TR311HN

AI Auto Tracking

12X NDI PTZ Streaming Camera

NDI® 5

SRT READY

Certified for ClickShare Conference BARCO

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

Professional PTZ Camera Provider

Track. Stream. Collaborate Remotely.

The sleekly designed AVer TR311HN AI Auto Tracking Camera is the affordable solution that uses advanced artificial intelligence (AI) technology to effectively track your speaker or shoot zone without a dedicated camera operator.

The 12X optical zoom and full HD 1080p60 video resolution are ideally suited for distance learning classrooms, houses of worship or training environments. With IP/HDMI/USB output, NDI® 5 support, PoE+ and Visca control, you have all you need to connect and stream professional quality videos.

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	IP/HDMI/USB Output	Support NDI® 5	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
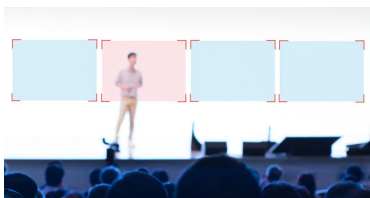
Hybrid Mode

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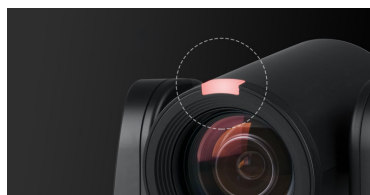- Flexibility of tracking presenter freely or fixed content

Wide Dynamic Range

The Wide Dynamic Range (WDR) of the TR311hn 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.
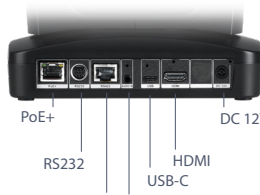
Product Specifications

Camera		
	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
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)	1080P (60PFS)
	Video Compression	H.264, H.265.MJPEG
	Audio Compression	AAC, G.711,PCM
	Protocol	NDI® 5, IPv6, IPv4, TCP, UDP, ARP, IMCP, IGMP, HTTP, DHCP, RTP/RTCP, RTSP, RTMP, VISCA over
	Bitrate	512Kbps ~ 32Mbps
	Bitrate Control Mode	VBR/CBR
	Multi-stream	1080P60 mode: 1080P60*1, 1080P60*1, 720P10*1
	NDI Protocol	NDI® 5
	SRT Protocol	Yes

I/O Interface		
	Video Output	HDMI, IP, USB
	Audio Output	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
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)
	Security	Kensington slot
	Sample Rate	48/44.1/32/24/16/8Khz
System	IR Remote control	Yes
	Tally	Yes
	Power Consumption	18W
	Operating	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)
	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	PATR311HN

PoE+   DC 12V
RS232   HDMI
RS422   USB-C
Audio In

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