

# 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



**OPTICAL  
IMAGE  
STABILIZER**

#### PRODUCT RANGE



CR-N500

CR-N500

**CR-N300**

CR-X500



**CR-N300**



CR-X500

**Canon**

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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**  
**Color**

Indoor PTZ low-mid  
Satin black/Titanium white

## CAMERA

**Image Sensor**  
**Effective Pixels**  
**Lens**

Type 1/2.3 (1/2.3 in.) single-plate CMOS sensor  
approx. 8.29 megapixels (3840 x 2160)  
f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom,  
8-bladed circular aperture

**Optical zoom**  
**Digital zoom**

20x optical 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)

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## 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**

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**HDMI OUT Terminal**

HDMI connector x 1, output only

**RS-422 Terminal**

RJ45 connector x 1

**INPUT 1/INPUT 2 Terminals**

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**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)  
Type-A (USB 2.0) x 1 (future expansion)  
Type-C (USB 3.1) x 1

## USB Terminal

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

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# CR-N300

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.

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>

The Canon logo in its signature red font.

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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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