



CR-N500 REMOTE CAMERA

VIVID 4K AT YOUR FINGERTIPS

4K

High Quality 4K 30P and FHD 60P Video Output

Smooth & Responsive Pan and Tilt Control

Seamless Integration into Canon Imaging Workflow

Easy Integration into IP Systems

Various Interfaces Supported for Multiple Environments

One-Person Operation

Three Year Warranty

Canon's CR-N500 4K UHD PTZ camera produces exceptional image quality and is equipped with powerful features and functions to be utilized in many industries including House of Worship, Education, Broadcast, Corporate, Events and more.

The CR-N500 produces incredible image quality with the combination of a 1" 4K CMOS sensor, DIGIC DV 6 image processor and 15x optical zoom 4K UHD lens. These core components provide the image-processing power and speed that enables 4K UHD video acquisition, image stabilization and precise Dual Pixel CMOS AF. On-air pan and tilt movement is possible thanks to the smooth and responsive pan and tilt mechanism equipped with the CR-N500.

The CR-N500 camera supports Canon's new XC Protocol as well as RTMP, NDI®|HX Live Video Production Protocol, Standard (VISCA) Protocol and more. The CR-N500 can be controlled remotely by IP, Serial, IR or wirelessly via Wi-Fi.

HIGH QUALITY 4K 30P AND FHD 60P VIDEO OUTPUT

The CR-N500 features a Canon 1.0-inch 4K CMOS image sensor capable of 4K UHD video capture at 30P and up to 60P in Full HD, making the CR-N500 PTZ camera ideal for the remote and unobtrusive capture of professional productions.

The CR-N500's 1.0-inch sensor allows for larger photosites, resulting in stunning images with less noise in low-light situations. The larger sensor also exhibits a shallow depth of field at large apertures, producing blurred backgrounds in images, while Canon's DPAF keeps subjects in sharp focus. A ninebladed iris also helps to produce beautiful and natural bokeh. The CR-N500's DIGIC DV 6 image processor drives the high sensitivity (1.5 lux*) and low noise performance of the camera, yielding amazing imagery in a variety of shooting conditions.

*When camera set to: (3840 × 2160 : shutter speed 1/30 sec., Frame Rate 2997P, Gain 33.0 dB).



SMOOTH AND RESPONSIVE PAN AND TILT CONTROL

The CR-N500 is equipped with the PT drive mechanism that can change the pan/tilt speed in incremental steps. This allows the operator to set the speed to desired preference to allow for smooth PT movement. The CR-N500 exhibits a variable Pan and Tilt speed of 0.1° - 100°/second.

CR-N500 REMOTE CAMERA



	SPECIFICATION	PARAMETER
CAMERA	COLOR	Satin Black / Titanium White
	IMAGE SENSOR	Type 1.0 (1.0 in.) single-plate CMOS sensor Total pixels: approx. 13.40 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)
	LENS	f=8.3 – 124.5 mm, F/2.8 – 4.5, 15x optical zoom, 9-bladed iris diaphragm 35mm equivalent focal length: approx. 25.5 (W) – 382.5 mm (T)
	Z00M	Optical: 15x Digital: 20x
	LENS CONFIGURATION	18 elements in 14 groups (including 2 aspheric elements)
	MINIMUM FOCUSING DISTANCE	1 cm (0.39 in.) at full wide angle, 60 cm (2.0 ft.) throughout the zoom range
	ANGLE OF VIEW	Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)
	SHUTTER SPEED	1/3 – 1/2000 sec. (specific values depend on the frame frequency)
	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 *Color temperatures are given for reference purposes only.
	FOCUS	Focus mode: Manual, AF-boosted MF, Continuous AF, Face AF, Tracking AF type: Dual Pixel CMOS AF, Contrast AF
	GAMMA	Normal1 (Standard), Normal2 (x4.0), Normal3 (BT.709), Normal4 (x5.0), Wide DR, Canon Log 3
	IMAGE STABILIZER	Optical-shift
	MIN. SUBJECT ILLUMINATION	3840 × 2160: Approx. 1.5 lux (shutter speed 1/30 sec., frame frequency 2997P, Gain 33.0 dB) 1920 ×1080: Approx. 3 lux (shutter speed 1/60 sec., frame frequency 5994P, Gain 33.0 dB)
	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.

RC-IP100 REMOTE CAMERA CONTROLLER



Canon's RC-IP100 Remote Camera Controller provides IP control for up to 99 supported Canon cameras. An additional Canon camera can be controlled through the serial port. The controller is equipped with a 7" interactive touch screen and a joystick in order to pan, tilt, zoom and change camera function settings remotely. The smooth precision of the joystick allows operators to capture on-air movements with confidence.

RC-IP100 Remote Camera Controller sold separately.

For more info: pro.usa.canon.com

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SPECIFICATION	PARAMETER
	1920 x 1080: 59,94P/59,94i, 50.00P/50.00i/25.00P, 29,97P/23,98P (4:2:2 10 bit)
SDI	1280 x 720: 59,94P, 50.00P (4:2:210 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: 2997P, 25.00P, 23.98P (4:2:2 10 bit) 1920 x 1080: 5994P/5994i, 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.
VIDEO OUTPUT FORMA1	3840 x 2160: 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 59.94 fps, 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 59.94 fps, 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 59.94 fps, 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 59.94 fps, 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 16 fps (4:2:0 8 bit) 17 fps (4:2:0 8 bit) 18 fps (4:2:0 8 bit) 19 fps (4:2:0 8 bit)
SUPPORTED VIDEO A CONTROL PROTOCOL	
NUMBER OF PRESETS	Max. 100 (including home position)
COMMUNICATION CONTROL	LAN, Wi-Fi, Serial, IR
NETWORK TERMINAL	LAN x 1, RJ45, 1000Base-T
3G-SDI OUT TERMINA	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	BNC jack x 1, 1.0 Vp-p/75 Ω , input only
HDMI OUT TERMINAL	HDMI connector x 1, output only
RS-422 TERMINAL	RJ45 connector x 1
INPUT 1 / INPUT 2 XLR TERMINALS	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)
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)
USB TERMINAL	Type-A (USB 2.0) x 1 (service use only)
MEDIA SLOT	microSD card slot x 1, future expansion, recording unavailable
OPERATING ENVIRONMENT	Temperature: 0°C - +40°C (+32°F - +104°F) Humidity: 10% - 90% (without condensation)
STORAGE ENVIRONM	Harriary. 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. 7.87 x 10.59 x 8.19 in. (200 x 269 x 208 mm) (excluding protrusions)
WEIGHT	Approx. 9.04 lb. (4.1 kg) (body only)
SUPPORTED CONTROLLERS	Hardware: RC-IP100 Software: Remote Camera Control Application
POWER SUPPLY POWER CONSUMPTION DIMENSIONS (W X H WEIGHT SUPPORTED CONTROLLERS	PoE: PoE+ power supply via LAN connector (IEEE802.3at compliant) – PoE cannot be used External power source: 24 V DC (using included AC adapt 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 XD) Approx. 7.87 x 10.59 x 8.19 in. (200 x 269 x 208 mm) (excluding protrusions) Approx. 9.04 lb. (4.1 kg) (body only) Hardware: RC-IP100

Specifications and availability subject to change without notice. Products not shown to scale. Weight and dimensions are approximate. Product shown with optional accessories. Not responsible for typographical errors.

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