Lumens®

VC-TR41

AI Auto-Tracking Camera

Lumens VC-TR41 is a dual-lens motion-tracking PTZ camera. Its AI technology makes it easy to identify and track a moving subject smoothly and reliably. VC-TR41 features a 20x optical zoom lens with auto framing technology that intelligently zooms to capture all guests in view. VC-TR41 integrates with Lumens LC300 series CaptureVision system to automate video production and lecture capture, making it ideal for use in presentations and learning environments.

Key Features

- Multiple AI Tracking, Framing and Auto-Switching modes
- 1080P 60fps with 20x Optical Zoom
- HDMI, Ethernet, 3G-SDI and USB simultaneous output
- Zoom certified ProAV camera
- Supports RTSP / RTMP / RTMPS / SRT streaming

Everywhere Tracking Mode

The camera smoothly will follow wherever the presenter goes. You can simply change the tracked subject by clicking on the individual via the web interface.

Partition Tracking Mode

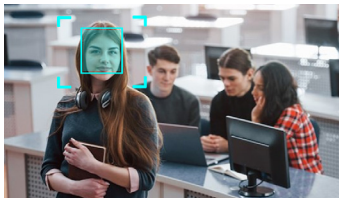
When the presenter moves inside a user-defined Partition Area, the camera switches to a preset angle and zoom. When outside a Partition Area, the camera autonomously follows the presenter.

Stage Tracking Mode

When inside the Tracking Area, the camera follows the presenter with a panning (left-right) movement. When the presenter moves outside the Tracking Area, the camera stops tracking.

Auto-Framing Mode

With Auto-framing function, you can immediately detect the participants in a meeting. It dynamically adjusts its angle frame to include all delegates, re-framing the view if participants join or leave during the session.



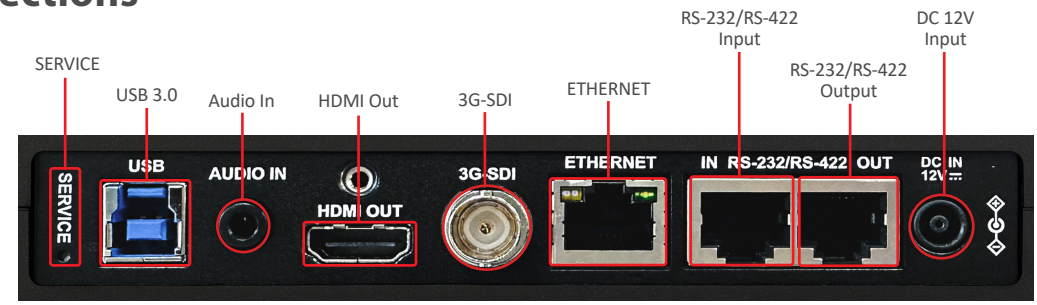
Presenter and Audience Modes

Paired with the CaptureVision LC300 series media processor, VC-TR41 units can be set in Presenter or Audience Mode. Cameras can be set to track speakers or allow contributions from audience members, with the processor automatically switching cameras to create a professional multi-angle production.

Product Specifications

PTZ Camera	
Sensor	1/2.8" 2.16M
Video Format	1080p : 60 / 50 / 30 / 25 720p : 60 / 50
Video Output (HD) Interface	HDMI / Ethernet / 3G-SDI / USB 3.0
Optical Zoom	20x
Digital Zoom	12x
Viewing Angle	58.7° (H) / 33° (V) / 67.3° (D)
Aperture	F1.6 ~ F2.8
Focal Length	4.9mm ~ 94mm
Shutter Speed	1/25 ~ 1/10,000 sec
Minimum Object Distance	500mm
Video S/N Ratio	> 50dB
Minimum Illumination	1 lux (F1.6, 50IRE, 30fps)
Focus System	Auto / Manual / Smart AF
Gain Control	Auto / Manual
White Balance	Auto / Manual
Exposure Control	Auto / Manual
Adaptive LED Mode	Yes
WDR	Yes
3D NR	Yes
Image Flip	Yes
AR/VR systems	FreeD
Auto Tracking	Everywhere / Stage / Partition / Audience Tracking
Auto Framing	Everywhere / Partition
Gesture Control	Yes
Panoramic camera	
Sensor	1/2.8" 2MP CMOS
Video Format	720p30
Horizontal Viewing Angle	87°
Vertical Viewing Angle	49°
Pan & Tilt	
Panning Angle	+170° ~ -170°
Panning Speed	0.2° ~ 120°/sec
Tilting Angle	+90° ~ -30°
Tilting Speed	0.2° ~ 80°/sec
Preset Positions	256
Output	
HDMI / 3G-SDI	1080p60
IP Stream	PTZ Camera Main : 1080p60 Second : 720p30 Panoramic Camera : 720p30
IP Compression	H.264
USB Output	1080p30
USB Compression	MJPEG
Network	
IP Protocol	HTTP / RTSP / RTMP / RTMPS / SRT
PoE	Yes (IEEE802.3af)
Audio	
Audio Input	Line In / MIC In
Audio Output	Ethernet / USB 3.0 / HDMI / SDI
Audio Compression Format	AAC / PCM
Camera Control	
Interface	RS-232 / 422 (RJ-45) / Ethernet / USB 3.0
Protocol	VISCA / ONVIF
UVC	1.1
UAC	Yes
General	
DC In	12V +/- 20%
Power consumption	PoE : 11W DC In : 10W
Body Color	Black / White
Weight	3.3 lbs (1.5 kg)
Dimension	7.5" x 7.3" x 5.4" (190 × 185 × 138 mm)

I/O Connections



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