



FEATURES

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- Powerful 25x optical zoom.
- Max. 25/30 fps@2M.
- IR distance up to 150 m.
- Auto Tracking 3.0.
- Face Detection.
- Motion plus Ai 4.0.
- PoE+.
- IP67, IK10.

MT-IPA488IR25

TECHNICAL SPECIFICATIONS

| | | | | |
|-----------------------------|-----------------------------------|---|---|--|
| Camera | Image Sensor | 1/2.8" CMOS | | |
| | Pixel | 2 MP | | |
| | Max. Resolution | 1920 (H) × 1080 (V) | | |
| | ROM | 4 GB | | |
| | RAM | 1 GB | | |
| | Scanning System | Progressive | | |
| | Electronic Shutter Speed | 1/1 s–1/30,000 s | | |
| | Min. Illumination | Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on) | | |
| | Illumination Distance | 150 m (492.13 ft) (IR) | | |
| | Illuminator On/Off Control | Zoom Prio; Manual; Smart IR | | |
| Illuminator Number | 4 (IR) | | | |
| Lens | Focal Length | 4.8 mm–120 mm | | |
| | Max Aperture | F1.6–F3.5 | | |
| | Field of View | H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2° | | |
| | Optical Zoom | 25x | | |
| | Focus control | Auto; semi-auto; manual | | |
| | Close Focus Distance | 0.1 m–1.5 m (0.33 ft–4.92 ft) | | |
| | Iris control | Auto; manual | | |
| | DORI distance | Detect | 1,614 m (5,292 ft) | |
| | | Observe | 646 m (2,119 ft) | |
| | | Recognize | 323 m (1,060 ft) | |
| Identify | | 161 m (528 ft) | | |
| Intelligence | IVS (Perimeter Protection) | Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification | | |
| | Face Detection | Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots. | | |
| | Auto Tracking | Yes | | |
| | Smart Motion | Yes | | |
| | Quick Pick | human/vehicle targets that users are interested in from Smart Motion events. | | |
| | PTZ | Pan/Tilt Range | Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180° | |
| Manual Control Speed | | Pan: 0.1°/s–300°/s Tilt: 0.1°/s–200°/s | | |
| Preset Speed | | Pan: 400°/s; Tilt: 300°/s | | |
| Preset | | 300 | | |
| Tour | | 8 (up to 32 presets per tour) | | |
| Pattern | | 5 | | |
| Scan | | 5 | | |
| Power-off Memory | | Yes | | |
| Idle Motion | | Preset; Pattern; Tour; Scan | | |

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|--------------------------|---|---|--|
| Video | Video Compression | Smart H.265+; H.265; Smart H.264+; H.264; H.264B; H.264H; MJPEG (Sub Stream 1) | |
| | Smart Capability | 3 streams | |
| | Video Frame Rate | Main stream: 1080p/1.3M/720p (1–25/30 fps) | |
| | | Sub stream 1: D1/VGA/CIF (1–25/30 fps) | |
| | Video Frame Rate | Sub stream 2: 1080p/1.3M/720p (1–25/30 fps) | |
| | | | |
| | Bit Rate Control | CBR/VBR | |
| | Resolution | 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288) | |
| | | Video Bit Rate | |
| | | H264: 64 Kbps–10946 Kbps H265: 25 Kbps–6400 Kbps | |
| | | Day/Night | |
| | BLC | Auto (ICR)/Color/B/W | |
| | WDR | Yes | |
| | White Balance | Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp | |
| | Gain Control | Auto; manual | |
| | Noise Reduction | 2D NR; 3D NR | |
| | Motion Detection | Yes | |
| | Region of Interest (RoI) | Yes | |
| | Image Stabilization | Electronic (EIS) | |
| | Defog | Electronic | |
| Digital Zoom | 16x | | |
| Image Rotation | 180° | | |
| Privacy Masking | Up to 24 areas can be set, with up to 8 areas in the same view. | | |
| S/N Ratio | ≥55 dB | | |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 | | |
| Network | Network Port | RJ-45 (10/100 Base-T) | |
| | Network Protocol | HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP; SSL | |
| | | Interoperability | |
| | | ONVIF(Profile S&G&T); CGI; SDK | |
| | Streaming Method | Unicast/Multicast | |
| | User/Host | 20 (total bandwidth: 64 M) | |
| | Storage | FTP; Micro SD card (512 GB); NAS | |
| | Browser | IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari | |
| | Management Software | Smart PSS; DSS; MT Mobile; Easy4ip; IVSS | |
| | Mobile Client | iOS; Android | |
| Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1 | | |

Datasheet rev.A24.02

MT-IPA488IR25

TECHNICAL SPECIFICATIONS

| | | |
|-------|-------------------|---|
| Port | Alarm I/O | 2/1 |
| | Audio I/O | 1/1 |
| | Two-way Audio | Yes |
| | Alarm Linkage | Capture; preset; tour; pattern; recording; triggering on-off value output; audio; sending email |
| | Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection |
| Power | Power Supply | 24 VDC, 2.5 A \pm 25% PoE +(802.3at) |
| | Power Consumption | Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) |

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|-------------|-----------------------|--|
| Environment | Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| | Operating Humidity | \leq 95% |
| | Protection | IP67; IK10; TVS 6000 V lightning proof; surge protection; voltage transient protection |
| Structure | Dimensions | 332 mm \times Φ 190 mm (13.07" \times Φ 7.48") |
| | Net Weight | 4.7 kg (10.36 lb) |
| | Gross Weight | 8 kg (17.64 lb) |