advanced Zoom in Full HD. Perfect for arenas, stadiums, and auditoriums, it captures crystal-clear shots even from the furthest seats.

Track every move automatically

Rely on advanced Auto tracking with face and head detection, precision motion tracking, and smooth pan/tilt movements and enhanced pan/tilt drive unit to keep every subject framed and in focus – without a camera operator.



CR-N700



CR-N500



CR-N400

PRODUCT RANGE



CR-N350



CR-N300



CR-N100



¹ Actual output is 3840 x 2160/59.94p. Effective number of pixels: approx. 7.9 megapixels.

CAMERA

Image Sensor	Type 1/2.3 (1/2.3 in.) single-plate CMOS sensor
Effective Pixels	approx. 8.29 megapixels (3840 x 2160 at 23.98 / 25 / 29.97Hz) approx. 7.88 megapixels (3744 x 2104 at 50 / 59.94Hz)
Lens	f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom, 8-bladed iris diaphragm
Optical zoom	20x optical zoom (40x with advanced zoom)
Digital zoom	20x digital zoom
Focal Length	3.67 – 73.4 mm, f/1.8 – 2.8, 35mm equivalent focal length: Approx. 30.0 (W) - 616 mm (T) (50 / 59.94Hz) Approx. 29.3 (W) - 601 mm (T) (23.98 / 25 / 29.97Hz)
Angle of View	59.94/50.00 Hz frame frequency: Horizontal: 63.3° (W) – 3.5° (T) Vertical: 38.9° (W) – 2.0° (T) 29.97/25.00/23.98 Hz frame frequency: Horizontal: 65.6° (W) – 3.6° (T) Vertical: 39.8° (W) – 2.0° (T)
Minimum Subject Illumination	• 59.94/29.97 Hz frame frequency: -Approx. 3 lux (with 1/60 sec. shutter speed, 59.94P frame rate, and 30.0 dB gain) -Approx. 1.5 lux (with 1/30 sec. shutter speed, 59.94P frame rate, and 30.0 dB gain) • 50.00/25.00 Hz frame frequency: -Approx. 2.5 lux (with 1/50 sec. shutter speed, 50.00P frame rate, and 30.0 dB gain) -Approx. 1.3 lux (with 1/25 sec. shutter speed, 50.00P frame rate, and 30.0 dB gain)
Shutter Speed	1/3 – 1/2000 sec. (specific values depend on the frame frequency and frame rate)
Iris	Manual/Automatic aperture
Gain	0.0 dB – 36 dB
ND Filter	Built-in (Off, 1/2, 1/4, 1/8), motor operated
Night Mode (IR Cut Filter Off)	No
Optical Low-Pass Filter	No
White Balance	AUTO (AWB), Set A, Set B, preset settings (daylight: 5,600 K*, tungsten lamp: 3,200 K*), color temperature setting (2,000 K – 15,000 K), Manual
Focus	Focus mode: Manual, Continuous AF, Face / Eye AF, Tracking AF type: Hybrid AF, Contrast AF
Minimum focusing distance	1 cm at wide end, 60 cm across entire zooming range
Gamma	BT.709 Wide DR, BT.709 Standard, Canon Log 3, Canon 709, PQ, HLG
Pan and Tilt	Pan operation range: Horizontal ±170° Pan operation speed: 0.1° – 100°/sec. (Maximum speed at preset: 200.00°/sec.) Tilt operation range: Vertical -30° – +100° Tilt operation speed: 0.1° – 100°/sec. (Maximum speed at preset: 180.00°/sec.)
SERVER	
Video Output Format	SDI [12G-SDI] / 4:2:2 10-bit 3840 x 2160: 59.94P, 50.00P, 29.97P, 25.00P, 23.98P 1920 x 1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P, 29.97PsF/25.00PsF 1280 x 720: 59.94P, 50.00P 720 x 576: 50.00i 720 x 480: 59.94i [3G-SDI] / 4:2:2 10-bit 1920 x 1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P, 29.97PsF/25.00PsF 1280 x 720: 59.94P, 50.00P 720 x 576: 50.00i 720 x 480: 59.94i HDMI [HDMI] / 4:2:2 10-bit 3840 x 2160: 59.94P, 50.00P, 29.97P, 25.00P, 23.98P 1920 x 1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P, 29.97PsF/25.00PsF 1280 x 720: 59.94P, 50.00P 720 x 576: 50.00i 720 x 480: 59.94i

IP

[Frame frequency 59.94 Hz] 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit)
[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
USB Motion JPEG: 1920 x 1080 59.94 Hz: 30.00 fps, 15.00 fps, 5.00 fps 50.00 Hz: 25.00 fps, 12.50 fps, 5.00 fps 1280 x 720 59.94 Hz: 30.00 fps, 15.00 fps, 5.00 fps 50.00 Hz: 25.00 fps, 12.50 fps, 5.00 fps 640 x 360 59.94 Hz: 30.00 fps, 15.00 fps, 5.00 fps 50.00 Hz: 25.00 fps, 12.50 fps, 5.00 fps YUV: 640 x 360 59.94 Hz: 30.00 fps, 15.00 fps, 5.00 fps 50.00 Hz: 25.00 fps, 12.50 fps, 5.00 fps Canon XC, RTSP/RTP, NDI/HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), SRT, Freed Number of presets: Max. 100 (including home position)

Protocol

Preset

INTERFACE

Communication Control

Network Terminal

12G-SDI OUT Terminal

6G-SDI OUT Terminal

3G-SDI OUT Terminal

GEN-LOCK Terminal

TIME CODE Terminal

HDMI OUT Terminal

RS-422 Terminal

AUDIO INPUT 1/INPUT 2 Terminals

MIC Terminal

USB Terminal

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, unbalanced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant Embedded audio, Time code (VITC/LTC)
BNC jack (also serves as the SYNC OUT terminal)
BNC jack (for both input/output)
HDMI 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 kΩ) φ 3.5 mm stereo mini-jack (unbalanced; supports plug-in power) Sensitivity (MIC): -72 dBu (manual volume center, -18 dB full scale) Sensitivity (LINE): -12 dBV (manual volume center, -18 dB full scale) Supply Voltage: 2.4 V DC (bias resistance: 2.2 kΩ) Type-C (USB 3.0) x 1

OTHERS

Operating Environment

Temperature
0°C – +40°C (+32°F – +104°F)

Humidity
10% – 90% (without condensation)

Power Supply

PoE: PoE++ power supply via LAN connector
(IEEE802.3bt compliant)
– PoE and PoE+ cannot be used
External power source: 12 V DC (using included AC
adaptor)

Power Consumption

PoE++ Input: Approx. 34.4 W/0.8 A max. (body
only)
DC Input: Approx. 33.8 W/2.9 A max. (body only)

Dimensions (W x H x D)

* Class 5 (40.0 W required) for power supply devices
Approx. 176 x 220 x 194 mm (excluding protrusions)

Weight

Approx. 3.1 kg (6.8 lb.) (body only)

Noise

NC35 or less

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CR-N400

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What's in the box

CR-N400

- CR-N400 Main Unit
- Ceiling Plate
- Ceiling Plate Fixing Screw
- Safety Wire
- Camera-to-Mount Safety Wire
- AC Adapter
- AC Cable (EU/OTH)
- Remote Controller
- Battery
- Printed Matter Unit
- Packaging