CR-N300

CLOSE THE DISTANCE WITH UNRIVALLED CLARITY

The CR-N300 makes content creation and streaming simple. Equipped with a 1/2.3-inch CMOS sensor with 4K UHD resolution, 20x image stabilised optical zoom and a wide range of streaming and control protocols, it's ideal for remote productions.

- Incredible 4K UHD 30P Imagery thanks to a 1/2.3-Inch CMOS Sensor and DIGIC DV6 Processor

- 20x Optical zoom for incredible flexibility

- IP Streaming and Control Protocols such as NDI|HX*, RTMP/RTMPS and others to transform your productions

- Hybrid Auto Focus delivers precise and quick focus even in low light conditions

- Various connectivity options such as HDMI, 3G-SDI, USB, PoE+ and others for easy workflow integration

- Advanced drive mechanism allows for Smooth and Precise Control

- Image Presets for Quick and Easy Use

- Small and compact chassis for easy installation

4K UHD | **20x OPTICAL ZOOM** | **DiG!C DV6**

OPTICAL IMAGE STABILIZER

PRODUCT RANGE

CR-N500

CR-N500
CR-N300
CR-X500

CR-N300

CR-X500

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*NDI is a trademark or registered trademark of NewTek, Inc. in the United States and other countries

TECHNICAL SPECIFICATIONS

CR-N300

CATEGORY	
Model Type	Indoor PTZ low-mid
Color	Satin black/Titanium white
CAMERA	
Image Sensor	Type 1/2.3 (1/2.3 in.) single-plate CMOS sensor
Effective Pixels	approx. 8.29 megapixels (3840 x 2160)
Lens	f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom, 8-bladed circular aperture
Optical zoom	20x optical zoom
Digital zoom	20x digital zoom
Focal Length	f=3.67 – 73.4 mm, F/1.8 – 2.8, 35mm equivalent focal length: [4K UHD] approx. 29.3 (W) – 601 mm (T) [Full HD] approx. 30.5 (W) – 627 mm (T) Digital
Angle of View	[4K UHD] Horizontal: 65.6 (W) – 3.6° (T) Vertical: 39.8° (W) – 2.0° (T) [Full HD] Horizontal: 63.5 (W) – 3.4° (T) Vertical: 38.4° (W) – 1.9° (T)
Minimum Subject Illumination	Approx. 1.5 lux (shutter speed 1/30 sec., frame rate 59.947P (P (Programmed AE) shooting mode, auto slow shutter on)
Shutter Speed	1/6 – 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 (1/8 at maximum, gradation ND), motor operate
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 * Color temperatures are given for reference purposes only.
Focus	Focus mode: Manual, Continuous AF AF type: Hybrid AF, Contrast AF
Gamma	Normal1 (Standard), Normal3 (BT.709)
Pan and Tilt	Pan operation range: Horizontal ±170° Pan operation speed: 0.2° – 300°/sec. Tilt operation range: Vertical -30° – +100° Tilt operation speed: 0.2° – 170°/sec.
SERVER	
Video Output Format	
SDI	1920 x 1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280 x 720: 59.94P, 50.00P (4:2:2 10 bit) – Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI) – When 3840 x 2160 is selected for HDMI, video will not be outputted to SDI.
HDMI	3840 x 2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920 x 1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280 x 720: 59.94P, 50.00P (4:2:2 10 bit) – Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI) – When 3840 x 2160 is selected for HDMI, video will not be outputted to SDI.
IP	3840 x 2160: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) – If 59.94/50.00 Hz is selected for the frame frequency, the 3840 x 2160 format cannot be selected. – A frame rate that exceeds the frame frequency cannot be selected. – JPEG has one pattern fixed depending on the frame frequency (format is fixed and cannot be selected) Resolution: 1280 x 720 When frame frequency is 59.94/50.00 Hz: 14.99 fps, when frame frequency is 23.98 Hz: 11.99 fps, when frame frequency is 29.97/25.00 Hz: 12.50 fps

USB	1920 x 1080 59.94 Hz: 12.00 fps, 5.00 fps 50.00 Hz: 12.50 fps, 5.00 fps 1280 x 720 59.94 Hz: 12.00 fps, 5.00 fps 50.00 Hz: 12.50 fps, 5.00 fps 640 x 360 59.94 Hz: 12.00 fps, 5.00 fps 50.00 Hz: 12.50 fps, 5.00 fps
Protocol	XC (Canon's original), RTSP/RTP, NDI	HX*, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP) *NDI is a trademark or registered trademark of NewTek, Inc. in the United States and other countries
Preset	Number of presets: Max. 100 (including home position)
INTERFACE	
Communication Control	LAN, Wi-Fi, Serial, IR
Network Terminal	LAN x 1, RJ45, 1000Base-T
3G-SDI OUT Terminal	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)
GEN-LOCK Terminal	-
HDMI OUT Terminal	HDMI connector x 1, output only
RS-422 Terminal	RJ45 connector x 1
INPUT 1/INPUT 2 Terminals	-
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): -10 dBV (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 2.4 V DC (Bias resistance: 2.2 kΩ)
USB Terminal	Type-A (USB 2.0) x 1 (future expansion) Type-C (USB 3.1) 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 (IEEE802.3at compliant) – PoE cannot be used External power source: 24 V DC (using included AC adaptor)
Power Consumption	PoE+ Input: Approx. 16.2 W* max. (body only) DC Input: Approx. 15.0 W max. (body only) * Class 4 (25.5 W required) for power supply devices
Dimensions (W x H x D)	Approx. 154 x 178 x 164 mm (6.06 x 7.01 x 6.46 in.) (excluding protrusions)
Weight	Approx. 2.2 kg (4.86 lb.) (body only)
IP Rating	-

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Sales Start Date: June, 2021

PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
CR-N300(BK)(EU/OTH)	5157C003AA	4549292186338	<Please fill in RRP>
CR-N300(WH)(EU/OTH)	5157C004AA	4549292186345	<Please fill in RRP>

OPTIONAL ACCESSORIES:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
RC-IP100(EU/OTH)	5231C002AA	4549292193442	<Please fill in RRP>

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MEASUREMENT / LOGISTIC INFORMATION:

Product Name	Mercury Code	Pack type	Pack description	Quantity per pack	Length (cm)	Width (cm)	Height (cm)	Gross Weight (kg)
CR-N300(BK)(EU/OTH)	5157C003AA	EA	Each	1	34.7	30.9	28.9	4.6
		CT	Carton	2	60.5	32.5	37.1	8
		EP	Euro Pallet	12	120	80	89.2	58
			Layers per Pallet	2				
			Cartons per Layer	3				
			Products per layer	6				
CR-N300(WH)(EU/OTH)	5157C004AA	EA	Each	1	34.7	30.9	28.9	4.6
		CT	Carton	2	60.5	32.5	37.1	8
		EP	Euro Pallet	12	120	80	89.2	58
			Layers per Pallet	2				
			Cartons per Layer	3				
			Products per layer	6				
RC-IP100(EU/OTH)	5231C002AA	EA	Each	1	51	27	20	2.8
		CT	Carton	1	51	27	20	2.8
		EP	Euro Pallet	30	120	80	115	94
			Layers per Pallet	5				
			Cartons per Layer	6				
			Products per layer	6				

What's in the box?

- CR-N300
- Ceiling Plate (with fittings)
- Safety Wire
- Camera-to-mount Safety Wire
- AC Adapter

- Remote Control (WL-N01)
- Batteries

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