CR-X300
REMOTE CAMERA

POWERFUL 4K
RAIN OR SHINE

The CR-X300 4K UHD PTZ Camera brings exceptional image quality at 4K resolution for outdoor use by broadcasters, cable networks, sports stadiums, concert venues and house of worship environments, this camera is IP65 rated for dust and water resistance and is equipped with powerful features and functions.

The CR-X300 PTZ produces incredible image quality with the combination of a 1/2.3" CMOS sensor and the DIGIC DV 6 image processor. This camera incorporates a Canon 4K lens that exhibits a 20x optical zoom ratio that maintains a high level of precision throughout the zoom range.

The CR-X300 camera supports Canon's XC Protocol as well as RTMP, NDI®|HX Live Video Production Protocol, Standard Protocol, SRT, FreeD and more. The CR-X300 can be controlled remotely by IP or Serial interfaces. Furthermore, this camera is equipped with POE++ which allows for Power, Control and Video to be transmitted over a single network cable. This helps to reduce complex wiring schemes and can lead to more cost savings.

4K

- High-Quality 4K 30P and FHD 60P Video Output
- Canon 20x Optical 4K UHD Zoom Lens
- Smooth & Responsive Pan and Tilt Performance
- Flexible IP Connectivity
- IP65 Water and Dust Resistance
- Built-in Wiper
- Multi-Camera Integration and Control
- POE++ Supported

FLEXIBLE IP CONNECTIVITY
VIDEO STREAMING AND CONTROL

The CR-X300 PTZ camera offers a variety of IP connectivity possibilities, including support for Canon's XC Protocol, Standard Protocol, SRT, FreeD, RTMP, and NDI®|HX. Utilizing today's most popular live production protocols and streaming platforms, the CR-X300 instantly streams stunning, high quality 4K video, eliminating the wait for completed video files to download.

The CR-X300 supports the NDI | HX® protocol that is well-established in the field of video production and broadcasting as the supporting RTP. NDI offers users a simple, low latency network solution for plug-n-play connectivity for PTZ cameras, controllers, and even system monitors. The CR-X300 blends seamlessly into existing NDI networks for easy integration into many environments including live events, sports arenas, outdoor venues and more.

Install paid apps through the Add-On Applications System, and operate them within the CR-X300 without the need for an external computer.

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

The CR-X300 features a Canon 1/2.3-inch 4K CMOS image sensor capable of 4K UHD video capture at 30P or up to 60P in Full HD, making it a strong contender for professional productions.

The CR-X300 PTZ camera incorporates Canon's DIGIC DV 6 Image Processor, which is essential in providing high image quality, advanced performance and convenient operability. This advanced core technology component provides the image-processing power and speed that enables features such as 4K UHD video acquisition and precise Hybrid AF.

The CR-X300 is equipped with *Hybrid AF,* an auto focus system that combines high-precision contrast AF technology and the high-speed phase-difference AF technology to confirm auto focus from the camera. This hybrid auto focus system achieves auto focus faster and more reliably compared to contrast auto focus alone.

CR-X300
REMOTE CAMERA

	SPECIFICATION	PARAMETER
CAMERA	COLOR	Titanium White
	IMAGE SENSOR	1/2.3" 4K UHD CMOS Image Sensor Total pixels: approx. 21.14 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)
	LENS	f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom 35mm equivalent focal length: [4K UHD] approx. 29.3 (W) – 601 mm (T), [Full HD] approx. 30.5 (W) – 627 mm (T)
	ZOOM	Optical: 20x Digital: 20x
	LENS CONFIGURATION	8-bladed circular aperture: 12 elements in 10 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 (from the front window)
	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)
	SHUTTER SPEED	1/6 – 1/2000 sec. (specific values depend on the frame frequency)
	ND FILTER	ND filter: 1/8 at maximum Enhanced ND filter: 1/32
	GAIN	0.0 dB – 36 dB
	WHITE BALANCE	AUTO (AWB), Set A, Set B, preset settings (daylight: approx. 5600K*, tungsten lamp: approx. 3200K*), color temperature setting (2000K – 15000K), Manual **Color temperatures are given for reference purposes only.*
	FOCUS	Focus Mode: Manual, Continuous AF, Face Detection AF, Tracking AF type: Hybrid AF, Contrast AF
	GAMMA	Normal 1 (Standard), Normal 3
	IMAGE STABILIZER	Optical-shift (Standard IS, Powered IS)
	MIN. SUBJECT ILLUMINATION	Approx. 3.0 lux (shutter speed 1/60 sec, frame frequency 59.94Hz (P (Program AE) shooting mode), auto slow shutter "Off")
	MICROPHONE	Buillt-in, waterproof
	WIPER	Equipped
PAN/TILT	OPERATION RANGE	Pan operation range: Horizontal ±180° Tilt operation range: Vertical -40° – +215°
	OPERATION SPEED	0.3° – 60°/sec.
	NOISE	NC45 or lower (when operating at 60°/sec)

RC-IP100 REMOTE CAMERA CONTROLLER

Canon's RC-IP100 Remote Camera Controller provides control for a Canon camera through the serial port. Additionally, up to 99 supported Canon cameras can be operated via IP control. 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.

	SPECIFICATION	PARAMETER
VIDEO OUTPUT FORMAT	SDI	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*
	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	**Frame frequency 59.94 Hz** 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) **Frame frequency 29.97 Hz** 3840 x 2160: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) **Frame frequency 50.00 Hz** 1920 x 1080: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) **Frame frequency 25.00 Hz** 3840 x 2160: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) **Frame frequency 23.98 Hz** 3840 x 2160: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) 1920 x 1080: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) 1280 x 720: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) 640 x 360: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) **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 59.94/29.97 Hz: 14.99 fps,* *When frame frequency is 50.00/25.00 Hz: 12.50 fps,* *When frame frequency is 23.98 Hz: 11.99 fps*
	VIDEO TRANSMISSION PROTOCOL	XC (Canon's original), RTSP/RTP, NDI|HX, RTMP/RTMPS, SRT, FreeD
	CONTROL PROTOCOL	XC (Canon's original), NU (Canon's original), NDI|HX, Standard Communication (Serial), Standard Communication (IP)
	NUMBER OF PRESETS	Max. 100 (including home position)
INTERFACE	COMMUNICATION CONTROL	LAN, Serial
	NETWORK TERMINAL	LAN x 1, RJ45, 1000Base-T
	6G-SDI OUT TERMINAL	BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC)
	GEN-LOCK TERMINAL	BNC jack x1, 1.0 Vp-p/75 Ω, input only
	HDMI OUT TERMINAL	HDMI connector x 1, output only
	RS-422 TERMINAL	RJ45 connector x 1
	EXTERNAL DEVICE I/O TERMINAL	AUX connector x 1
OTHER	OPERATING ENVIRONMENT	Temperature: +5°F – +104°F (-15°C – +40°C) *Startup temperature: +14°F – +104°F (-10°C – +40°C)* Humidity: 90% or less (without condensation)
	WIND RESISTANCE	Normal Operation: 15m/s, Operation Possible: 30m/s, Non-Destructive: 60m/s
	POWER SUPPLY	PoE: PoE++ power supply via LAN connector (IEEE802.3bt compliant) – PoE and PoE+ cannot be used External power source: 12V DC *(use included power cable with DC plug)*
	POWER CONSUMPTION	PoE++ Input: 40.0W DC Input: 40.0W **Class 5 (40.0W required) for power supply devices*
	DIMENSIONS (W X H X D)	Approx. 8.54 x 12.24 x 8.54 in. (217 x 311 x 217 mm) (excluding protrusions and connector cover)
	WEIGHT	Approx. 15.5 lb. (7 kg) (body only)
	SUPPORTED CONTROLLERS	Hardware: RC-IP100 Software: Remote Camera Control Application

For more info: pro.usa.canon.com

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