

NDI CERTIFIED NDI.HX3



VC-TR61N

4K NDI HX3 AI Auto-Tracking 30x Zoom PTZ Camera

VC-TR61N is a feature-rich, twin-lens UltraHD PTZ camera. Equipped with dual 4K sensors and a 30x zoom lens, the VC-TR61N can automatically track individuals at distances of up to 18 meters, making it ideal for larger venues and production environments. Supporting NDI HX3, RTSP, and SRT streaming protocols, the VC-TR61N delivers independent IP outputs from its dual cameras, as well as a Picture-in-Picture (PIP) feed via HDMI and USB ports.

Key Features

- 4K 60 Dual stream output
- 30x Zoom
- NDI HX3 Support
- AI-powered motion tracking
- HDMI, Ethernet, 3G-SDI, USB output



NDI Technology

VC-TR61N supports the latest version of the NDI protocol, NDI HX3. It delivers very high-quality video with ultra-low latency and connects directly to NDI networks.



4K Dual Video Outputs

For accurate tracking, VC-TR61N features dual UltraHD cameras – a main robotic head with optical zoom and a panoramic camera with an ultra-wide viewing angle. Each camera generates an independent 4K IP output for live streaming, AV transmission or multi-channel video production.



Stage Tracking and Everywhere Tracking Modes

Lumens advanced tracking algorithms make the VC-TR61N suitable for use in presentations, conferences, houses of worship and education. Delivering reliable and smooth results, the camera includes mode selection to set tracking areas, exclusion zones and camera movement.



Partition Tracking Mode

In Partition Tracking Mode, the operator can program camera actions depending on the location of the subject within the tracking area. This can include triggering a particular zoom angle to focus the audience's attention on the presenter or a wider shot to frame both the speaker and a whiteboard.



Picture-in-Picture (PIP) Output

As a 2-camera unit, VC-TR61N outputs dual independent IP streams. A simple menu setting also enables it to create a composite picture-in-picture output (via HDMI and USB). The user can easily define the position and size of the inset picture via the web interface.



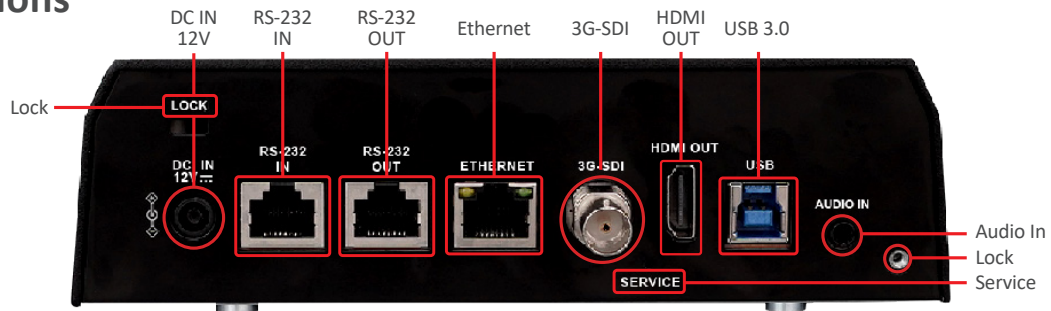
Product Specifications

PTZ Camera	
Sensor	1/1.8" 8.48M
Video Format	2160p : 59.94 / 50 / 29.97 / 25 1080p : 59.94 / 50 / 29.97 / 25 720p : 59.94 / 50 / 29.97 / 25 1080i : 59.94 / 50
Video Output (HD) Interface	HDMI / Ethernet / 3G-SDI / USB
Zoom	30x
Digital Zoom	8x *
Horizontal Viewing Angle	59.2°
Vertical Viewing Angle	33.3°
Diagonal Viewing Angle	67.9°
Aperture	F1.6 ~ F5.4
Focal Length	7.1 ~ 213 mm
Shutter Speed	1/25 ~ 1/10,000 sec
Minimum Object Distance	Tele:1.5m Wide:1m
Video S/N Ratio	> 50dB
Minimum Illumination	0.5Lux (F1.6, AGC ON)
Focus System	Auto, manual
Gain Control	Auto, manual
White Balance	Auto, manual
Exposure Control	Auto, manual
WDR	Yes
3D NR	Yes
Image Flip	Yes
PIP	Yes
Auto Tracking	Yes
Auto Framing	Yes
Panoramic camera	
Sensor	1/2.8" 8.6M
Video Format	2160p : 60 / 50 2160p : 30 / 25 1080p : 60 / 50 / 30 / 25
Horizontal Viewing Angle	85.1°
Aperture	F2.0
Focal Length	3mm

* Digital Zoom only works with HDMI/SDI at 1080p/720p resolution

Pan & Tilt	
Panning Angle	+170 ~ -170°
Panning Speed	0.1°~100°/sec
Tilting Angle	+90 ~ -30°
Tilting Speed	0.1°~ 60°/sec
Preset Positions	256
Output	
HDMI/3G-SDI	HDMI PTZ Camera : 2160p60 Panoramic : 2160p60 3G-SDI PTZ Camera : 1080p 60
IP Stream	RTSP / RTMP / RTMPS / SRT PTZ Camera Stream 1 : 2160p 60 fps Stream 2 : 720p 30 fps Panoramic Camera : 2160p 60fps NDI HX PTZ Camera Main : 2160p 60fps Sub : 640x360p 30fps Panoramic Camera : 2160p 60fps
IP Compression	H.264 / HEVC(H.265)
USB Output	2160p30
USB Compression	H.265(HEVC) / H.264 / MJPEG / YUV2 / NV12
Network	
IP Protocol	NDI HX3 / NDI HX2 / RTSP / RTMP / RTMPS / SRT
PoE	PoE+ (IEEE802.3at)
Audio	
Audio Input	Line In
Audio Output	Ethernet / USB / HDMI / SDI
Audio Compression Format	AAC / PCM
Camera Control	
Interface	RS-232 / Ethernet / USB / Remote
Protocol	VISCA / ONVIF / NDI
UVC	Yes
UAC	Yes
General	
DC In	12V +/- 20%
Power consumption	PoE: 26W DC In: 25W
Body Color	Black / White
Weight	4.4 lbs (2 kg)
Dimension	6.9" x 7.8" x 7.3" (174 x 197 x 187 mm)

I/O Connections



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