

AI Tracking PTZ Cameras

# Tenveo NV-H Series

Intelligent Framing from Wide-Angle to Long-Range



**Max 4k  
Resolution**

**3x/12x/20x  
Optical Zoom**

**4x/8x  
Digital Zoom**

**USB3.0  
+HDMI**

**AI Auto  
Tracking**

Driven by advanced AI tracking, Tenveo NV-H Series delivers unprecedented automation and video clarity. These PTZ cameras leverage high-performance Sony CMOS sensors to intelligently frame subjects and ensure smooth, detailed 4K or Full HD video. With flexible optical zoom options, dual HDMI & USB 3.0 outputs, and H.265 encoding, NV-H Series provides a future-proof solution for modern conferencing, education, and live streaming environments.

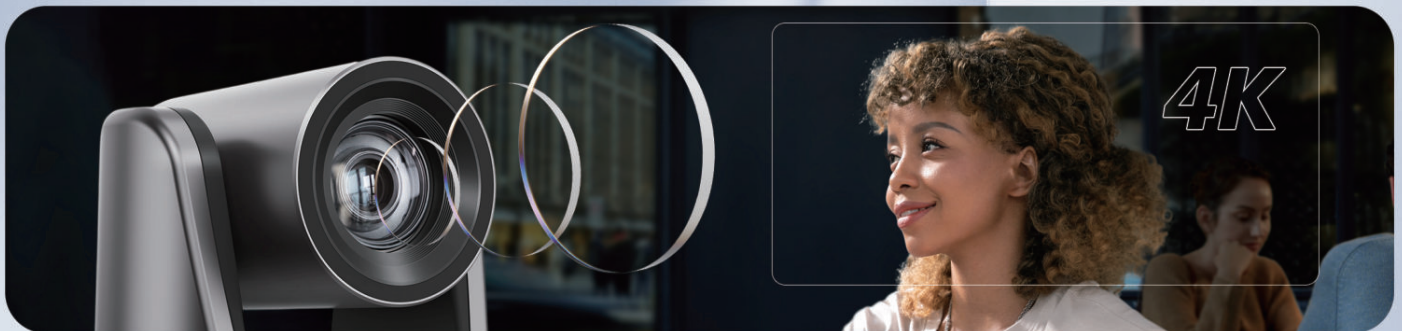
## One Series for Every Space: From Wide Angles to Powerful Zoom

Tenveo NV-H Series covers every scenario with precise optical specs: NV 3H-4K provides a 93° wide-angle for huddle rooms, while NV 12H and 20H offer powerful zoom (75.4°~8.76° and 62.0°~4.1° respectively) for large venues. Enhanced with digital zoom (4x or 8x), every model delivers unparalleled framing flexibility.



## 4K Ultra HD & Full HD Options

NV-H Series offers versatile imaging solutions from 4K Ultra HD to Full HD. Powered by advanced Sony CMOS sensors, NV3H-4K delivers stunning 4K@30fps clarity, while NV3H/12H/20H models provide exceptional Full HD performance.



## AI-Powered Smart Tracking

Tenveo NV-H Series features AI-powered smart tracking to keep subjects perfectly in frame. With Auto Framing, the cameras automatically adjust the view for individuals or groups, while Presenter Tracking ensures the speaker stays centered and smoothly followed—all without manual adjustment.



## Enhanced Image Clarity

NV-H Series ensures professional video quality with advanced 2D/3D noise reduction, effective backlight compensation, and flexible auto/manual focus and exposure controls. With an SNR  $\geq 50$ dB, this Series delivers clean, stable, and true-to-life images across diverse environments.

## *Enhanced Image Clarity*



## Flexible Connectivity

Tenveo NV-H Series offers flexible connectivity with HDMI and USB 3.0 outputs, ensuring seamless integration with conferencing systems, streaming platforms, and professional AV equipment.



USB3.0



HDMI



RS232



RS485

Model No.	NV 3H-4K	NV 3H	NV 12H	NV 20H
Image Sensor	1/2.8"SONY CMOS	1/2.8"SONY CMOS		
Effective Pixels	8.29mega pixel	2.07mega pixel		
Optical Zoom	3x optical zoom	3x optical zoom	12x optical zoom	20x optical zoom
Lens	f=3mm-9mm	f=3mm-9mm	f=3.4mm~40.9mm	f=4.72mm-94.4mm
Aperture	F2.5-F3.4	F2.5-F3.4	F1.8-F3.0	F1.8-3.9
Horizontal Angle	83.0°~ 32.0°	83.0°~ 32.0°	67.5°~7.6°	54.8°~ 3.59°
Vertical Angle	51.0°~ 20.0°	51.0°~ 20.0°	40.18°~4.34°	31.5°~ 2.03°
Diagonal Angle	93.0°~ 39.4°	93.0°~ 39.4°	75.4°~ 8.76°	62.0°~ 4.1°
Video Format	<b>【NV3H-4K】</b> HDMI: 4KP@30/25fps,2KP@60,1080P@60/59.94/50/30/29.97/25fps,720P@60/59.94/50/30 USB3.0: H.264/H.265/MJPG: max to 2160P@30fps, NV12/YUY2: max to 896P@30fps <b>【NV3H/12H/20H】</b> HDMI: 1920*1080P@60/59.94/50/30/29.97/25fps, 1280*720P@60/59.94/50/30 USB3.0: H.264/H.265/MJPG: max to 1080P@60fps, NV12/YUY2: max to 896P@60fps			
AI Support	Yes			
AI Mode	Auto Framing/Presenter Tracking			
Digital Zoom	4X		8X	
Video Encoding Format	H.264, H.265, MJPEG, YUY2			
Backlight Compensation	Support			
SNR	≥50dB			
Focus	Auto / Manual			
Digital Noise Reduction	2D & 3D Noise Reduction			
Exposure	Auto / Manual			
<b>I / O Interface</b>				
Video Interfaces	HDMI, USB3.0			
Video Compression Format	H.264, H.265, MJPEG, YUY2			
LAN	/			
Network Protocol	/			
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 2400/4800/9600/38400			
Control Interface	RS232(input/output), RS485,USB3.0 (UVC1.1)			
Video Stream	/			
Main Stream Resolution	/			
Sub Stream Resolution	/			
<b>PTZ Parameter</b>				
Horizontal Rotation	350° (±175°) 0.1°/s ~ 100°/s			
Vertical Rotation	180° (±90°) 0.1°/s ~ 80°/s			
Preset Number	User can set up to 255 presets (10 presets by IR remote)			
<b>General Parameter</b>				
Input Voltage	DC 12V			
Input Current	2.0A (Max.)			
Power Consumption	24W (Max.)			
Dimension (W*H*D)	171*163*173mm/285*217*197mm(before / after packing)			
N.W. / G.W.	1.5kg/2.7kg (net / gross weight)			

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

