



TR311HN

AI Auto Tracking

12X NDI PTZ Streaming Camera

NDI[®] | HX



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|HX2 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.



2 Auto Tracking Modes



12X Optical Zoom



IP/HDMI/USB Output



Support NDI|HX2 Protocol



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 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.



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

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
	Resolution (Max)	1080P (60FPS)
IP Streaming	Video Compression	H.264, H.265, MJPEG
	Audio Compression	AAC, G.711, PCM
	Protocol	NDI, 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
	NDI Protocol	NDI HX2
	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	MJPEG, YUV
	Resolution (Max)	1080P
	Video Class	UVC 1.1
Audio	Audio Class	UVC 1.0
	Channel	2ch (stereo)
	Codec	AAC-LC (48/44.1/32.24K), G.711/PCM (8K)
	Security	Kensington slot
System	Sample Rate	48/44.1/32/24/16/8KHz
	IR Remote control	Yes
	Tally	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)
Warranty	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.
Tracking	Software Tools	AVer PTZ Management, CaptureShare
	Camera	3 Years
Ordering Info	Accessories	1 Year
	Mode	Presenter, Zone
Mechanism	Mechanism	Human detection (half or full body)
	Part Number	PATR311HN

Hardware Specifications

Front Panel



Back Panel



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