

MP-30HDAIMAX

AI Auto-Tracking PTZ Camera • Full HD 1080P • 30X Optical Zoom



Professional PTZ Camera for Intelligent Video Capture

The Milestone Pro MP-30HDAIMAX is a Full HD AI auto-tracking PTZ camera designed for live streaming, video conferencing, education, broadcasting, worship, sporting events, concerts and large conferences. It combines 1080P video, 30X optical zoom, AI human tracking, smooth PTZ movement and professional video/control interfaces.

Key Features

Feature	Description
AI Auto Tracking	Human-shape tracking and face recognition for automatic subject tracking.
30X Optical Zoom	Long-distance capture with detailed close-up imaging.
Full HD 1080P	Supports up to 60fps video output.
Smooth PTZ	350° horizontal and 180° vertical movement with preset support.
Professional I/O	HDMI, 3G-SDI, USB 3.0, RJ45, RS232 and RS485 interfaces.
IP Streaming	Supports NDI HX2, SRT, RTMP/RTMPS, ONVIF and other network protocols.
Image Processing	2D/3D digital noise reduction with auto/manual image controls.
PoE Support	Network connectivity with PoE support for system integration.

Typical Applications

Live Events • Conference Rooms • Education & Training • Worship • Broadcasting • Sports • Concerts • Video Conferencing • Large Meetings

Technical Specifications

MP-30HDAIMAX • 1080P 30X Optical Zoom AI Auto-Tracking PTZ Camera

Parameter	Specification
Model	MP-30HDAIMAX
Image Sensor	1/2.8" CMOS
Effective Pixels	2.07 MP
Video Output	1080P up to 60fps
Optical Zoom	30X
Digital Zoom	16X
Lens	f = 4.42–132.6 mm
Aperture	F1.8–F2.8
Horizontal Angle	72.5°–2.63°
Vertical Angle	37.1°–1.68°
Diagonal Angle	72.5°–3.63°
Shutter	1/30s–1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Supported
Digital Noise Reduction	2D & 3D Digital Noise Reduction
Minimum Illumination	0.5 Lux @ F1.8, AGC ON
SNR	>55 dB
Pan Range	350° (±175°)
Tilt Range	180° (±90°)
Pan/Tilt Speed	0.1°/s–100°/s horizontal; 0.1°/s–80°/s vertical
Presets	255
Preset Accuracy	0.1°
H & V Flip	Supported
Image Freeze	Supported
PoE	Supported

Interfaces & Network

Interface / Function	Details
Video Interfaces	HDMI, 3G-SDI, USB 3.0, RJ45
Control Interfaces	RS232, RS485, USB, Network
Control Protocols	VISCA, Pelco-D, Pelco-P
Streaming / Network	NDI HX2, SRT, TCP/IP, HTTP, RTMP/RTMPS, ONVIF, DHCP, GB/T28181, Multicast
Encoding	H.264 / H.265 / MJPEG
Audio Compression	AAC

Interface / Function	Details
Audio Bit Rate	96 Kbps / 128 Kbps / 256 Kbps
Baud Rate	2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200
UVC	UVC 1.1

System & General Specifications

Connectivity, compatibility and physical specifications

Parameter	Specification
Supported Video Signals	1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080i60, 1080i59.94, 1080i50, 720P60, 720P59.94, 720P50
Signal Standard	NTSC / PAL
Power Supply	DC 12V / 2A
Power Consumption	18W
Operating Temperature	0°C–40°C
Operating Humidity	20%–80% RH
Product Size	158.9 × 156.5 × 179.4 mm
Packed Size	285 × 217 × 197 mm
Net Weight	1.51 kg
Gross Weight	2.59 kg

Platform Compatibility

The product documentation states compatibility with Zoom, Teams, OBS and vMix. The camera is also positioned for use with Windows, Mac OS, Linux, Android and higher operating systems.

PTZ & Tracking

Function	Details
AI Tracking	Human-shape tracking based on AI algorithm with face recognition.
Tracking Selection	Automatic tracking and automatic frame selection.
Pan/Tilt	Smooth and silent movement.
Preset Control	10 presets through IR remote; up to 255 presets via RS232/RS485/LAN control.

Product Positioning

A professional PTZ solution for applications requiring automated subject tracking, long-range optical zoom, Full HD imaging and flexible integration with AV, streaming and conferencing systems.

Source Note

Specifications in this sheet are transcribed and condensed from the supplied Milestone Pro MP-30HDAIMAX product PDF. The source also presents 12X and 20X optical-zoom variants in the HDAIMAX series; this sheet is focused on the MP-30HDAIMAX 30X model.

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