WatchNET®
Security Since 2000

Fast Pack
ENM-04KIT4-50T3M

4K

Industry Leading
Plug & Play NVR

4x MPIX-50T3MAI Cameras

Kit Contains:
1 – ENMR3-04POE-1T
4 – MPIX-50T3MAI
1 – USB Mouse

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

- Includes everything you need – Just add Ethernet
- 4 Ch Embedded NVR with 1TB HDD plus 4x 5.0MP Turret Camera
- Plug and Play Setup with Camera Auto Enroll Feature
- Free DDNS, VMS Software, User-Friendly GUI and Web Server

CE FC

NVR Features:

4 Port POE Built-in

4 CH with 4 PoE Ports built-in NVR

- Embedded LINUX OS
- Industrial-grade embedded processor
- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch Max. decoding capability: 4 × 1080p@30 fps. Supports adaptive decoding
- 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:

- 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.
- Supports max. 256 G Micro SD card; built in MIC.
- 12 vDC/PoE power supply, easy for installation.
- 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

www.watchnetinc.com

P2P — EASY REMOTE CONNECTION BY QR CODE

AI WatchNET

AI Motion

ANDROID

ONVIF

ENMR3-04POE Technical Specifications

System	
Main Processor	Industrial-grade embedded processor
OS	Embedded Linux
Operation Interface	Web/operating in local GUI

Fenced Area Protection by Camera	
Performance	4 channels
AI Search	Search for pictures by channel, time and event type

Face Detection by Camera	
Performance	4 channels
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard
AI Search	Search for pictures by channel, time and face attributes

Motion Detection by Camera	
Performance	4 channels
AI Search	Search by target classification (human, vehicle)

Video	
Access Channel	4
Network Bandwidth	Access: 80 Mbps; Storage: 80 Mbps; Forward: 60 Mbps
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1
Decoding Capability	8 × 1080p@30 fps
Video Output	1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA & HDMI
Multi-screen Display	1, 4, 8,9 views
Third-party Camera Access	ONVIF; RTSP

Compression	
Video	Smart H.265/H.265/Smart H.264/H.264/MJPEG
Audio	PCM/G711A/G711U/G726/AAC

Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP;
	RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter;
	DDNS; FTP; Alarm Server; IP Search (Support
	WatchNET IP camera; DVR; NVS; etc.); P2P; auto register
Mobile Phone Access	Android; iOS
Interoperability	ONVIF(profile T/S/G); CGI; SDK
Browser	Chrome; IE9 or later; Firefox

Record Playback	
Multi-channel Playback	Up to 4 channels for playback
Record Mode	Manual record; alarm recording;
	Motion Detection recording; smart recording
Storage	Local HDD; network
Backup	USB storage device
Playback Function	1. Play/pause/stop/slow/quick/backward/by frame
	2. Fullscreen, backup (video clip/file), partial zoom in, and audio on/off

Storage	
Disk Group	Yes

Alarm	
General Alarm	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cyber security exception
Intelligent Alarm	Face detection, fenced area protection (intrusion and line crossing), IVS, people counting, heat map, and motion detection alarms
Alarm Linkage	Recording, snapshot, audio, buzzer, log, preset, and email

External Port	
Audio Input	1 × RCA input
Audio Output	1 × RCA output
HDD	1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
USB	2 (1 × front USB2.0; 1 × back USB2.0)
HDMI	1 (supports up to 4K resolution output)
VGA	1
Network	1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port
POE	8

General Parameter	
Power Supply	DC48 V/53 V, 2A/1.8 A
Power Consumption	< 10 W (HDD not included, idling)
	Total output power of PoE is 72W, the maximum output power of a single port is 25.5W
Net Weight	0.92kg (2.03lb)
Gross Weight	2.07kg (4.56lb)
Product Dimensions	260mm × 232.3mm × 50.3mm (10.24" × 9.14" × 1.98") (W × L × H)
Package Dimensions	117mm × 373mm × 307mm (4.61" × 14.69" × 12.09") (W × L × H)
Operating Conditions	−10°C to +55°C (+10°F to +131°F)
Storage Conditions	0°C to +40°C (32°F to 104°F)
Operating Humidity	10c/o ~ 93c/o
Storage Humidity	30% ~ 85%
Operating Altitude	3000m (9842.52ft)
Installation	Desktop mounted
Certification	CE, FCC

Model	MPIX-50T3MAI
Camera	
Image Sensor	1/2.7" 5 Megapixel progressive CMOS
Max. Resolution	2960 (H) × 1668 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. illumination	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 warm light + 1 IR LED
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°
Lens	
Max Aperture	F1.6
Focal Length	Fixed 2.8mm lens
Optical Zoom	N/A
Mount Type	M12
Angle of View	Horizontal: 98°; vertical: 72°; diagonal: 130°
Close Focus Distance	0.9m/3ft
Aperture Type	Fixed
Video	
Compression	H.265; H.264; H.264H; H.264B; MJPEG
Smart Codec	Yes
Resolution	5M (2960 × 1668); 4M (2688 × 1520); 3M (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) Third Stream: 1280 × 720@1–25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Digital Zoom	N/A
Flip	(Support 90°/270° with 1920× 1080 resolution)
Mirror	Yes
Privacy Masking	Off / On (4 Area, Rectangle)

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
Audio	
Audio Compression	G.711a; G.711Mu; G726; AAC
Network	
Ethernet	RJ-45 (10/100 Base-T)
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;R TMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability	ONVIF(Profile S/Profile G/Profile T); P2P
Streaming Method	Unicast / Multicast
Max. User Access	20 (Total bandwidth: 64M)
Scene	Yes
Self-adaptation	
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	<8.1W
Environmental	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / less than≤95%
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F)
Ingress protection	IP67
Construction	
Casing	Metal
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	480 g (1.05 lb)
Gross Weight	660 g (1.45 lb)