



# TR331

**AI Auto Tracking**

**30X HD PTZ Streaming Camera**



# Achieve the Best Video Experience

The AVer TR331 AI Auto Tracking opens a new world of streaming video to small training studios and home video producers to classrooms and worship facilities! Featuring 30X optical zoom, 2MP camera and full HD resolution, the TR331 has the range and picture quality to produce big-time productions. The advanced artificial intelligence (AI) technology allows you to track your speaker (full or half body) or pre-set shoot zones so you're free to present and let the camera do the rest.

With 3G-SDI/HDMI/IP/USB output, PoE+, Visca control, and compatibility with all popular video platforms, you have all you need to connect with ease in any environment. Includes a ceiling mount to keep clear of live audiences below.

Our industry-leading AVerCare warranty program offers 3 years protection and 24-hour replacement to give you total peace of mind.



3 Auto Tracking Modes



30X Optical Zoom



3G-SDI, HDMI, IP, USB Output



Full HD Resolution



PoE+ Support



Wide Dynamic Range

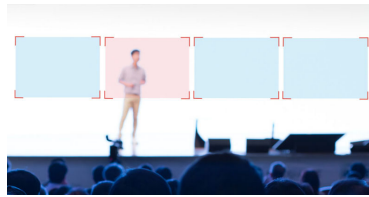
## People Tracking

- Capture every interaction
- Either track full body or half body
- Simple click to track and manually follow an additional presenter via remote control or Web UI



## Zone Tracking

- Establish preset zones
- Create video focused on content
- Enhance the capture of content on multiple displays



## Hybrid Mode

- Camera auto switch between Presenter vs Zone mode
- Combines the best features of Presenter and Zone mode
- Flexibility of tracking presenter freely or fixed content



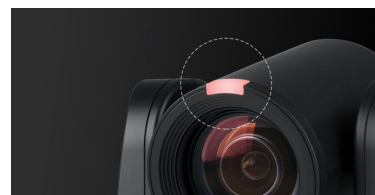
## Wide Dynamic Range

The Wide Dynamic Range (WDR) of the TR331 uses special algorithms to balance dark or bright lighting for one clear image.



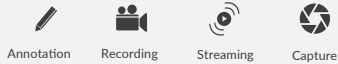
## Tally Light

Simplify multi-camera live video productions with an illuminated red light on the active camera.





Aver's CaptureShare is a free application that lets users easily record video, livestream, and capture images during distance learning and real-time video conferencing.



## Aver PTZ Management

Aver PTZ Management is the newest application to easily manage all Aver Pro PTZ cameras. This Windows-based solution provides complete user management, control of presets, tracking modes, pan/tilt/zoom and more!

## Compatible Software



## Product Specifications

<b>Camera</b>	Sensor Size	1/2.8" CMOS
	Pixel	2MP
	Output Resolution	Resolution: 1080p/720p Frame Rate: 60/59.94/50/30/29.97/25
	TV Line	900 (center/wide)
	Focal Length	f=4.3 ~ 129mm
	Iris	F=1.6 (Wide) ~ 4.7 (Tele)
	Optical Zoom	30X
	Digital Zoom	12X
	Total Zoom	360X
	D FOV	72.9° (wide) ~ 2.64° (Tele)
	H FOV	65.1° (wide) ~ 2.34° (Tele)
	V FOV	38.4° (wide) ~ 1.36° (Tele)
	Minimum Illumination	0.7 lux (50 IRE, F1.6, Max AGC, 1/30)
	Minimum Working Distance	Wide 0.01m, Tele 1.2m
	Focus	Auto/Manual/One Push
	White Balance	Auto/Manual
	Gain	Auto/Manual
	Shutter Speed	1/1 s to 1/10,000 s
	BLC (Back Light Compensation)	Yes
	Exposure	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR
	Noise Reduction	2D/3D NR
	Frequency	50Hz & 60Hz
	S/N Ratio	≥50dB
	Image Effect	Mirror/Flip Freeze/WDR/BLC
	WDR (Wide Dynamic Range)	Yes
<b>Parameter</b>	Pan Angle	-170° ~ +170°
	Tilt Angle	-30° ~ +90°
	Pan Control Speed	0.1 ~ 100°/Sec
	Tilt Control Speed	0.1 ~ 100°/Sec
	Preset Speed	Pan: 200°/Sec, Tilt: 200°/Sec
	Preset Number	10 Locations by Remote, 256 vis RS232
<b>IP Streaming</b>	Resolution (Max)	1080P (60FPS)
	Video Compression	H.264, H.265, MJPEG
	Audio Compression	AAC, G.711, PCM
	Protocol	IPv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP/RTCP, RTSP, RTMP, VISCA over IP
	Bitrate	512Kbps ~ 32Mbps
	Bitrate Control Mode	VBR/CBR
	Multi-stream Capability	1080P60 mode: 1080P60*1, 1080P60*1, 720P10*1
	SRT Protocol	Yes

<b>I/O Interface</b>	Video Output	3G-SDI, HDMI, IP, USB
	Audio Output	3G-SDI, HDMI, IP, USB
	Audio Input	MIC in/Line in
	Baud Rate	2400, 4800, 9600, 38400
	Control Interface	RS-232/RS-422/Ethernet
	Control Protocol	VISCA/PELCO-D (RS232/RS422/IP), CGI (IP)
	Network Interface	10/100/1000 Base - T
	USB	3.0
	POE+	PoE+ (IEEE802.3at)
	Power Requirements	12V
<b>USB</b>	Connector	USB3.0 (typeC)
	Video Format	MJPEG, YUV
	Resolution (Max)	1080P
	Video Class	UVC 1.1
<b>Audio</b>	Audio Class	UVC 1.0
	Channel	2ch (stereo)
	Codec	AAC-LC (48/44.1/32.24K), G.711/PCM (8K)
<b>System</b>	Sample Rate	48/44.1/32/24/16/8Khz
	IR Remote Control	Yes
	Tally	Yes
	Kensington Lock	Yes
	Power Consumption	18W
	Operating Temperature	0°C ~ +40°C
	Operating Humidity	20%~80%
	Storage Temperature	-20°C ~ +60°C
	Storage Humidity	20% ~ 95%
	Dimensions	W180*D145*H183.5mm
<b>Warranty</b>	Net Weight	1.7 kg (+/-0.1) (3.75 lbs)
	Application	Indoor
	Accessory	Remote control, 12V power adapter, power cable, Din8 to D-Sub9 cable, RS232 in/out cable, screw for mount, ceiling mount, cable fixing plates, quick guide.
	Software Tools	Aver PTZ Management, CaptureShare
	Camera	3 Years
	Accessories	1 Year
<b>Tracking</b>	Mode	Presenter, Zone, Hybrid
	Mechanism	Human detection (half or full body)
<b>Ordering Info</b>	Part Number	PAVPTR331



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