VIVOTEK's MD8565-N is a compact 2-megapixel IR mobile dome network camera geared toward a wide range of transport applications such as buses, trains, and other vehicles. With full EN50155 T1 compliance, IP66-, IK10- and NEMA 4X-rated rugged design, the camera can withstand shocks, vibration, humidity, dust, and even temperature fluctuations to maintain stable and reliable video during vehicle movement. Armed with built-in 940nm invisible IR illumination, the MD8565-N is able to provide superior image quality for up to 10 meters in total darkness, while remaining unobtrusive to the driver. This combination of high-resolution imaging and protective-housing endows the MD8565-N with the rugged reliability required to maximize driver and passenger safety and optimize mobile surveillance.

Employing VIVOTEK’s Smart Stream II technology, the MD8565-N can reduce both bandwidth and storage consumption by up to 50%* while maintaining high standards of image quality. Further, Power over Ethernet (PoE) functionality also allows the camera to be operated and powered with a single Ethernet cable, allowing greater ease of installation. Finally, in order to facilitate on-board storage, data portability, and localized backup, the camera is equipped with a MicroSD/SDHC/SDXC card slot for local recording.

* Depending on scenes

**Key Features**

- 30 fps @ 1920x1080
- Built-in 940nm Invisible IR Illuminators up to 10 M
- EN50155 T1 Compliance for Professional Mobile Surveillance
- Smart Stream II to Optimize Bandwidth Efficiency
- Smart IR Technology to Avoid Overexposure
- Weather-proof IP66-, Vandal-proof IK10- and NEMA 4X-rated Housing
- Fast AE for Quick Adaptation to Light Changes
- M12 Connector for PoE/Network
- Trend Micro IoT Security within Standard Warranty Period
## Technical Specifications

### Model
- MD8565-N(2.8mm): *f* = 2.8 mm
- MD8565-N(3.6mm): *f* = 3.6 mm

### System Information
- **CPU**: Multimedia SoC (System-on-Chip)
- **Flash**: 128 MB
- **RAM**: 256 MB

### Camera Features
- **Image Sensor**: 1/2.9" Progressive CMOS
- **Maximum Resolution**: 1920x1080
- **Lens Type**: Fixed-focal
- **Focal Length**: MD8565-N(2.8mm): *f* = 2.8 mm
  - MD8565-N(3.6mm): *f* = 3.6 mm
- **Aperture**: MD8565-N(2.8mm): F1.8
  - MD8565-N(3.6mm): F2.1
- **Field of View**: MD8565-N(2.8mm):
  - 113° (Horizontal)
  - 63° (Vertical)
  - 136° (Diagonal)
  - MD8565-N(3.6mm):
  - 77° (Horizontal)
  - 41° (Vertical)
  - 82° (Diagonal)
- **Shutter Time**: 1/5 sec. to 1/32,000 sec.
- **WDR Technology**: WDR Enhanced
- **Day/Night**: Removable IR-cut filter for day & night function
- **Minimum Illumination**: MD8565-N(2.8mm):
  - 0.16 Lux @ F1.8 (Color)
  - < 0.01 Lux @ F1.8 (B/W)
  - 0 Lux with IR illumination on
- MD8565-N(3.6mm):
  - 0.18 Lux @ F2.1 (Color)
  - < 0.01 Lux @ F2.1 (B/W)
  - 0 Lux with IR illumination on
- **Tilt Range**: 0° ~ 80°
- **Pan/Tilt/Zoom Functionalities**: ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)
- **IR Illuminators**: Built-in 940nm Invisible IR Illuminators up to 10 meters with Smart IR IR LED*4
- **On-board Storage**: Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording

### Video
- **Compression**: H.264 & MJPEG
- **Maximum Frame Rate**: 30 fps @ 1920x1080
  - 60 fps @ 1280x720
- **Maximum Streams**: 4 simultaneous streams

### S/N Ratio
- MD8565-N(2.8mm): 50 dB
- MD8565-N(3.6mm): 56 dB

### Dynamic Range
- 70 dB

### Video Streaming
- Adjustable resolution, quality and bitrate

### Image Settings
- Smart Stream II
- Adjustable resolution, quality and bitrate
- Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; Scheduled profile settings, defog, 3DNR, video rotation

### Audio
- **Audio Capability**: One-way Audio
- **Compression**: G.711, G.726

### Interface
- **Network**: Built-in microphone
- **Effective Range**: 5 meters
- **Users**: Live viewing for up to 10 clients
- **Protocols**: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, ICMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SMNP, 802.1X, UDP, ICMP, ARP, SSL, TLS, CIFS/ SMB
- **Interface**: 10Base-T/100 BaseTX Ethernet (M12, Female, 4pin D-coded)
- **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, MicroSD card life expectancy
- **Alarm Events**: Event notification using HTTP, SMTP, FTP, NAS server and MicroSD Card

### General
- **Connectors**: M12 for Network/PoE connection*1
  - Built-in microphone*1
  - Digital input*1
  - DC Power Input*1
- **LED Indicator**: System power and status indicator
- **Power Input**: IEEE 802.3af PoE Class 0
  - DC 7.5V~DC48V
- **Power Consumption**: Max. 5.5 W
## Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>Ø 110 x 57 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>400 g</td>
</tr>
<tr>
<td><strong>Casing</strong></td>
<td>IP66, IK10, NEMA 4X</td>
</tr>
<tr>
<td><strong>Safety Certifications</strong></td>
<td>CE, LVD, FCC Class B, VCCI, C-Tick, UL, NEMA 4X, ENS0155 T1, IEC60571, EN61373, ENS0121-3-2, ENS0121-4, E-Mark</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>Starting Temperature: -25°C ~ 55°C (−13°F ~ 131°F)</td>
</tr>
<tr>
<td></td>
<td>Working Temperature: -25°C ~ 55°C (−13°F ~ 131°F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>90%</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>36 months</td>
</tr>
<tr>
<td><strong>System Requirements</strong></td>
<td>Operating System: Microsoft Windows 8/7</td>
</tr>
<tr>
<td></td>
<td>Web Browser: Internet Explorer 10/11</td>
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<tr>
<td></td>
<td>Chrome version 58.0.3029 or above</td>
</tr>
<tr>
<td><strong>Other Players</strong></td>
<td>VLC: 1.1.11 or above</td>
</tr>
<tr>
<td></td>
<td>QuickTime: 7 or above</td>
</tr>
<tr>
<td><strong>Included Accessories</strong></td>
<td>Quick installation guide, screwdriver, alignment sticker</td>
</tr>
</tbody>
</table>

### Dimensions

[Diagram of dimensions: Ø110 mm, Height: 57 mm]