

# TR310

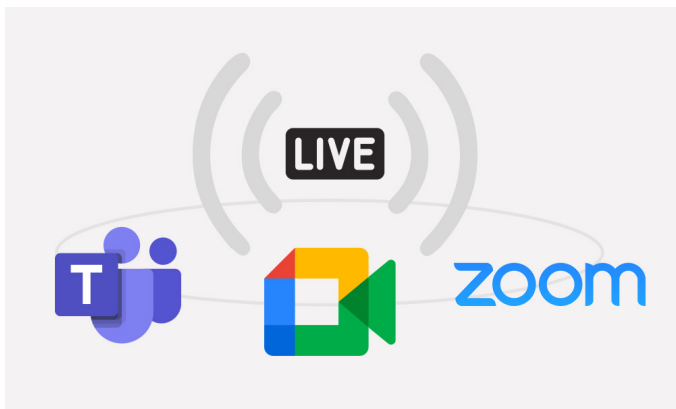
## Distance Learning Tracking Camera



- Distance Learning Ready
- USB HDMI Connectivity
- 2 Auto Tracking Modes
- 10X Optical Zoom
- PoE+
- 3Yr Warranty

### Put Every Student in the Front Row.

The AVer TR310 Distance Learning Camera brings a true in-class experience for remote students while making it easy for educators and IT staff to use. The TR310 uses advanced artificial intelligence (AI) technology to effectively track your teacher or shoot zone without a camera operator. The 10X optical zoom and full HD 1080p60 video resolution capture every little detail.



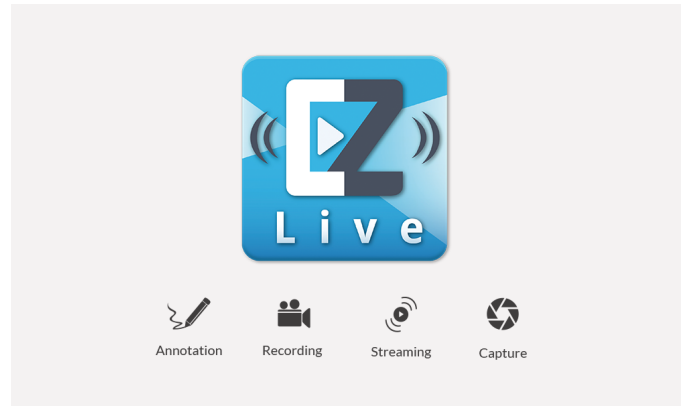
#### Distance Learning Ready

The TR310 is fully compatible with all popular video conferencing platforms such as Zoom, Google Meet, Google Hangouts and Microsoft Teams to connect and stream professional quality videos or record and save your lessons for later reference.



#### You Teach. The Camera Follows

The TR310 features two auto tracking modes including Presenter Tracking or Zone Tracking with no need for a camera operator. Presenter Tracking allows you to automatically follow your presenter with either full body or half body or manually track any other specific presenter with a simple click. Zone Tracking allows you to experience automatic and seamless tracking between multiple preset zones of your classroom.



## In-Classroom Experience

The 2MP camera and 10X optical zoom outputs video with 1080p at 60 fps to give you all you need to share content online. Capture content with brilliant clarity to share the fine details on a whiteboard for a true classroom experience no matter where your students are learning.

## Free Software

Aver's EZLive is a free application for Windows and Mac that lets users easily record video, livestream, and capture images during real-time video conferencing.

## Specifications

Camera					
<b>Sensor</b>	1/2.8" CMOS	<b>Pixel</b>	2MP	<b>TV line</b>	900 (center/wide)
<b>Output resolution</b>	Resolution : 1080p/720p Frame Rate : 60/59.94/50/30/29.97/25			<b>Focal length</b>	f = 3.9 ~ 39 mm
<b>Iris</b>	F=1.6(wide) ~ 3.0(tele)	<b>Optical zoom</b>	10X	<b>Digital zoom</b>	12X
<b>Total zoom</b>	120X	<b>D FOV</b>	78°(wide)~9°(Tele)	<b>H FOV</b>	70°(wide)~8°(Tele)
<b>V FOV</b>	42°(wide)~5°(Tele)	<b>Minium illumination</b>	0.4 lx (50 IRE, F1.6, Max. AGC, 1/30)	<b>Minimum working distance</b>	Wide 0.3 m, Tele 1.5 m
<b>Focus</b>	Auto/Manual/One Push	<b>White balance</b>	Auto/Manual	<b>Gain</b>	Auto/Manual
<b>Shutter speed</b>	1/1 s to 1/10,000 s	<b>BLC(Back Light Compensation)</b>	Yes	<b>Exposure</b>	Auto, Manual, Priority AE(Shutter, IRIS), BLC, WDR
<b>Noise reduction</b>	2D/3D NR	<b>Frequency</b>	50Hz & 60Hz	<b>S/N Ratio</b>	≥50dB
<b>Image effect</b>	Mirror/Flip Freeze/WDR/BLC	<b>WDR(Wide Dynamic Range)</b>	Yes		
Parameter					
<b>Pan angle</b>	-170°~+170°	<b>Tilt angle</b>	-30°~+90°	<b>Pan control speed</b>	0.1~100°/sec
<b>Tilt control speed</b>	0.1~100°/sec	<b>Preset speed</b>	Pan: 200°/sec, Tilt: 200°/sec	<b>Preset number</b>	10 locations by remote, 256 via RS232
IP streaming					
<b>Resolution(Max)</b>	1080P(60PFS)	<b>Video compression</b>	H.264,H.265.MJPEG	<b>Audio compression</b>	AAC, G.711,PCM
<b>Protocol</b>	IPv6,IPv4, TCP, UDP, ARP, IMCP, IGMP, HTTP, DHCP, RTP/RTCP, RTSP, RTMP,VISCA over IP			<b>NDI protocol</b>	No
<b>SRT protocol</b>	Yes	<b>Bitrate</b>	512Kbps ~ 32Mbps	<b>Bitrate control mode</b>	VBR/CBR
<b>Multi-stream capability</b>	1080P60 mode: 1080P60 * 1, 1080P60 * 1, 720P10 * 1				
I/O interface					
<b>Video output</b>	HDMI, IP, USB	<b>Audio output</b>	HDMI, IP, USB	<b>Audio input</b>	MIC in/Line in
<b>Baud rate</b>	2400, 4800, 9600, 38400	<b>Control interface</b>	RS-232/RS-422/ Ethernet	<b>Control protocol</b>	VISCA/PELCO-D (RS232/RS422/IP), CGI(IP)
<b>Network interface</b>	10/100/1000 Base - T	<b>USB</b>	3.0	<b>PoE+</b>	PoE+ (IEEE802.3at)
<b>Power requirement</b>	12V				

USB					
Connector	USB3.0 (typeC)	Video format	MJPG, YUV	Resolution(Max)	1080P
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	No	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	Warranty	Camera : 3 years Accessories : 1 year
Accessory	Remote control, 12V power adapter, power cable, Din8 to D-Sub9 cable, cable fixing plates, quick guide.				
Tracking					
Mode	Presenter, Zone	Mechanism	Human detection (half or full body)		
Ordering info					
Part number	PAVPTR310				

Front



Back



AVer Information Inc. Americas averusa.com. 668 Mission Court, Fremont, CA 94539

T:408.263.3828 F:408.263.8132 Toll free:1.877.528.7824

©Copyright 2020, AVer Information Inc. All rights reserved. Specifications subject to change without notice.

Zoom, Google Hangouts, Google Meet and Microsoft Teams are trademarks of their respective owners.