

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 | Indoor PTZ low-mid |
| Color | Safin 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/AH.: 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. 1.62 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 Inc.
canon.com
Canon Europe
canon-europe.com
English edition
Canon Europa NV 2021

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Sales Start Date: June, 2021



PRODUCT DETAILS:

| Product Name | Mercury Code | EAN Code | List Price | Recommended Retail Price |
|---------------------|--------------|---------------|------------|--------------------------|
| CR-N300(BK)(EU/OTH) | 5157C003AA | 4549292186338 | 2374,05 € | 3023,79 € |
| CR-N300(WH)(EU/OTH) | 5157C004AA | 4549292186345 | 2374,05 € | 3023,79 € |

OPTIONAL ACCESSORIES:

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

The Canon logo is displayed 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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