



<p><b>360° Full Coverage</b></p> <p>Fisheye lens with 185° FoV, no blind spots, front &amp; back dewarp</p>	<p><b>AI Analytics</b></p> <p>Perimeter protection, people counting, queue management, heat map</p>	<p><b>6MP High Resolution</b></p> <p>1/2.5" CMOS, 2560x2560, 120 dB WDR, 0.006 Lux</p>	<p><b>Robust &amp; Reliable</b></p> <p>IP67 &amp; IK10, built-in IR 15 m, dual mic, speaker, PoE</p>
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Datasheet rev.A26.02

## FEATURES

- 6MP 1/2.5" CMOS image sensor, low luminance, high definition image
- Outputs max. 6MP (2560 x 2560) @25/30 fps
- 360° fisheye monitoring covers all corners without any blind zone
- Built-in IR LED, max. illumination distance 15 m
- Supports fisheye front-dewarp and back-dewarp
- Supports split screen for 2 and 4 windows
- ROI, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- WDR 120 dB, 3D NR, HLC, BLC, digital watermarking
- AI analytics: Perimeter Protection, People Counting, Heat Map, Queue Management
- Built-in speaker and dual Mic, supports two-way talk
- Alarm: 1 in, 1 out; Audio: 1 in, 1 out; supports max. 1 TB Micro SD card
- 12 VDC / PoE (802.3af) power supply
- IP67 and IK10 protection

# MT-IPFH5600AI

## TECHNICAL SPECIFICATIONS

Camera	
Image Sensor	1/2.5" CMOS
Max. Resolution	2560 (H) × 2560 (V)
ROM / RAM	4 GB / 1 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s – 1/100,000 s
Min. Illumination	0.006 Lux @F2.0 (Color, 30 IRE) 0.0006 Lux @F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	1.68 mm: Up to 15 m (49.21 ft) (IR)
Illuminator On/Off Control	Auto / Manual
Illuminator Number	3 (IR LED)

Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (sub stream only)
Advanced Codec	AI H.265 / AI H.264
Video Frame Rate	Main stream: 2560 × 2560 @1–25/30 fps Sub stream: 1440 × 1440 @1–25/30 fps Third stream: 1440 × 1440 @1–25/30 fps
Streaming Capability	3 streams
Bit Rate Control	VBR; CBR; ABR
Video Bit Rate	H.264: 3–16384 kbps; H.265: 3–16384 kbps
Day/Night	Auto (ICR) / Color / B/W
BLC / HLC	Yes / Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto / Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (ROI)	Yes (4 areas)
Defog	Yes
Image Rotation	0° / 180°
Mirror	Yes
Privacy Masking	4 mosaics + 4 color blocks

Power	
Power Supply	12 VDC, 1 A; PoE (802.3af)
Dual Power Backup	When power adapter and PoE provide power simultaneously, disconnecting one will not cause restart
Power Consumption	Basic: 1.4 W (12 VDC), 2.6 W (PoE) Max: 8.1 W (12 VDC), 10.1 W (PoE)

Environment	
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	≤95% RH, non-condensing
Storage Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Storage Humidity	≤95% RH, non-condensing
Protection	IP67; IK10

Lens			
Lens Type	Fixed-focal		
Lens Mount	M12		
Focal Length	1.68 mm		
Max. Aperture	F2.0		
Field of View	1.68 mm: H: 185°; V: 185°; D: 185°		
Iris Control	Fixed		
Close Focus Distance	1.68 mm: 0.3 m (0.98 ft)		
DORI Distance	Lens	W	T
	Detect		
	Observe		
	Recognize		
	Identify		

Intelligent	
EPTZ	Yes
IVS (Perimeter Protection)	Tripwire, intrusion (support accurate detection of human)
People Counting	Tripwire people counting, generating and exporting report (day/month/year); queue management and people counting in area, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management
Heat Map	Yes
Smart Search	AI-powered quick target search (find specific person or vehicle in seconds)

Audio	
Built-in MIC	Yes, built-in dual Mic
Built-in Speaker	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726

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

Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
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; P2P
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
User/Host	20
Storage	FTP; SFTP; Micro SD card (max. 1 TB); NAS
Browser	IE11; Chrome; Firefox
Management Software	ONVIF (Profile S/G/T), CGI, compatible VMS
Security	Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade; Session security; Security warning

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## TECHNICAL SPECIFICATIONS

Structure	
Casing Material	Metal + plastic
Product Dimensions	Φ122 mm × 53.3 mm (Φ4.80" × 2.10")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.75 kg (1.65 lb)

Port	
RS-485	1 (baud rate: 1200–115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC

Certifications	
CE-LVD	EN62368-1
CE-EMC	Electromagnetic Compatibility Directive 2014/30/EU

Fisheye	
Installation	Ceiling mount; wall mount; ground mount
Decoding Mode	Front-dewarp; Back-dewarp
Display Mode (Front-dewarp)	1O; 1P; 2P; 1R; 2R; 4R; 1O+3R 2P/2R: split screen for 2 windows 4R: split screen for 4 windows *O: Fisheye; P: Panoramic; R: Region
Display Mode (Back-dewarp)	Fisheye view; 360° panoramic + PTZ; dual-channel 180° panoramic; fisheye + 2/3/4PTZ; 360° panoramic + 6PTZ; fisheye + 8PTZ; 180° panoramic; 180° panoramic + 3/4/8PTZ; VR mode (panorama; semi-circle; cylinder; asteroid)