

# CR-N100

# CLOSE THE DISTANCE WITH UNRIVALLED CLARITY

A high quality 4K PTZ camera with advanced autofocus, 20x optical zoom and multiple IP protocols with the option for intelligent Auto Tracking.



- Image Quality that captures exceptional video in up to 4K UHD 30P, 4:2:2 10-bit
- DIGIC DV6 Processor thanks to powerful image processing for all types of environments
- 20x Optical Zoom broad lens covering a focal length of 29.3-601mm (35mm equivalent)
- Hybrid Auto Focus for quick and accurate auto focusing even in low light conditions
- IP Streaming and Control Protocols including NDI | HX<sup>2</sup>, SRT, RTMP/RTMPS, Canon XC and Standard Communication protocol
- Auto Tracking<sup>1</sup> that follows a subject automatically via an additional paid application
- Smooth and Precise Remote Control allows for pan and tilt movements as slow as 0.2 °/s
- Small and Compact Chassis for a compact camera weighing just 2.2kg



Hybrid CMOS AF III



## PRODUCT RANGE



CR-N100



CR-N300



CR-N500

CR-N100  
CR-N300  
CR-N500  
CR-N700

# Canon

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<sup>1</sup> Auto Tracking app: paid licence required

<sup>2</sup> NDI is a trademark or registered trademark of NewTek, Inc. in the United States and other countries

# TECHNICAL SPECIFICATIONS

# CR-N100

## CATEGORY

### Model Name

CR-N100

### Model Type

Indoor PTZ Camera

### 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

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)

### 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 operated

### Night Mode (IR Cut Filter Off)

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

\* color temperatures are given for reference purposes only.

### Focus

Focus mode: Manual, Continuous AF, Face AF,

Tracking AF type: Hybrid AF, Contrast AF

### Minimum focusing distance

-

### 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

-

#### HDMI

3840x 2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit)

1920x 1080: 59.94P/59.94i, 50.00P/50.00i/25.00P,

29.97P/23.98P (4:2:2 10 bit)

1280x 720: 59.94P, 50.00P (4:2:2 10 bit)

#### IP

[Frame frequency 59.94 Hz]

1920x 1080: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps

(4:2:0 8 bit)

1280x 720: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps

(4:2:0 8 bit)

640x 360: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps

(4:2:0 8 bit)

[Frame frequency 29.97 Hz]

3840x 2160: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit)

1920x 1080: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit)

1280x 720: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit)

640x 360: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit)

## USB

## Protocol

## Preset

## INTERFACE

### Communication Control

#### Network Terminal

LAN, Serial, IR

#### 12G-SDI OUT Terminal

LAN x 1, RJ45, 1000Base-T

#### 6G-SDI OUT Terminal

No

#### 3G-SDI OUT Terminal

No

#### GEN-LOCK Terminal

-

#### TIME CODE Terminal

No

#### HDMI OUT Terminal

No

#### RS-422 Terminal

HDMI connector x 1, output only

#### AUDIO INPUT 1/INPUT 2

RJ45 connector x 1

#### Terminals

No

#### MIC Terminal

No

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-C (USB 3.1) x 1

#### USB Terminal

#### External Device I/O Terminal

-

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# TECHNICAL SPECIFICATIONS

# CR-N100

## OTHERS

<b>Operating Environment</b>	Temperature 0°C – +40°C (+32°F – +104°F) Humidity 10% – 90% (without condensation)
<b>Power Supply</b>	PoE: PoE+ power supply via LAN connector (IEEE802.3af compliant) – PoE cannot be used External power source: 24 V DC (using included AC adaptor)
<b>Power Consumption</b>	PoE+ Input: Approx. 16.2 W* max. (body only) DC Input: Approx. 15.0 W max. (body only)
<b>Dimensions (W x H x D)</b>	* Class 4 (25.5 W required) for power supply devices Approx. 154 x 178 x 164 mm (excluding protrusions)
<b>Weight</b>	Approx. 2.2 kg (4.86 lb.) (body only)
<b>IP Rating</b>	-
<b>Wiper</b>	-
<b>Noise</b>	NC35 or less

## What's in the box?

- CR-N100 Camera
- Ceiling Plate (with fittings)
- Safety Wire
- Camera-to-mount Safety Wire
- AC Adapter
- Remote Control (WL-N01)
- Batteries



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