



**S series MD8563-EH**

**S series MD8563-DEH**

Mobile Dome Network Camera



2MP • WDR Pro • IP67 • IK10 • EN50155 TX •  
Smart Stream II

VIVOTEK's MD8563-EH/-DEH is a compact 2-megapixel network camera geared toward transportation applications such as buses, trains, and other vehicles. With full EN50155 TX compliance & IP67-rated rugged design, the camera can withstand shocks, vibration, humidity, dust, and temperature fluctuations to maintain stable and reliable video during vehicle movement. Furthermore, the vandal-proof IK10-rated metal housing provides effective and robust protection from vandalism. This combination of high-resolution imaging and protective-housing endows the MD8563-EH/-DEH with the rugged reliability required to maximize passenger safety and optimize mobile surveillance.

Featuring the Wide Dynamic Range Technology, WDR Pro, the MD8563-EH/-DEH provides improved visibility in high-contrast lighting environments. In addition, 3D Noise Reduction Technology enables the camera to capture clear, polished video under low-light conditions and reduce bandwidth from sensor noise. Taken together, these features allow users to enjoy

an increased level of image detail in bright as well as low-light environments.

Employing VIVOTEK's Smart Stream II technology, the MD8563-EH/-DEH can reduce both bandwidth and storage consumption by up to 50%\* while maintaining high standards of image quality. Two power input options are available: PoE (Power-over-Ethernet) and DC power, providing users with installation flexibility. In order to facilitate local storage and data redundancy, the camera is also equipped with a MicroSD/SDHC/SDXC card slot for local recording. And to further add to the flexibility of this compact camera, in corridor scenarios, its video rotation feature can provide wider vertical coverage for more depth and a larger useful field of view.

\* Depending on scene monitored.

## Key Features

- 30 fps @ 1920x1080
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Fast AE for Quick Adaptation to Light Changes
- Smart Stream II to Optimize Bandwidth Efficiency
- Weather-proof IP67, Vandal-proof IK10 Housing
- Built-in 802.3af Compliant PoE (MD8563-EH)
- DC Power Supported (MD8563-DEH)
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- EN50155 TX Compliance for Professional Mobile Surveillance
- -40°C ~ 70°C Wide Temperature Range for Extreme Weather Conditions
- Video Rotation for Corridor Scenario



Transportation

## Technical Specifications

|                               |                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                         | MD8563-EHF2: f = 2.8 mm, PoE<br>MD8563-EHF4: f = 4 mm, PoE<br>MD8563-DEH(2.8mm): f = 2.8 mm, DC<br>MD8563-DEH(3.6mm): f = 3.6 mm, DC                                                               |
| <b>System Information</b>     |                                                                                                                                                                                                    |
| CPU                           | Multimedia SoC (System-on-Chip)                                                                                                                                                                    |
| Flash                         | 128MB                                                                                                                                                                                              |
| RAM                           | 256MB                                                                                                                                                                                              |
| <b>Camera Features</b>        |                                                                                                                                                                                                    |
| Image Sensor                  | 1/2.7" Progressive CMOS                                                                                                                                                                            |
| Max. Resolution               | 1920x1080                                                                                                                                                                                          |
| Lens Type                     | Fixed-focal                                                                                                                                                                                        |
| Focal Length                  | MD8563-EHF2: f = 2.8 mm<br>MD8563-EHF4: f = 4 mm<br>MD8563-DEH(2.8mm): f = 2.8 mm<br>MD8563-DEH(3.6mm): f = 3.6 mm                                                                                 |
| Aperture                      | MD8563-EHF2: F1.8<br>MD8563-EHF4: F1.6<br>MD8563-DEH(2.8mm): F1.8<br>MD8563-DEH(3.6mm): F2.0                                                                                                       |
| Iris type                     | Fixed-iris                                                                                                                                                                                         |
| Field of View                 | MD8563-EHF2:<br>114° (H), 65° (V), 119° (D)<br>MD8563-EHF4:<br>82° (H), 46° (V), 101° (D)<br>MD8563-DEH(2.8mm):<br>114° (H), 65° (V), 119° (D)<br>MD8563-DEH(3.6mm):<br>96° (H), 53° (V), 115° (D) |
| Shutter Time                  | 1/5 sec. to 1/32,000 sec.                                                                                                                                                                          |
| WDR Technology                | WDR Pro                                                                                                                                                                                            |
| Day/Night                     | Yes                                                                                                                                                                                                |
| Minimum Illumination          | MD8563-EHF2:<br>0.21 Lux @ F1.8 (Color)<br>MD8563-EHF4:<br>0.22 Lux @ F1.6 (Color)<br>MD8563-DEH(2.8mm):<br>0.21 Lux @ F1.8 (Color)<br>MD8563-DEH(3.6mm):<br>0.23 Lux @ F2.0 (Color)               |
| Pan Range                     | ± 5°                                                                                                                                                                                               |
| Tilt Range                    | 90°                                                                                                                                                                                                |
| Pan/Tilt/Zoom Functionalities | ePTZ: 48x digital zoom<br>(4x on IE plug-in, 12x built in)                                                                                                                                         |
| On-board Storage              | Slot type: MicroSD/SDHC/SDXC card slot<br>(Max. SD card capacity: 256GB)<br>Seamless Recording                                                                                                     |
| <b>Video</b>                  |                                                                                                                                                                                                    |
| Compression                   | H264, MJPEG                                                                                                                                                                                        |
| Maximum Frame Rate            | 30 fps @ 1920x1080<br>45 fps @ 1280x720                                                                                                                                                            |
| Maximum Streams               | 4 simultaneous streams                                                                                                                                                                             |

|                          |                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S/N Ratio                | MD8563-EHF2: 55 dB<br>MD8563-EHF4: 50 dB<br>MD8563-DEH(2.8mm): 55 dB<br>MD8563-DEH(3.6mm): 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;<br>Time stamp, text overlay, flip & mirror;<br>Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks;<br>Scheduled profile settings, 3DNR, video rotation, defog |
| <b>Audio</b>             |                                                                                                                                                                                                                                                                                                |
| Audio Capability         | Two-way audio                                                                                                                                                                                                                                                                                  |
| Compression              | G.711, G.726                                                                                                                                                                                                                                                                                   |
| Interface                | Built-in microphone<br>External line output                                                                                                                                                                                                                                                    |
| Effective Range          | 5 meters                                                                                                                                                                                                                                                                                       |
| <b>Network</b>           |                                                                                                                                                                                                                                                                                                |
| Users                    | Live viewing for up to 10 clients                                                                                                                                                                                                                                                              |
| Protocols                | IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/ RTP/RTCP, IGMP, CIFS/SMB, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL/TLS                                                                                                                                 |
| Interface                | 10 Base-T/100 Base-TX Ethernet (M12,Female,4pin D-coded)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.                                                                                                                        |
| ONVIF                    | Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>                                                                                                                                                                                                         |
| <b>Intelligent Video</b> |                                                                                                                                                                                                                                                                                                |
| Video Motion Detection   | Five-window video motion detection                                                                                                                                                                                                                                                             |
| <b>Alarm and Event</b>   |                                                                                                                                                                                                                                                                                                |
| 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<br>File upload via HTTP, SMTP, FTP, NAS server and MicroSD Card                                                                                                                                          |
| <b>General</b>           |                                                                                                                                                                                                                                                                                                |
| Connectors               | MD8563-EH:<br>M12 for Network/PoE connection<br>Audio line out*1<br>Digital input*1<br>Digital output*1<br>MD8563-DEH:<br>M12 for Network connection<br>Audio line out*1<br>Digital input*1<br>Digital output*1<br>DC Power input*1                                                            |
| LED Indicator            | System power and status indicator                                                                                                                                                                                                                                                              |
| Power Input              | MD8563-EH: IEEE 802.3af PoE Class 2<br>MD8563-DEH: DC 8~36V                                                                                                                                                                                                                                    |

## Technical Specifications

|                            |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| Power Consumption          | Max. 4.2 W                                                                                                        |
| Dimensions                 | 129 (D) x 107 (W) x 54 (H) mm                                                                                     |
| Weight                     | MD8563-EH: 453 g<br>MD8563-DEH: 455 g                                                                             |
| Casing                     | IP67, IK10                                                                                                        |
| Safety Certifications      | CE, LVD, FCC Class B, VCCI, C-Tick, UL, EN50155 TX, IEC60571, EN61373, EN50121-3-2, EN50121-4, E-Mark(MD8563-DEH) |
| 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                                                                                                         |
| <b>System Requirements</b> |                                                                                                                   |
| 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

|        |                                                                           |
|--------|---------------------------------------------------------------------------|
| Others | Quick installation guide, alignment sticker, screwdriver, accessories bag |
|--------|---------------------------------------------------------------------------|

### Dimensions

