

Canon

# 4K PTZ CAMERAS

*EXQUISITE 4K AT YOUR FINGERTIPS*

4K  
UHD

FULL HD  
1920x1080



*BROADCAST-QUALITY VIDEO  
INDOOR AND OUTDOOR APPLICATION  
FLEXIBLE CONNECTIVITY*



# FEATURES AND BENEFITS

Canon's line of professional PTZ cameras are engineered to provide the highest level of image quality and compatibility for demanding professionals in a multitude of production applications.

## >>> BROADCAST-QUALITY VIDEO

Drawing on over 80 years of imaging excellence, these cameras utilize genuine Canon lenses and a DIGIC imaging processor to provide 4K UHD video that can effortlessly match with Canon's Cinema EOS cameras to provide a uniform look to your broadcast or live stream. Common features of the 4K PTZ line of cameras include:

- Fast and precise autofocus
- Smooth on-air camera movements
- Oversampling HD processing for higher quality HD video
- Built-in image stabilization
- Powerful low-light performance



Reads all pixels for 4K UHD

Over Sampling HD Processing



Generates high-definition Full HD data



4K UHD  
3840 x 2160



Full HD  
1920 x 1080

## >>> FLEXIBLE CONNECTIVITY

The Canon PTZ camera lineup<sup>†</sup> offers a variety of IP connectivity possibilities, including support for Canon's XC Protocol, Standard Protocol, RTSP/RTP, RTMP/RTMPS, SRT, FreeD, and NDI|HX. Utilizing today's most popular live production protocols and streaming platforms, the cameras deliver stunning, high-quality 4K video.

In addition to the various IP protocols supported, there are a variety of video features on Canon PTZ cameras that are appealing to productions of all types. HDMI and SDI outputs are vital for broadcasting, while Genlock and Timecode are key features for any multi-camera production. Select models also support the FreeD protocol for virtual set productions.

The cameras are also compatible with the Canon RC-IP100 and RC-IP1000 controllers, the Remote Camera Control Application via IP<sup>†</sup> and selected third-party controllers, making integration with existing set-ups a breeze.

## >>> AUTO TRACKING & AUTO LOOP ADD-ON APPLICATIONS

Available on select PTZ cameras, the Auto Tracking Application follows a speaker and maintains their composition in the image during presentations, lectures, and other events. Thanks to Canon's high-performance pan/tilt/zoom mechanism and the automatic tracking application, the camera can smoothly capture people's movements with broadcast-quality video.

The camera comes with a free version of the Auto Tracking Application, called Auto Tracking Lite. This free version provides a smooth and precise auto tracking experience with a basic auto tracking configuration. For those users who require more advanced tracking customization, upgrading to the paid version of the auto tracking software is quick and easy.

Also available on select PTZ cameras, the Auto Loop Application empowers the camera to automatically repeat pan/tilt/zoom (PTZ) staging movements ordinarily performed by camera operators during the broadcast of events, as well as TV and movie productions. "Fade mode" adjusts the speed of the camera motions as they begin and end, enabling the automated camera system to mimic professional camera work.

<sup>†</sup>CR-X500 does not support IP or any of the IP protocols listed. Not all features available on all cameras. \*Add-on applications sold separately.

REMOTE CAMERA CONTROLLERS



## 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.





# CANON 4K PTZ CAMERA LINEUP

INDOOR CAMERAS

## CR-N100

REMOTE CAMERA



- 1/2.3" CMOS Sensor with Hybrid Auto Focus
- High Quality 4K 30P and Full HD 60P over HDMI and IP
- 20x Optical Zoom Lens with Optical Image Stabilization
- Renowned Canon Color Science
- HDMI, IP, USB Video Out
- Built-in Auto Tracking Lite
- High-precision drive mechanism for smooth, responsive PTZ performance
- Tally lamp on the front of the lens to indicate camera status at a glance
- Supports PoE+, variety of serial/IP control protocol support include Canon XC Protocol, Standard Control for easy integration into any production environment
- Supports Canon's Webcam Driver
- Built-in ND|HX and SRT (supports adaptive bitrate) support



## CR-N300

REMOTE CAMERA



- 1/2.3" CMOS Sensor with Hybrid Auto Focus
- High Quality 4K 30p and Full HD 60P Video Output
- 20x Optical Zoom Lens with Optical Image Stabilization
- Renowned Canon Color Science
- 3G-SDI, HDMI, IP, and USB Video Out
- Built-in Auto Tracking Lite
- Built-in ND|HX and SRT (supports adaptive bitrate) support
- FreeD (with multiple destination support) support for AR/VR system
- Supports PoE+, variety of serial/IP control protocol support including Canon XC Protocol, Standard Control for easy integration into any production environment



## CR-N500

REMOTE CAMERA



- 1" 4K UHD CMOS Sensor with Dual Pixel Autofocus
- High Quality 4K 30p and Full HD 60p Video Output
- 15x Optical Zoom Lens with Optical Image Stabilization
- Built-in ND Filter
- Renowned Canon Color Science with support for Wide DR and Canon Log 3
- 3G-SDI, HDMI, and IP Video Out
- Genlock, Dual XLR and 3.5mm Audio input
- Built-in Auto Tracking Lite
- Built-in ND|HX and SRT (supports adaptive bitrate) support
- FreeD (with multiple destination support) support for AR/VR system
- Supports PoE+, variety of serial/IP control protocol support include Canon XC Protocol, Standard Control for easy integration into any production environment



## CR-N700

REMOTE CAMERA



- 1" 4K UHD CMOS Sensor with Dual Pixel Autofocus with EOS iTR AF X
- High Quality 4K 60p Video Output
- 15x Optical Zoom Lens (30x FHD) with Optical Image Stabilization
- Built-in ND Filter
- Renowned Canon Color Science with support for Wide DR, Canon Log 3, HDR (HLG/PQ), EOS Standard/Neutral Image Modes
- 12G-SDI, 3G-SDI, HDMI, and IP Video Out
- Genlock, Dual XLR and 3.5mm Audio input
- Built-in Auto Tracking Lite
- Built-in ND|HX and SRT (supports adaptive bitrate) support
- FreeD (with multiple destination support) support for AR/VR system
- Supports PoE++, variety of serial/IP control protocol support including Canon XC Protocol, Standard Control for easy integration into any production environment



OUTDOOR CAMERAS

## CR-X300

REMOTE CAMERA



- 1/2.3" CMOS Sensor with Hybrid Auto Focus
- High Quality 4K 30p and Full HD 60p Video Output
- 20x Optical Zoom Lens with Optical Image Stabilization
- Renowned Canon Color Science
- Outdoor Camera with Wiper (IP65 Rated)
- 6G-SDI, HDMI, and IP Video Out
- Built-in ND|HX and SRT (supports adaptive bitrate) support
- Supports PoE++, variety of serial/IP control protocol support including Canon XC Protocol, Standard Control for easy integration into any production environment
- FreeD (with multiple destination support) support for AR-VR systems



## CR-X500

REMOTE CAMERA



- 1" CMOS Sensor with Dual Pixel Autofocus
- High Quality 4K 60p Video Output
- 15x Optical Zoom Lens (30x FHD) with Optical Image Stabilization
- Dual DIGIC DV 6 Image Processors
- Renowned Canon Color Science with support for Wide DR and Canon Log 3 image modes
- Outdoor Camera with wiper (IP55 Rated)
- 12G-SDI Video Out



\*Add-on applications sold separately.

## RC-IP1000 Remote Camera Controllers

The RC-IP1000 is an advanced PTZ controller enabling fast operation of multiple PTZ cameras through a newly developed control interface. Featuring 42 buttons and 14 dials, including assignable buttons, programmable trace operation, and adjustable speed and response controls, this controller helps enable intuitive control of multiple PTZ cameras quickly and easily. With a 7-inch touch panel that provides clear visibility and touch-screen control, showing operation menus and camera video feeds, capability to control up to 200 cameras over IP, and more cutting-edge capabilities, the RC-IP1000 is built for large multi-camera productions.



	SPECIFICATION	CR-N100	CR-N300	CR-N500	CR-N700	CR-X300	CR-X500	
CAMERA	OPERATING CONDITION	Indoor				Outdoor		
	IMAGE SENSOR	Type 1/2.3 (1/2.3 in.) single-plate CMOS sensor Total pixels: approx. 21.14 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)		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)		1/2.3" 4K UHD CMOS Pro Image Sensor Total pixels: approx. 21.14 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)		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:3.67 – 73.4 mm, F1.8 – 2.8, 8-bladed circular aperture		f:8.3 – 124.5 mm, F/2.8 – 4.5, 9-bladed iris diaphragm		f:3.67 – 73.4 mm, F/1.8 – 2.8, 8-bladed circular aperture		f:8.3 – 124.5 mm, F/2.8 – 4.5, 9-bladed iris diaphragm
	ZOOM	Optical: 20x Digital: 20x		Optical: 15x Digital: 20x		Optical: 15x Digital: 20x Advanced (FHD): 30x		Optical: 15x Advanced Zoom FHD: 30x
	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)		Horizontal: 73.0° (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)		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. <i>(specific values depend on the frame frequency and frame rate)</i>		1/3 – 1/2000 sec. <i>(specific values depend on the frame frequency)</i>		1/6 – 1/2000 sec. <i>(specific values depend on the frame frequency)</i>		Auto, Manual 1/3 – 1/1000 sec.
	IRIS	Manual/Automatic aperture						Auto, Manual
	GAIN	0.0 dB – 36 dB		-6.0 dB – 33.0 dB		-6.0 dB – 33.0 dB		Auto, Manual 0 dB – 33.0 dB
	ND FILTER	Built-in (1/8 at maximum, gradation ND), motor operated		3 levels: ND1 (ND-1/4), ND2 (ND-1/16), ND3 (ND-1/64) Material: Glass (with sunlight burn-in protection) Turret switched, motor-driven		ND filter: 1/8 at maximum Enhanced ND filter: 1/32		Built-in (Off, 1/4, 1/16, 1/64), motor operated
	WHITE BALANCE	AUTO (AWB), Set A, Set B, preset settings (daylight: 5600 K*, tungsten lamp: 3200 K*), color temperature setting (2000 K – 15,000 K), Manual <i>*Color temperatures are given for reference purposes only.</i>						AUTO (AWB), Set
	FOCUS	Focus mode: Manual, Continuous AF, Face AF, Tracking AF type: Hybrid AF, Contrast AF		Focus mode: Manual, AF-boosted MF, Continuous AF, Face AF, Tracking AF type: Dual Pixel CMOS AF, Contrast AF		Focus mode: Manual, AF-boosted MF, Continuous AF, Face Detection & Tracking, Face only AF, Eye Detection AF type: Dual Pixel CMOS AF, Contrast AF		Dual Pixel CMOS AF
	GAMMA	Normal 1 (Standard), Normal 3 (BT.709)		Normal 1 (Standard), Normal 2 (s.4.0), Normal 3 (BT.709), Normal 4 (s.0), Wide DR, Canon Log 3		BT.709 Normal, BT.709 Wide DR, BT.709 Standard, Canon Log 3, HDR (PQ), HDR(HLG)		Normal 1: BT.709, Normal 1: BT.2020, Wide DR: BT.709, Wide DR: BT.2020, PQ: BT.2020, HLG: BT.2020, Canon Log 3: BT.709, Canon Log 3: BT.2020
	IMAGE STABILIZER	Optical-shift						
MIN. SUBJECT ILLUMINATION	Approx. 1.5 lux (shutter speed 1/30 sec., frame frequency 59.94 Hz, (P (Programmed AE) Shooting Mode), (Auto Slow Shutter On))		3840x2160: Approx. 1.5 lux (shutter speed 1/30 sec., frame frequency 29.97P, Gain 33.0 dB) 1920x1080: Approx. 3 lux (shutter speed 1/60 sec., frame frequency 59.94P, Gain 33.0 dB)		59.94Hz: Approx. 3lux (with 1/60 sec. shutter speed, 59.94P frame rate, and 21 dB gain) 50.00Hz: Approx. 2.5lux (with 1/50 sec. shutter speed, 50.00P frame rate, and 21 dB gain)		Approx. 3 lux (shutter speed 1/60 sec., Frame Rate 59.94P, Gain 33.0 dB)	
PAN, TILT, ZOOM OPERATION	Pan Range: Horizontal -180° Pan Speed: 0.2° – 300°/sec. Tilt Range: Vertical -30° – +100° Pan Speed: 0.2° – 180°/sec.		Pan Range: Horizontal -170° Pan Speed: 0.1° – 100°/sec. Tilt Range: Vertical -30° – +90° Tilt Speed: 0.1° – 100°/sec.		Pan Range: Horizontal -180° Pan Speed: 0.3° – 60°/sec. Tilt Range: Vertical -40° – +215° Tilt Speed: 0.3° – 60°/sec.		Pan Range: Horizontal -170° Pan Speed: 0.5° – 25°/sec. Tilt Range: Vertical -50° – 30° Tilt Speed: 0.3° – 20°/sec.	
VIDEO OUTPUT FORMAT	SDI	1920x1080: 59.94P/59.94, 50.00P/50.00/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit)		3G-SDI: 1920 x 1080: 59.94P/59.94/50.00P/50.00/25.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94P/50.00P (4:2:2 10bit) 12G-SDI: 3840 x 2160: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1920 x 1080: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94P/50.00P (4:2:2 10bit) 720 x 576: 50.00i (4:2:2 10bit) 720 x 480: 59.94i (4:2:2 10bit)		3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94, 50.00P/50.00/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit)		3840x2160: 59.94P (4:2:2 10 bit) 1920x1080: 59.94P/59.94, 50.00P/50.00/25.00P, 29.97P/23.98P (4:2:2 10 bit)
	HDMI	3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94, 50.00P/50.00/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit) <i>*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.</i>		3840 x 2160: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1920 x 1080: 59.94P/59.94/50.00P/50.00/25.00P/29.97P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 59.94P/50.00P (4:2:2 10bit) 720x576: 50.00P (4:2:2 10bit) 720x480: 59.94P (4:2:2 10bit)		3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94, 50.00P/50.00/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit) <i>*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.</i>		
	IP	Frame frequency 59.94 Hz 3840x2160 (CR-N700 Only): 59.94fps, 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit) 1920 x 1080: 59.94fps, 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit) 1280 x 720: 59.94fps, 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit) 640 x 360: 59.94fps, 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit)		Frame frequency 29.97 Hz 3840 x 2160: 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit) 1920 x 1080: 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit) 1280 x 720: 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:2:0 8 bit)		Frame frequency 23.98 Hz 3840 x 2160: 23.98fps, 11.99fps, 5.99fps (4:2:0 8 bit) 1920 x 1080: 23.98fps, 11.99fps, 5.99fps (4:2:0 8 bit) 1280 x 720: 23.98fps, 11.99fps, 5.99fps (4:2:0 8 bit) 640 x 360: 23.98fps, 11.99fps, 5.99fps (4:2:0 8 bit)		
	SUPPORTED PROTOCOLS	Protocol: XC Protocol, RTSP/RTIP, NDI**HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), SRT		Protocol: XC Protocol, RTSP/RTIP, NDI**HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), FreeD, SRT		Protocol: XC Protocol, RTSP/RTIP, NDI**HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), FreeD, SRT		Control: Canon NU Protocol (Serial)
INTERFACE	COMMUNICATION CONTROL	LAN, Serial, IR, USB		LAN, Wi-Fi, Serial, IR, USB		LAN, Serial		
	NETWORK TERMINAL	LAN x 1, RJ45, 1000Base-T						
	SDI OUT TERMINAL	3G-SDI 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)		12G/3G-SDI OUT Terminal, BNC jack x1 12GSDI & x1 3G-SDI, 0.8 Vp-p/75 Ω, SMPTE ST 259, SMPTE ST 292, SMPTE ST 424/425, SMPTE ST2081, SMPTE ST 2082, SMPTE ST 272, SMPTE ST 299 compliant Embedded audio, Time code (VITC/LTC)		6G-SDI 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)		12G-SDI BNC jack (output only) x 1
	TIME CODE TERMINAL	BNC jack x 1, 1.3 Vp-p/50 Ω or less						
	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						
	MIC TERMINAL	ø3.5 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)		Built-in Waterproof Microphone				
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)					
OTHER	OPERATING ENVIRONMENT	Temperature: +32°F – +104°F (0°C – +40°C) Humidity: 10% – 90% (without condensation)				Temperature: +5°F – +104°F (-15°C – +40°C) Humidity: 90% or less (without condensation) Startup temperature: +14°F – +104°F (-10°C – +40°C)		
	DUST/WATER RESISTANCE	IP55						
	POWER SUPPLY	PoE: PoE+ power supply via LAN connector (IEEE802.3at compliant) – PoE cannot be used External power source: 24V DC (using included AC adaptor)				PoE: PoE+ power supply via LAN connector (IEEE802.3at compliant) – PoE cannot be used Ext. power source: 12V DC (4-pin XLR input)		PoE: PoE+ power supply via LAN connector (IEEE802.3bt compliant) – PoE and PoC cannot be used External power source: 12V DC <i>(use included power cable with DC plug)</i> 10.5 to 15 V DC
	POWER CONSUMPTION	PoE+ Input: Approx. 13.9W* max. (body only) DC Input: Approx. 13.3W max. (body only) <i>*Class 4 (25.5 W required) for power supply devices</i>	PoE+ Input: Approx. 16.2W* max. (body only) DC Input: Approx. 15.0W max. (body only) <i>*Class 4 (25.5 W required) for power supply devices</i>	PoE+ Input: Approx. 19.6W* max. (body only) DC Input: Approx. 18.6W max. (body only) <i>*Class 4 (25.5 W required) for power supply devices</i>	PoE++ Input: Approx. 39.8W* max. (body only) DC Input: Approx. 31.7W max. (body only) <i>*Class 5 (40.0 W required) for power supply devices</i>	PoE+ Input: Approx. 39.8W* max. (body only) DC Input: Approx. 31.7W max. (body only) <i>*Class 5 (40.0 W required) for power supply devices</i>		DC Input: 90W
	QUIETNESS	NC35 or lower		NC30 or lower		NC45 or lower (when operating at 60°/sec)		NC55 or less
	DIMENSIONS (W X H X D)	Approx. 6.06 x 7.01 x 6.46 in. (154 x 178 x 164 mm) <i>(excluding protrusions)</i>		Approx. 7.87 x 10.59 x 8.19 in. (200 x 269 x 208 mm) <i>(excluding protrusions)</i>		Approx. 8.54 x 12.24 x 8.54 in. (217 x 311 x 217 mm) <i>(excluding protrusions and connector cover)</i>		Approx. 13.27 x 15.35 x 15.2 in. (337 x 390 x 386 mm) <i>(excluding protrusions)</i>
	WEIGHT	Approx. 4.86 lb. (2.2 kg) (body only)		Approx. 9.04 lb. (4.1 kg) (body only)		Approx. 9.7 lb. (4.4 kg) (body only)		Approx. 37.48 lbs. (17.0 kg)
	SUPPORTED CONTROLLERS	Hardware: RC-IP100, RC-IP1000 Software: Remote Camera Control Application, Multi-Camera Management Application, Camera Search Tool						Hardware: RC-IP100, RC-IP1000

For more info: [pro.usa.canon.com](http://pro.usa.canon.com)

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