Lumens®

VC-TR61

4K AI Auto-Tracking 30x Zoom PTZ Camera

VC-TR61 is a multi-talented 4K PTZ camera with a massive 30x zoom. It features the Lumens award-winning tracking AI engine which allows the camera to operate autonomously, detecting and tracking a subject over distances up-to 18m. The VC-TR61's powerful processor enables the camera to output video simultaneously via HDMI, Ethernet, 3G-SDI and USB, enabling it to work efficiently and flexibly in video, broadcast, streaming and conferencing environments.

Key Features

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

4K Dual Video Outputs

For accurate tracking, VC-TR61 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-TR61 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-TR61 outputs dual independent IP streams. A simple menu setting also enables it to create a composite picture-in-picture output (via 3G-SDI, HDMI and USB). The user can easily define the position and size of the inset picture via the web interface.
This feature can be implement through future firmware updates.

Excellent Quality Ultra HD Video

Paired with a low distortion professional zoom lens, the camera's large (1/1.8") CMOS sensor produces very high quality 4K and HD images. Pictures are detailed and color accurate, and the 60P native frame rate produces extremely natural looking video.
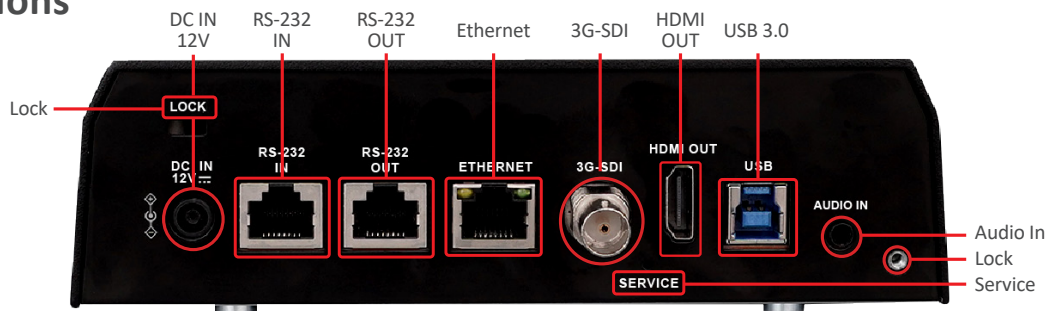
Product Specifications

PTZ Camera	
Sensor	1/1.8" 8.48M
Video Format	2160p : 60 / 50 2160p : 30 / 25 1080p : 60 / 50 / 30 / 25 720p : 60 / 50 / 30 / 25 1080i : 60 / 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
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	2160p 60 / 1080p 60
IP Stream	PTZ Camera Stream 1 : 2160p 60 fps Stream 2 : 720p 30 fps 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	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
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