

AVer



**TWO LENSES.
ONE FRAME
SAYS IT ALL.**

AVer TR322

Dual Lens Auto Tracking Camera



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Every space has a story, and the AVer TR322 makes sure it's told brilliantly. Presenters are always perfectly framed — no operator, no interruption, no second-guessing. A dedicated wide-angle lens continuously covers the entire space, directing the primary PTZ lens to the active presenter. Sony Exmor™ imaging renders every expression, gesture, and detail with stunning clarity under any lighting condition. With Presenter, Zone, and Hybrid tracking, the TR322 transforms any venue into a self-directing broadcast environment — engineered for corporate, government, worship, sports, and education.



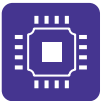
Dual Lens Design



22X Optical Zoom



Full HD 1080p 60fps*



Sony Exmor™ CMOS Sensor



3 AutoTracking Modes



Multi-Presenter Tracking



PbP & PiP Mode



NDI® Pre-installed



Voice Tracking**



5-Year Warranty

* Up to 4K 30fps output upgrade available via license key from Q4 2026.
** Voice Tracking requires Matrix Tracking Boxes.
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Dual Lenses. One Focus.

The TR322's dedicated wide-angle sensor continuously tracks the entire space, enabling the PTZ tracking lens to lock onto the subject with precision and reliability. Dual-lens AI supports seamless, uninterrupted subject tracking, keeping both remote and in-room audiences focused on the speaker.

Front-Row Detail. Wherever You Are.

22X true optical zoom and Sony Exmor™ high-sensitivity imaging pull in every participant through sharp, vivid focus regardless of room depth or seat position. Every facial expression, every gesture, every slide detail is rendered in pristine 1080p Full HD, making distance irrelevant to engagement.

Any Lighting. Balanced Imaging.

Backlit windows, high-contrast stages, dimly lit sanctuaries — the TR322 delivers clean images where other cameras struggle. Sony Exmor™ wide dynamic range balances every frame automatically, delivering broadcasting grade image quality that looks professionally lit, even in tough lighting conditions.

Your Automated Director. Always On.

Presenter, Zone, and Hybrid tracking modes transform the TR322 into a self-directing production crew. Walk in, start presenting, and let intelligent AI orchestrate every shot and angle — so your team stays focused on the message, not the mechanics of capturing it.

Plug In. Go Live.

NDI® HX3, HDMI®, USB, and IP streaming capabilities mean the TR322 instantly connects to virtually any production environment. No signal converters, no routing headaches, no AV operator required. From boardroom to broadcast, your content reaches the world the moment you're ready to share it.

One Camera. Infinite Applications.

Standardize on a single intelligent platform across every facility — boardrooms, lecture halls, courtrooms, sanctuaries, and arenas. The TR322's consistent AI tracking behavior, uniform control protocols, and enterprise grade reliability eliminate the complexity of managing mixed camera ecosystems at scale.

Product Specifications

Camera		General	
Image Sensor	1/2.8" Sony Exmor™ CMOS	Power Requirement	AC 100 - 240V to DC 12V/2A
Total Picture Elements	8.59 Megapixels	Power Consumption	19W
Effective Picture Elements	8.45 Megapixels	PoE	PoE+ (IEEE802.3at)
Output Resolutions	4K/30**, 4K/29.97**, 4K/25**, 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50	Dimensions (W x H x D)	180.9 x 204.6 x 182.1 mm
		Net Weight	2.1 (±0.1) kg
		Application	Indoor
Minimum Illumination	0.5 lux (IRE50, F1.6, 30fps)	Tally Lamp	Yes
S/N Ratio	≥ 50 dB	Security	Kensington Slot
Gain	Auto, Manual	Remote Control	Infrared
TV Line	4K**: 1200 (Center), 1080p: 900 (Center)	Operating Conditions	Temperature : 0 °C to +40 °C ; Humidity : 20% to 80%
Shutter Speed	1/1 to 1/10,000 sec	Storage Conditions	Temperature : -20 °C to +60 °C ; Humidity: 20% to 95%
Exposure Control	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR	IP Streaming	
White Balance	Auto, Manual, ATW, One Push, Indoor, Outdoor	Resolution	Up to 4K 30fps**
Optical Zoom	22X	Network Video Compress Formats	H.264, H.265, MJPEG
Digital Zoom	12X	Network Audio Compress Formats	AAC-LC (48 K)
Total Zoom	264X	Maximum Frame Rate	Up to 4K 30fps**
Viewing Angles	DFOV: 78.3° (Wide) to 3.27° (Tele) HFOV: 70.4° (Wide) to 2.86° (Tele) VFOV: 42.7° (Wide) to 1.61° (Tele)	Bit-Rate Control Modes	VBR, CBR (selectable)
		Range of Bit-Rate Setting	512 Kbps to 120 Mbps
		Network Interface	10 / 100 / 1000 Base-T
Focal Length	f = 4.3 mm (Wide) to 94.6 mm (Tele)	Multi-Stream Capability	Up to 4K 30fps** Standard Mode, Zoom Mode, NDI® Mode: 5 (RTSP, HDMI®, USB, 3G-SDI***, & NDI®) Teams Mode: 1 (USB)
Aperture (Iris)	F = 1.6 (Wide) to 4.2 (Tele)		
Minimum Working Distance	0.01 m (Wide), 1.2 m (Tele)		
Pan / Tilt Angles	Pan: ±170°, Tilt: +90° / -30°	Network Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP, ONVIF
Pan / Tilt Speed (Manual)	Pan: 0.1° to 100° / sec, Tilt: 0.05° to 100° / sec		
Preset Speed	Pan: 200° / sec, Tilt : 200° / sec		
Preset Positions	10 (IR), 256 (RS-232 / RS-422 / IP)	NDI® HX3	Yes (Pre-installed)
Camera Control - Interface	RS-232 (DIN8), RS-422 (RJ45), IP, USB	NDI® Embedded Bridge	Yes
Camera Control - Protocols	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP), USB, ONVIF	Dante AV-H	N/A
		Camera Tracking Data Output	Supports Free-D Type D0 / D1
Image Processing	Noise Reduction (2D / 3D), Flip, Mirror, WDR, BLC	USB	
Power Frequencies	50 Hz, 60 Hz	Connector	USB 3.2 Gen 1
Wide Angle Camera		Video Format	MJPEG, YUY2
Image Sensor	1/2.8" CMOS	Audio Format	PCM
Effective Picture Elements	2 Megapixels	Maximum Video Resolution	Up to 4K**
Output Resolutions	1080p/30	USB Video Class (UVC)	UVC 1.1
Focal Length	2.22 mm	USB Audio Class (UAC)	UAC 1.0
White Balance	ATW	Web UI	
Exposure	Auto	Live Video Preview	Yes
Viewing Angles	DFOV: 113°, HFOV: 105°, VFOV: 71°	Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control
Pan / Tilt Angles	Tilt: +10° / -10°	Camera / Image Adjustment	Exposure, White Balance, Picture
AI Technology		Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS
Auto Tracking Modes	Presenter Mode, Zone Mode, Hybrid Mode	Supported Web Browsers	Chrome™, Microsoft Edge, Safari®
AI Features	Multi-Presenter Detection, Multi-Presenter Tracking	Software Tools	
Privacy Protection Mechanisms		Device Utility	Supports Windows® 10 or later, macOS® 11.6 or later
Protection Mode	Sleep Mode	Enterprise Management	Supports Windows® 10 or later
Audio		Room Management	Supports Windows® 10 or later, macOS® 11.6 or later
Channel	2ch Stereo	Cloud Management	Supports Chrome™ & Microsoft Edge browsers
Codec	AAC-LC (48 K)	Control Panel	Supports iOS & iPadOS® 11 or later
Sample Rates	48 KHz	OBS Plugin for PTZ Cameras	Supports Windows® 10 or later, macOS® 11.6 or later
Interface		CaptureShare	Supports Windows® 10 or later, macOS® 11.6 or later
Video Outputs	3G-SDI, HDMI®, IP, USB	Warranty	
Audio Outputs	3G-SDI, HDMI®, IP, USB	Camera	5 Years
Audio Inputs	Mic in, Line in, XLR	Accessories	1 Year
Package Contents		Optional Accessories	
Camera, Remote Control, RS-232 In/Out Cable, Din 8 To D-Sub 9 Cable, Power Adapter, Power Cord, Cable Tie (x4), M2 x 4 mm Screw (x3), M3 x 6 mm Screw (x3), 1/4"-20L 6.5mm Screw (x2), Cable Fixing Plate, Ceiling Mount Bracket (x2), Drilling Paper, Quick Start Guide		Aver CL01 PTZ Camera Controller, L-Type Wall Mount	

* Specifications may vary depending on location and are subject to change without notice.
** Up to 4K 30fps output upgrade available via license key from Q4 2026.
*** When choosing 3G-SDI output, only 1080p 60fps resolution is supported.

Product Appearance

Front

1

Tally Lamp

2

PTZ Camera

3

IR Sensor

4

Wide Angle Camera

5

LED Indicator

Back

6

Kensington Lock

7

PoE+

8

RS-232

9

RS-422

10

USB 3.2 Gen 1

11

Audio In

12

HDMI®

13

3G-SDI

14

DC 12V

Bottom

15

2-Position Toggle Switch



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Distributor/Dealer