

4K



Kit Contains:
1 – ENI-08POE
6 – MPIX-50T3MAI
1 – USB Mouse



Easy auto enroll / plug & play with built-in POE

- Includes everything you need – Just add Ethernet
- 8 Ch Embedded NVR plus 6x 5.0MP Turret Camera
- Plug and Play Setup with Camera Auto Enroll Feature
- Free DDNS, VMS Software, User-Friendly GUI and Web Server



NVR Features:

8 CH with 8 PoE Ports built-in NVR

- Embedded LINUX OS
- Industrial-grade embedded processor
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps.
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- **AI by Camera:** Face detection, fenced area protection, IVS, people counting, heat map, and motion detection
- **(AI Features only supported when using AI Cameras)*



Camera Features:

5MP, 1/2.7" CMOS image sensor, low illuminance

- 5 Megapixel 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART 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 (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- IP67 protection.
- Smart Motion Detection Plus.

AI Functions:

- Fenced Area protection
- AI Motion Detection
- Line Crossing (Person & Vehicle Classification)



FREE Multisite VMS software
Download from www.watchnetinc.com



Technical Specifications ENI-08POE	
System	
Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operation Interface	Web, Local GUI
AI	
AI by Recorder	SMD
AI by Camera	Face detection; face recognition; perimeter protection; SMD; people counting; stereo analysis; heat map
Perimeter Protection	
Perimeter Performance of AI by Camera (Number of Channels)	6 channels
Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Camera (Number of Channels)	All channels (6 targets/s)
Face Recognition	
Face Recognition Performance of AI by Camera (Number of Channels)	All channels (6 targets/s)
SMD Plus	
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD Plus by Camera	All channels (12 targets/s)
Audio and Video	
Access Channel	8 channels
Video Output	1 HDMI, 1 VGA Simultaneous : HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous : HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Port	
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Alarm Input	NA
Alarm Output	NA

Disk Interface	1 SATA port. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at
General	
Power Supply	53 VDC, 1.22 A
Power Consumption	Total output of NVR is <10 W (without HDD) Total output power of PoE is 36 W, the maximum output power of a single port is 25.5 W
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CELVD: EN 62368-1:2014

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Model	MPIX-50T3MAI
Camera	
Image Sensor	1/2.7" 5Megapixel progressive CMOS
Effective Pixels	2960 (H) × 1668 (V)
ROM	128 MB
RAM	256 MB
Min. Illumination	0.007 Lux@F1.5 (Colour, 30 IRE), 0.0007 lux@F1.5 (B/W, 30 IRE)
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
IR Distance	30m (98.43ft-IR); 30m (98.43ft-warm light)
IR On/Off Control	Auto/Manual
IR LEDs Number	2 (IR LEDs)
Lens	
Max Aperture	F1.6
Focal Length	Fixed 2.8mm lens
Angle of View	Horizontal: 111°; vertical: 58°; diagonal: 132°
Close Focus Distance	0.8m/2.62ft
Video	
Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Resolution	2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 2960 × 1668@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 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.
BLC Mode	BLC / HLC / WDR(120dB)
Professional Intelligence	
Fenced Area	Protection Line Crossing, Intrusion (Human & Vehicle classification)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction, and merging to event videos

Network	
Ethernet	RJ-45 (10/100 Base-T)
Max. User Access	20 (Total bandwidth: 64M)
Max. User / Host	20 Users (Total bandwidth: 64 M)
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256GB); WatchNET Cloud; NAS
Electrical	
Power supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 2.2 W (12 VDC); 2.9 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS): 4.6 W (12 VDC); 5.4 W (PoE)
Operating Conditions	-40°C to +60°C (-40°F to +140°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F)
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	480g (1.06lb) /Gross Weight: 620g (1.37lb)

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