



CR-N400

Camera	
Specification	Parameter
Color Options	Satin Black / Titanium White
Image Sensor	1/2.3-inch, CMOS (single board) Total pixels: approx. 21.14 megapixels 29.97/25.00/23.98 Hz effective pixels: approx. 8.29 megapixels (3840 x 2160) 59.94/50.00 Hz effective pixels: approx. 7.88 megapixels (3744 x 2104)
Lens	f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom, 8-bladed iris diaphragm 59.94/50 Hz 35mm equivalent focal length: approx. 30mm (W) – 616 mm (T) 29.97/25.00/23.98 Hz 35mm equivalent focal length: approx. 29.3mm (W) – 601 mm (T)
Zoom	Optical: 20x Digital: 20x Advanced Zoom (Full HD): 40x
Lens Configuration	10 groups of 12 lenses (two aspherical lenses used)
Minimum Focusing Distance	1 cm at wide end, 60 cm across entire zooming range
Angle of View	59.94/50.00 Hz Horizontal: 63.3 (W) – 3.5° (T) - Vertical: 38.9° (W) – 2.0° (T) 29.97/25.00/23.98 Hz Horizontal: 65.6 (W) – 3.6° (T) - Vertical: 39.8° (W) – 2.0° (T)
Shutter Speed	1/3 – 1/2000 sec. (specific values depend on the frame frequency)
Iris	Manual/Automatic aperture
Gain	0.0 db - 36.0 db
ND Filter	Built-in (1/8 at maximum, gradation ND), motor operated
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 Detection & Tracking, Face only AF, Eye Detection. AF type: Hybrid AF, Contrast AF
Gamma	BT.709 Wide DR, BT.709 Standard, Canon Log 3, Canon 709, HDR (PQ), HDR(HLG)
Image Stabilizer	Optical
Min. Subject Illumination	Frame frequency 59.94/29.97 Hz: Approx. 3 lux (at shutter speed 1/60 sec, frame rate 59.94P, gain 30.0 dB) Approx. 1.5 (at shutter speed 1/30 sec, frame rate 59.94P, gain 30.0 dB) Frame frequency 50.00/25.00 Hz: Approx. 2.5 lux (at shutter speed 1/50 sec, frame rate 50.00P, gain 30 dB) Approx. 1.3 lux (at shutter speed 1/25 sec, frame rate 50.00P, gain 21 dB) *All of the above are when high sensitivity mode is set to On
Pan and Tilt	Pan operation range: Horizontal $\pm 170^\circ$ Pan operation speed: 0.1° – 100°/sec. (Up to 200°/sec. with presets) Tilt operation range: Vertical -30° – +100° Tilt operation speed: 0.1° – 100°/sec. (Up to 180°/sec. with presets)

Video Output Format	
Specification	Parameter
3G-SDI	1920 x 1080: 59.94P/59.94i/50.00P/50.00i/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94p/50.00P (4:2:2 10bit)
12G-SDI	3840 x 2160: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1920 x 1080: 59.94P/59.94i/50.00P/50.00i/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94p/50.00P (4:2:2 10bit) 720 x 576: 50.00i (4:2:2 10bit) 720 x 480: 59.94i (4:2:2 10bit)
HDMI	3840 x 2160: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1920 x 1080: 59.94P/59.94i/50.00P/50.00i/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94p/50.00P (4:2:2 10bit) 720x576: 50.00P (4:2:2 10bit) 720x480: 59.94P (4:2:2 10bit)
IP	3840 x 2160: 59.94fps, 50.00fps, 29.97 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 59.94fps, 50.00fps, 29.97 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 59.94fps, 50.00fps, 29.97 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 59.94fps, 50.00fps, 29.97 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit)
Supported Video and Control Protocols	Protocol: XC Protocol, RTSP/RTP, NDI HX2, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), FreeD, SRT
Number of Presets	Max. 100 (including home position)
Interface	
Specification	Parameter
Communication Control	LAN, Wi-Fi, Serial, IR, USB
Network Terminal	LAN x 1, RJ45, 1000Base-T
12G/3G-SDI OUT Terminal	BNC jack x1 12GSDI & x1 3G-SDI, 0.8 Vp-p/75 Ω SMPTE ST 259, SMPTE ST 292, SMPTE ST 424/425, SMPTE ST2081, SMPTE ST 2082, SMPTE ST 272, SMPTE ST 299 compliant Embedded audio, Time code (VITC/LTC)
GEN-LOCK Terminal	BNC jack x 1, 1.0 Vp-p/75 Ω
Time Code Terminal	BNC jack x 1, 1.3 Vp-p/50 Ω or less
HDMI OUT Terminal	HDMI connector x 1, output only
RS-422 Terminal	RJ45 connector x 1
Audio Input 1 / Input 2 Terminals	INPUT (3-pin jack) (pin1: shield, pin2: hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/1 kΩ/Att.: 20 dB Sensitivity (LINE): +4 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ)

Mic Terminal	φ3.5 mm stereo mini jack (unbalanced, plug-in power supported) Sensitivity (MIC): -72 dBV (Manual volume center, full scale -18 dB)/1 kΩ or more/Att.: 20 dB Sensitivity (LINE): -12 dBV (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 2.4 V DC (Bias resistance: 2.2 kΩ)
Media Slot	SD Card x1, future expansion
Other	
Specification	Parameter
Operating Environment	Temperature: 0°C – +40°C (+32°F – +104°F) Humidity: 10% – 90% (without condensation)
Storage 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) External power source: 12 V DC Terminal
Power Consumption	PoE++ Input: Approx. 34.4 W max. (body only) DC Input: Approx. 33.8 W max. (body only)
Quietness	NC35 or lower
Dimensions (W x H x D)	Approx. 176 x 220 x 194 mm (6.93 x 8.66 x 7.64 in.) (excluding protrusions)
Weight	Approx. 3.1 kg (6.8 lb.) (body only)
Supported Controllers	Hardware: RC-IP100, RC-IP1000 Software: Remote Camera Control Application, Mult-Camera Control Application, Multi-Camera Management Application, Camera Search tool