

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-N300



CR-X500

CR-N500

CR-N300

CR-X500

Canon

Live for the story_

*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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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

Canon Inc.

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Canon Europe

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English edition

Canon Europa NV 2021

