

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

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-N500

CATEGORY

Model Type
Color

Indoor PTZ mid-high
Satin black/Titanium white

CAMERA

Image Sensor
Effective pixels
Lens

Type 1.0 (1.0 in.) single-plate CMOS sensor
approx. 8.29 megapixels (3840 x 2160)
f=8.3 - 124.5 mm, F/2.8 - 4.5, 15x optical zoom,
9-bladed iris diaphragm

Optical zoom
Digital zoom
Focal Length

15x optical zoom
20x digital zoom
f=8.3 - 124.5 mm, F/2.8 - 4.5, 35mm equivalent focal
length: approx. 25.5 (W) - 382.5 mm (T)

Angle of View

Horizontal: 73.0 (W) - 5.7° (T)
Vertical: 45.2° (W) - 3.2° (T)

Minimum Subject Illumination

3840 x 2160: Approx. 1.5 lux (shutter speed 1/30 sec.,
Frame Rate 29.97P, Gain 33.0 dB)
1920 x 1080: Approx. 3 lux (shutter speed 1/60 sec.,
Frame Rate 59.94P, Gain 33.0 dB)

Shutter Speed

1/3 - 1/2000 sec. (specific values depend on the
frame frequency and frame rate)

Iris

Manual/Automatic aperture

Gain

~6.0 db ~ 33.0 db

ND Filter

Built-in (Off, 1/4, 1/16, 1/64), motor operated

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

Focus

Focus mode: Manual, AF-boosted MF, Continuous
AF, Face AF, Tracking

Gamma

AF type: Dual Pixel CMOS AF, Contrast AF
Normal1 (Standard), Normal2 (x4.0), Normal3
(BT.709), Normal4 (x5.0), Wide DR, Canon
Log 3

Pan and Tilt

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.

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 23.98Hz: 11.99 fps, when
frame frequency is 29.97/25.00 Hz: 12.50 fps.

USB

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Protocol

XC (Canon's original), RTSP/RTP, NDI | HX*,
RTMP/RTMPS, Standard Communication (Serial),
Standard Communication (IP)

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Number of presets: Max. 100
(including home position)

Preset

INTERFACE

Communication Control
Network Terminal
3G-SDI OUT Terminal

LAN, Wi-Fi, Serial, IR
LAN x 1, RJ45, 1000Base-T

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)

BNC jack x 1, 1.0 Vp-p/75 Ω, input only

HDMI connector x 1, output only

RJ45 connector x 1

GEN-LOCK Terminal

HDMI OUT Terminal

RS-422 Terminal

INPUT 1/INPUT 2 Terminals

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)

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)

MIC Terminal

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. 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

Dimensions (W x H x D)

Approx. 200 x 269 x 208 mm (7.87 x 10.59 x 8.19 in.)
(excluding protrusions)

Weight

Approx. 4.1 kg (9.04 lb.) (body only)

IP Rating

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What's in the box?

- CR-N500
- Ceiling Plate (with fittings)
- Safety Wire
- Camera-to-mount Safety Wire
- AC Adaptor
- Remote Control WL-N01
- Batteries

Live for the story_

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English edition
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