



# TR311

**AI Auto Tracking**

**12X HD PTZ Streaming Camera**



# Professional Quality Video For Everyone.

The AVer TR311 AI Auto Tracking opens a new world of streaming video to small training studios and home video producers to classrooms and worship facilities! Featuring 12X optical zoom, 2MP camera and full HD resolution, the TR311 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



12X Optical Zoom



3G-SDI, HDMI, IP, USB Output



Full HD Resolution



PoE+ Support



Wide Dynamic Range

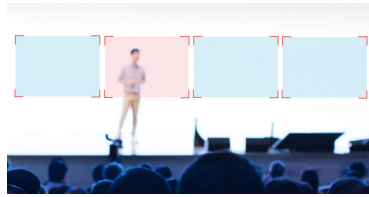
## People Tracking

- 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



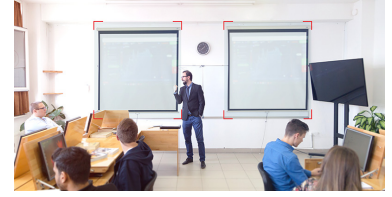
## Zone Tracking

- 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



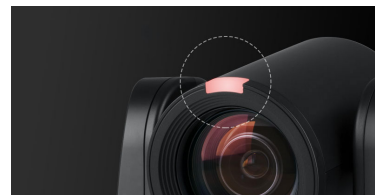
## Wide Dynamic Range

The Wide Dynamic Range (WDR) of the TR311 uses special algorithms to balance dark or bright lighting for one clear image.



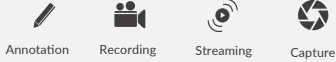
## Tally Light

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=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	0.4 lx (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)
Video Compression		H.264, H.265, MJPEG
Audio Compression		AAC, G.711, PCM
Protocol		IPv6, IPv4, TCP, UDP, ARP, IMCP, 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
<b>Audio</b>	Video Class	UVC 1.1
	Audio Class	UVC 1.0
	Channel	2ch (stereo)
<b>System</b>	Codec	AAC-LC (48/44.1/32.24K), G.711/PCM (8K)
	Sample Rate	48/44.1/32/24/16/8Khz
	IR Remote Control	Yes
	Tally	Yes
<b>Warranty</b>	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
	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	
<b>Tracking</b>	Camera	3 Years
	Accessories	1 Year
<b>Ordering Info</b>	Mode	Presenter, Zone
	Mechanism	Human detection (half or full body)
Part Number	PAVPTR311	

