Milestone Pro MP-20HDAI-4K Ultra

4K@60fps AI Auto Tracking PTZ Camera



4K 60FPS | 20x | AI Auto Tracking | FULL NDI | Dante AV-H™ | POE | MULTIPLE INTERFACES

Milestone Pro MP-20HDAI-4K Ultra is a professional 4K@60fps PTZ camera featuring a 1/1.8 inch 8.29MP CMOS sensor that captures ultra-sharp UHD video with vibrant colors, enhanced low-light capability, and wide dynamic range (WDR). Its 20x optical zoom with 16x digital extension provides seamless framing flexibility, while the 66.6° wide field of view accommodates large spaces. With AI-powered humanoid tracking, PoE support and FULL NDI&Dante AV-H compatibility, MP-20HDAI-4K Ultra enables high-quality, low-latency IP video transmission over networks-perfect for professional live production, broadcasting, video production and AV applications.

4K Ultra HD @60fps

Milestone Pro MP-20HDAI-4K Ultra delivers stunning 4K UHD resolution (3840×2160) at 60fps, ensuring exceptional clarity, fluid motion, and professional-grade color accuracy. With WDR, HDR (High Dynamic Range) support, low-latency streaming, and future-proof performance, it meets the demands of high-end video applications.



36x Hybrid Zoom System (20x Optical + 16x Digital)

MP-20HDAI-4K Ultra combines a 20x optical zoom delivering lossless close-ups with precise focus control and a 16x digital zoom featuring 4K-optimized processing. This hybrid system maintains optical clarity while extending zoom range, enabling smooth transitions from wide shots to tight framing with consistent image quality.



Multi-Interface Support (USB+HDMI+SDI+LAN) with Full NDI® and PoE - Ultimate Connectivity Flexibility

Milestone Pro MP-20HDAI-4K Ultra delivers professional-grade connectivity through its comprehensive interface options, featuring simultaneous USB 2.0, 3G-SDI, HDMI 2.0, and LAN ports with Power over Ethernet (PoE). The built-in Full NDI® support enables high-quality, low-latency IP video transmission.



Dante AV-H Video Streaming (Available soon)

MP-20HDAI-4K Ultra delivers ultra-low latency (<500µs), broadcast-quality video over IP using Dante AV-H's standards-based SMPTE ST 2110 technology. With full compatibility across the Dante ecosystem—including Dante Controller for real-time routing, Dante Domain Manager for secure enterprise deployment, and Dante Director for centralized management—the camera integrates seamlessly into professional IP media workflows.



AI Auto Framing and Tracking – Intelligent Subject Detection

Milestone Pro MP-20HDAI-4K Ultra employs advanced deep learning algorithms with humanoid detection to deliver professional-grade tracking performance. Its AI processor enables precision framing through automatic composition adjustment based on subject position and quantity, while adaptive tracking ensures smooth pursuit of moving subjects with intelligent speed prediction. Featuring scene awareness for automatic obstruction avoidance, this intelligent tracking solution maintains consistent focus and optimal framing even in dynamic, multi-subject environments.



Universal Compatibility and Software Support

Engineered for seamless plug-and-play integration, MP-20HDAI-4K Ultra delivers native compatibility with all major platforms including OBS, vMix, Zoom, and Teams, while supporting industry protocols like VISCA over IP, ONVIF, and RTSP. Its driver-free USB 2.0 connectivity ensures instant recognition across Windows, macOS, and Linux systems, making it ideal for hybrid workflows in live production, unified communications, and AV control environments.

Model No.	MP-20HDAI-4K Ultra
Sensor	1/1.8"
Effective Pixels	8.42MP
Video Signals	HDMI：4KP60, 4KP59.94, 4KP50, 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94； 3G-SDI：1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25; 1080I60, 1080I50, 1080I59.94; 720P60, 720P59.94; USB2.0：H.264：max to 2160P@30fps; H.265：max to 2160P@30fps; MJPG：max to 2160P@30fps; YUY2：max to 1080P@5fps
Zoom	20x Optical Zoom+16x Digital Zoom
Lens	f=6.25mm ~ 125mm
Aperture	F1.58 ~ F3.95
Horizontal Angle	59.6° ~ 3.5°
Vertical Angle	35.7° ~ 2.0°
Diagonal Angle	66.6° ~ 4.0°
AI Support	Yes (AI Mode: Auto Framing/Presenter Tracking/Zone Tracking)
Video Output	USB 2.0, 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	3D Digital Noise Reduction
Baud Rate	2400/4800/9600/19200/38400/57600/115200
Control Protocol	VISCA, Pelco-D,Pelco-P
USB Protocol	UVC 1.1~1.5
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°

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		Input/Output Interface	
Video Encoding Format	H.264/H.265/MJPEG	HD Output	1xHDMI 1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
Video Stream	Main Stream, Sub Stream		
Main Stream Resolution	3840x2160,1920x1080,1280x720,etc.	LAN	1xRJ45:10M/100M/1000M Ethernet Interface
Sub Stream Resolution	720x480,320x240,etc.	Audio Interface	1-ch: 3.5mm Audio Interface, Line In
Video Bit Rate	32Kbps ~ 20480Kbps		1-ch: 3.5mm Audio Interface, Line Out
Bit Rate Type	Variable Rate, Fixed Rate	USB	1xUSB2.0: Type A
Frame Rate	50Hz:1fps ~ 50fps 60Hz:1fps ~ 60fps	Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Audio Compression	AAC,G711A		1xRS232 Out: 8pin Min DIN, Max Distance:30m, Protocol: VISCA network use only
Audio Bit Rate	96Kbps, 128Kbps		1xRS485: 2pin Phoenix Port, Max Distance:1200m, Protocol: VISCA/Pelco-D/Pelco-P
Network Protocol	NDI |HX2,SRT,TCP/IP, HTTP, RTSP, RTMP(S), Onvif, DHCP, GB/T28181,Multicast	Power Jack	JEITA type (DC IN 12V)

Tel : +912267987577
Email : info@milestonepro.co.in
Address : A-3029/A-3090, 3rd Floor, Bhandup Industrial Estate, L.B.S Marg, Bhandup (W), Mumbai – 400 078, India