

Milestone Pro HDAIMAX Series FHD Camera

AI Auto Tracking PTZ Cameras

12x/20x/30x Optical Zoom for Option



AI
Auto Tracking

1080P
60FPS

NDI|HX2

SRT

POE

USB 3.0+HDMI
+IP+SDI



Milestone Pro Full Interface AI Tracking HDAIMAX Series - The PTZ Live Streaming cameras are equipped with a 12/20/30X Optical Zoom + 8X Digital Zoom which reaches up to 1080P 60FPS FHD video output. Equipped with a 1/2.8" CMOS Sensor, combined with 2D&3D Digital Noise Reduction technology and AI algorithm, they can easily cope with various scenario. HDAIMAX Series surprises you with a vivid color, sharp and crystal video quality.

Smart Auto Tracking

HDAIMAX AI Tracking PTZ cameras support human shape tracking based on advanced AI algorithm. Through face recognition, they can accurately determine the location of people, realize automatic tracking and automatic frame selection. This makes them ideal for capturing live events, such as church services worship events, sporting events, live concerts, or large conferences.



Various Optical Zoom Lens, 12x/20x/30x Optical Zoom

With 12x/20x/30x Optical Zoom for option, HDAIMAX AI Auto Tracking PTZ cameras provide unrivaled flexibility to adapt to any application scenarios by providing close-up shots with excellent details.



Smooth and Silent Pan/Tilt Movement

HDAIMAX PTZ cameras can rotate $350^{\circ}(\pm 175^{\circ})$ horizontally and $180^{\circ}(\pm 90^{\circ})$ vertically in an accurate, smooth and silent way. They also support 10 presets setting through the IR Remote Control and 255 presets via RS232/RS485/LAN interfaces for professional control. It is convenient, quick and accurate to control the PTZ camera pan, tilt, zoom, and move to the preset position for close-up sequence.



Multiple Interfaces

HDAIMAX Series is designed for maximum connectivity and versatility. It features a comprehensive set of interfaces, including 3G-SDI, HDMI, USB 3.0, and RJ45 (with support for PoE 802.3af), ensuring seamless integration with a wide range of devices and platforms. Additionally, it is equipped with dedicated LINE IN and LINE OUT ports for connecting to external audio equipment, enabling simultaneous audio and video streaming (audio device not included). A dedicated power button on the camera offers convenient control for turning the device on and off.



Full Compatibility

Milestone Pro HDAIMAX Series enables you to effortlessly build professional live streaming and video conferencing systems. It is fully compatible with popular platforms such as Zoom, Teams, OBS, and vMix. Perfect for a wide range of applications including church services, education and teaching, broadcast, high-tech conferences, summit forums, and live events. For ultimate flexibility, it supports Windows 7/8.1/10, Mac OS 10.10, Linux, Android, and higher operating systems.

Model No.	1080P 12X ZOOM		1080P 20X ZOOM	1080P 30X ZOOM
Sensor	1/2.8"			
Effective Pixels	2.07MP			
Video Signals	1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94, 720P50			
Zoom	12x optical zoom	20x optical zoom		30x optical zoom
Lens	f=3.5mm ~ 42.3mm	f=4.42mm ~ 88.5mm		f=4.42mm ~ 132.6mm
Aperture	F1.8 ~ F2.8	F1.8 ~ F2.8		F1.8 ~ F2.8
Horizontal Angle	72.29° ~ 6.74°	64.98° ~ 3.47°		63.7° ~ 3.28°
Vertical Angle	43.43° ~ 3.83°	38.41° ~ 1.98°		37.1° ~ 1.68°
Diagonal Angle	80.71° ~ 7.65°	72.88° ~ 3.95°		72.5° ~ 3.63°
Digital Zoom	16X			
Video Output	USB 3.0, HDMI, RJ45, 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	2D&3D Digital Noise Reduction			
Baud Rate	2400/4800/9600/19200/38400/57600/115200			
Control Protocol	VISCA, Pelco-D, Pelco-P			
USB Protocol	UVC 1.1			
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°			
	Generic Specification			
Power Supply	DC 12V/2A			
Power Consumption	18W			
Work Temperature	0°C ~ 40°C			
Work Humidity	20% ~ 80% RH			
Product Size	158.9*156.5*179.4mm/285*217*197mm(before / after packing)			
Product Weight	1.51kg/2.59kg(net / gross weight)			
	IPC Features		IPC Features	
Video Encoding Format	H.264/H.265/MJPEG		HD Output	1xHDMI 1x3G-SDI: BNC type,
Video Stream	Main Stream, Sub Stream			800mVp-p, 75Ω, Along to SMPTE 424M standard
Main Stream Resolution	1920x1080, 1280x720, 1024x576, etc.		LAN	1xRJ45:10M/100M Ethernet Interface
Sub Stream Resolution	1280x720, 1024x576, 720x576, etc.		Audio Interface	1-ch: 3.5mm Audio Interface, Line in
Video Bit Rate	32Kbps ~ 20480Kbps			
Bit Rate Type	Variable Rate, Fixed Rate		USB	1xUSB3.0: Type B female jack
Frame Rate	1fps ~ 60fps		Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance:
Audio Compression	AAC			30m, Protocol: VISCA/Pelco-D/Pelco-P
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps			1xRS232 Out: 8pin Min DIN, Max Distance:
Network Protocol	NDI HX2,SRT,TCP/IP, HTTP, RTSP, RTMP(S), Onvif, DHCP, GB/T28181, Multicast;			30m, Protocol: VISCA network use only
				1xRS485: 2pin Phoenix Port, Max Distance:
				1200m, Protocol: VISCA/Pelco-D/Pelco-P
			Power Jack	JEITA type (DC IN 12V)

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