



### FEATURES

- MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080) @30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict and illegal access.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; 485; BNC; supports max. 256 G Micro SD card, built in MIC.
- 24 VAC/12 VDC/PoE power supply, easy for installation.
- ePoE.
- Ai-SMD 3.0

# MT-IPST8284M-V2

## TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.8" CMOS	Video	Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
	Image Resolution	1920 (H) × 1080 (V)		Smart Codec	Smart H.265+; Smart H.264+
	ROM	128 GB		AI Coding	AI H.265; AI H.264
	RAM	512 GB		Video Frame Rate	Main stream: 1080p (1–25/30 fps) Sub stream: D1@ (1–25/30 fps) Third stream: 1080p@ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
	S/N Ratio	>56 dB		Stream Capability	3 streams
	Scanning System	progressive		Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s		Bit Rate Control	CBR/VBR
Lens	Min. Illumination	With F1.6 lens: 0.002 lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)		Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
	Lens Mount	C/CS		Day/Night	Auto (ICR)/Color/B/W
Smart Event	Iris Control Type	DC-Iris		BLC	Yes
	IVS	Abandoned object; missing object		HLC	Yes
Professional, intelligent	Heat Map	Yes		WDR	120 dB
	IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		Scene Self-adaptation (SSA)	Yes
	SMD 3.0	Less false alarm, longer detection distance		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 face attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting	Gain Control	Manual; Auto	
	People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.	Noise Reduction	3D NR	
	Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Motion Detection	OFF/ON (4 areas, rectangular)	
			Region of Interest (RoI)	Yes (4 areas)	
		Image Stabilization	Electronic Image Stabilization (EIS)		
		Defog	Yes		
		Image Rotation	0°/90°/180°/270°		
		Mirror	Yes		
		Privacy Masking	8 areas		
		Built-in MIC	Yes		
		Built-in Speaker	PCM; G.711a; G.711Mu; G.726; G.723		
		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; SMD; people counting in area; stay detection; people counting; security exception		

Datasheet rev.A24.09

# MT-IPST8284M-V2

## TECHNICAL SPECIFICATIONS

Network	<b>Network Port</b>	RJ-45 (10/100 Base-T)
	<b>SDK and API</b>	Yes
	<b>Cyber Security</b>	Video encryption; firmware encryption; configuration encryption; 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
	<b>Network Protocol</b>	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
	<b>Interoperability</b>	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
	<b>User/Host</b>	20 (Total bandwidth: 80 M)
	<b>Storage</b>	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
	<b>Browser</b>	IE: IE 8 and later Chrome Firefox
	<b>Management Software</b>	Smart PSS; DSS; DMSS
	<b>Mobile Client</b>	iOS; Android
<b>Certifications</b>	CE-LVD: EN60950-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	

Port	<b>RS-485</b>	1 (baud rate range: 1200 bps–115200 bps)
	<b>Audio Input</b>	1 channel (3.5 mm JACK port)
	<b>Audio Output</b>	1 channel (3.5 mm JACK port)
	<b>Alarm Input</b>	2 channels in: 5 mA 3V–5 VDC
	<b>Alarm Output</b>	1 channel out: 300 mA 12 VDC
Power	<b>Power Supply</b>	12 VDC/24 VAC/PoE (802.3af)/ePoE
	<b>Power Consumption</b>	Basic: 4.1 W (12 VDC); 4.3 W (24 VAC); 4.4 W (PoE) Max. (H.265+three streams+intelligence on): 9.2 W (12 VDC); 8.7 W (24 VAC); 9.2 W (PoE)
Environment	<b>Operating Temperature</b>	–30 °C to +60 °C (–22 °F to +140 °F)
	<b>Operating Humidity</b>	≤95%
	<b>Storage Temperature</b>	–40 °C to +60 °C (–40 °F to +140 °F)
Structure	<b>Casing</b>	Metal
	<b>Product Dimensions</b>	135.4 × 74.4 × 65.5 mm (5.3" × 2.9" × 2.6") (L × W × H)
	<b>Net Weight</b>	528 g (1.16 lb)
	<b>Gross Weight</b>	620 g (1.37 lb)

