

Milestone Pro MP-20HDAI-4K Ultra

4K@60fps AI Auto Tracking PTZ Camera



Product Overview: Professional 4K@60fps PTZ camera with 1/1.8-inch CMOS sensor, 20x optical zoom + 16x digital zoom, AI auto framing/tracking, PoE, USB/HDMI/SDI/LAN interfaces, Full NDI and Dante AV-H capability.

Key Feature	Specification / Capability
Resolution	4K UHD (3840 × 2160) up to 60fps
Sensor	1/1.8-inch CMOS; 8.42MP effective pixels
Zoom	36x hybrid: 20x optical + 16x digital
AI	Auto Framing / Presenter Tracking / Zone Tracking
Interfaces	USB 2.0, HDMI, 3G-SDI, RJ45/LAN, RS232, RS485, audio I/O
Network	NDI, VISCA over IP, RTSP, HTTP, RTP, RTMP(S), ONVIF, DHCP, GB/T28181, Multicast
Power	DC 12V/2A; 18W; PoE supported

Video & Optical Specifications

Parameter	Specification
Lens / Aperture	f=6.25–125mm; F1.58–F3.95
Field of View	Horizontal 59.6°–3.5°; Vertical 35.7°–2.0°; Diagonal 66.6°–4.0°
Minimum Illumination	0.5 Lux @ F1.8, AGC ON
SNR	≥55dB
Shutter	1/30s–1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Noise Reduction	3D Digital Noise Reduction
Rotation	Horizontal 350° (±175°), 0.1°/s–100°/s; Vertical 180° (±90°), 0.1°/s–80°/s

Detailed Technical Specifications

Parameter	Specification
Model No.	MP-20HDAI-4K Ultra
AI Support	Yes — Auto Framing / Presenter Tracking / Zone Tracking
Control Protocol	VISCA, Pelco-D, Pelco-P
USB Protocol	UVC 1.1, UVC 1.5
Baud Rate	2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200
Presets	255; preset accuracy 0.1°
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 (as shown in source)
Product Weight	1.51 kg / 2.59 kg gross

IP / Streaming

Parameter	Specification
Encoding	H.264 / H.265 / MPEG
Streams	Main Stream / Sub Stream
Main Resolution	3840×2160, 1920×1080, 1280×720, etc.
Sub Resolution	720×480, 320×240, etc.
Video Bit Rate	32Kbps–20480Kbps
Frame Rate	50Hz: 1–50fps; 60Hz: 1–60fps
Audio	AAC, G.711 U/A; 96Kbps, 128Kbps

Input / Output Interfaces

Interface	Details
HD Output	1× HDMI 1.3; 1×3G-SDI; BNC 800mVp-p, 75Ω
LAN	1× RJ45; 10M/100M/1000M Ethernet
Audio	1× 3.5mm Line In + 1× 3.5mm Line Out
USB	1× USB 2.0 Type-A
RS232	1× RS232, 8-pin Mini DIN, max 30m
RS485	1× RS485, 2-pin Phoenix, max 1200m
Power Jack	JEITA type, DC IN 12V

Note: The product image above is taken directly from the supplied source artwork at higher native resolution and enlarged without recreating or altering the product design.