

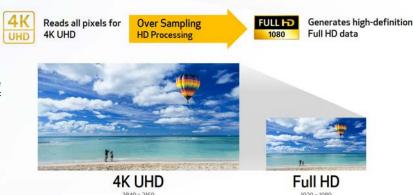
FEATURES AND BENEFITS

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-OUALITY 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 better looking HD video
- · Built-in image stabilization
- Powerful low-light performance



>>> FLEXIBLE CONNECTIVITY

The Canon PTZ camera lineup[†] offers a variety of IP connectivity possibilities, including support for Canon's XC Protocol, Standard Protocol, RTSP/RTP, RTMP/RTMPS, SRT, FreeD, and NDI®lHX, Utilizina 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[†] and selected third-party controllers, making integration with existing set-ups a breeze.

>>> ADD-ON APPLICATIONS*: AUTO TRACKING ₹ AUTO LOOP

Available on Select PTZ cameras, users can install paid apps through the Add-On Applications System, and operate them within the cameras without the need for an external device.

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 movements of people with broadcast quality video.

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 camerawork.

*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.

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

CR-N100 REMOTE CAMERA



- 1/2.3" Type CMOS Sensor
- High Quality 4K 30P and FHD 60P Video Output
- HDMI, USB, and IP Video Out
- DIGIC DV 6 Image Processor
- Hybrid AF

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- PoE+ Single Cable IP operation
- Variable Pan speed of .2° 300°/sec Variable Tilt speed of .2° - 180°/sec
- Optical Image Stabilization
- Optional Auto Tracking*
- Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Applications

CR-N500 🕵



- 1.0" Type CMOS Sensor
- High Quality 4K 30P and FHD 60P Video Output
- DIGIC DV 6 Image Processor
- · Canon Log 3, Wide DR Gamma Supported
- Dual Pixel CMOS AF
- · Face Detection & Tracking
- PoE+ Single Cable IP operation
- Variable Pan and Tilt speed of .1° - 100°/sec
- Optical Image Stabilization
- Optional Auto Tracking & Auto Loop Add-On Applications*
- Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Applications



CR-N300 REMOTE CAMERA





- 1/2.3" Type CMOS Sensor
- FHD 60P Video Output
- · SDI. HDMI, USB, and IP Video Out
- · DIGIC DV 6 Image Processor
- Hybrid AF
- PoE+ Single Cable IP operation
- Variable Pan speed of .2° 300°/sec
- Variable Tilt speed of .2° 180°/sec
- Optical Image Stabilization Optional Auto Tracking*
- Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Applications

CR-N700 REMOTE CAMERA





- · High Quality 4K 60P Video Output
- DIGIC DV 7 Image Processor · HDR, Canon Log 3 Supported
- Dual Pixel CMOS AF
- · Eye, Face, & Head detection
- and tracking · Variable Pan and Tilt speed
- of .1° 100°/second · PoE++ Single Cable IP operation
- Optical Image Stabilization
- Optional Auto Tracking &
- Auto Loop Add-On Applications*
- · Various Interfaces Supported for Multiple Applications

CR-X300 4K REMOTE CAMERA



- and FHD 60P Video Output • 1/2.3" Type CMOS Sensor
- DIGIC DV 6 Image Processor
- · IR Mode
- Optical Image Stabilization
- PoE++ Single Cable IP operation
- Optional Auto Loop Add-On Applications
- Built-in Wiper
- Durable Aluminum Body
- IP65 Water and Dust Resistant
- · Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Applications





CR-X500 4K REMOTE CAMERA



- 1.0" Type CMOS Sensor
- Dual Pixel CMOS AF
- Dual DIGIC DV 6 Image **Processors**
- Wide ±170° Pan/ +30 ~ -50° Tilt Coverage
- · Canon Log 3, Wide DR Gamma Supported
- · IP55 Water and Dust Resistant
- · Built-in Wiper
- Durable Aluminum Body
- Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Applications

*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
	OPERATING CONDITION	GIV-11100		door	GK-N/00	Out-X300	
CAMERA	IMAGE SENSOR	Type 1/23 (1/23 in), single-plate CMOS sensor Total pixels: approx. 27.14 megapixels Effective pixels: approx. 829 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, F/1.8 – 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,
	ZOOM	Optical: 20x Digital: 20x		Optical: 15x Digital: 20x Optical: 15x Digital: 20x Advanced (FHD): 30x			9-bladed iris diaphragm Outical: 15x Advanced Zoom FHD: 30x
	ANGLE OF VIEW	4K UHD: Full HD: Horizontal: 63.5 (W) – 3.6° (T)		Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)		4K UHD: Full HD: Full HD: Vertical: 39.8° (W) – 3.6° (T) Horizontal: 63.5 (W) – 3.4° (T) Vertical: 39.8° (W) – 1.9° (T) Vertical: 39.8° (W) – 1.9° (T)	Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)
	SHUTTER SPEED	1/6 – 1/2000 sec.		1/3 – 1/2000 sec.		1/6 – 1/2000 sec.	Auto, Manual 1/3 – 1/1000 sec.
	IRIS	(specific values depend on the frame frequency and frame rate)		(specific values depend on the frame frequency		(specific values depend on the frame frequency)	Auto, Manual
	GAIN	0.0 dB – 36 dB		-6.0 db ~ 33.0 db -6.0 db ~ 33.0 db		0.0 dB – 36 dB	Auto, Manual O 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)		ND filter: 1/8 at maximum	Built-in (Off, 1/4, 1/16, 1/64), motor operated
	WHITE BALANCE	Suit in (170 at meanings)		Material: Glass (with sunlight burn-in protection) Turret switched, motor-driven ings (daylight: 5,600 K*, tungsten lamp: 3,200 K*), color temperature setting (2,000 K – 15,0 "Color temperatures are given for reference purposes only.		Enhanced ND filter: 1/32 100 K), Manual	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	Focus Mode: Manual, Continuous AF, Face Detection AF, Tracking AF type: Hybrid AF, Contrast AF	Dual Pixel CMOS AF
	GAMMA	Normal 1 (Standard), Normal 3 (BT.709)		Normal1 (Standard), Normal2 (x4.0), Normal3 (BT.709), Normal4 (x5.0), Wide DR, Canon Log 3	BT.709 Normal, BT.709 Wide DR, BT.709 Standard, Canon Log 3, HDR (PQ), HDR(HLG)	Normal 1 (Standard), Normal 3 (BT.709)	Normal1: BT.709, Normal1: BT.2020, Wide DR: BT709, Wide DR: BT2020, PQ: BT2020, HLG: BT2020, Canon Log 3: BT709, Canon Log 3: BT2020
	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. 3.0 lux (shutter speed 1/60 sec, frame frequency 59.94Hz (P (Program AE) shooting mode), auto slow shutter "Off")	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° – 4100° Pan Speed: 0.2° – 180°/sec.		Pan Range: H Pan Speed: 0. Tilt Range: Vert Tilt Speed: 0.	1° – 100°/sec. ical -30° – +90°	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			1.00i/25.00P, 29.9TP/23.98P (422.10 bit) 50.00P (422.10 bit)	36-SDI: 1920 x 1080: 59.94P/59 344/50.00P/50.00D/59.00D/59 2723.98P (42-210bit) 1280 x 720: 59.349/50.00P (42-210bit) 1280 x 720: 59.349/50.00P (42-210bit) 1280 x 720: 59.349/50.00P (42-210bit) 1280 x 730: 59.349/50.00P (42-210bit) 1280 x 730: 59.349/50.00P (42-210bit) 720 x 576: 50.00I (42-210bit) 720 x	3840x2160: 29 9TP, 25.00P, 23 98P (4-2-2 10 bit) 1920x1080: 59 34P/59.94; 50.00P/50.00i/25.00P, 29 9TP/22.98P (4-2-2 10 bit) 1280x/20: 59 94P, 50.00P (4-2-2 10 bit)	3840x2160: 59 94P (4:2:2 10 bit) 1920x1080: 59 94P/59 94t, 50:00P/50:00i/25:00P, 29:97P/23:98P (4:2:2 10 bit)
	НДМІ	3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94i, 50. 10 bit) 1280x720: 59.94F, 50.00P (4:2:2 10) "Same video format required for SDI and HDMI cannot select different formats for selected for HDMI, video will not be outputted to		bit) SDI and HDMI) *When 3840 x 2160 is	3840 x 2160: 59 94P/50.00P/29 97P /25.00P/23.98P (4:22 10bit) 1920 x 1080: 59 94P/59.94i/50.00P/50. 00/29.97P/25.00P/23.98P (4:22 10bit) 1280 x 720: 59.94p/50.00P (4:22 10bit) 720x576: 50.00P (4:22 10bit) 720x576: 50.00P (4:22 10bit)	3840x2160: 29.97P, 25.00P, 23.98P (4:22:10 bit) 1920x1080: 59.94P59.544, 50.00P50.00P50.00P. 29.97P/23.98P (4:22:10 bit) 1280x720: 59.94P, 50.00P (4:22:10 bit) 1280x720: 59.94P, 50.00P, 5	
	IP	3840x2160 (CR-N700 Only): 59.94 1920 x 1080: 59.94fps, 29.9 1280 x 720: 59.94fps, 29.9	puency 59.94 Hz fps, 29.97fps, 14.99fps, 5.00fps (4:2:0 7fps, 14.99fps, 5.00fps (4:2:0 8 bit) ffps, 14.99fps, 5.00fps (4:2:0 8 bit) fps, 14.99fps, 5.00fps (4:2:0 8 bit)	18 bit) 3840 x 2160: 29.97fps, it) 1920 x 1080: 29.97fps, 1280 x 720: 29.97fps, 1	14.99fps, 5.00fps (4:2:0 8 bit) 14.99fps, 5.00fps (4:2:0 8 bit) 1	Frame frequency 23.98 Hz 840 x 2160: 23.98 ps, 11.99 ps, 5.99 ps (42:0 8 bit) 920 x 1080: 23.98 ps, 11.99 ps, 5.99 ps (42:0 8 bit) 280 x 720: 23.98 ps, 11.99 ps, 5.99 ps (42:0 8 bit) 440 x 360: 23.98 ps, 11.99 ps, 5.99 ps (42:0 8 bit)	
	SUPPORTED PROTOCOLS	Protocol: XC Protocol, RTSP/RTP, NDI* HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), SRT	Protocol:	XC Protocol, RTSP/RTP, NDI®[HX, RTMP/RTMPS, Standard Communication (Serial), Standard		Communication (IP), FreeD, SRT	Control: Canon NU Protocol
INTERFACE	COMMUNICATION CONTROL	LAN, Serial, IR, USB	LAN, Wi-Fi, Serial, IR, USB	LAN, Wi-Fi, Serial, IR	LAN, Wi-Fi, Serial, IR	LAN, Serial	
	NETWORK TERMINAL			LAN x 1, RJ45, 1000Base-			
	SDI OUT TERMINAL	3G-SDI, BNC jack (output only) x 1, 0,8 Vy 425, SMPTE ST 299-2 compliant Err		(p-p/75 s2, unbalanced SMPTE 424, SMPTE thebedded audio, Time code (VITC/LTC)	126/36-SDI OUT Terminal, BNC jack x1 126/SDI & x1 36-SDI, 0.8 Vp-p75 Ω, SMPTE ST 259, SMPTE ST 292, SMPTE ST 424/425, SMPTE ST 2081, 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 cz, umbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VTTC/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		put only	BNC jack x 1
	HDMI OUT TERMINAL	HDM connector x 1, output only RMS connector x 1					RS-422 Serial
	RS-422 TERMINAL	43.5 mm stereo mini iack (unbalanced, plue-in power supported) • Sensitivity (MICE-72 dBV (Manual volume center, full scale -18 dBV/1 kΩ or more/Att: 20 dB • Sensitivity (LINEE-10				Duta la War dan dan	No-422 outlat
	MIC TERMINAL	dBV (Ma	nual volume center, full scale -18 dB)/1 kΩ or r	nore • Supply Voltage: 2.4 V DC (Bias resistance: 2.2 kΩ)		Built-In Waterproof Microphone	
	INPUT 1 / INPUT 2 XLR TERMINALS			NPUT (3-pin jack) (pin1: shield, pin2-hot, pin3-cold), 2 sets, balanced Sensitivity (MC):-60 dBu (Manual volume center, full scale -18 dB)/600 cs/Att:-20 dB Sensitivity (LINE): 44 dBu (Manual volume center, full scale -18 dB)*1 kG or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kG			
OTHER	OPERATING ENVIRONMENT	Te	mperature: +32°F - +104°F (0°C - +40°C)	Humidity: 10% – 90% (without condensation)		Temperature: +5°F - +104°F (-15°C - +40°C) Startup temperature: +14°I	Humidity: 90% or less (without condensation) $F = +104^{\circ}F (-10^{\circ}C = +40^{\circ}C)$
	DUST/WATER RESISTANCE					IP65	IP55
	POWER SUPPLY	PoE: PoE+ power supp Externa	ly via LAN connector (IEEE802.3at compliant) I power source: 24V DC (using included AC a) – PoE cannot be used 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 PoE+ cannot be used External power source: 12V DC (use included power cable with DC plug)	
	POWER CONSUMPTION	PoE+ Input: Approx. 13.9W* max. (body only) DC Input: Approx. 13.3W max. (body only) *Class 4 (25.5 W required) for power supply devices	PoE+ Input: Approx. 16.2W* max. (body only) DC Input: Approx. 15.0W max. (body only) *Class 4 (25.5 W required) for power supply devices	PoE+ Input: Approx. 19.6W* max. (body only) DC Input: Approx. 18.6W max. (body only) s *Class 4 (25.5 W required) for power supply devices	PoE++ Input: Approx. 39.8W* max. (body only) DC Input: Approx. 37.7W max. (body only) *Class 5 (40.0 W required) for power supply device	PoE++ Input: Approx. 39.8W* max. (body only) DC Input: Approx. 37.7W max. (body only) *Class 5 (40.0 W required) for power supply devices	DC 10.5 - 15 V, 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) (excluding protrusions)		Approx. 7.87 x 10.59 x 8.19 in. (200 x 269 x 208 mm) (excluding protrusions)		Approx. 8.54 x 12.24 x 8.54 in. (217 x 311 x 217 mm) (excluding protrusions and connector cover)	Approx. 13.27 x 15.35 x 15.2 in. (337 x 390 x 386 mm) (excluding protrusions)
	WEIGHT	(excluding protrusions) 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. 15.5 lb. (7 kg) (body only)	Approx. 37.48 lbs. (17.0 kg)
	SUPPORTED CONTROLLERS			C-IP100, RC-IP1000 Software: Remote Camera Control Application Search Tool			Hardware: RC-IP100, RC-IP1000
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For more info: pro.usa.canon.com



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