

# TENVEO X60

## 30x Closer 4K Clearer 60FPS Smoother AI Camera



**4K**  
60FPS

**30x**  
Optical Zoom

**AI**  
Auto Tracking

**NDI** | HX3

**Dante**  
AV-H

**Free-D**  
Protocol

**MULTIPLE**  
INTERFACES

Tenveo X60 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, 4K30fps via USB3.0/IP/NDI, and 1080p60fps over 3G-SDI. With support for industry-standard protocols including NDI|HX3, Dante AV-H, and Free-D, X60 is an all-in-one solution for dynamic conference rooms, live events, and virtual production studios.

## 4K60FPS Ultra HD with High-Performance Zoom

Tenveo X60 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.

**4K60FPS**  
Ultra HD



## Advanced AI Auto-Tracking (3 Modes)

X60 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.

**AI**  
Auto-Tracking



## NDI|HX3 & Dante AV-H Support

Tenveo X60 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.

**NDI|HX3**



## Free-D Protocol for Virtual Production

X60 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.

# Free-D Protocol



## Multi-Interface & Remote Control

Tenveo X60 supports flexible multi-interface output: 4K60fps via HDMI, 4K30fps through USB3.0 or IP/NDI 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.



3G-SDI



LAN



HDMI



USB3.0



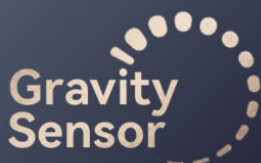
RS232



RS485

## Built-in Gravity Sensor

X60 features auto image flip to ensure correct orientation in any mounting position, simplifying installation and ensuring reliable performance.



|                         |                                                                                                                                                                                                                                                                                                                                                             |                         |                                                                                  |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------|
| Model No.               | X60                                                                                                                                                                                                                                                                                                                                                         |                         |                                                                                  |
| 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<br>3G-SDI: 1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25; 1080I60, 1080I50, 1080I59.94, 720P60, 720P59.94<br>USB3.0: H.264/H.265/MJPG: max to 2160P@30; YUY2: max to 1080P@30 |                         |                                                                                  |
| Optical Zoom            | 30X                                                                                                                                                                                                                                                                                                                                                         |                         |                                                                                  |
| Digital Zoom            | 16X                                                                                                                                                                                                                                                                                                                                                         |                         |                                                                                  |
| Lens                    | f=7.1~210mm                                                                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |
| Aperture                | F1.61~F5.19                                                                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |
| Horizontal Angle        | 59.2°~2.5°                                                                                                                                                                                                                                                                                                                                                  |                         |                                                                                  |
| Vertical Angle          | 34.6°~1.4°                                                                                                                                                                                                                                                                                                                                                  |                         |                                                                                  |
| Diagonal Angle          | 66.7°~2.9°                                                                                                                                                                                                                                                                                                                                                  |                         |                                                                                  |
| Video Output            | USB3.0, HDMI, RJ45, 3G-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 | 3D Digital Noise Reduction                                                                                                                                                                                                                                                                                                                                  |                         |                                                                                  |
| Baud Rate               | 2400/4800/9600/19200/38400                                                                                                                                                                                                                                                                                                                                  |                         |                                                                                  |
| Control Protocol        | VISCA, Pelco-D, Pelco-P                                                                                                                                                                                                                                                                                                                                     |                         |                                                                                  |
| USB Protocol            | UVC 1.1~1.5                                                                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |
| Minimal Illumination    | 0.5 Lux @ (F1.8, AGC ON)                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                  |
| SNR                     | ≥55dB                                                                                                                                                                                                                                                                                                                                                       |                         |                                                                                  |
| 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°                                                                                                                                                                                                                                                                                                                                                        |                         |                                                                                  |
| AI Support              | Yes                                                                                                                                                                                                                                                                                                                                                         |                         |                                                                                  |
| AI Mode                 | Auto Framing/Presenter Tracking/Zone Tracking                                                                                                                                                                                                                                                                                                               |                         |                                                                                  |
| Generic Specification   |                                                                                                                                                                                                                                                                                                                                                             |                         |                                                                                  |
| Power Supply            | DC 12V/2A(MAX)                                                                                                                                                                                                                                                                                                                                              |                         |                                                                                  |
| Power Consumption       | 24W(Max.)                                                                                                                                                                                                                                                                                                                                                   |                         |                                                                                  |
| Product Size            | 201*184*221mm/285*217*197mm(before/after packing)                                                                                                                                                                                                                                                                                                           |                         |                                                                                  |
| Product Weight          | 2.4kg/2.6kg(net/gross weight)                                                                                                                                                                                                                                                                                                                               |                         |                                                                                  |
| IPC Features            |                                                                                                                                                                                                                                                                                                                                                             | Input/Output Interface  |                                                                                  |
| Video Encoding Format   | H.264/H.265/MJPEG/ YUY2                                                                                                                                                                                                                                                                                                                                     | HD Output               | 1*HDMI/1*3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard           |
| Video Stream            | Main Stream, Sub Stream                                                                                                                                                                                                                                                                                                                                     | LAN                     | 1*RJ45: 10M/100M/1000M Ethernet Interface                                        |
| Main Stream Resolution  | 3840x2160,1920x1080,1280x720,1024x576, etc.                                                                                                                                                                                                                                                                                                                 | Audio Interface         | 1-ch: 3.5mm Audio Interface, Line In                                             |
| Sub Stream Resolution   | 720x480, 320x240, etc.                                                                                                                                                                                                                                                                                                                                      |                         | 1-ch: 3.5mm Audio Interface, Line Out                                            |
| Video Bit Rate          | 32kbps~51200kbps(Sencond road: 32kbps~20480kbps)                                                                                                                                                                                                                                                                                                            | USB                     | 1*USB3.0: Type B                                                                 |
| Bit Rate Type           | Variable Rate, Fixed Rate                                                                                                                                                                                                                                                                                                                                   | Communication Interface | 1*RS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P     |
| Frame Rate              | 50Hz: 1fps~50fps/60Hz: 1fps~60fps                                                                                                                                                                                                                                                                                                                           |                         | 1*RS232 Out: 8pin Min DIN, Max Distance:30m, Protocol: VISCA use only            |
| Audio Compression       | AAC                                                                                                                                                                                                                                                                                                                                                         |                         | 1*RS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P |
| Audio Bit Rate          | 96Kbps, 128Kbps                                                                                                                                                                                                                                                                                                                                             |                         | JEITA type(DC IN 12V)                                                            |
| Network Protocol        | Dante AV-H, NDI@ HX3, Free-D, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast                                                                                                                                                                                                                                                                      | Power Jack              |                                                                                  |

**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

