

# CR-N500

## CLOSE THE DISTANCE WITH UNRIVALLED CLARITY

A dynamic PTZ camera aimed at productions and video streaming, the CR-N500 boasts a 1.0-type 4K UHD sensor, Dual Pixel CMOS AF, plus 15x optical zoom, smooth pan and tilt as well as image stabilization to capture content in superb detail.



- 1.0-Type CMOS Sensor and DIGIC DV6 Processor delivers powerful 4K UHD 30P Imagery
- Stabilised 15x Optical Zoom to get closer
- IP Streaming and Control Protocols such as NDI|HX\*, RTMP/RTMPS and others to transform your productions
- Excellent low light imagery in conditions and low as 1.5lux
- Dual Pixel CMOS Auto Focus ensures quick and accurate focusing via multiple modes
- Extensive connectors such as HDMI, 3G-SDI, PoE+ and XLR Audio inputs for easy connectivity
- Advanced drive mechanism allows for Smooth and Precise Control
- HDR Imagery, with versatile image quality adjustments



**Dual Pixel**  
CMOS **AF**

**OPTICAL**  
IMAGE  
STABILIZER

### PRODUCT RANGE



CR-N500



CR-N300



CR-X500

**CR-N500**  
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-N500

<b>CATEGORY</b>		<b>Protocol</b>	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
<b>Model Type</b>	Indoor PTZ mid-high	<b>Preset</b>	Number of presets: Max. 100 (including home position)
<b>Color</b>	Satin black/Titanium white		
<b>CAMERA</b>		<b>INTERFACE</b>	
<b>Image Sensor</b>	Type 1.0 (1.0 in.) single-plate CMOS sensor	<b>Communication Control</b>	LAN, Wi-Fi, Serial, IR
<b>Effective pixels</b>	approx. 8.29 megapixels (3840 x 2160)	<b>Network Terminal</b>	LAN x 1, RJ45, 1000Base-T
<b>Lens</b>	f=8.3 - 124.5 mm, F/2.8 - 4.5, 15x optical zoom, 9-bladed iris diaphragm	<b>3G-SDI OUT Terminal</b>	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)
<b>Optical zoom</b>	15x optical zoom	<b>GEN-LOCK Terminal</b>	BNC jack x 1, 1.0 Vp-p/75 Ω, input only
<b>Digital zoom</b>	20x digital zoom	<b>HDMI OUT Terminal</b>	HDMI connector x 1, output only
<b>Focal Length</b>	f=8.3 - 124.5 mm, F/2.8 - 4.5, 35mm equivalent focal length: approx. 25.5 (W) - 382.5 mm (T)	<b>RS-422 Terminal</b>	RJ45 connector x 1
<b>Angle of View</b>	Horizontal: 73.0 (W) - 5.7° (T) Vertical: 45.2° (W) - 3.2° (T)	<b>INPUT 1/INPUT 2 Terminals</b>	XLR/Audio Input (3-pin jack) (pin1: shield, pin2: hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/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)
<b>Minimum Subject Illumination</b>	3840 × 2160: Approx. 1.5 lux (shutter speed 1/30 sec., Frame Rate 29.97P, Gain 33.0 dB) 1920 × 1080: Approx. 3 lux (shutter speed 1/60 sec., Frame Rate 59.94P, Gain 33.0 dB)	<b>MIC Terminal</b>	ø3.5 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)
<b>Shutter Speed</b>	1/3 - 1/2000 sec. (specific values depend on the frame frequency and frame rate)	<b>USB Terminal</b>	Type-A (USB 2.0) x 1 (future expansion)
<b>Iris</b>	Manual/Automatic aperture	<b>OTHERS</b>	
<b>Gain</b>	~6.0 db ~ 33.0 db	<b>Operating Environment</b>	Temperature 0°C - +40°C (+32°F - +104°F) Humidity 10% - 90% (without condensation)
<b>ND Filter</b>	Built-in (Off, 1/4, 1/16, 1/64), motor operated	<b>Power Supply</b>	PoE: PoE+ power supply via LAN connector (IEEE802.3at compliant) - PoE cannot be used External power source: 24 V DC (using included AC adaptor)
<b>White Balance</b>	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	<b>Power Consumption</b>	PoE+ Input: Approx. 19.6 W* max. (body only) DC Input: Approx. 18.6 W max. (body only) * Class 4 (25.5 W required) for power supply devices
<b>Focus</b>	Focus mode: Manual, AF-boosted MF, Continuous AF, Face AF, Tracking AF type: Dual Pixel CMOS AF, Contrast AF	<b>Dimensions (W x H x D)</b>	Approx. 200 x 269 x 208 mm (7.87 x 10.59 x 8.19 in.) (excluding protrusions)
<b>Gamma</b>	Normal1 (Standard), Normal2 (x4.0), Normal3 (BT.709), Normal4 (x5.0), Wide DR, Canon Log 3	<b>Weight</b>	Approx. 4.1 kg (9.04 lb.) (body only)
<b>Pan and Tilt</b>	Pan operation range: Horizontal ±170° Pan operation speed: 0.1° - 100°/sec. Tilt operation range: Vertical -30° - +90° Tilt operation speed: 0.1° - 100°/sec.	<b>IP Rating</b>	-
<b>SERVER</b>			
<b>Video Output Format</b>			
<b>SDI</b>	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.		
<b>HDMI</b>	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.		
<b>IP</b>	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 23.98Hz: 11.99 fps, when frame frequency is 29.97/25.00 Hz: 12.50 fps.		
<b>USB</b>	-		



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Canon Inc.  
canon.com  
Canon Europe  
canon-europe.com  
English edition  
Canon Europa NV 2021

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# CR-N500



## PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code	List Price	Recommended Retail Price
CR-N500(BK)(EU/OTH)	4839C003AA	4549292182750	4749,05 €	6048,79 €
CR-N500(WH)(EU/OTH)	4839C004AA	4549292182767	4749,05 €	6048,79 €

## CONSUMABLES:

Product Name	Mercury Code	EAN Code	List Price	Recommended Retail Price
RC-IP100(EU/OTH)	5231C002AA	4549292193442	1804,05€	2297,79 €

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Sales Start Date: April 2021 End



## MEASUREMENT / LOGISTIC INFORMATION:

Product Name	Mercury Code	Pack type	Pack description	Quantity per pack	Length (cm)	Width (cm)	Height (cm)	Gross Weight (kg)
CR-N500(BK)(EU/OTH)	4839C003AA	EA	Each	1	46	36	36	6.5
		CT	Carton	1	46	36	36	6.5
		EP	Euro Pallet	12	120	80	123	88
			Layers per Pallet	3				
			Cartons per Layer	4				
			Products per layer	4				
CR-N500(WH)(EU/OTH)	4839C004AA		Each	1	46	36	36	6.5
			Carton	1	46	36	36	6.5
			Euro Pallet	12	120	80	123	88
			Layers per Pallet	3				
			Cartons per Layer	4				
			Products per layer	4				
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-N500
- Ceiling Plate (with fittings)
- Safety Wire
- Camera-to-mount Safety Wire
- AC Adapter
- Remote Control WL-N01
- Batteries

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