

# MD8563-H/EH

## Mobile Dome Network Camera



2MP · WDR Pro · 3DNR · Smart Stream II · Video Rotation ·  
IP67 · IK10 · EN50155

VIVOTEK's MD8563-H/EH is a compact 2-megapixel network camera geared toward transportation applications such as buses, trains, and other vehicles. With full EN50155 compliance and 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-H/EH with the rugged reliability required to maximize passenger safety and optimize mobile surveillance.

Featuring the Wide Dynamic Range Technology, WDR Pro, the MD8563-H/EH 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-H/EH can reduce both bandwidth and storage consumption by up to 50%\* while maintaining high standards of image quality. PoE (Power-over-Ethernet) also allows the camera to be operated and powered with a single Ethernet cable, giving greater ease of installation. In order to facilitate on-board storage and data portability, 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.

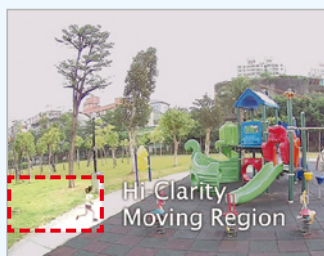
\* Depending on scene monitored.

### Smart Stream II

Save up to 50% of bandwidth and storage by optimizing quality for moving regions or ROI.



Without Smart Stream II



With Smart Stream II

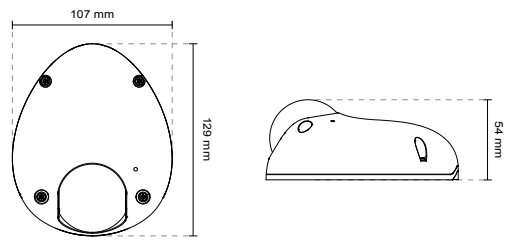
### Key Features

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- Smart Stream II to Optimize Bandwidth Efficiency
- EN50155 Compliance for Professional Mobile Surveillance
- Fast AE for Quick Adaptation to Light Changes
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Vandal-proof IK10-rated and Weather-proof IP67-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Video Rotation for Corridor Scenario



Transportation

## Technical Specifications

|                               |                                                                                                                                                                                                                                       |                                                                                      |                                                                                                                                                                                                                                                        |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                         | MD8563-HF2: f = 2.8 mm, EN50155 T1<br>MD8563-HF4: f = 4 mm, EN50155 T1<br>MD8563-EHF2: f = 2.8 mm, EN 50155 Tx, Extreme Weather<br>MD8563-EHF4: f = 4 mm, EN 50155 Tx, Extreme Weather                                                | Interface                                                                            | 10Base-T/100 BaseTX Ethernet (M12, Female, 4pin D-coded)                                                                                                                                                                                               |
| <b>System Information</b>     |                                                                                                                                                                                                                                       | ONVIF                                                                                | Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>                                                                                                                                                                 |
| CPU                           | Multimedia SoC (System-on-Chip)                                                                                                                                                                                                       | <b>Intelligent Video</b>                                                             |                                                                                                                                                                                                                                                        |
| Flash                         | 128 MB                                                                                                                                                                                                                                | Video Motion Detection                                                               | Five-window video motion detection                                                                                                                                                                                                                     |
| RAM                           | 256 MB                                                                                                                                                                                                                                | <b>Alarm and Event</b>                                                               |                                                                                                                                                                                                                                                        |
| <b>Camera Features</b>        |                                                                                                                                                                                                                                       | Alarm Triggers                                                                       | Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection                                                                                                  |
| Image Sensor                  | 1/2.7" Progressive CMOS                                                                                                                                                                                                               | Alarm Events                                                                         | Event notification using digital output, HTTP, SMTP, FTP, NAS server and SD Card<br>File upload via HTTP, SMTP, FTP, NAS server and SD card                                                                                                            |
| Maximum Resolution            | 1920x1080                                                                                                                                                                                                                             | <b>General</b>                                                                       |                                                                                                                                                                                                                                                        |
| Lens Type                     | Fixed-focal                                                                                                                                                                                                                           | Connectors                                                                           | M12 for Network/PoE connection<br>Audio line out<br>Digital input*1<br>Digital output*1                                                                                                                                                                |
| Focal Length                  | MD8563-HF2/EHF2: f= 2.8 mm<br>MD8563-HF4/EHF4: f= 4 mm                                                                                                                                                                                | LED Indicator                                                                        | System power and status indicator                                                                                                                                                                                                                      |
| Aperture                      | MD8563-HF2/EHF2: F1.8<br>MD8563-HF4/EHF4: F1.6                                                                                                                                                                                        | Power Input                                                                          | IEEE 802.3af PoE Class 2                                                                                                                                                                                                                               |
| Field of View                 | MD8563-HF2/EHF2:<br>114° (Horizontal)<br>65° (Vertical)<br>119° (Diagonal)<br>MD8563-HF4/EHF4:<br>82° (Horizontal)<br>46° (Vertical)<br>101° (Diagonal)                                                                               | Power Consumption                                                                    | Max. 4.2 W                                                                                                                                                                                                                                             |
| Shutter Time                  | 1/5 sec. to 1/32,000 sec.                                                                                                                                                                                                             | Dimensions                                                                           | 129 (D) x 107 (W) x 54 (H) mm                                                                                                                                                                                                                          |
| WDR Technology                | WDR Pro                                                                                                                                                                                                                               | Weight                                                                               | 453g                                                                                                                                                                                                                                                   |
| Minimum Illumination          | MD8563-HF2/EHF2:<br>0.21 Lux @ F1.8 (Color)<br>MD8563-HF4/EHF4:<br>0.22 Lux @ F1.6 (Color)                                                                                                                                            | Casing                                                                               | Weather-proof IP67-rated housing<br>Vandal-proof IK10-rated housing                                                                                                                                                                                    |
| Pan Range                     | ± 5°                                                                                                                                                                                                                                  | Safety Certifications                                                                | CE, LVD, FCC Class B, VCCI, C-Tick, UL, IP67, IK10, EN 50155 T1(MD8563-H), EN 50155 Tx(MD8563-EH), IEC 60571, EN 61373, EN 50121-3-2, EN 50121-4                                                                                                       |
| Tilt Range                    | 90°                                                                                                                                                                                                                                   | Operating Temperature                                                                | MD8563-HF2/HF4:<br>Starting Temperature: -25°C ~ 55°C (-13°F~ 131°F)<br>Working Temperature: -25°C ~ 55°C (-13°F~ 131°F)<br>MD8563-EHF2/EHF4:<br>Starting Temperature: -40°C ~ 70°C (-40°F~ 158°F)<br>Working Temperature: -40°C ~ 70°C (-40°F~ 158°F) |
| Pan/Tilt/Zoom Functionalities | ePTZ:<br>48x digital zoom (4x on IE plug-in,12x built in)                                                                                                                                                                             | Humidity                                                                             | 90%                                                                                                                                                                                                                                                    |
| On-board Storage              | MicroSD/SDHC/SDXC card slot<br>Seamless Recording                                                                                                                                                                                     | Warranty                                                                             | 36 months                                                                                                                                                                                                                                              |
| <b>Video</b>                  |                                                                                                                                                                                                                                       | <b>System Requirements</b>                                                           |                                                                                                                                                                                                                                                        |
| Compression                   | H.264 & MJPEG                                                                                                                                                                                                                         | Operating System                                                                     | Microsoft Windows 8/7/Vista/XP/2000                                                                                                                                                                                                                    |
| Maximum Frame Rate            | 30 fps @ 1920x1080<br>45 fps @ 1280x720                                                                                                                                                                                               | Web Browser                                                                          | Mozilla Firefox 7~10 (streaming only)<br>Internet Explorer 7/8/9/10                                                                                                                                                                                    |
| Maximum Streams               | 4 simultaneous streams                                                                                                                                                                                                                | Other Players                                                                        | VLC: 1.1.11 or above<br>QuickTime: 7 or above                                                                                                                                                                                                          |
| S/N Ratio                     | MD8563-HF2/EHF2: 55dB<br>MD8563-HF4/EHF4: 50dB                                                                                                                                                                                        | <b>Included Accessories</b>                                                          |                                                                                                                                                                                                                                                        |
| Dynamic Range                 | 100dB                                                                                                                                                                                                                                 | CD                                                                                   | User's manual, quick installation guide, Installation Wizard 2, VAST                                                                                                                                                                                   |
| Video Streaming               | Adjustable resolution, quality and bitrate<br>Smart Stream II                                                                                                                                                                         | Others                                                                               | Quick installation guide, screwdriver, alignment sticker, software CD                                                                                                                                                                                  |
| Image Settings                | 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 | <b>Dimensions</b>                                                                    |                                                                                                                                                                                                                                                        |
| <b>Audio</b>                  |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                        |
| Audio Capability              | Two-way audio (full duplex)                                                                                                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                        |
| 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                     | IIPv4, 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, SSL, TLS, NTCIP                                                                          |                                                                                      |                                                                                                                                                                                                                                                        |