



S MD8563-EH

series

Mobile Dome Network Camera



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

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 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 Compliance for Professional Mobile Surveillance
- 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



Hotel

Technical Specifications

Model	MD8563-EH (2.8mm): f = 2.8 mm MD8563-EH (4mm): f = 4 mm	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
System Information		Interface	10Base-T/100 BaseTX Ethernet (M12, Female, 4pin D-coded)
CPU	Multimedia SoC (System-on-Chip)	ONVIF	Supported, specification available at www.onvif.org
Flash	128 MB	Intelligent Video	
RAM	256 MB	Video Motion Detection	Five-window video motion detection
Camera Features		Alarm and Event	
Image Sensor	1/2.7" Progressive CMOS	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
Maximum Resolution	1920x1080	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
Lens Type	Fixed-focal	General	
Focal Length	MD8563-EH (2.8mm): f = 2.8 mm MD8563-EH (4mm): f = 4 mm	Connectors	M12 for Network/PoE connection Audio line out Digital input*1 Digital output*1
Aperture	MD8563-EH (2.8mm): F1.8 MD8563-EH (4mm): F1.6	LED Indicator	System power and status indicator
Field of View	MD8563-EH (2.8mm): 114° (Horizontal) 65° (Vertical) 119° (Diagonal) MD8563-EH (4mm): 82° (Horizontal) 46° (Vertical) 101° (Diagonal)	Power Input	IEEE 802.3af PoE Class 2
Shutter Time	1/5 sec. to 1/32,000 sec.	Power Consumption	Max. 4.2W
WDR Technology	WDR Pro	Dimensions	129 mm (D) x 107 mm (W) x 54 mm (H)
Minimum Illumination	MD8563-EH (2.8mm): 0.21 Lux @ F1.8 (Color) MD8563-EH (4mm): 0.22 Lux @ F1.6 (Color)	Weight	453g
Pan Range	±5 degree	Casing	Weather-proof IP67-rated housing Vandal-proof IK10-rated housing
Tilt Range	90°	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL, IP67, IK10, EN50130-4, EN50121-4, EN50155, IEC60571
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Operating Temperature	Starting Temperature: -40°C ~ 70°C (-40°F~ 158°F) Working Temperature: -40°C ~ 70°C (-40°F~ 158°F)
On-board Storage	MicroSD/SDHC/SDXC card slot Seamless Recording	Humidity	90%
Video		Warranty	36 months
Compression	H.264 & MJPEG	System Requirements	
Maximum Frame Rate	30 fps @ 1920x1080	Operating System	Microsoft Windows 8/7/Vista/XP/2000
Maximum Streams	4 simultaneous streams	Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7/8/9/10
S/N Ratio	MD8563-EH (2.8mm): 55dB MD8563-EH (4mm): 50dB	Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
Dynamic Range	100dB	Included Accessories	
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II	CD	User's manual, quick installation guide, Installation Wizard 2, VAST
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	Others	Quick installation guide, screwdriver, alignment sticker, Software CD
Audio		Dimensions	
Audio Capability	Audio input / Audio output (Full duplex)		
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		