# VIVOTEK

## S series
# MD8564-EH
### Mobile Dome Network Camera



## 1080P Full HD • 30M IR • WDR Pro • IP6K9K • IK10+ • EN50155 TX • -40°C ~ 70°C • De-icing

VIVOTEK's MD8564-EH is a 2-megapixel network camera geared toward transportation applications and focused on rolling stock deployments. Designed specifically for mounting on a vehicle's exterior, the MD8564-EH functions either as a side-view camera (also known as a back-mirror camera or DOO camera) or a pantograph monitoring camera if mounted on the roof of the vehicle. In both options, the camera provides the driver with clear view of critical areas for incident monitoring and operational awareness. Armed with built-in IR illuminators, the MD8564-EH is also able to provide superior image quality for up to 30 meters in total darkness.

With full EN50155 TX compliance the camera can withstand shock, vibrations, humidity, and electromagnetic interference, maintaining reliable video preview and recording during all kinds of vehicle movement. Furthermore, the rugged metal housing provides effective and robust protection from harsh outdoor conditions; IK10+ rating guarantees high resistance to mechanical impact and IP6K9K rating ensures the camera is completely weather-proof. The MD8564-EH also features a wide operating temperature range -40°C ~ 70°C and a front glass heater for de-icing and de-frosting, making the camera suitable even for the harshest climates.

Finally, by deploying VIVOTEK's Smart Stream II technology, the MD8564-EH can reduce both bandwidth and storage consumption by up to 50%* while maintaining high standards of image quality.

* Depending on scene monitored

## Key Features

· 30 fps @ 1920x1080
· Built-in IR Illuminators, Effective up to 30 Meters
· WDR Pro for Unparalleled Visibility in High Contrast Environments
· Weather-proof IP6K9K/IP68-rated, Vandal-proof IK10+ and NEMA 4X-rated Housing
· -40°C ~ 70°C Wide Temperature Range for Extreme Weather Conditions
· Smart Stream II to Optimize Bandwidth Efficiency
· Fast AE for Quick Adaptation to Light Changes
· EN50155 TX Compliance for Professional Mobile Surveillance
· M12 Connector for PoE/Network
· De-icing Function with Internal Heating Glass
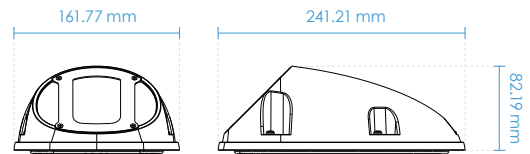


IR Off

IR On

# Technical Specifications

| | |
|---|---|
| Model | MD8564-EH |

## System Information

| | |
|---|---|
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 128MB |
| RAM | 256MB |

## Camera Features

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|---|---|
| Image Sensor | 1/2.7" Progressive CMOS |
| Max. Resolution | 1920x1080 |
| Lens Type | Fixed-focal |
| Focal Length | f = 6 mm (optional: 3.6 mm, 8 mm) |
| Aperture | F2.0 |
| Iris type | Fixed-iris |
| Field of View | 57° (Horizontal)<br>30° (Vertical)<br>65° (Diagonal) |
| Shutter Time | 1/5 sec. to 1/32,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut filter | Yes |
| IR Illuminators | Built-in IR Illuminators up to 30 meters, IR LED*4 |
| Minimum Illumination | 0.18 Lux @ F2.0 (Color)<br>0.01 Lux @ F2.0 (B/W)<br>0 Lux with IR illumination on |
| Tilt Range | 0 ~ 30° |
| Rotation Range | ±90° |
| Pan/Tilt/Zoom Functionalities | ePTZ: 48x digital zoom (4x on IE plug-in,12x built in) |
| On-board Storage | MicroSD/SDHC/SDXC card slot<br>Seamless Recording |

## Video

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|---|---|
| Compression | H264, MJPEG |
| Maximum Frame Rate | 30 fps @ 1920x1080<br>45 fps @ 1280x720 |
| Maximum Streams | 4 simultaneous streams |
| S/N Ratio | 60 dB |
| Dynamic Range | 100 dB |
| Video Streaming | Adjustable resolution, quality and bitrate<br>Smart Stream II |
| Image Settings | Adjustable image size, quality and bit rate; Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; Scheduled profile settings, 3DNR, video rotation, defog |

## Audio

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|---|---|
| Audio Capability | Two-way Audio |
| Compression | G.711, G.726 |
| Interface | External Microphone in<br>External line out |

## Network

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|---|---|
| Users | Live viewing for up to 10 clients |
| Protocols | IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS, NTCIP, CIFS/SMB |
| Interface | 10Base-T/100 BaseTX Ethernet (M12, 4pin D-coded, Female)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard. |
| ONVIF | Supported, specification available at www.onvif.org |

## Intelligent Video

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|---|---|
| Video Motion Detection | Five-window video motion detection |

## Alarm and Event

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|---|---|
| Alarm Triggers | Motion detection,manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection |
| Alarm Events | Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD Card File upload via HTTP, SMTP, FTP, NAS server and MicroSD Card |

## General

| | |
|---|---|
| Connectors | M12 4pin D-coded, Female connector for Network/PoE connection*1<br>M12 5pin A-coded, Male connector for DC 24V heater<br>Audio input*1<br>Audio output*1<br>Digital input*1<br>Digital output*1 |
| LED Indicator | System power and status indicator |
| Power Input | Camera: IEEE 802.3af PoE Class 0<br>Heater: DC 24V |
| Power Consumption | Camera: Max. 10W/5.7W (IR on/off)<br>Heater: 50W |
| Dimensions | 241.21 (D) x 161.77 (W) x 82.19 (H) mm |
| Weight | 1,370 g |
| Casing | IP6K9K, IP68, IK10+, NEMA 4X |
| Safety Certifications | CE, LVD, FCC Class B, VCCI, C-Tick, IP6K9K, IK10+, NEMA 4X, EN50155 TX, EN61373, EN50121-3-2, EN50121-4, UL |
| 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) |
| Humidity | 90% |
| Warranty | 36 months |

## System Requirements

# Technical Specifications

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|---|---|
| Operating System | Microsoft Windows 8/7 |
| Web Browser | Mozilla Firefox 7~43 (streaming only) <br> Internet Explorer 10/11 |
| Other Players | VLC: 1.1.11 or above <br> Quicktime: 7 or above |

### Included Accessories

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|---|---|
| CD | User's manual, quick installation guide, Shepherd, VAST |
| Others | Quick installation guide, warranty card, alignment sticker, screwdriver, accessories bag, software CD |

## Dimensions

161.77 mm    241.21 mm    82.19 mm

# Compatible Accessories

### PoE Kits

AW-IHT-0602
Industrial EN50155 4xFE M12 PoE + 2xFE M12 Switch