

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

VHD MAX is packed with an array of video connections including USB 3.0, HDMI, LAN and SDI. HDMI / SDI standard interfaces support uncompressed 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 ports. When tracking mode is disabled, the cameras can also be controlled via RS232, RS485, USB3.0, IP&PoE&NDI |HX2, and IR remote. The 3.5mm audio input supports AA audio coding which 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            |                                                                                                                     | IPC Features            |                                                                                  |                  |
| Video Encoding Format   | H.264/H.265/MJPEG                                                                                                   | HD Output               | 1xHDMI 1x3G-SDI: BNC type,                                                       |                  |
| Video Stream            | Main Stream, Sub Stream                                                                                             |                         | 800mVp-p, 75Ω, Along to SMPTE 424M standard                                      |                  |
| Main Stream Resolution  | 1920x1080, 1280x720, 1024x576 , 940x540, etc.                                                                       | LAN                     | 1xRJ45:10M/100M Ethernet Interface,PoE (802.3af)                                 |                  |
| Sub Stream Resolution   | 1280x720, 1024x576, 720x480, 720x408, etc.                                                                          | Audio Interface         | 1-ch: 3.5mm Audio Interface, Line In                                             |                  |
| Video Bit Rate          | 32Kbps ~ 102400Kbps                                                                                                 |                         | 1-ch: 3.5mm Audio Interface, Line Out                                            |                  |
| Bit Rate Type           | Variable Rate, Fixed Rate                                                                                           | USB                     | 1xUSB3.0: Type B female jack                                                     |                  |
| Frame Rate              | 50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps                                                                              | Communication Interface | 1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P     |                  |
| Audio Compression       | AAC                                                                                                                 |                         | 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only   |                  |
| Audio Bit Rate          | 96Kbps, 128Kbps, 256Kbps                                                                                            |                         | 1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P |                  |
| Network Protocol        | NDI  HX2,SRT,TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.                                                 | Power Jack              | JEITA type (DC IN 12V)                                                           |                  |

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