



CR-X300 REMOTE CAMERA

POWERFUL 4K RAIN OR SHINE

4K

High-Quality 4K 30P and
FHD 60P Video Output

Canon 20x Optical
4K UHD Zoom Lens

Smooth & Responsive
Pan and Tilt Performance

Flexible IP Connectivity

IP65 Water and Dust
Resistance

Built-in Wiper

Multi-Camera
Integration and Control

POE++ Supported

The CR-X300 4K UHD PTZ Camera brings exceptional image quality at 4K resolution for outdoor use by broadcasters, cable networks, sports stadiums, concert venues and house of worship environments, this camera is IP65 rated for dust and water resistance and is equipped with powerful features and functions.

The CR-X300 PTZ produces incredible image quality with the combination of a 1/2.3" CMOS sensor and the DIGIC DV 6 image processor. This camera incorporates a Canon 4K lens that exhibits a 20x optical zoom ratio that maintains a high level of precision throughout the zoom range.

The CR-X300 camera supports Canon's XC Protocol as well as RTMP, NDI®|HX Live Video Production Protocol, Standard Protocol, SRT, FreeD and more. The CR-X300 can be controlled remotely by IP or Serial interfaces. Furthermore, this camera is equipped with POE++ which allows for Power, Control and Video to be transmitted over a single network cable. This helps to reduce complex wiring schemes and can lead to more cost savings.

FLEXIBLE IP CONNECTIVITY VIDEO STREAMING AND CONTROL

The CR-X300 PTZ camera offers a variety of IP connectivity possibilities, including support for Canon's XC Protocol, Standard Protocol, SRT, FreeD, RTMP, and NDI®|HX. Utilizing today's most popular live production protocols and streaming platforms, the CR-X300 instantly streams stunning, high quality 4K video, eliminating the wait for completed video files to download.

The CR-X300 supports the NDI | HX® protocol that is well-established in the field of video production and broadcasting as the supporting RTP. NDI offers users a simple, low latency network solution for plug-n-play connectivity for PTZ cameras, controllers, and even system monitors. The CR-X300 blends seamlessly into existing NDI networks for easy integration into many environments including live events, sports arenas, outdoor venues and more.

Install paid apps through the Add-On Applications System, and operate them within the CR-X300 without the need for an external computer.

HIGH QUALITY 4K 30P AND FHD 60P VIDEO OUTPUT

The CR-X300 features a Canon 1/2.3-inch 4K CMOS image sensor capable of 4K UHD video capture at 30P or up to 60P in Full HD, making it a strong contender for professional productions.

The CR-X300 PTZ camera incorporates Canon's DIGIC DV 6 Image Processor, which is essential in providing high image quality, advanced performance and convenient operability. This advanced core technology component provides the image-processing power and speed that enables features such as 4K UHD video acquisition and precise Hybrid AF.

The CR-X300 is equipped with *Hybrid AF*, an auto focus system that combines high-precision contrast AF technology and the high-speed phase-difference AF technology to confirm auto focus from the camera. This hybrid auto focus system achieves auto focus faster and more reliably compared to contrast auto focus alone.

CR-X300

REMOTE CAMERA



| | SPECIFICATION | PARAMETER |
|------------|---------------------------|--|
| CAMERA | COLOR | Titanium White |
| | IMAGE SENSOR | 1/2.3" 4K UHD CMOS Image Sensor Total pixels: approx. 2114 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160) |
| | LENS | f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom 35mm equivalent focal length: [4K UHD] approx. 29.3 (W) – 601 mm (T), [Full HD] approx. 30.5 (W) – 627 mm (T) |
| | ZOOM | Optical: 20x Digital: 20x |
| | LENS CONFIGURATION | 8-bladed circular aperture: 12 elements in 10 groups (including 2 aspheric elements) |
| | MINIMUM FOCUSING DISTANCE | 1 cm (0.39 in.) at full wide angle, 60 cm (2.0 ft.) throughout the zoom range (from the front window) |
| | 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) |
| | ND FILTER | ND filter: 1/8 at maximum Enhanced ND filter: 1/32 |
| | GAIN | 0.0 dB – 36 dB |
| | WHITE BALANCE | AUTO (AWB), Set A, Set B, preset settings (daylight: approx. 5600K*, tungsten lamp: approx. 3200K*), color temperature setting (2000K – 15000K), Manual <i>*Color temperatures are given for reference purposes only.</i> |
| | FOCUS | Focus Mode: Manual, Continuous AF, Face Detection AF, Tracking AF type: Hybrid AF, Contrast AF |
| | GAMMA | Normal 1 (Standard), Normal 3 |
| | IMAGE STABILIZER | Optical-shift (Standard IS, Powered IS) |
| | MIN. SUBJECT ILLUMINATION | Approx. 3.0 lux (shutter speed 1/60 sec, frame frequency 5994Hz (P (Program AE) shooting mode), auto slow shutter "Off") |
| MICROPHONE | Built-in, waterproof | |
| WIPER | Equipped | |
| PAN/TILT | OPERATION RANGE | Pan operation range: Horizontal ±180° Tilt operation range: Vertical -40° – +215° |
| | OPERATION SPEED | 0.3° – 60°/sec. |
| | NOISE | NC45 or lower (when operating at 60°/sec) |

| | SPECIFICATION | PARAMETER | |
|-------------------------------------|---|---|--|
| VIDEO OUTPUT FORMAT | SDI | 3840 x 2160: 2997P, 25.00P, 23.98P (4:2:2 10 bit) 1920 x 1080: 5994P/5994i, 50.00P/50.00i/25.00P, 2997P/23.98P (4:2:2 10 bit) 1280 x 720: 5994P, 50.00P (4:2:2 10 bit) <i>*Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI)</i> <i>*When 3840 x 2160 is selected for HDMI, video will not be outputted to SDI</i> | |
| | | HDMI | 3840 x 2160: 2997P, 25.00P, 23.98P (4:2:2 10 bit) 1920 x 1080: 5994P/5994i, 50.00P/50.00i/25.00P, 2997P/23.98P (4:2:2 10 bit) 1280 x 720: 5994P, 50.00P (4:2:2 10 bit) <i>*Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI)</i> <i>*When 3840 x 2160 is selected for HDMI, video will not be outputted to SDI.</i> |
| | | | IP |
| | Frame frequency 2997 Hz 3840 x 2160: 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 2997 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) | | |
| | Frame frequency 50.00 Hz 1920 x 1080: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 50.00 fps, 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) | | |
| | Frame frequency 25.00 Hz 3840 x 2160: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 25.00 fps, 12.50 fps, 5.00 fps (4:2:0 8 bit) | | |
| | Frame frequency 23.98 Hz 3840 x 2160: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) 1920 x 1080: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) 1280 x 720: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) 640 x 360: 23.98 fps, 11.99 fps, 5.99 fps (4:2:0 8 bit) <i>*JPEG has one pattern fixed depending on the frame frequency (format is fixed and cannot be selected)</i> <i>Resolution: 1280 x 720</i> <i>When frame frequency is 5994/2997 Hz: 14.99 fps,</i> <i>When frame frequency is 50.00/25.00 Hz: 12.50 fps,</i> <i>When frame frequency is 23.98 Hz: 11.99 fps</i> | | |
| | VIDEO TRANSMISSION PROTOCOL | XC (Canon's original), RTSP/RTP, NDI HX, RTMP/RTMPS, SRT, Freed | |
| | CONTROL PROTOCOL | XC (Canon's original), NU (Canon's original), NDI HX, Standard Communication (Serial), Standard Communication (IP) | |
| | NUMBER OF PRESETS | Max. 100 (including home position) | |
| | INTERFACE | COMMUNICATION CONTROL | LAN, Serial |
| | | NETWORK TERMINAL | LAN x 1, RJ45, 1000Base-T |
| | | 6G-SDI OUT TERMINAL | 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) |
| | | GEN-LOCK TERMINAL | BNC jack x1, 1.0 Vp-p/75 Ω, input only |
| | | HDMI OUT TERMINAL | HDMI connector x 1, output only |
| RS-422 TERMINAL | | RJ45 connector x 1 | |
| EXTERNAL DEVICE I/O TERMINAL | | AUX connector x 1 | |
| OTHER | OPERATING ENVIRONMENT | Temperature: +5°F – +104°F (-15°C – +40°C) Startup temperature: +14°F – +104°F (-10°C – +40°C) Humidity: 90% or less (without condensation) | |
| | WIND RESISTANCE | Normal Operation: 15m/s, Operation Possible: 30m/s, Non-Destructive: 60m/s | |
| | POWER SUPPLY | 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: 40.0W DC Input: 40.0W <i>*Class 5 (40.0W required) for power supply devices</i> | |
| | DIMENSIONS (W X H X D) | Approx. 8.54 x 12.24 x 8.54 in. (217 x 311 x 217 mm) (excluding protrusions and connector cover) | |
| | WEIGHT | Approx. 15.5 lb. (7 kg) (body only) | |
| | SUPPORTED CONTROLLERS | Hardware: RC-IP100 Software: Remote Camera Control Application | |

RC-IP100 REMOTE CAMERA CONTROLLER



Canon's RC-IP100 Remote Camera Controller provides control for a Canon camera through the serial port. Additionally, up to 99 supported Canon cameras can be operated via IP control. 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.

Specifications and availability subject to change without notice. Products not shown to scale. Weight and dimensions are approximate. Product shown with optional accessories. Not responsible for typographical errors.
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