AVer

TR313

AI Auto Tracking

12X Ultra HD PTZ Streaming Camera

4K ULTRAHD

SRT READY

AVerCare — Pro AV Guarantee
24 Hour Replacement | 3 Year Warranty

Professional PTZ Camera Provider

Great Video. No Compromises.

The AVer TR313 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.

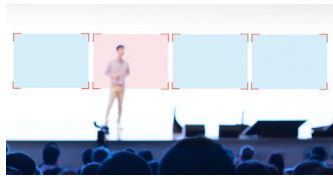| 2 Auto Tracking Modes	12X Optical Zoom	3G-SDI, HDMI, IP, USB Output	4K Resolution	PoE+ Support	Wide Dynamic Range

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

Wide Dynamic Range

The Wide Dynamic Range (WDR) of the TR313 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.

With WDR | Without WDR

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.

Annotation · Recording · Streaming · Capture

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!
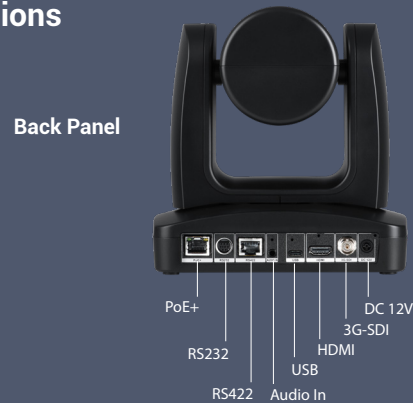
Compatible Software

CRESTRON · echo 360 · Extron

Panopto · KALTURA · vMix

zoom · telestream · NewTek

Product Specifications

Camera		
	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	0.4 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
Parameter	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
IP Streaming	Resolution (Max)	4K (30PFS)
	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	4K mode: 4K30*1, 1080P30*1, 720P10*1 1080P60 mode: 1080P60*1, 1080P60*1, 720P10*1
	SRT Protocol	Yes

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	2400, 4800, 9600, 38400
	Control Interface	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
USB	Connector	USB3.0 (typeC)
	Video Format	MJPG, YUV
	Resolution (Max)	2160P
	Video Class	UVC 1.1
	Audio Class	UVC 1.0
Audio	Channel	2ch (stereo)
	Codec	AAC-LC (48/44.1.32.24K), G.711/PCM (8K)
	Sample Rate	48/44.1/32/24/16/8Khz
System	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
	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
Warranty	Camera	3 Years
	Accessories	1 Year
Tracking	Mode	Presenter, Zone
	Mechanism	Human detection (half or full body)
Ordering Info	Part Number	PAVPTR313

Hardware Specifications

Front Panel

Tally Light
PTZ Camera
Kensington Lock
IR Receiver

Back Panel

PoE+
RS232
RS422
Audio In
USB
HDMI
3G-SDI
DC 12V

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