



CR-N700 REMOTE CAMERA

STUNNING 4K AT YOUR FINGERTIPS



**High Quality 4K
60P Video Output**

**Powerful HDR Imagery
and Low Light Capture**

**15x Optical Zoom with
30x Advanced Zoom***

**Add-On Application System
with available Auto Tracking
and Auto Loop**

**Smooth & Responsive
Pan and Tilt Control**

**Seamless Integration
into IP Systems**

Three Year Warranty

Canon's CR-N700 4K UHD PTZ camera produces exceptional image quality and is equipped with powerful features and functions to be utilized in many industries including high-end Broadcast, TV Studios and Live Events.

With outstanding 4K60P 4:2:2 10-bit HDR image quality, the CR-N700 offers broadcasters highly advantageous features such as Dual Pixel AF with 'deep learning' auto focus, 12G-SDI connectivity, multiple protocols for streaming and control as well as region of interest crop capabilities.

The CR-N700 features SRT and NDI®|HX[^] protocols that help produce high quality video streams for broadcasters. RTMP/RTMPS, RTP/RTSP and Canon XC protocol are also included, as well as FreeD for integration into virtual productions.

AWARD-WINNING AUTOFOCUS TECHNOLOGY *EOS ITR AF X*

The CR-N700 features fast, intelligent, and extremely accurate focusing via multiple modes thanks to Canon's proprietary Dual Pixel CMOS AF technology with advanced EOS ITR AF X.

Deep learning autofocus technology locks on to a subject's head, even if they turn away. Eye Detection AF detects and tracks the subject's pupil for precise focusing.

Face Priority AF prioritizes the subject's face, while Face Only AF responds when a face is detected.

Select your own focus point on screen with Touch AF in the Remote Camera Control Application.

ADD-ON APPLICATIONS *AUTO TRACKING AND AUTO LOOP*

Install paid apps through the Add-On Applications System, and operate them within the CR-N500 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 its high-performance pan/tilt/zoom mechanism and the automatic tracking application, the camera can smoothly capture movements of people in video production quality.

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 in the production of TV commercials and movies. "Fade mode" adjusts the speed of the camera motions as they begin and end, enabling the automated camera system to mimic professional camerawork.

CR-N700

REMOTE CAMERA



	SPECIFICATION	PARAMETER
CAMERA	COLOR	Satin Black / Titanium White
	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)
	LENS	f=8.3 – 124.5 mm, F/2.8 – 4.5, 15x optical zoom, 9-bladed iris diaphragm 35mm equivalent focal length: approx. 25.5 (W) – 382.5 mm (T)
	ZOOM	Optical: 15x Digital: 20x Advanced (FHD): 30x
	LENS CONFIGURATION	14 groups of 18 elements (using 2-sided aspherical lenses and super-UD lenses)
	MINIMUM FOCUSING DISTANCE	1 cm (0.39 in.) at full wide angle, 60 cm (2.0 ft.) throughout the zoom range
	ANGLE OF VIEW	Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)
	SHUTTER SPEED	1/3 – 1/2000 sec. (specific values depend on the frame frequency)
	IRIS	Manual/Automatic aperture
	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.
	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, AF-boosted MF, Continuous AF, Face Detection & Tracking, Face only AF, Eye Detection. AF type: Dual Pixel CMOS AF, Contrast AF
	GAMMA	BT.709 Normal, BT.709 Wide DR, BT.709 Standard, Canon Log 3, HDR (PG), HDR(HLG)
	IMAGE STABILIZER	Optical
PAN AND TILT	Pan operation range: Horizontal ±170° Pan operation speed: 0.1° – 100°/sec. Tilt operation range: Vertical -30° – +90° Tilt operation speed: 0.1° – 100°/sec.	

	SPECIFICATION	PARAMETER
VIDEO OUTPUT FORMAT	3G-SDI	1920 x 1080: 5994P/5994i/50.00P/50.00i/2997P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 5994p/50.00P (4:2:2 10bit)
	12G-SDI	3840 x 2160: 5994P/50.00P/2997P/25.00P/23.98P (4:2:2 10bit) 1920 x 1080: 5994P/5994i/50.00P/50.00i/2997P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 5994p/50.00P (4:2:2 10bit) 720 x 576: 50.00i (4:2:2 10bit) 720 x 480: 5994i (4:2:2 10bit)
	HDMI	3840 x 2160: 5994P/50.00P/2997P/25.00P/23.98P (4:2:2 10bit) 1920 x 1080: 5994P/5994i/50.00P/50.00i/2997P/25.00P/23.98P (4:2:2 10bit) 1280 x 720: 5994p/50.00P (4:2:2 10bit) 720x576: 50.00P (4:2:2 10bit) 720x480: 5994P (4:2:2 10bit)
	IP	3840 x 2160: 5994fps, 50.00fps, 2997 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 5994fps, 50.00fps, 2997 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 5994fps, 50.00fps, 2997 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 5994fps, 50.00fps, 2997 fps, 25.00fps, 23.98fps, 14.99 fps, 12.50fps, 11.99fps, 5.99fps, 5.00 fps (4:2:0 8 bit)
	SUPPORTED VIDEO AND CONTROL PROTOCOLS	XC Protocol, RTSP/RTP, NDI HX, RTMP/RTMPS, Standard Protocol Communication (Serial), Standard Protocol Communication (IP), FreeD, SRT
	NUMBER OF PRESETS	Max. 100 (including home position)
	COMMUNICATION CONTROL	LAN, Wi-Fi, Serial, IR
	NETWORK TERMINAL	LAN x 1, RJ45, 1000Base-T
	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)
	GEN-LOCK TERMINAL	BNC jack x 1, 1.0 Vp-p/75 Ω
TIME CODE TERMINAL	BNC jack x 1, 1.3 Vp-p/50 Ω or less	
RS-422 TERMINAL	RJ45 connector x 1	
INTERFACE	AUDIO 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)
	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)
	MEDIA SLOT	SD Card x1, microSD card slot x 1, future expansion, recording unavailable
	OPERATING ENVIRONMENT	Temperature: +32°F – +104°F (0°C – +40°C) Humidity: 10% – 90% (without condensation)
OTHER	STORAGE ENVIRONMENT	Temperature: +32°F – +104°F (0°C – +40°C) Humidity: 10% – 90% (without condensation)
	POWER SUPPLY	PoE: PoE++ power supply via LAN connector (IEEE802.3bt compliant) External power source: 12 V DC (4-pin XLR input)
	DIMENSIONS (W X H X D)	Approx. 7.87 x 10.59 x 8.19 in. (200 x 269 x 208 mm) (excluding protrusions)
	QUIETNESS	NC30 or Lower
	SUPPORTED CONTROLLERS	Hardware: RC-IP100 Software: Remote Camera Control Application

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.

RC-IP100 Remote Camera Controller sold separately.

For more info: pro.usa.canon.com



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