

MILESTONE PRO
4K Live Streaming PTZ Camera with AI Auto Tracking

MP-12UHD-4K



One Pro MP-12UHD-4K is equipped with the latest NDI|HX2 SDK, PoE, USB3.0, Sony Sensor, 12X optical and a truly 4K Ultra-HD image system, delivering sharp video, outstanding color, and exceptional optical clarity. Its built-in AI technology optimizes light balance to emphasize faces and render natural-looking images 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 and Wide Horizontal Angle enables MP-12UHD-4K to easily meet the needs of medium to large-sized meeting rooms.

Product Overview

MP-12UHD-4K is a 4K live streaming PTZ camera designed for conferencing, live streaming and professional video collaboration. The supplied product material highlights a Sony IMX415 1/2.8" CMOS sensor, 8.29-megapixel effective pixels, 12× optical zoom, AI Auto Framing/Presenter Tracking, PoE and multi-interface connectivity.

Highlights

- 4K Ultra HD imaging
- AI Humanoid Auto Tracking
- 12× optical zoom
- 70.82° wide horizontal angle
- RJ45, HDMI and USB 3.0 interfaces
- PoE / IEEE 802.3af support
- RTMP / RTSP live streaming

CAMERA SPECIFICATIONS

Model No.	MP-12UHD-4K
Image Sensor	Sony IMX415 1/2.8" CMOS
Effective Pixels	8.29MP, 16:9
Lens	f=3.9–46.8 mm
Aperture	F1.6–F9.6
Optical Zoom	12× 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)
AI Support	Yes — AI Mode: Auto Framing / Presenter Tracking
Backlight Compensation	Support

VIDEO FORMAT & OPERATING SYSTEM

HDMI Video Format	4K@30/25fps, 2K@60/50/30/25fps, 1080P@60/50/30/25/24fps
USB 3.0 Video	H.264: max to 2160P@30fps; H.265: max to 2160P@30fps; MJPG: max to 2160P@30fps; NV12: max to 896P@30fps; YUY2: max to 896P@30fps
Supported OS	Windows 7, Windows 8.1, Windows 10, Windows 11; Android; Mac OS™ 10.10 or higher; Linux (requires UVC support)

MP-12UHD-4K

Detailed Technical Specification

GENERAL	
Input Voltage	DC 12V
Input Current	1.0A (Max.)
Power Consumption	13W (Max.)
Storage Temperature	-10°C to +60°C
Working Temperature	-10°C to +50°C
Storage Humidity	20% ~ 90%
Working Humidity	20% ~ 80%
Dimension (W*H*D)	171.6 × 192.6 × 171.6 mm / 260 × 217 × 197 mm (before / after packing)
N.W. / G.W.	1.43 kg / 2.096 kg (Net / Gross weight)
Accessory	1× Camera; 1× USB Cable; 1× Power Adapter; 1× Wall Mount; 1× Manual
Warranty	3 Years Parts & Labor

PTZ PARAMETERS	
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 & NETWORK	
Video Interfaces	RJ45, HDMI, USB 3.0
Video Compression Format	H.264, H.265, MJPG, YUY2, NV12
LAN	10M/100M Auto-negotiation Ethernet port; Support PoE IEEE 802.3af
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

4K UHD 8.29MP imaging	AI TRACKING Auto Framing / Presenter Tracking	12× OPTICAL ZOOM Detailed close-up imaging	PoE + STREAMING RJ45 / RTMP / RTSP
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Note: This specification sheet is prepared strictly from the supplied MP-12UHD-4K product document. Where the source uses abbreviated or interface-specific terminology, the wording has been retained.