

4K



8x MPIX-50T3MAI Cameras



Kit Contains:

- 1 – ENMR3-16POE-2T
- 8 – MPIX-50T3MAI
- 1 – USB Mouse

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

- Includes everything you need – Just add Ethernet
- 16 Ch Embedded NVR with 2TB HDD plus 8x 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:

16 CH with 16 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: 8 × 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



| ENMR3-16POE 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 | 8 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 | 12 channels |
| AI Search | Search by target classification (human, vehicle) |
| Video | |
| Access Channel | 16 |
| 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 16 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 | 2 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" 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° |
| Image Sensor | 1/2.7" CMOS |
| 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; R; TCP; 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) |

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CANADA:
351 Ferrier Street Unit 5
Markham, Ontario L3R 5Z2
Tel: 416-410-6865
Toll Free: 1-866-843-6865

USA:
171 Cooper Ave.
Suite 110 Tonawanda,
NY 14150 USA
Tel: 1-716-877-7277
Toll Free: 1-866-843-6865

MIDDLE EAST:
PO Box No 126312
Office Suite 703 Oxford Tower
Business Bay Dubai, UAE
Tel: + 971 4 2767117

www.watchnetinc.com
info@watchnetinc.com

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