

# CR-X300

## CLOSE THE DISTANCE WITH UNRIVALLED CLARITY

The CR-X300 is part of Canon's 4K PTZ camera range suitable for outdoor use. Thanks to IP connectivity and streaming plus a compact, IP65 rated weatherproof housing, it's perfect for Broadcast, Security and Monitoring in all conditions.



- Powerful 4K and Full HD imagery
- Versatile, high quality 20x optical zoom
- Advanced streaming and output options
- Hybrid AF for precise focus
- Smooth, precise control
- For various lighting conditions
- Custom picture settings
- Robust and durable body
- Seamless High Quality 4K Video Streaming



Hybrid CMOS AF III

IP65  
Rated

### PRODUCT RANGE



CR-X300



CR-X500



CR-N500

CR-X300

CR-X500

CR-N500

CR-N300

**Canon**

Live for the story\_

# TECHNICAL SPECIFICATIONS

# CR-X300

<b>CATEGORY</b>		<b>HDMI</b>	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) – 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.
<b>Model Type</b>	Outdoor PTZ low-high	<b>IP</b>	[Frame frequency 59.94 Hz] 1920 x 1080: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 59.94 fps, 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) [Frame frequency 29.97 Hz] 3840 x 2160: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1920 x 1080: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 1280 x 720: 29.97 fps, 14.99 fps, 5.00 fps (4:2:0 8 bit) 640 x 360: 29.97 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) – 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 No
<b>Color</b>	Titanium white	<b>USB Protocol</b>	Protocol: XC (Canon's original), RTSP/RTP, NDI   HX, RTMP/RTMPS, Standard Communication (Serial), Standard Communication (IP)
<b>CAMERA</b>		<b>Preset</b>	Number of presets: Max. 100 (including home position)
<b>Image Sensor</b>	Type 1/2.3 (1/2.3 in.) single-plate CMOS sensor		
<b>Effective Pixels</b>	approx. 8.29 megapixels (3840 x 2160)		
<b>Lens</b>	f=3.67 – 73.4 mm, F/1.8 – 2.8, 20x optical zoom, 8-bladed circular aperture		
<b>Optical zoom</b>	20x optical zoom		
<b>Digital zoom</b>	20x digital zoom		
<b>Focal Length</b>	3.67 – 73.4 mm, f/1.8 – 2.8, 35mm equivalent focal length: [4K UHD] approx. 29.3 (W) – 601 mm (T) [Full HD] approx. 30.5 (W) – 627 mm (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)		
<b>Angle of View</b>			
<b>Minimum Subject Illumination</b>	Approx. 3.0 lux (shutter speed 1/60 sec., frame frequency 59.94 Hz (Programmed AE) shooting mode), auto slow shutter off)		
<b>Shutter Speed</b>	1/6 – 1/2000 sec. (specific values depend on the frame frequency and frame rate)		
<b>Iris</b>	Manual/Automatic aperture		
<b>Gain</b>	0.0 dB – 36 dB		
<b>ND Filter</b>	ND filter: 1/8 at maximum Enhanced ND filter: 1/32		
<b>IR Mode (IR Cut Filter Off)</b>	Yes, Electrically switchable		
<b>White Balance</b>	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 * color temperatures are given for reference purposes only.		
<b>Focus</b>	Focus mode: Manual, Continuous AF, Face AF, Tracking AF type: Hybrid AF, Contrast AF		
<b>Minimum focusing distance</b>	1 cm (0.39 in.) at full wide angle, 60 cm (2.0 ft.) (from the front window)		
<b>Gamma</b>	Normal1, Normal3		
<b>Pan and Tilt</b>	Pan operation range: Horizontal ±180° Tilt operation range: Vertical -40° – +215°  Operation Speed: 0.3° – 60°/sec.		
<b>SERVER</b>			
<b>Video Output Format</b>			
<b>SDI</b>	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)  – Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI) – When 3840 x 2160 is selected for SDI, video will not be outputted to HDMI.		



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## INTERFACE

<b>Communication Control</b>	LAN, Serial
<b>Network Terminal</b>	LAN x 1, RJ45, 1000Base-T
<b>6G-SDI OUT Terminal</b>	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)
<b>GEN-LOCK Terminal</b>	BNC jack x 1, 1.0 Vp-p/75 Ω, input only
<b>HDMI OUT Terminal</b>	HDMI connector x 1, output only
<b>RS-422 Terminal</b>	RJ45 connector x 1
<b>AUDIO INPUT 1/INPUT 2 Terminals</b>	No
<b>MIC Terminal</b>	No
<b>USB Terminal</b>	No
<b>External Device I/O Terminal</b>	AUX connector x 1

## OTHERS

<b>Operating Environment</b>	[Temperature/Humidity Resistance] Temperature Operating Temperature Range -15°C – +40°C (+5°F – +104°F) Start-up Temperature Range -10°C – +40°C (+14°F – +104°F)  Humidity 90% or less (without condensation)  [Survival Wind Speed] 15 m/sec.: Normal operation 30 m/sec.: Operation possible 60 m/sec.: Non destruction
<b>Power Supply</b>	PoE: PoE+ power supply via LAN connector (IEEE802.3at compliant) – PoE and PoE+ cannot be used External power source: 12 V DC (Use the included power cable with DC plug)
<b>Power Consumption</b>	PoE++ Input: 40.0 W DC Input: 40.0 W * Class 5 (40.0 W required) for power supply devices
<b>Dimensions (W x H x D)</b>	Approx. 217 x 311 x 217 mm (8.54 x 12.24 x 8.54 in.) (excluding protrusions)
<b>Weight</b>	Approx. 7.0 kg (15.5 lb.) (body only)
<b>IP Rating</b>	IP65
<b>Wiper</b>	Equipped
<b>Noise</b>	NC45 or lower (when operating at 60°/sec.)

## What's in the box?

- CR-X300
- Power Cable
- Connector Cover
- Important Information Sheet
- Regulation Sheet



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English edition  
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