



Canon

4K PTZ CAMERAS

EXQUISITE 4K AT YOUR FINGERTIPS



BROADCAST-QUALITY VIDEO
FLEXIBLE CONNECTIVITY
INDOOR AND OUTDOOR APPLICATION

CANON 4K PTZ CAMERA LINEUP

INDOOR CAMERAS

CR-N300

REMOTE CAMERA



- High Quality 4K 30P and FHD 60P Video Output
- 1/2.3" Type CMOS Sensor
- DIGIC DV 6 Image Processor
- Hybrid AF
- PoE+ Single Cable IP operation
- Variable Pan speed of .2° - 300°/second and variable Tilt speed of .2° - 170°/second
- Optical Image Stabilization
- Virtually Seamless Integration into Canon Imaging Workflow
- Easy Integration into IP Streaming
- Various Interfaces Supported for Multiple Environments

CR-N500

REMOTE CAMERA



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

CR-X300

REMOTE CAMERA



- High Quality 4K 30P 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
- IP65 Water and Dust Resistant
- Built-in Wiper
- Durable Aluminum Body
- Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Environments

CR-X500

REMOTE CAMERA



- High Quality 4K 60P Video Output
- 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
- IP65 Water and Dust Resistant
- Built-in Wiper
- Durable Aluminum Body
- Virtually Seamless Integration into Canon Imaging Workflow
- Various Interfaces Supported for Multiple Environments



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.

SPECIFICATIONS



	SPECIFICATION	CR-N300	CR-N500	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, 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, 9-bladed iris diaphragm	
	ZOOM	Optical: 20x Digital: 20x	Optical: 15x Digital: 20x	Optical: 20x Digital: 20x	Optical: 15x Advanced Zoom FHD: 30x	
	ANGLE OF VIEW	4K UHD: Horizontal: 65.6 (W) – 3.6° (T) Full HD: Horizontal: 63.5 (W) – 3.4° (T) Vertical: 39.8° (W) – 2.0° (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) Full HD: Horizontal: 63.5 (W) – 3.4° (T) Vertical: 39.8° (W) – 2.0° (T) Vertical: 38.4° (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. <small>(specific values depend on the frame frequency and frame rate)</small>	1/3 – 1/2000 sec. <small>(specific values depend on the frame frequency)</small>	1/6 – 1/2000 sec. <small>(specific values depend on the frame frequency)</small>	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	0.0 dB – 36 dB	Auto, Manual 0 db – 33.0 dB	
	ND FILTER	Built-in (1/8 at maximum, gradation ND), motor operated	Built-in (Off, 1/4, 1/16, 1/64), motor operated	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: 5,600 K*, tungsten lamp: 3,200 K*), color temperature setting (2,000 K – 15,000 K), Manual <small>*Color temperatures are given for reference purposes only.</small>			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, 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	Normal 1 (Standard), Normal 3 (BT.709)	Normal1: BT.709, Normal1: 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		Optical-shift (Standard IS, Powered IS)	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)	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 :170° Speed: 0.2° – 300°/sec. Tilt Range: Vertical -30° – +100° Speed: 0.2° – 180°/sec.	Pan Range: Horizontal :170° Speed: 0.1° – 100°/sec. Tilt Range: Vertical -30° – +90° Speed: 0.1° – 100°/sec.	Pan Range: Horizontal :180° Speed: 0.3° – 60°/sec. Tilt Range: Vertical -40° – +215° Speed: 0.3° – 60°/sec.	Pan Range: Horizontal :170° Speed: 0.5° – –25°/sec. Tilt Range: Vertical -50° – +30° Speed: 0.3° – –20°/sec.		
VIDEO OUTPUT FORMAT	SDI	1920x1080: 59.94P/59.94i, 50.00P/50.00i/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/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2-2 10 bit) 1280x720: 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	3840x2160: 29.97P, 25.00P, 23.98P (4:2-2 10 bit) 1920x1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2-2 10 bit) 1280x720: 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: 59.94fps, 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 50.00 Hz 1920 x 1080: 50.00fps, 25.00fps, 12.50fps, 5.00fps (4:2-0 8 bit) 1280 x 720: 50.00fps, 25.00fps, 12.50fps, 5.00fps (4:2-0 8 bit) 640 x 360: 50.00fps, 25.00fps, 12.50fps, 5.00fps (4:2-0 8 bit)	Frame frequency 25.00 Hz 3840 x 2160: 25.00fps, 12.50fps, 5.00fps (4:2-0 8 bit) 1920 x 1080: 25.00fps, 12.50fps, 5.00fps (4:2-0 8 bit) 1280 x 720: 25.00fps, 12.50fps, 5.00fps (4:2-0 8 bit) 640 x 360: 25.00fps, 12.50fps, 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)
		*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				
	USB	Motion JPEG: 1920x1080, 1280 x 720, 640 x 360 59.94 Hz: 12.00 fps, 5.00 fps 50.00 Hz: 12.50 fps, 5.00 fps				
	SUPPORTED PROTOCOLS	Protocol: XC Protocol, RTSP/RTIP, NDI® HX, RTMP/RTMPS, Standard (VISCA) Communication (Serial), Standard (VISCA) Communication (IP)			Control: Canon NU Protocol	
INTERFACE	COMMUNICATION CONTROL	LAN, Wi-Fi, Serial, IR, USB	LAN, Wi-Fi, Serial, IR	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)		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	
	GEN-LOCK TERMINAL		BNC jack x 1, 1.0 Vp-p/75 Ω, input only		BNC jack x 1	
	HDMI OUT TERMINAL	HDMI connector x 1, output only				
	RS-422 TERMINAL	RJ45 connector x 1			RS-422 Serial	
	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)			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) <small>Startup temperature: +14°F – +104°F (-10°C – +40°C)</small>		
	DUST/WATER RESISTANCE	IP65			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 (IEEE802.3bt compliant) – PoE and PoE+ cannot be used External power source: 12V DC <small>(use included power cable with DC plug)</small>	
	POWER CONSUMPTION	PoE+ Input: Approx. 16.2W* max. (body only) DC Input: Approx. 15.0W max. (body only) <small>*Class 4 (25.5 W required) for power supply devices</small>	PoE+ Input: Approx. 19.6W* max. (body only) DC Input: Approx. 18.6W max. (body only) <small>*Class 4 (25.5 W required) for power supply devices</small>	PoE++ Input: Approx. 39.8W* max. (body only) DC Input: Approx. 37.7W max. (body only) <small>*Class 5 (40.0 W required) for power supply devices</small>	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) <small>(excluding protrusions)</small>	Approx. 7.87 x 10.59 x 8.19 in. (200 x 269 x 208 mm) <small>(excluding protrusions)</small>	Approx. 8.54 x 12.24 x 8.54 in. (217 x 311 x 217 mm) <small>(excluding protrusions and connector cover)</small>	Approx. 13.27 x 15.35 x 15.2 in. (337 x 390 x 386 mm) <small>(excluding protrusions)</small>	
	WEIGHT	Approx. 4.86 lb. (2.2 kg) (body only)	Approx. 9.04 lb. (4.1 kg) (body only)	Approx. 15.5 lb. (7 kg) (body only)	Approx. 37.48 lbs. (17.0 kg)	
	SUPPORTED CONTROLLERS	Hardware: RC-IP100 Software: Remote Camera Control Application Search Tool			Hardware: RC-IP100	

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