Canon
Delighting You Always

CR-N700
REMOTE CAMERA

Enjoy a truly engaging experience for both onsite and online attendees in any hybrid events with Canon's high-end indoor PTZ remote camera that provides high quality images and excellent video quality.

Canon's PTZ remote camera CR-N700 is a high-end 4K PTZ remote camera which is capable of fulfilling advanced workflows in the production, sports broadcasting and AR/VR production through the new 12G-SDI terminal, night mode and Free-d protocol. And with add-on licenses, you can enjoy features like auto tracking and auto loop.

New DIGIC DV7 Processor

The new DIGIC DV7 image processor with Canon's 1.0-inch CMOS sensor are optimised to deliver outstanding image quality with exceptional low light performance and additional new features such as eye/head detection AF, HLG/PQ HDR, diffraction correction and much more.
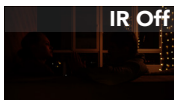
DiGiC DV7

4K 60P Image Quality

The CR-N700 is a versatile, high-end production camera that supports 4K 60P video output, while a new 12G-SDI terminal enables multi output of 4K 60P video for high-end production needs such as smoother playback and slow-motion effects.

4K

Night Shooting Via IR

The CR-N700 helps you to capture natural scenes in the dark. Infrared mode makes it possible to film a variety of shows such as reality shows or animal observations in their natural habitats.

IR Off

IR On

EOS's Intelligent Autofocus Tracking

EOS iTR AF X and Eye AF technologies, as well as Dual Pixel CMOS AF technology, enable the CR-N700 remote camera to seamlessly track your talent, ensuring that even when they move and are obstructed by other people or objects, the camera will keep them in focus.

Dual Pixel CMOS AFII

Eye Detection AF

Even when another subject appears in the foreground, the camera will remain focused on the targeted subject's eye and closely tracks it to continue shooting while maintaining accurate focus.

Face/Head Detection AF

The Canon EOS iTR AF X allows the camera to keep tracking the subject if they turn their face around from the camera. By using deep learning, this feature can help improve the quality of your images.

Crop Function

The crop feature streams a number of views from various angles, allowing viewers a more immersive experience.

With CR-N700's crop function, users can output entire video along with cropped portions simultaneously.

Cropping can be set for up to two locations, output in FHD or HD Crop resolution. Zooming is also possible on cropped images.
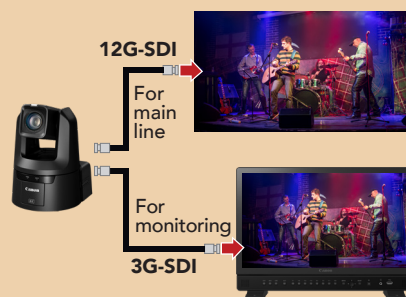
Output terminal 1: Full-screen output
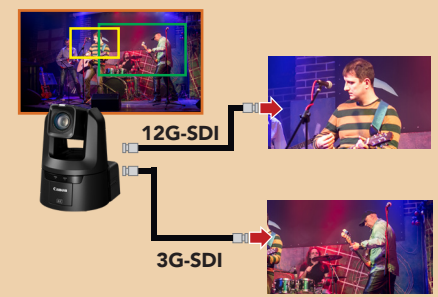
Output terminal 2: Crop 1

Multi Output

The CR-N700 features a 12G-SDI output terminal that can stream 4K 60P video with a single cable. When used together with the 3G-SDI terminal, users can now output two video channels simultaneously.

This means a single camera can output video for different purposes at the same time, answering video production needs by combining various assist functions.

Usage 1: Main Line and Monitoring

12G-SDI — For main line

3G-SDI — For monitoring

Usage 2: Crop Streaming

12G-SDI

3G-SDI

Capture the future of virtual production with the CR-N700 - where creativity meets innovation. With Canon's Auto Tracking technology and Free-d protocol support, unlock endless possibilities for dynamic and immersive virtual productions that will mesmerize your audience like never before!

Free-d and SRT Protocols

The CR-N700 supports Free-d and SRT protocols in addition to a number of other protocols such Canon XC Protocol, RTSP/RTP, NDI|HX, and RTMP/RTMPS.

The CR-N700 can be easily integrated in virtual production applications such as news, weather forecasts, sports and live events thanks to Free-d protocol, which enables them to directly feed in real time the Pan, Tilt, Zoom, Focus and Iris, as well as the position of the PTZ Camera into a virtual platform such as unreal engine.
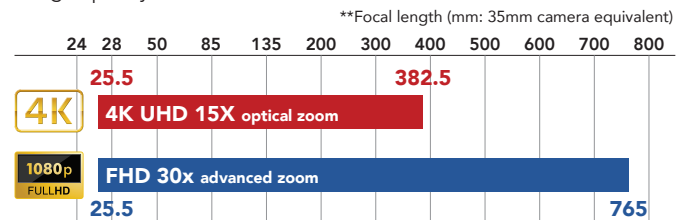

The CR-N700 supports the SRT Protocol which enables high-quality, low-latency and secure video streaming even over unstable public networks.

SRT SECURE RELIABLE TRANSPORT

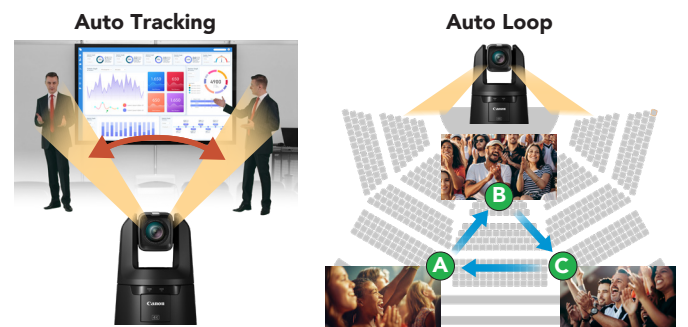| SPECIFICATIONS		
Sensor/Lens		1" 4K 15x Dual Pixel CMOS AF
Advanced Zoom		Yes
IR Mode		Yes (Monochrome)
Video Output I/F		12G-SDI, 3G-SDI, HDMI, IP
Video Output Format [Maximum]	SDI	12G-SDI: 4K 59.94p (4:2:2 10 bit) 3G-SDI: FHD 59.94p (4:2:2 10 bit)
	HDMI	4K 59.94p (4:2:2 10 bit)
	IP	4K 59.94p (4:2:0 8 bit)
HDR		Yes (HLG/PQ)
Log Shooting		Yes
Face Tracking AF		Yes (Face/Head/Eye)
Image Stabilisation		Yes (Optical)
Video Transfer Protocol (IP)		XC Protocol/RTP (RTSP)/RTMP (S)/NDI|HX/SRT
Control Protocol (IP/Serial)		XC Protocol/Standard Communication (Serial/IP)/NDI|HX/Free-d
Power Supply		POE++, DC12V (XLR connector)
Time Code Terminal		Yes
Pan Operation Range/Speed		±170°, 0.1°/s - 100°/s
Tilt Operation Range/Speed		-30° - 90°, 0.1°/s - 100°/s
Crop Function		Yes

30x Advanced Zoom

The CR-N700 is equipped with 15x optical zoom starting from 25.5mm. Using the 4K sensor during FHD, it can shoot at a maximum of approximately 30x advanced zoom while maintaining image quality.

**Focal length (mm: 35mm camera equivalent)

| 24 | 28 | 50 | 85 | 135 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |

25.5   382.5

4K — 4K UHD 15X optical zoom

1080p FULLHD — FHD 30x advanced zoom

25.5   765

Add-On Applications System

The CR-N700 supports Canon's Add-On Application Systems which allow Canon PTZ remote cameras to enhance video production by adding advanced features through the installation of paid applications. The system now incorporates Auto Tracking and Auto Loop Applications.

Scan here for info

Auto Tracking

Auto Loop

CR-N700 offers excellent hardware responsive for in-camera auto tracking of subject, with various levels of configuration such as tracking sensitivity, priority display area, or composition for tracking subject.

Supporting two repeated movements and fade mode, Auto Loop application automates a portion of visual creative work, allowing directors and operators to concentrate on switching and camera framing.

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