



# TR313V2

**AI Auto Tracking**

**12X Ultra HD PTZ Streaming Camera**



# Great Video. No Compromises.

The AVer TR313V2 AI Auto Tracking Camera delivers professional-grade lectures, sermons, trainings or whatever you need to stream! The 12X optical zoom, powerful 8MP camera and 4K resolution offer the range and picture quality to produce the highest quality productions. The advanced artificial intelligence (AI) technology allows you to track your speaker (full or half body) or pre-set shoot zone without a dedicated camera operator.

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



12X Optical Zoom



3G-SDI, HDMI, IP, USB Output



4K Resolution



8MP Picture



Wide Dynamic Range

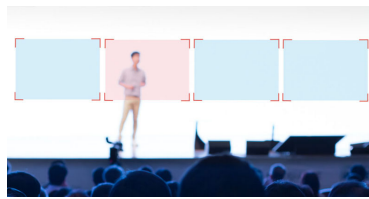
## Presenter Tracking

- 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



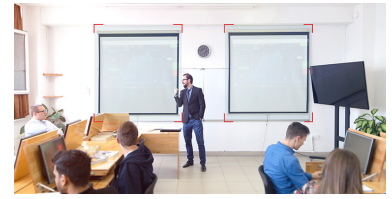
## Zone Tracking

- 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



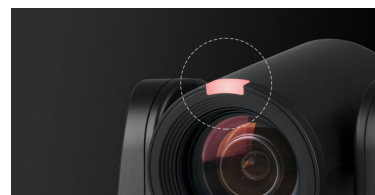
## Wide Dynamic Range

The Wide Dynamic Range (WDR) of the camera 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.





## Free Software for Users and AV Managers

Whether you need a simple tool to control your PTZ or TR camera, or manage over a hundred on your network, AVer has great options. CaptureShare and PTZ Management for desktop and AVer PTZ Control Panel for iPad have you covered. For new voice tracking features, look to PTZ Link. Visit our support page for easy download of our desktop software.



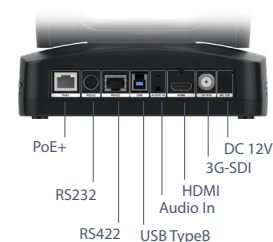
## Compatible Software



## Product Specifications

<b>Camera</b>	Sensor Size	1/2.8" CMOS
	Pixel	8MP
	Output Resolution	Resolution: 4K*/1080p/720p Frame Rate: 60/59.94/50/30/29.97/25 *So far 4K can only support 30/29.97/25
	TV Line	1400 (center/wide)
	Focal Length	f=3.9 ~ 46.8mm
	Iris	F=1.6 (Wide) ~ 2.8 (Tele)
	Optical Zoom	12X
	Digital Zoom	12X
	Total Zoom	144X
	D FOV	78° (wide) ~ 7° (Tele)
	H FOV	70° (wide) ~ 6° (Tele)
	V FOV	42° (wide) ~ 3° (Tele)
	Minimum Illumination	0.5 lux (50 IRE, F1.6, Max. AGC, 1/30)
	Minimum Working Distance	Wide 0.3m, Tele 1.5m
	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)	4K (30PFS)
	Video Compression	H.264, H.265, MJPEG
	Audio Compression	AAC, 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	4K mode: 4K30*1, 1080P30*1, 720P10*1 1080P60 mode: 1080P60*1, 1080P60*1, 720P10*1
	NDI Protocol	No
	SRT Protocol	SRT will be added in Dec 2021

<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	RS232/RS422/IP
	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 (typeB)
	Video Format	MJPEG, YUV
	Resolution (Max)	2160P
	Video Class	UVC 1.1
<b>Audio</b>	Audio Class	UAC 1.0
	Channel	2ch (stereo)
	Codec	AAC-LC(48K)/PCM(8K)
<b>System</b>	Sample Rate	48Khz
	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*H192mm
Net Weight	2.0 kg (+/-0.1) (4.4 lbs)	
Application	Indoor	
<b>Accessory</b>		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	PTZ Management, PTZ Link, OBS Plug in, Control panel, CaptureShare.
<b>Warranty</b>	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	PATR313V2



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