

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 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 HX2. 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[†] and selected third-party controllers, making integration with existing set-ups a breeze.

ADD-ON APPLICATIONS

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.

>>> AUTO TRACKING



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. Auto Tracking Lite comes free of charge with supported Canon indoor cameras.

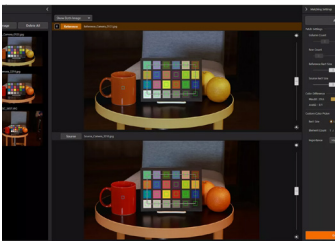
>>> AUTO LOOP



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.

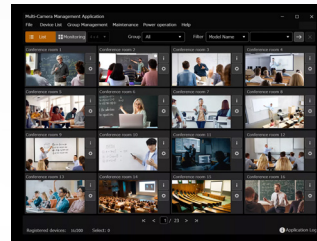
>>> CAMERA COLOR MATCHING APPLICATION



This powerful yet easy-to-use application provides effortless color matching between the Canon CR-N700, CR-N400, and

CR-N350 PTZ camera and both Canon or third-party cameras with professional results without the need for advanced color grading skills.

>>> MULTI-CAMERA MANAGEMENT APPLICATION

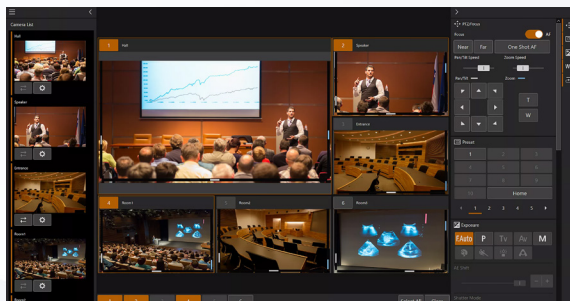


Monitor and manage up to 200 cameras direct from your PC and perform key tasks such as multi-view monitoring, device backup, assignment and registration

as well as perform firmware updates to linked cameras simultaneously.

>>> REMOTE CAMERA CONTROL APPLICATION

Take control of your remote cameras with this free software controller, designed to operate up to 20 PTZ and Professional Video cameras over IP. Preview up to nine cameras on screen and make adjustments to focus, pan, zoom, tilt and exposure in real time, direct from your computer.



>>> WEBCAM DRIVER

The Webcam Driver allows for compatible Canon PTZ cameras to be used as high quality webcams for teleconferencing applications.



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
- HDMI, IP, USB Video Out
- Auto Tracking Lite Built-in
- 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 NDI@HX2 and SRT (supports adaptive bitrate)
- Add-On Application 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
- Auto Tracking Lite Built-in
- Built-in NDI@HX2 and SRT (supports adaptive bitrate)
- FreeD (with multiple destination support) support for AR/VR systems
- Supports PoE+, variety of serial/IP control protocol support include Canon XC Protocol, Standard Control for Easy Integration into any Production Environment



CR-N350 REMOTE CAMERA



- 1/2.3" CMOS Sensor with Hybrid Auto Focus
- High Quality 4K 60p Video Output
- 20x Optical Zoom Lens (40x Advanced Zoom) with Optical Image Stabilization
- Renowned Canon Color Science with Support for Wide DR, Canon Log 3, HDR(HLG/PQ), EOS Standard/Neutral Image Modes
- 3G-SDI, HDMI, and IP Video Out
- Auto Tracking Lite Built-in
- Built-in NDI HX2 and SRT (supports adaptive bitrate) support
- FreeD (with multiple destination support) support for AR/VR systems
- Supports PoE++, variety of serial/IP control protocol support include Canon XC Protocol, Standard Control for Easy Integration into virtually any Production Environment



CR-N400 REMOTE CAMERA



- 1/2.3" CMOS Sensor with Hybrid Auto Focus
- High Quality 4K 60P Video Output
- 20x Optical Zoom Lens (40x FHD) with Optical Image Stabilization
- 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
- Auto Tracking Lite
- Built-in Built-in NDI HX2 and SRT (supports adaptive bitrate)
- FreeD (with multiple destination support) for AR/VR systems
- Supports PoE++, variety of serial/IP control protocol support include 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
- Auto Tracking Lite Built-in
- Built-in NDI@HX2 and SRT (supports adaptive bitrate)
- FreeD (with multiple destination support) support for AR/VR systems
- 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
- Auto Tracking Lite Built-in
- Built-in NDI@HX2 and SRT (supports adaptive bitrate)
- FreeD (with multiple destination support) support for AR/VR systems
- Supports PoE++, variety of serial/IP control protocol support include Canon XC Protocol, Standard Control for Easy Integration into any Production Environment



*Add-on applications sold separately.

CR-X300 **4K UHD** **FULL HD 1920x1080**
 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|@HX2 and SRT (supports adaptive bitrate)
- Supports PoE++, variety of serial/IP control protocol support include Canon XC Protocol, Standard Control for Easy Integration into any Production Environment
- FreeD (with multiple destination support) support for AR-VR systems



CR-X500 **4K UHD** **FULL HD 1920x1080**
 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
- 12G-SDI Video Out
- 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)



CANON PTZ CAMERA MOUNTING ACCESSORIES

CR-N100 | CR-N300



WALL MOUNT BRACKET
 A-SWD5WB2

CR-N500 | CR-N700



WALL MOUNT BRACKET
 A-RMB7

CR-N350 | CR-N400



WALL MOUNT BRACKET
 A-RMB5

CR-X300



WALL MOUNT BRACKET
 A-RMB8

	SPECIFICATION	CR-N100	CR-N300	CR-N350	CR-N400
CAMERA	OPERATING CONDITION	Indoor		Indoor	
	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 1/2.3 inch CMOS (single board) 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, 8-bladed circular aperture		f:3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom, 8-bladed iris diaphragm	
	ZOOM	Optical: 20x Digital: 20x		Optical: 20x Digital: 20x Advanced Zoom (FHD): 40x	
	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)		1/3 – 1/2000 sec. (specific values depend on the frame frequency)	
	IRIS	Manual/Automatic aperture		Manual/Automatic aperture	
	GAIN	0.0 dB – 36 dB		0.0 dB – 36.0 db	
	ND FILTER	Built-in (1/8 at maximum, gradation ND), motor operated		Built-in (1/8 at maximum, gradation ND), 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 <i>*Color temperatures are given for reference purposes only.</i>			
	FOCUS	Focus mode: Manual, Continuous AF, Face AF, Tracking AF type: Hybrid AF, Contrast AF		Focus mode: Manual, Continuous AF, Face Detection & Tracking, Face only AF, Eye Detection. AF type: Hybrid AF, Contrast AF	
	GAMMA	Normal 1 (Standard), Normal 3 (BT.709)		BT.709 Wide DR, BT.709 Standard, Canon Log 3, Canon 709, HDR (PO), HDR (HLG)	
	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)		59.94/29.97 Hz: Approx. 3 lux (at shutter speed 1/60 sec, frame rate 59.94p, gain 30.0 dB), Approx. 1.5 (at shutter speed 1/30 sec, frame rate 59.94p, gain 30.0 dB) 50.00/25.00 Hz: Approx. 2.5 lux (at shutter speed 1/50 sec, frame rate 50.00p, gain 30.0 dB), Approx. 1.3 lux (at shutter speed 1/25 sec, frame rate 50.00p, gain 21 dB) <i>**All of the above are when high sensitivity mode is set to On.</i>		
PAN, TILT, ZOOM OPERATION	Pan Range: Horizontal -170° Pan Speed: 0.2° – 100°/sec. (Max at preset: 300°/sec.) Tilt Range: Vertical -30° – +100° Tilt Speed: 0.2° – 100°/sec. (Max at preset: 180°/sec.)		Pan Range: Horizontal -170° Pan Speed: 0.2° – 100°/sec. (Max at preset: 200°/sec.) Tilt Range: Vertical -30° – +100° Tilt Speed: 0.2° – 100°/sec. (Max at preset: 180°/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)		3G-SDI: 1920 x 1080: 59.94P/59.94i/50.00P/50.00i/29.97P/25.00P/23.98P (4:2-2 10bit) 1280 x 720: 59.94P/50.00P (4:2-2 10bit)	
	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) <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/59.94i/50.00P/50.00i/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)	
	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)	
	SUPPORTED PROTOCOLS	Protocol: XC Protocol, RTSP/RTIP, NDI HX2, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), SRT		Protocol: XC Protocol, RTSP/RTIP, NDI HX2, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), SRT, FreeD, SRT	
	COMMUNICATION CONTROL	LAN, Serial, IR, USB		LAN, Wi-Fi, Serial, IR, USB	
INTERFACE	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)		3G-SDI BNC jack 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)	
	TIME CODE TERMINAL	-		-	
	GEN-LOCK TERMINAL	-		-	
	HDMI OUT TERMINAL	HDMI connector x 1, output only			
	RS-422 TERMINAL	RJ45 connector x 1			
	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: 24 V DC (Bias resistance: 22 kΩ)			
INPUT 1 / INPUT 2 XLR TERMINALS	-		INPUT XLR 3-pin jack (balanced) (1) shield, (2) hot, (3) cold, two lines Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more/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)			
	DUST/WATER RESISTANCE	-			
	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) – Standard PoE cannot be used External power source: 12V DC (using included AC adaptor)	
	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. 26.1W max (body only) DC Input: Approx. 15.0W max (body only) <i>*Class 5 (40W required) for power supply devices</i>	
	QUIETNESS	NC35 or Lower			
	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. 6.93 x 8.66 x 7.64 in. (176 x 220 x 194 mm) (excluding protrusions)	
	WEIGHT	Approx. 4.86 lb. (2.2 kg) (body only)		Approx. 6.6 lb. (3.0 kg) (body only)	
SUPPORTED CONTROLLERS	Hardware: RC-IP100, RC-IP1000 Software: Remote Camera Control Application, Multi-Camera Control Application, Multi-Camera Management Application, Camera Search tool		Hardware: RC-IP100, RC-IP1000 Software: Camera Color Matching Application, Remote Camera Control Application, Multi-Camera Control Application, Multi-Camera Management Application, Camera Search tool		

	SPECIFICATION	CR-N500	CR-N700	CR-X300	CR-X500	
CAMERA	OPERATING CONDITION	Indoor		Outdoor		
	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)		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=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: 15x Digital: 20x	Optical: 15x Digital: 20x Advanced (FHD): 30x		Optical: 20x Digital: 20x	Optical: 15x Advanced Zoom FHD: 30x
	ANGLE OF VIEW	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)		Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)
	SHUTTER SPEED	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 – 1/2000 sec.
	IRIS	Manual/Automatic aperture		Manual/Automatic aperture		Manual/Automatic aperture
	GAIN	-6.0 db – 33.0 db		-6.0 db – 36.0 db		Auto, Manual 0 db – 33.0 db
	ND FILTER	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 (OH, 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 <i>*Color temperatures are given for reference purposes only.</i>		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 <i>*Color temperatures are given for reference purposes only.</i>		AUTO, Set A, Set B, Daylight, Tungsten, Kelvin
	FOCUS	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	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: 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		Optical-shift
MIN. SUBJECT ILLUMINATION	Approx. 3.0 lux (with 1/60 sec. shutter speed, 59.94P frame rate) Approx. 1.5 lux (with 1/30 sec. shutter speed, 59.94P frame rate)		Approx. 3.0 lux (with 1/60 sec. shutter speed, 59.94P frame rate) Approx. 1.5 lux (with 1/30 sec. shutter speed, 59.94P frame rate)		Approx. 3.0 lux (with 1/60 sec. shutter speed and Auto Slow Shutter Off) Approx. 1.5 lux (with 1/30 sec. shutter speed and Auto Slow Shutter On)	
PAN, TILT, ZOOM OPERATION	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/50.00i/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/50.00i/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 (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/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit)	3840x2160: 59.94P/50.00P/29.97P/25.00P/23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94, 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)	
	HDMI	3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94, 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) <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/50.00i/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/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit)	-	
	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/RTMP, NDI HX2, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP), Freed, SRT			Control: Canon NU Protocol	
	INTERFACE	LAN, Wi-Fi, Serial, IR	LAN, Wi-Fi, Serial, IR		LAN, Serial	Serial
NETWORK TERMINAL	LAN x 1, RJ45, 1000Base-T		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 299, SMPTE ST 292, SMPTE ST 424/425, SMPTE ST2081, SMPTE ST 2082, SMPTE ST 212, 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	BNC jack x 1, 1.0 Vp-p/75 Ω, input only		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	HDMI connector x 1, output only		HDMI connector x 1, output only	-	
RS-422 TERMINAL	RJ45 connector x 1	RJ45 connector x 1		RJ45 connector x 1	RS-422 Serial	
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)	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)		Built-in Waterproof Microphone	-	
INPUT 1 / INPUT 2 XLR TERMINALS	-	-		-	-	
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) <i>Startup temperature: +14°F – +104°F (-10°C – +40°C)</i>			
DUST/WATER RESISTANCE	-		-		IP65	IP65
POWER SUPPLY	PoE: PoE+ power supply via LAN connector (IEEE802.3bt 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 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)	DC 10.5 - 15V	
POWER CONSUMPTION	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. 37.7W 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. 37.7W max. (body only) <i>*Class 5 (40.0 W required) for power supply devices</i>	90W	
QUIETNESS	NC35 or Lower		NC45 or lower (when operating at 60°/sec)		NC55 or less	
DIMENSIONS (W X H X D)	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. 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 Control Application, Multi-Camera Management Application, Camera Search tool			Hardware: RC-IP100, RC-IP1000 Software: Remote Camera Control Application, Multi-Camera Control Application, Multi-Camera Management Application, Camera Search tool		

REMOTE CAMERA CONTROLLERS

Control your multi-camera productions, using IP or serial control, with precision joystick, zoom rocker, and a touchscreen display.



RC-IP100

Remote Camera Controller

The RC-IP100 Remote Camera Controller provides IP control for up to 100 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.

- Control up to 100 Canon Supported cameras
- Smooth PTZ movement and Precise Control for Professional Productions
- Adjust Pan, Tilt, Zoom and Change Camera Function Settings Remotely
- Equipped with 7" diagonal Touch Screen, Control and Zoom Lever and 4 Customizable Buttons
- Supports configuration and enabling of Add-On applications, such as Auto Tracking and Auto Loop



RC-IP300

Remote Camera Controller

The RC-IP300 is an advanced PTZ controller enabling fast operation of multiple PTZ cameras through a tactile control interface. Featuring 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 3.5-inch touch panel that provides clear visibility, showing operation menus and live camera video feeds, capability to control up to 200 cameras over IP, and more cutting-edge capabilities, the RC-IP300 is built for multi-camera productions.

- Compact and lightweight Fully featured remote camera controller provides smooth PTZ movement and precise control
- 3.5" touch panel for a clear display of operation screens, camera configuration, live camera views, and Touch Auto Focus
- Control up to 200 supported Canon cameras
- User assignable buttons and dials allow users to customize the controller to provide easy access to their most frequently used functions
- Adjust pan, tilt, zoom and change camera function settings remotely
- Support for multiple connected cameras to be operated and configured simultaneously
- Control lever and zoom rocker with adjustable reaction rate
- Powered by Power over Ethernet or AC Adapter (included)



RC-IP1000

Remote Camera Controller

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.

- Full-featured remote camera controller that supports 200 cameras and provides smooth PTZ movement and precise control
- 7" touch screen provides live video previews of up to 9 cameras per screen and supports touch auto focus
- Adjust pan, tilt, zoom and change camera function settings remotely
- Control lever and zoom rocker with adjustable reaction rate
- 4K 60P video input/output via 12G SDI
- Camera OSD menu from compatible cameras can be shown on the touch panel and operated using push-button controls



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