



TR322

Dual Lens Auto Tracking Camera



Dual Lens



22X Zoom



1080P



3 Auto Tracking Modes



NDI Installed



5-Year Warranty

The AVer TR322 brings AI-powered dual-lens auto tracking to more rooms and applications with a streamlined, cost-effective design. Combining a 22X optical zoom PTZ lens with a wide-angle lens, it keeps the entire room in view while automatically following presenters in sharp detail. With the core tracking intelligence of AVer's premium TR Series, the TR322 delivers flexible, intuitive camera coverage for classrooms, training rooms, meeting spaces, houses of worship, and multi-room deployments.



Dual-Lens Tracking Accuracy

The wide-angle lens continuously monitors the entire room, providing comprehensive situational awareness, while the 22X optical zoom PTZ lens delivers sharp, detailed close-ups of the presenter. Together, the two lenses work seamlessly to minimize blind spots, maintain accurate tracking, and keep presenters in frame as they move naturally throughout the space.



Intelligent Tracking, Your Way

Choose from Presenter, Zone, Hybrid, and Framing modes to tailor the TR322's intelligent tracking to the way each space is used. Whether following a presenter across the room, focusing on a designated area, or maintaining an optimized view of the speaker and surroundings, the TR322 automatically adjusts its framing without requiring manual camera control.



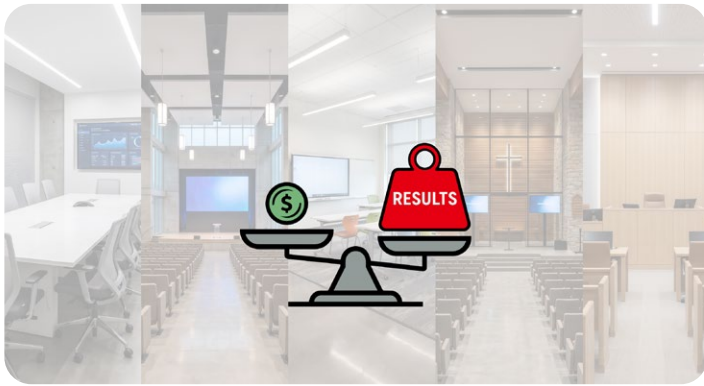
Reach Further. See Every Detail

The 22X optical zoom PTZ lens captures sharp, detailed close-ups even from across large rooms. Whether presenting live or recording for later viewing, the TR322 helps ensure remote audiences can clearly see the presenter and follow every detail.



Built to Fit Your AV Setup

With 3G-SDI, HDMI, USB 3.0, and IP outputs, plus built-in NDI HX3 and PoE+, the TR322 integrates seamlessly into a wide range of AV environments. Flexible connectivity and simplified power and cabling help streamline installation while making it easy to work with existing workflows and infrastructure.



Scale Your Rooms. Not Your Budget

Bring AVer's intelligent auto-tracking technology to more rooms without stretching the budget. The TR322 provides a cost-effective way to standardize dependable, presenter-following video across classrooms, meeting spaces, training rooms, and other multi-room environments.



Specifications

Part Number	PATR322V1
PTZ Camera	
Sensor Size	1/2.8" CMOS
Pixel	8 Mega Pixel
Output Resolution	1080p60, 1080p59.94, 1080p50, 1080p30, 1080p29.97, 1080p25, 1080i60, 1080i59.94, 1080i50, 720p60, 720p59.94, 720p50, (allow to activate 4K via License, will be ready end of 2026Q4) 2160p30, 2160p29.97, 2160p25
TV Line	1200@4K(center), 900@1080P(center)
Focal Length	f = 4.3 mm ~ 94.6 mm
Iris	F=1.6(wide) ~ 4.2(tele)
Optical Zoom	22X
Sensor Zoom	-
Digital Zoom	12X
Total Zoom	264X
D FOV	f = 4.3 mm ~ 94.6 mm
H FOV	70.4°(Wide)~2.86°(Tele)
V FOV	42.7°(Wide)~1.61°(Tele)
Minimum Illumination	0.5 lx (50 IRE, F1.6, 42 dB,30FPS)
Minimum Working Distance	Wide 0.01 m, Tele 1.2 m
Focus	Auto/Manual
White Balance	Auto/Manual/ATW/One Push
Gain	Auto/Manual
Shutter Speed	1/1s to 1/10,000s
BLC(Back Light Compensation)	Yes
Exposure	Auto, Manual, Priority AE(Shutter, IRIS), BLC
Noise Reduction	2D/3D NR
Frequency	50Hz & 60Hz
S/N Ratio	≥50dB
Image Effect	Mirror/ Flip
WDR (Wide Dynamic Range)	Yes
Parameter	
Pan Angle	-170°~+170°
Tilt Angle	-30°~+90°
Pan Control Speed	0.1~100°/sec
Tilt Control Speed	0.05~100°/sec
Preset Speed	Pan: 200°/sec, Tilt: 200°/sec
Preset Number	10 locations by remote, 256 via RS232
IP Streaming	
Resolution (Max)	H.265 1080P(60FPS), H.264 1080P(60FPS), MJPG 1080P(60FPS) If activate to 4K: H.265 2160P(30FPS), H.264 2160P(30FPS), MJPG 2160P(30FPS)
Video Compression	H.265,H.264, MJPEG
Audio Compression	AAC-LC
Protocol	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP/RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP, Onvif
Bitrate	512Kbps ~ 64Mbps
Bitrate Control Mode	VBR/CBR (selectable)
Multi-Stream Capability	Standard mode: 5, ZOOM mode: 5, NDI mode: 5 (S: RTSP & HDMI & USB & 3G-SDI & NDI) Teams mode: 1 (1:USB)
I/O Interface	
Video Output	3G-SDI, HDMI, IP, USB
Audio Output	3G-SDI, HDMI, IP, USB
Audio Input	MIC in/ Line in
Baud rate	4800, 9600, 38400
Bitrate	512Kbps ~ 64Mbps
Control Interface	RS-232 / RS-422 / Ethernet
Control Protocol	VISCA/ PELCO-P /PELCO-D (RS232/RS422/IP), CGI (IP), USB
Network Interface	10/100/1000 Base -T
USB	USB 3.2 Gen 1 = USB 3.0
POE+	PoE+ (IEEE802.3at)
Power Requirements	12v/2A

USB	
Connector	Type B
Video Format	MJPG, YUY2
Resolution (Max)	1080p60 (allow to activate 4K via license) 2160p30
Video Class	UVC 1.1
Audio Class	UVC 1.0
Audio	
Channel	2ch (Stereo)
Codec	AAC-LC (48KHz)
Sample Rate	48KHz
System	
SD Card	N/A
IR Remote Control	Yes
Tally	Yes
Kensington Lock	Yes
Power Consumption	19W Max.
Operating Temperature	0°C ~ +40°C
Operating Humidity	20%~80%
Storage Temperature	-20°C ~ +60°C
Storage Humidity	20% ~ 95%
Dimensions	W180.9*D182.1*H204.6mm
Net Weight	2.1(±0.1) kg
Application	Indoor
Accessory	Remote control,12V power adapter and power cable, RS232 Din8 to DP9 cable, RS232 in/out Y cable, Ceiling mount(x2), M2x4mm Screw(x3), M3x6mm Screw(x3), 1/4"-20 L=6.5mm Screw(x2), Cable fixing plates, Cable ties(x4), Drilling Paper, Quick Guide.
Optional Accessory	Wall mount, Camera Controller(CL01)
Warranty	Camera : 5 years, Accessories : 1 year
Tracking	
Mode	Presenter, Zone, Hybrid, Framing
Multi-Presenter Detection	Yes
AI	Yes
Wide-Angle Camera	
Sensor Size	1/2.8" CMOS
Pixel	2 Mega Pixel
Output Resolution	1080P
Lens Focal Length	2.22mm
Iris	F# 2.4
D FOV	113°
H FOV	105°
V FOV	71°
Minimum Working Distance	0.6m
White Balance	ATW
Exposure	Auto
Wide Angle Camera angle	-10°~+10°
NDI HX3	NDI HX3
Room Size (Meters Distance)	12m(4-15m), Large Toom(> 15m)
Camera Type	Dual Lens Tracking Camera
Control Interface	RS-232, RS-422, IP, USB
Built-In NDI	Yes
Built-In Microphone	N/A
Built-In Speaker	N/A

* Specifications may vary depending on location and are subject to change without notice.