



## S Series

# MD9584-H (3.6 mm)

5MP Mobile Dome Network  
Camera



## Technical Specifications

### System Information

|       |                                 |
|-------|---------------------------------|
| CPU   | Multimedia SoC (System-on-Chip) |
| Flash | 8 GB                            |
| RAM   | 2 GB                            |

### Camera Specifications

|                         |                                                                                  |
|-------------------------|----------------------------------------------------------------------------------|
| Image Sensor            | 1/2.7" Progressive CMOS                                                          |
| Max. Resolution         | 2560x1920 (5MP)                                                                  |
| Lens Type               | Fixed-focal                                                                      |
| Focal Length            | f = 3.6 mm                                                                       |
| Aperture                | F2.0                                                                             |
| Iris Type               | Fixed Iris                                                                       |
| Field of View           | 83.0° (Horizontal)<br>61.0° (Vertical)<br>111.0° (Diagonal)                      |
| Shutter Time            | 1/5 sec. to 1/32,000 sec.                                                        |
| WDR Technology          | WDR Pro                                                                          |
| Day/Night               | Yes                                                                              |
| Removable IR-cut filter | Yes                                                                              |
| Illuminators            | Built-in IR illuminators, effective up to 50 meters with Smart IR, IR LED*4      |
| Minimum Illumination    | 0.1 lux @ F2.0 (Color)<br>0.01 lux @ F2.0 (B/W)<br>0 lux with IR illumination on |
| Tilt Range              | +30°                                                                             |

|                               |                                                   |
|-------------------------------|---------------------------------------------------|
| Rotation Range                | ±90°                                              |
| Pan/Tilt/Zoom Functionalities | 48x digital zoom (4x on IE plug-in, 12x built in) |
| Storage                       | Seamless Recording to MicroSD/SDHC/SDXC card      |

## Video

|                    |                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression        | H.265, H.264, MJPEG                                                                                                                                                      |
| Maximum Frame Rate | 30 fps @ 2560x1920<br>60 fps @ 1920x1080                                                                                                                                 |
| Maximum Streams    | 3 simultaneous streams (Up to 8 configurable profiles)                                                                                                                   |
| S/N Ratio          | 80 dB                                                                                                                                                                    |
| Dynamic Range      | 120 dB                                                                                                                                                                   |
| Video Streaming    | Adjustable resolution, quality and bitrate, Smart Stream III                                                                                                             |
| Image Settings     | BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings |

## Audio

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| Audio Capability | Two-way Audio (full duplex)                                                      |
| Compression      | G.711, G.726, MPEG-2 AAC-LC                                                      |
| Interface        | External microphone input*<br>External line output*<br>* Requires optional cable |

## Network

|           |                                                                                                                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Users     | Live viewing for up to 10 clients                                                                                                                                                                                                                                                                             |
| Security  | Access list, Account block, Audit log, Session timeout, Configurable password strength protection, Digest authentication, CSRF protection, HTTPS, IEEE 802.1x, Secure boot, Signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event), User access log, User account management |
| Protocols | 802.1X, ARP, Bonjour, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP/SFTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP                                                                                                                                |
| Interface | 10BASE-T/100BASE-TX Ethernet (M12, Female, 4-pin D-coded)                                                                                                                                                                                                                                                     |
| ONVIF     | Profile G, S, T, M supported                                                                                                                                                                                                                                                                                  |

## AI Analytics

|                    |                                                      |
|--------------------|------------------------------------------------------|
| Compute Capability | SoC with built-in hardware deep learning accelerator |
|--------------------|------------------------------------------------------|

## Solution Integration

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| VADP Package           | Trend Micro (3-year free trial), Deep Learning VCA (Smart Motion Detection, Smart VCA*)<br>* Optional |
| Video Motion Detection | Five-window video motion detection<br>people detection<br>time filter                                 |

## Alarm and Event

|               |                                                                                                                                                                                                                                                                     |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event Trigger | Motion detection, Camera tampering detection, Audio detection, Digital input, Manual trigger, Periodical trigger, System boot, Recording notification, SD card life expectancy, Shock detection, Cybersecurity events (brute force attack event, cyberattack event) |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|              |                                                                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event Action | Event notification via email, HTTP, FTP/SFTP, NAS server, SD card, digital output, audio clip, camera link, push notification<br>File upload via email, HTTP, FTP/SFTP, NAS server, SD card |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| General               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectors            | M12 4-pin D-coded, Female connector for 10/100 Mbps Network/PoE connection<br>M12 5-pin A-coded, Male connector for DC 24V heater<br>Digital input *1 (max. 30VDC, 1A)*<br>Digital output *1 (max. 12VDC, 50mA)*<br>* Requires optional cable                                                                                                                                                                                                                                                          |
| LED Indicator         | System power and status indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Power Input           | Camera: IEEE 802.3af PoE Class 0<br>Heater: DC 24V                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power Consumption     | Camera: Max. 10.26W/6.08W (IR on/off)<br>Heater: 24W                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dimensions            | 122 (D) x 180 (W) x 59 (H) mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Weight                | approx. 812 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Certifications        | EMC<br>CE (EN 55035, EN 55032 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A)<br>Safety<br>UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471)<br>Environment<br>IK10+, IP68/6K9K, NEMA 4X<br>Railway<br>EN 50155: 2021 (OT4/ST1, 24VDC), EN 50121-3-2:2016, EN 50121-4:2016, EN 60068-2-1:2007, EN 60068-2-2:2007, EN 61373:2010, EN 45545-2, IEC 60571 Ed 3.0, IEC 62236-3-2 Ed 3.0<br>Vehicles<br>ECE R118<br>BI<br>BSMI |
| Operating Temperature | Starting Temperature:<br>-40°C ~ 70°C (-40°F ~ 158°F)<br>Working Temperature:<br>-40°C ~ 70°C (-40°F ~ 158°F) (IR off)<br>-40°C ~ 65°C (-40°F ~ 149°F) (IR on)                                                                                                                                                                                                                                                                                                                                         |
| Humidity              | 98% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Temperature   | -40°C ~ 70°C (14°F ~ 158°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Warranty              | 60 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| System Requirements |                                                     |
|---------------------|-----------------------------------------------------|
| Operating System    | Microsoft Windows 11/10/7<br>Mac 10.4 (Chrome only) |
| Web Browser         | Chrome 58.0 or above<br>Internet Explorer 10/11     |
| Other Players       | VLC: 1.1.11 or above                                |

| Included Accessories |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Packing Contents     | Quick installation guide, alignment sticker, screw driver, screw pack |