



<p>360° Fisheye Surveillance</p> <p>185° horizontal, 180° vertical FoV, multiple VR dewarping modes</p>	<p>AI Analytics</p> <p>People counting, heat map, intrusion, tripwire with human detection</p>	<p>8 MP Ultra HD</p> <p>1/1.7" CMOS, 3280x2480 @25/30 fps, built-in IR 10 m</p>	<p>Industrial Grade</p> <p>IP67 & IK10, -40 °C to +60 °C, metal casing</p>
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FEATURES

- 8 MP 1/1.7" CMOS image sensor, low luminance, high definition image
- Outputs max. 8 MP (3280 × 2480) @25/30 fps
- Built-in IR LED, max. illumination distance 10 m
- Intelligent monitoring: Intrusion, tripwire, heat map, and people counting
- H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Alarm: 2 in, 2 out; Audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- Built-in dual-array microphone and speaker
- 12 VDC / PoE power supply
- IP67 and IK10 protection
- Fisheye VR with multiple interactive modes: original, bowl, cylinder, asteroid

MT-IPFH8200AI

TECHNICAL SPECIFICATIONS

Camera	
Image Sensor	1/1.7" CMOS
Max. Resolution	3280 (H) x 2480 (V)
ROM / RAM	4 GB / 2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s – 1/100,000 s
Min. Illumination	0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	Up to 10 m (32.81 ft) (IR)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	3 (IR LED)

Audio	
Built-in MIC	Yes, built-in dual microphone
Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723

Alarm Event	
Alarm Event	No SD card; SD card full; SD card durability warning; SD card error; network disconnection; IP conflict; illegal access; Intelligent Motion Detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; people counting in area; stay detection; people counting; security exception

Network	
Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Security	Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
User/Host	20
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE: IE11, IE10; Chrome: 48.0.2564.116; Firefox: 48.0.2; Edge: 42.17134.1.0
Management Software	ONVIF (Profile S/G/T), CGI, compatible VMS

Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Protection	IP67; IK10

Certifications	
CE-LVD	EN62368-1
CE-EMC	Electromagnetic Compatibility Directive 2014/30/EU
FCC	47 CFR FCC Part 15, Subpart B
UL/CUL	UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Lens			
Lens Type	Fixed-focal		
Lens Mount	M12		
Focal Length	1.85 mm		
Max. Aperture	F2.0		
Field of View	Horizontal: 185°; Vertical: 180°		
Iris Control	Fixed		
Close Focus Distance	0.4 m (1.31 ft)		
DORI Distance	Lens	W	T
	Detect		
	Observe		
	Recognize		
	Identify		

Video	
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)
Advanced Codec	H.265+ / H.264+
Video Frame Rate	Main stream: 3280 x 2480@(1-25/30 fps) Sub stream: 704 x 576@(1-25/30 fps) Third stream: 1280 x 960@(1-25/30 fps)
Fisheye Mode	1O (3280x2480), 1P (4096x1024), 2P (2432x2432), 1R (1216x1216), 2R (2432x2432), 4R (2432x2432), 1O+3R (2432x2432)
Stream Capability	3 streams
Resolution	3280x2480; 2880x2160; 2048x1536; 1280x960; 704x576/704x480; 352x288/352x240
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 8-16384 kbps; H.265: 3-13891 kbps
Day/Night	Auto (ICR) / Color / B/W
BLC / HLC	Yes / Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Defog	Yes
Privacy Masking	4 areas

Power	
Power Supply	12 VDC / PoE+ (802.3at)
Power Consumption	Basic: 6.5 W (12 VDC); 6.1 W (PoE) Max. (ICR + IR intensity): 13 W (12 VDC); 13.9 W (PoE) Heating: 3 W (12 VDC); 3 W (PoE)

Structure	
Casing	Metal
Product Dimensions	59.8 mm x Φ149.8 mm (2.35" x Φ5.90")
Net Weight	0.79 kg (1.74 lb)
Gross Weight	1.21 kg (2.67 lb)

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TECHNICAL SPECIFICATIONS

Smart Event	
Heat Map	Yes
IVS (Perimeter Protection)	Tripwire, intrusion (the two functions support accurate detection of human)
People Counting	Supports 4 rules to count the number of people entering, exiting, and staying separately. Alarm linkage when threshold exceeded. Reports by year, month, week, day or custom time. Supports area people counting with average strand time detection.
Smart Search	AI-powered quick target search (find specific person or vehicle in seconds)

Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: wet contact, 5 mA 3–5 VDC
Alarm Output	2 channels out: dry contact, 1000 mA 30 VDC / 500 mA 50 VDC