



<p><b>Edge AI Analytics</b></p> <p>Face detection, Intelligent Motion Detection, perimeter protection</p>	<p><b>Starlight Technology</b></p> <p>Color 0.005 lux, clear images in near-total darkness</p>	<p><b>Slow PTZ Control</b></p> <p>4x optical zoom, 100°/s pan, 300 presets</p>	<p><b>Industrial Grade Protection</b></p> <p>IP66, IK10, 6000V lightning-proof</p>
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## FEATURES

- 1/2.8" CMOS sensor with Starlight technology for superior low-light performance
- Powerful 4x optical zoom (2.8-12 mm) with advanced auto-focus
- Compact slow PTZ design with smooth pan/tilt control up to 100°/s
- Face detection with tracking, snapshot and face enhancement
- Intelligent Motion Detection with human/vehicle classification
- Perimeter protection: tripwire, intrusion, loitering, people gathering
- Triple stream with Advanced H.265+ encoding for efficient storage
- PoE (IEEE 802.3af) for single-cable installation
- IP66 and IK10 vandal-proof protection, 6000V lightning-proof
- MicroSD card slot (up to 512 GB) for edge recording
- Cybersecurity: HTTPS/SSL encryption, IEEE 802.1x authentication, digest access control

# MT-IPSD2200AI

## TECHNICAL SPECIFICATIONS

Camera	
Image Sensor	1/2.8" CMOS
Max. Resolution	2688 (H) x 1520 (V)
Electronic Shutter Speed	1/1 s - 1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.6; B/W: 0.0005 lux@F1.6

Intelligent	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human classification
Face Detection	Face detection, face track, snapshot, face enhancement; face cutout; real-time capturing and quality first
Intelligent Motion Detection	Human/vehicle classification (eliminates false alerts from animals, leaves, rain)
Alarm Linkage	Capture; preset; tour; pattern; recordings; alarm digital input; send email
Alarm Event	Intelligent Motion Detection/Tampering detection; network disconnection; IP conflict; memory card state; power exception

Video	
Video Compression	H.264H; H.264B; Advanced H.265+; H.264; H.265; MJPEG (Sub Stream); Advanced H.264+
Streaming Capability	3 streams
Resolution	1080P@25fps; 1.3M (1280 x 960); 720P (1280 x 720); D1 (704 x 576); CIF (352 x 288)
Video Frame Rate	Main: 1080p/1.3M/720p@(1-25/30 fps); Sub 1: D1/VGA/CIF@(1-25/30 fps); Sub 2: 720p@(1-25/30 fps)
Day/Night	Auto (ICR)/Color/B/W
WDR	DWDR
White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Noise Reduction	2D NR; 3D NR
Image Stabilization	Yes
Digital Zoom	16x
S/N Ratio	≥ 55 dB
Privacy Mask	Up to 24 areas, 8 areas in same view

Environment	
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Humidity	≤ 95%
Protection	IP66, IK10
Certifications	CE-LVD: IEC 62368-1; CE-EMC; FCC: 47 CFR Part15 Subpart B

Lens		
Focal Length	2.8 mm - 12 mm	
Max. Aperture	F1.6 - F3.0	
Field of View	H: 90.3° - 29.4°; V: 48.5° - 16.6°; D: 105.7° - 33.6°	
Optical Zoom	4x	
Focus Control	Auto; semi-auto; manual	
Close Focus Distance	1.5 m (4.92 ft)	
DORI Distance	Metric	Distance
	Detect	165.5 m (542.98 ft)
	Observe	65.4 m (214.57 ft)
	Recognize	33.1 m (108.60 ft)
	Identify	16.6 m (54.46 ft)

PTZ	
Pan/Tilt Range	Pan: 0° - 355°; Tilt: 0° - 90°
Manual Control Speed	Pan: 0.1°/s - 100°/s; Tilt: 0.1°/s - 60°/s
Preset Speed	Pan: 100°/s; Tilt: 60°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Idle Motion	Pattern; Preset; Tour

Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; QoS; FTP; UPnP; SNMP; IGMP; PPPoE; RTMP
Interoperability	ONVIF (Profile S/G/T); P2P; CGI; SDK
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB); NAS
Management Software	ONVIF (Profile S/G/T), CGI, compatible VMS
Mobile Client	iOS; Android

Power	
Power Supply	12 VDC, 1 A ± 10%; PoE (802.3af)
Power Consumption	Basic: 2.3 W; Max.: 6.1 W

Structure	
Product Dimensions	89 mm x Φ122 mm (3.50" x Φ4.80")
Net Weight	0.5 kg (1.10 lb)
Gross Weight	0.7 kg (1.54 lb)

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## DIMENSIONS

