

VLOOP 12U

4K Live Streaming PTZ Camera with AI Auto Tracking



4K
UHD



Multi
interface

NDI | HX2

Auto
Tracking

Tenveo Vloop 12U is equipped with the latest NDI|HX2 SDK, POE, USB3.0, Sony Sensor, 12X optical zoom, and a truly 4K Ultra-HD image system, delivering sharp video, outstanding color, and exceptional optical accuracy. Its built-in AI technology optimizes light balance to emphasize faces and render natural-looking skintones even in dim or backlight conditions, while the advanced AI Humanoid Auto Tracking feature ensures precise and smooth auto-framing of speakers for enhanced engagement. Additionally, the 12X optical zoom with Wide Horizontal Angle enables VLoop 12U to easily meet the needs of medium to large-sized meeting rooms.

4K Ultra HD, Extraordinary Clear and Realistic Video Conferencing Experience

Tenveo VLoop 12U features a Sony IMX415 1/2.8" CMOS Sensor and 4K Ultra HD imaging, delivering sharp, detailed visuals without pixelation—even on large screens. Its 8.29-megapixel resolution and advanced sensor technology ensure lifelike video quality for seamless collaboration.



4K **ULTRA HD**

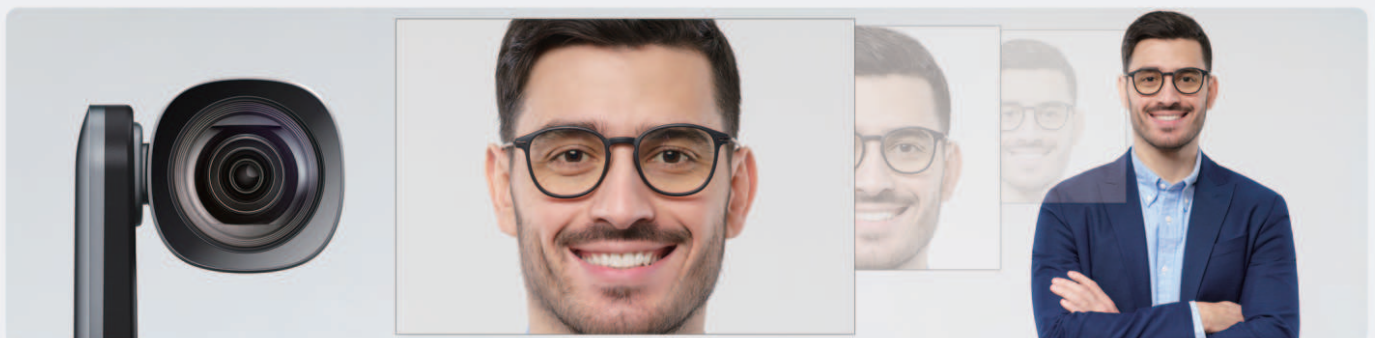
AI Humanoid Auto Tracking

Tenveo VLoop 12U's AI Humanoid Auto Tracking technology leverages the latest human detection AI algorithms for swift and precise tracking. Presenter Tracking mode offers strong locking and anti-interference capabilities, allowing presenters to freely interact with their audience. Zone Tracking mode focuses on a specific area, perfect for highlighting presentations or demonstrations.



12X Optical Zoom Capture More Detail Without Compromising Quality

The Tenveo VLoop 12U's 12X optical zoom delivers sharp, highly detailed video—even when magnified. Zoom in close, and the image remains true-to-life, distortion-free, just as the human eye sees it.



Multi-Interface Design for Ultimate Flexibility

The Tenveo VLoop 12U features USB 3.0, HDMI, and RJ45 connectivity, delivering versatile conferencing solutions. With USB 3.0's 10x faster transfer speed (versus USB 2.0), it ensures smooth, lag-free meetings. For large-screen setups, its HDMI output provides seamless display integration.



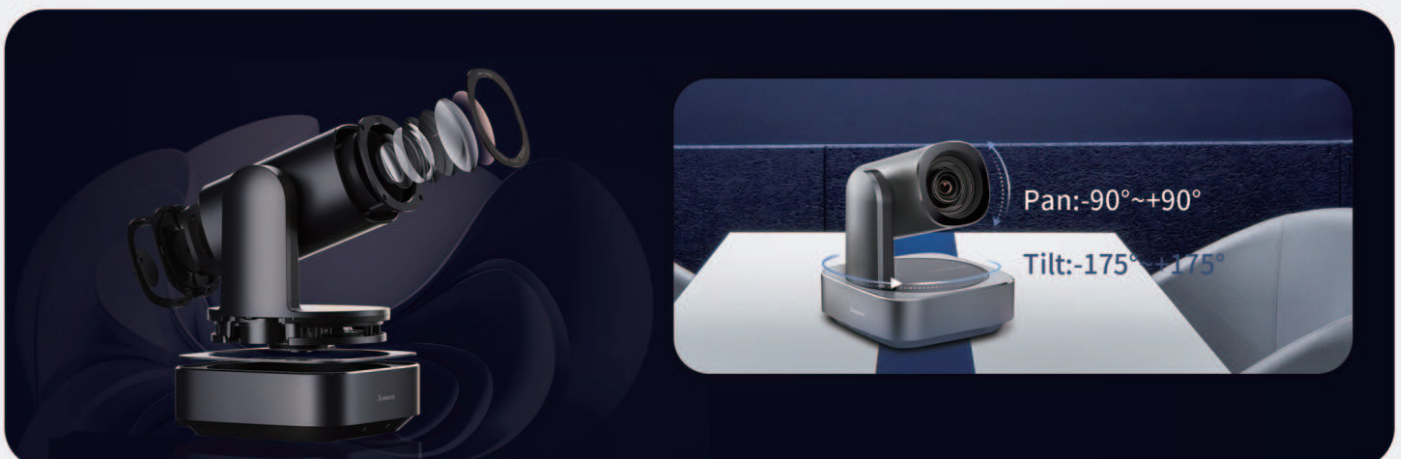
Integrated PoE and Zero-Latency Live Streaming

The RJ45 output of the VLoop 12U supports video live streaming via RTMP/RTSP protocols and PoE functionality. With just a single Ethernet cable, you can enable remote conferencing while eliminating cable clutter – boosting both convenience and work efficiency.



HD Wide-Angle Lens - A Broader, Clearer Perspective

The Tenveo VLoop 12U features a 70° wide-angle lens, capturing expansive views with exceptional clarity. Experience smooth, silent operation with its +90° tilt and +175° pan rotation – delivering seamless coverage without disruptive movement.



Camera

Model No.	TEVO-VL12U
Image Sensor	Sony IMX415 1/2.8" CMOS
Effective Pixels	8.29MP, 16:9
Lens	f=3.9- 46.8mm
Aperture	F1.6 ~ F9.6
Video Format	NDI@ HX (1920*1080@15-60; 1280*720@15-60;1024*576@15-60; 640*360@15-30)(low bandwidth mode) HDMI(4KP@30/25fps,1080P@60/50/30/25fps,720P@60/50/30/25fps)。 USB3.0(3840*2160P@30fps,2560*1440P@30fps,1920*1080P@30fps, 1280*720P@30fps,640*480P@30fps,320*240P@30fps)。
Optical Zoom	12x zoom
Horizontal Angle	70.82°(W)-6.48°(T)
Vertical Angle	47.72°(W)-73.66°(T)
Diagonal Angle	78.58°(W)-7.42°(T)
Backlight Compensation	Support

Note:learn more about VL series:VL10N(NDI, 10X, 1080P@60fps);VL20N(NDI, 20X, 1080P@60fps)

General Parameter

Operation Systems	Windows 7, Windows 8.1, Windows 10,Windows 11, Android, Mac OS™ 10.10 or higher, Linux (Require to support UVC.)
Input Voltage	DC 12V
Input Current	1.0A (Max.)
Power Consumption	13W (Max.)
Store Temperature	-10℃~ +60℃
Store Humidity	20% ~ 90%
Working Temperature	-10℃~ +50℃
Working Humidity	20% ~ 80%
Dimension (W*H*D)	171.6*192.6*171.6mm/260*217*197mm (before / after packing)
N.W. / G.W	1.43kg/2.096kg (Net / Gross weight)
Accessory	1xCamera; 1xUSB Cable; 1xPower Adapter; 1xWall Mount; 1xManual
Mfg. Warranty	3 Years Parts & Labor

PTZ Parameter

Pan/Tilt Rotation	±175°,-90°~ +90°
Pan Control Speed	0.1 -80°/ sec
Tilt Control Speed	0.1-60°/ sec
Preset Number	255 presets by Pelco-D,32 presets by Pelco-P, 7 presets by Visca (10 presets by remote controller)
SNR	>50dB
Focus	Auto / Manual

I / O Interface

Video Interfaces	RJ45, HDMI, USB3.0
Video Compression Format	H.264, H.265, MJPG, YUY2, NV12
LAN	10M/100M adaptive Ethernet port, Support POE IEEE802.3af
Network Protocol	RTSP, RTMP, ONVIF, GB28181; Support VISCA Over IP
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 9600/4800/38400/2400
Control Interface	RS-232 (input & output), RS-485, TYPE-C(UVC1.1)
Digital Noise Reduction	2D & 3D Noise Reduction
Exposure	Auto / Manual

Hotline : 400-1080-686
Tel : 0086-755-8526-1373
Email : sales01@tenveo.com
Address : 9th and 13th Floor, Fukang Science & Technology Mansion,
No. 7, Fukang Community, Longhua Street, Longhua District,
Shenzhen, China.

