



# **S** MD8563-EH

series

## Mobile Dome Network Camera



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

VIVOTEK's MD8563-EH 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 with the rugged reliability required to maximize passenger safety and optimize mobile surveillance.

Featuring the Wide Dynamic Range Technology, WDR Pro, the MD8563-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-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 Tx 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
- -40°C ~ 70°C Wide Temperature Range for Extreme Weather Conditions
- 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-EHF2: f = 2.8 mm MD8563-EHF4: f = 4 mm
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB
<b>Camera Features</b>	
Image Sensor	1/2.7" Progressive CMOS
Maximum Resolution	1920x1080
Lens Type	Fixed-focal
Focal Length	MD8563-EHF2: f = 2.8 mm MD8563-EHF4: f = 4 mm
Aperture	MD8563-EHF2: F1.8 MD8563-EHF4: F1.6
Field of View	MD8563-EHF2: 114° (Horizontal) 65° (Vertical) 119° (Diagonal) MD8563-EHF4: 82° (Horizontal) 46° (Vertical) 101° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Minimum Illumination	MD8563-EHF2: 0.21 Lux @ F1.8 (Color) MD8563-EHF4: 0.22 Lux @ F1.6 (Color)
Pan Range	± 5°
Tilt Range	90°
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording
<b>Video</b>	
Compression	H.264 & MJPEG
Maximum Frame Rate	30 fps @ 1920x1080 45 fps @ 1280x720
Maximum Streams	4 simultaneous streams
S/N Ratio	MD8563-EHF2: 55dB MD8563-EHF4: 50dB
Dynamic Range	100dB
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II
Image Settings	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
<b>Audio</b>	
Audio Capability	Two-way audio (full duplex)
Compression	G.711, G.726
Interface	Built-in microphone 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, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL, TLS, NTCIP, CIFS/SMB
Interface	10Base-T/100 BaseTX Ethernet (M12, Female, 4pin D-coded)
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 File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
<b>General</b>	
Connectors	M12 for Network/PoE connection Audio line out Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 2
Power Consumption	Max. 4.2 W
Dimensions	129 (D) x 107 (W) x 54 (H) mm
Weight	453g
Casing	Weather-proof IP67-rated housing Vandal-proof IK10-rated housing
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL, IP67, IK10, EN50155 Tx, IEC60571, EN61373, EN50121-3-2, EN50121-4
Operating Temperature	Starting Temperature: -40°C ~ 70°C (-40°F ~ 158°F) Working Temperature: -40°C ~ 70°C (-40°F ~ 158°F)
Humidity	90%
Warranty	36 months
<b>System Requirements</b>	
Operating System	Microsoft Windows 7/8
Web Browser	Mozilla Firefox 7~43 (streaming only) Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
<b>Included Accessories</b>	
CD	User's manual, quick installation guide, Shepherd, VAST
Others	Quick installation guide, screwdriver, alignment sticker, software CD

## Dimensions

