VIVOTEK

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. Both cameras also provide two power input options: PoE (Power-over-Ethernet) and DC power, providing users with installation flexibility.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.

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)
- Build-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-EH (2.8mm): f = 2.8 mm, PoE MD8563-DEH(2.8mm): f = 2.8 mm, DC MD8563-EH(3.6mm): f = 3.6 mm, PoE MD8563-DEH(3.6mm): f = 3.6 mm, DC

System Information

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

Camera Features

Image Sensor	1/2.7" Progressive CMOS
Max. Resolution	1920x1080
Lens Type	Fixed-focal
Focal Length	MD8563-EH (2.8mm)/-DEH(2.8mm): f = 2.8 mm MD8563-EH(3.6mm)/-DEH(3.6mm): f = 3.6 mm
Aperture	MD8563-EH (2.8mm)/-DEH(2.8mm): F1.8 MD8563-EH(3.6mm)/-DEH(3.6mm): F2.0
Iris type	Fixed-iris
Field of View	MD8563-EH(2.8mm)/-DEH(2.8mm): 114° (Horizontal) 65° (Vertical) 119° (Diagonal) MD8563-EH(3.6mm)/-DEH(3.6mm): 96° (Horizontal) 53° (Vertical) 115° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Minimum Illumination	MD8563-EH(2.8mm)/-DEH(2.8mm): 0.21 Lux @ F1.8 (Color) MD8563-EH(3.6mm)/-DEH(3.6mm): 0.23 Lux @ F2.0 (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

Video

Compression	H264, MJPEG
Maximum Frame Rate	30 fps @ 1920x1080 45 fps @ 1280x720
Maximum Streams	4 simultaneous streams
S/N Ratio	MD8563-EH (2.8mm)/-DEH(2.8mm): 55 dB MD8563-EH(3.6mm)/-DEH(3.6mm): 60 dB
Dynamic Range	100 dB
Video Streaming	Adjustable resolution, quality and bitrate; 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

Audio Capability	Two-way audio
Compression	G.711, G.726
Interface	Built-in microphone External line output
Effective Range	5 meters

Network

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, NTCIP
Interface	10 Base-T/100 Base-TX Ethernet (M12,Female,4pin D-coded) *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

Video Motion Detection	Five-window video motion detection

Alarm and Event

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	MD8563-EH: M12 for Network/PoE connection Built-in microphone*1 Audio line out*1 Digital input*1 Digital output*1 MD8563-DEH: M12 for Network connection Built-in microphone*1 Audio line out*1 Digital input*1 Digital output*1 DC Power input*1
LED Indicator	System power and status indicator
Power Input	MD8563-EH: IEEE 802.3af PoE Class 2 MD8563-DEH: DC 8~36V
Power Consumption	Max. 4.2 W
Dimensions	129 (D) x 107 (W) x 54 (H) mm
Weight	455 g
Casing	IP67, IK10

Technical Specifications

Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL, EN50155 TX, IEC60571, EN61373, EN50121-3-2, EN50121-4, E-Mark
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

System Requirements

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

Included Accessories

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

Dimensions

107 mm   129 mm   54 mm