

Tenveo VHD MAX Series FHD PTZ Cameras

# AI Auto Tracking PTZ Cameras

12x/20x/30x Optical Zoom for Option



**AI** Auto Tracking    **1080P** 60FPS    **NDI|HX2**    **SRT**    **POE**    **USB 3.0+HDMI** +IP+SDI

Tenveo AI Auto Tracking PTZ cameras automatically Pan, Tilt, and Zoom to follow the presenter as they move about the stage or platform. The set- and-forget programming eliminates the need for an operator and makes sure the auto-tracking is always ready to go. The Tenveo Auto Tracking PTZ cameras offer high-quality video with max resolution of 1080p at 60fps. And with SONY CMOS image sensors, you can count on great image quality even in low-light scenarios.

## Smart Auto-Tracking

The auto-tracking technology uses the latest human detection AI algorithms to exhibit unparalleled tracking speed and accuracy. This monocular tracking method uses only one camera and one lens to easily detect and capture human forms and moving objects in seconds.



## Various Optical Zoom Lens, 12x/20x/30x Optical Zoom

With 12x/20x/30x Optical Zoom for option, Tenveo AI Auto Tracking PTZ cameras provide unrivaled flexibility to adapt to any application scenarios by providing close-up shots with excellent details.



## High Signal to Noise Ratio

Low noise CMOS ensures super high signal to noise ratio of video taken by Tenveo AI Auto Tracking PTZ cameras. With advanced 2D and 3D noise reduction technology, noise is reduced and image resolution is guaranteed.



## Support 1080P60FPS Shooting and Comprehensive Connectivity

Packed with an array of video connections including USB 3.0, HDMI, LAN and SDI, Tenveo AI Auto Tracking PTZ cameras boast unparalleled functionality with sophistication and style. The HDMI / SDI standard interfaces support uncompressed digital video signal transmitting without any delay, while IP provides an easy one-cable to camera setup and operation, including direct local recording to USB flash drive without NVR. Max 1080p at 60 fps videos can be output through all the four video output ports. When tracking mode is disabled, the Auto Tracking cameras can also be controlled through RS232, RS485, USB3.0, IP&PoE&NDI |HX2, and IR remote. The 3.5mm audio input that supports AA audio coding with limited bandwidth allows stereo sound to be embedded into video signals, while the 3.5mm audio output when connected to an external speaker allows you to play audio clips.



## Built-in Gravity Sensor, The Image Flips Automatically



## Up to 255 Preset Positions

TEVO-VHD MAX Series features smooth, quiet and precise positioning with up to 255 preset positions (10 preset positions by IR remote controller) that can save pan, tilt, and zoom settings. Positioning at the touch of a button can be performed at a range of speeds from very slow to very fast while retaining pin-point accuracy.

Model No.	VHD612A	VHD620A	VHD630A
Sensor		1/2.8"	
Effective Pixels		2.07MP	
Video Signals	1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94, 720P50		
Zoom	12x optical zoom	20x optical zoom	30x optical zoom
Lens	f=4.2mm ~ 50.4mm	f=4.6mm ~ 92mm	f=4.6mm ~ 138mm
Aperture	F1.8 ~ F2.8	F1.8 ~ F3.6	F1.8 ~ F3.6
Horizontal Angle	70.2° ~ 6.52°	62.3° ~ 3.46°	62.3° ~ 2.31°
Vertical Angle	42.6° ~ 3.76°	36.1° ~ 1.92°	36.1° ~ 1.29°
Diagonal Angle	77.5° ~ 7.53°	69.5° ~ 3.86°	69.5° ~ 2.63°
Digital Zoom	8X		
Video Output	USB 3.0, HDMI, RJ45, SDI		
Signal Standard	NTSC/PAL		
Control Interface	RS232, RS485, USB, NET		
Shutter	1/30s ~ 1/10000s		
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR		
Backlight Compensation	Support		
Digital Noise Reduction	2D&3D Digital Noise Reduction		
Baud Rate	2400/4800/9600/19200/38400		
Control Protocol	VISCA, Pelco-D, Pelco-P		
USB Protocol	UVC 1.1		
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)		
SNR	≥50dB		
Horizontal Rotation	350° (±175°) 0.1°/s ~ 100°/s		
Vertical Rotation	180° (±90°) 0.1°/s ~ 80°/s		
H & V Flip	Support		
Image Freeze	Support		
PoE	Support		
Number of Preset	255		
Preset Accuracy	0.1°		

#### Generic Specification

Power Supply	DC 12V/2A
Power Consumption	12W
Work Temperature	0°C ~ 40°C
Work Humidity	0~95% RH
Product Size	247.1*152*169.6mm/285*217*197mm(before / after packing)
Product Weight	1.37kg/2.45kg (net / gross weight)

#### IPC Features

Video Encoding Format	H.264/H.265/MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576, 940x540, etc.
Sub Stream Resolution	1280x720, 1024x576, 720x480, 720x408, etc.
Video Bit Rate	32Kbps ~ 102400Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Network Protocol	NDI   HX2, SRT, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

#### IPC Features

HD Output	1xHDMI 1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
LAN	1xRJ45:10M/100M Ethernet Interface, PoE (802.3af)
Audio Interface	1-ch: 3.5mm Audio Interface, Line In 1-ch: 3.5mm Audio Interface, Line Out
USB	1xUSB3.0: Type B female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only 1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P JEITA type (DC IN 12V)
Power Jack	

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