Tenveo VX30M Ultra

4K60FPS PTZ Camera with 30x Optical Zoom & AI Auto-Tracking

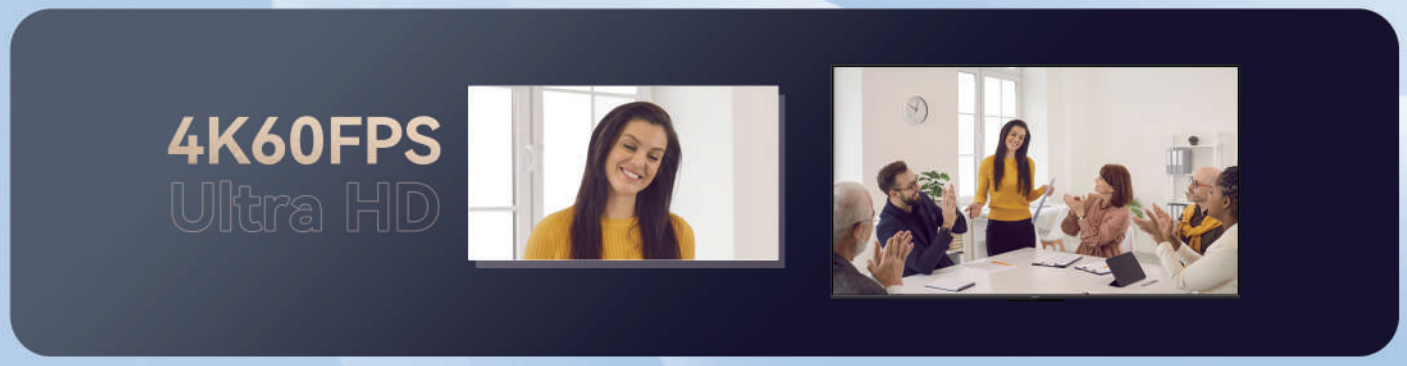


4K 60FPS | 30x Optical Zoom | AI Auto Tracking | NDI|HX3 | Dante AV-H | Free-D Protocol | MULTIPLE INTERFACES

Tenveo VX30M Ultra is a professional 4K60fps PTZ camera designed for intelligent video capture and seamless integration in modern production environments. It combines advanced AI-powered tracking with three flexible modes, exceptional image quality featuring 30x optical zoom plus 16x digital zoom, and robust multi-interface output supporting 4K60fps over HDMI/IP/NDI, 4K30fps via USB3.0, and 1080p60fps over 3G-SDI. With support for industry-standard protocols including NDIIHX3, Dante AV-H, and Free-D, VX30M Ultra is an all-in-one solution for dynamic conference rooms, live events, and virtual production studios.

4K60FPS Ultra HD with High-Performance Zoom

Tenveo VX30M Ultra features a 1/1.8-inch 8.42MP CMOS sensor delivering 4K at 60fps, along with a 66.7° wide-angle lens. It provides 30x optical zoom for clear, detailed capture across distances, plus 16x digital zoom for enhanced framing flexibility.



Advanced AI Auto-Tracking (3 Modes)

VX30M Ultra offers intelligent tracking with three selectable modes to suit various scenarios: Auto Framing for multi-person group shots, Presenter Tracking for stable single-speaker follow, and Zone Tracking for defined area surveillance. Powered by self-developed ReID (Re-identification) technology, it ensures accurate subject recognition and smooth, reliable tracking.



NDI|HX3 & Dante AV-H Support

Tenveo VX30M Ultra enables high-quality, low-latency streaming over standard networks via NDI|HX3, and offers seamless Dante-integrated AV routing with centralized control and NTP (Network Time Protocol) synchronization.



Free-D Protocol for Virtual Production

VX30M Ultra is fully compatible with Free-D, transmitting precise (pan/tilt/zoom/focus/iris) data to 3D software for realistic integration of live footage into virtual environments.



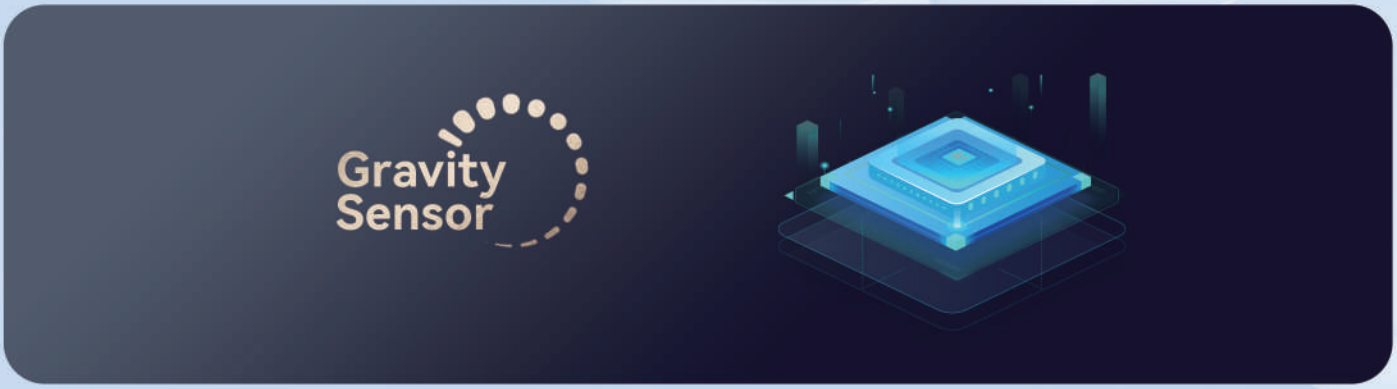
Multi-Interface & Remote Control

Tenveo VX30M Ultra supports flexible multi-interface output: 4k60fps via HDMI and IP/NDI streaming, 4k30fps through USB3.0 streaming, and 1080p60fps via 3G-SDI (transmission up to 150 meters). All outputs can operate simultaneously, providing versatile connectivity for various production setups. The camera is also controllable via RS232, RS485, network, or USB for flexible operation.



Built-in Gravity Sensor

VX30M Ultra features auto image flip to ensure correct orientation in any mounting position, simplifying installation and ensuring reliable performance.



Model No.	VX30M Ultra
Sensor	1/1.8"
Effective Pixels	8.42MP
Video Signals	HDMI: 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97,1080P25, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94 3G-SDI: 1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25; 1080I60, 1080I50, 1080I59.94, 720P60, 720P59.94 USB3.0: H.264/H.265/MJPG: max to 2160P@30; YUY2: max to 1080P@30
Lens & Aperture	F1.61~F5.19
Optical Zoom	30x
Digital Zoom	16x
Zoom Speed	1~8
Focal Length	f=7.1mm~210mm
Horizontal Angle	59.2°~2.5°
Vertical Angle	34.6°~1.4°
Diagonal Angle	66.7°~2.9°
AI Support	Yes
AI Mode	Single Person Tracking/Multiple Person Tracking/Area Tracking
Minimum Illumination	0.5 Lux@(F1.8, AGC ON)
Shutter	1/30s~1/10000s
White balance	Auto/Manual/Indoor/Outdoor/Specific Color Temperature/One-push
Backlight Compensation	Yes
Digital Noice Reduction	3D DNR
SNR	≥55dB
Exposure	Auto/Manual/Shutter Priority/Aperture Priority/Brightness Priority
Foucs	Auto/Manual
Video Encoding Format	H.264/H.265/MJPEG/YUY2
Pan Rotation	350°(±175°)
Tilt Rotation	180°(±90°)
Auto Flip	Yes
Image Freeze	Yes
PoE	Yes
Preset Positions	Remote: 10; Serial Port: 255
Preset Accuracy	0.1°
Preset Call-up Speed	Pan 0.1°/s~100°/s; Tilt 0.1°/s~80°/s

USB		General	
Support operating system	Windows/macOS/Android/Linux	Input Voltage	DC12V
Color Space compression	YUY2/H.264/MJPEG/H.265	Input Current	2A
Video Format	H.264/H.265/MJPEG: max to 2160P@30fps YUY2: max to 1080P@30fps	Power Consumption	24W(Max.)
		Dimension	201*184*221mm/285*217*197mm(Beofore/After Package)
UVC PTZ Control	Yes	Net/Gross Weight	2.4kg/3.8kg

Network		I/O Interfaces	
Video Compression	H.264/H.265/MJPEG	HD Output	1*HDMI, 1*SDI, 1*USB 3.0
Video Stream	Primary Stream, Secondary Stream	Network interface	1*RJ45(Supports PoE)
Main Stream Resolution	3840*2160, 1920*1080, 1280*720, 1024*576, etc.	USB Interface	1*USB3.0, Type-B Port
Sub Stream Resolution	720*480, 320*240, etc.	Audio Interface	1* Line In, 3.5mm Audio Jack 1* Line Out, 3.5mm Audio Jack
Bit Rate	32kbps~840000kbps(Secondary: 32kbps~20480kbps)	Communication Interface	1*RS232 In: 8-pin mini-DIN, Max Distance: 30m, VISCA/Pelco-D/Pelco-P Protocol
Bit Rate Type	VBR, CBR		1*RS232 Out: 8-pin mini-DIN, Max Distance: 30m, VISCA Protocol
Frequency	50Hz/60Hz		1* RS485: 2-pin Phoenix Terminal, Max Distance: 1200m, VISCA/Pelco-D/Pelco-P Protocol
Frame Rate	50Hz: 1fps~50fps; 60Hz: 1fps~60fps		
Audio Compression	AAC		
Audio Bit Rate	96Kbps, 128Kbps		
Network Protocol	Dante AV-H, NDI®|HX2, NDI®|HX3, Free-D, SRT, TCP/IP, HTTP, RTSP, RTMP(s), ONVIF, DHCP, Multicast, etc.	SD Card	NO
		Restore Button	Yes
		Power Interface	JEITA Type (DC IN 12V)

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