

# V9360-6 AND V9360-12 SERIES PANORAMIC NETWORK DOME CAMERAS



## 360 Degree Vision

The V9360 series provides a high-resolution, hemispherical view of your world that eliminates blind spots and improves long term reliability. Onboard image processing supports up to 12 MP resolution providing crisp distortion-free images. An integral fisheye lens provides an extremely wide angle of view for a panoramic image, capturing a complete 360° view. The camera offers both Server-based dewarping at 12 MP as well as Edge-based dewarping at 4 MP.

## Product Descriptions

| Resolution                            | Environment | Model Number |
|---------------------------------------|-------------|--------------|
| Up to 3072x2048 pixels (6 megapixel)  | Outdoor     | V9360W-6     |
| Up to 3072x2048 pixels (6 megapixel)  | Indoor      | V9360-6      |
| Up to 4000x3000 pixels (12 megapixel) | Outdoor     | V9360W-12    |
| Up to 4000x3000 pixels (12 megapixel) | Indoor      | V9360-12     |

| Mounting Options           |                |             |
|----------------------------|----------------|-------------|
| Pendant mounting kit       | Indoor/Outdoor | V9360-2MK   |
| Flush mounting kit         | Indoor/Outdoor | V9360-FMK-2 |
| Wall mounting kit          | Indoor/Outdoor | V9360-WM-1  |
| Universal (4S) box adaptor | Indoor/Outdoor | V9360-1BA   |

## Product at a Glance

- ▶ 6 megapixel and 12 megapixel versions; progressive scan CMOS sensor
- ▶ Server-based dewarping, 12 MP @20 FPS; Edge-based dewarping up to 4 MP
- ▶ Multiple dewarp display modes
- ▶ Smart Event function
- ▶ Day/night with mechanical IR cut filter
- ▶ Multiple and dynamic Region of Interest (ROI) windows
- ▶ 360° panorama at full HD resolution
- ▶ Smart text overlay and privacy masks
- ▶ Integrated Smart IR LED module
- ▶ Quad stream compression:  
H.264 Baseline/Main/High-profile + M-JPEG
- ▶ Two-way audio; indoor version only has built-in microphone and speaker
- ▶ Wide Dynamic Range (WDR)
- ▶ Micro SD card slot for local storage
- ▶ Powered by PoE; 12 VDC
- ▶ Indoor and outdoor models are rated IK10; outdoor version has weatherproof IP66 rated housing

## Overview

The V9360 provides single and quad-streaming video and supports H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth; M-JPEG compression is also supported.

The hemispheric camera series offers 6 MP and 12 MP indoor and outdoor models in a compact cost-effective design. The indoor versions are the V9360-6 or the V9360-12; the V9360W-6 and V9360W-12 are designed for outdoor security installations. An IR cut filter provides low light sensitivity.

Installation of the V9360 series cameras is made easy and cost effective with Power over Ethernet (IEEE 802.3af), which eliminates the need for power cables; 12 VDC is also accepted.

The camera can be used with Vicon Valerus® and ViconNet® as well as many other popular VMS systems; each VMS may support different camera functions. Using ViconNet, it is possible to digitally zoom in to live or recorded video, providing a close look at any object within the two panoramic views; pixilation is minimal due to the 12 MP resolution.

# V9360-6/12 MEGAPIXEL SERIES

## SPECIFICATIONS

| Model   | V9360-6 Indoor and V9360W-6 Outdoor   | V9360-12 Indoor and V9360W-12 Outdoor                                       |
|---|---|---|
| <b>Camera</b>                                     |   |   |
| <b>Device Type:</b>                               | Indoor and outdoor panoramic cameras  |   |
| <b>Image Sensor:</b>                              | 1/1.8" Sony progressive scan CMOS   | 1/1.7" Sony progressive scan CMOS   |
| <b>Max Resolution:</b>                            | SW Dewarping: 3072x2048 (6 MP);<br>Edge Dewarping: 2048x2048 (4 MP); H.264  | SW Dewarping: 4000x3000 (12 MP);<br>Edge Dewarping: 2048x2048 (4 MP); H.264 |
| <b>Image Settings:</b>                            | WDR (Wide Dynamic Range). Backlight Compensation (BLC). Configurable brightness, contrast, saturation, hue, sharpness. White balance. Exposure. Edge de-warping. DNR (3D). Digital zoom. Privacy masks (5). ICR. IR threshold. Smart Events (Tampering Alarm. Motion detection. Network Failure Detection. Audio Detection. Manual Trigger Event. Periodic Event. ) |   |
| <b>Electronic Shutter Speed:</b>                  | 1 - 1/10000 sec   |   |
| <b>Day/Night Performance:</b>                     | Day/Night with mechanical IR cut filter   |   |
| <b>IR Sensitivity:</b>                            | 850 nm; up to 16 ft (5 m); 4 LEDs   |   |
| <b>Minimum Illumination:</b>                      | Color: 0.04 lux; BW: 0.002 lux  | Color: 0.1 lux; BW: 0.01 lux  |
| <b>Lenses</b>                                     |   |   |
| <b>Lens:</b>                                      | Fisheye 1/2"; 1.6 mm focal length, F1.6; M12 mount  | Fisheye 1/1.7"; 1.65 mm focal length, F2.8; M12 mount                       |
| <b>Angle of View:</b>                             | 185° @ full resolution  | 190° @ full resolution  |
| <b>Network Video Transmission</b>                 |   |   |
| <b>Network:</b>                                   | 1 Gbps Ethernet; RJ-45  |   |
| <b>Image Compression:</b>                         | H.264 (MPEG-4 Part 10/AVC) Baseline/ Main Profile/ High Profile/SVC, M-JPEG   |   |
| <b>Video Streaming:</b>                           | Simultaneous dual streams based on two configurations in single view mode; multiple streams based on single configuration in 6 cropped VGA mode. Refer to Video Streaming Table   |   |
| <b>Max. Frame Rate vs Resolution Performance:</b> | Refer to Video Streaming Table  |   |
| <b>Audio:</b>                                     | Two-way audio (line in/line out). Indoor: Built-in speaker (max. 2W mono) and microphone. G.711/G.726   |   |
| <b>Protocols:</b>                                 | IPv4/IPv6, TCP/IP, UDP, HTTP, RTP, RTSP, DHCP, SMTP, HTTPS, PPPoE, ICMP, ARP, UPnP, SNMP, FTP, IGMP, QoS, ONVIF   |   |
| <b>Users:</b>                                     | Up to 20 clients  |   |
| <b>Web Browser:</b>                               | Internet Explorer® 7.0 and above/Firefox®/Safari®   |   |
| <b>Alarms:</b>                                    | 1 alarm input/1 alarm output (open collector)   |   |
| <b>Security:</b>                                  | Password protection, IP address filtering, HTTPS, IEEE 802.1X network access control  |   |
| <b>Mechanical and Electrical</b>                  |   |   |
| <b>Construction:</b>                              | Aluminum (ADC12)  |   |
| <b>Mounting:</b>                                  | 2 mounting holes provided   |   |
| <b>Controls and Connectors:</b>                   | PoE/Network: RJ-45. Alarm/Audio: 7 pin terminal block (2 of each). Power: 2 pin terminal block. Audio In/Out: phone jacks with cable (outdoor); terminal block (indoor). Micro SDXC card slot. Outdoor model provides pigtail connection; refer to Connector Drawings.  |   |
| <b>Dimensions:</b>                                | H: 2.17 in. (55 mm); D: 4.6 in. (117 mm).   |   |
| <b>Weight:</b>                                    | 0.88 lb (0.40 g)  |   |
| <b>Input Power:</b>                               | PoE (IEEE 802.3af Class 3); 12 VDC  |   |
| <b>Current:</b>                                   | PoE; 0.14 A; 12 VDC: 0.675 A  |   |
| <b>Power Consumption:</b>                         | PoE: 7.1 W; 12 VDC: 8.1 W (675 mA). IR LED On: +1.9 W; SD Card: +0.6 W; ICR Switching: +0.5 W   |   |
| <b>Environmental</b>                              |   |   |
| <b>Operating Conditions:</b>                      | Temp: Outdoor: -22 to 122° F (-30 to 50° C). Indoor: 14 to 122° F (-10 to 50° C).<br>Humidity: 10% - 90%, non-condensing.   |   |
| <b>Approvals:</b>                                 | UL, FCC Class A, CE, RoHS. IP66 (outdoor models only); IK10   |   |
| <b>Warranty:</b>                                  | 3 years   |   |

Data Sheet Number: V289-00-03  
Vicon Data Sheet Number: 8009-7289-00-03

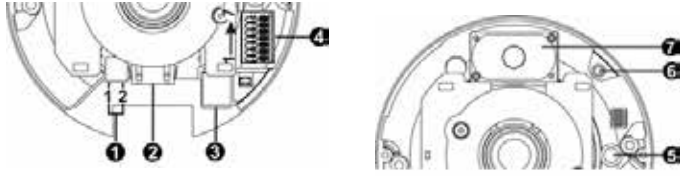
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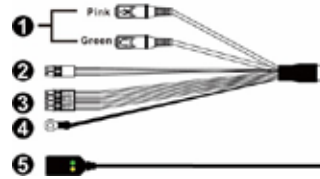
# V9360-6/12 MEGAPIXEL SERIES

## V9360 Indoor Series Connectors



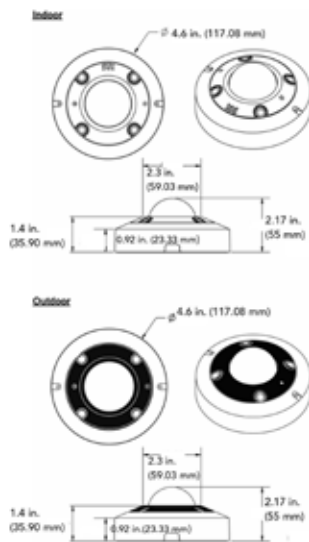
1. Power Connector: 12 VDC - Pole 1: 12 VDC; Pole 2: Reserved
2. RJ-45 Connector: Network and PoE connections
3. MicroSD Card Slot: Insert microSD card for storage
4. Alarm and Audio Connector: Input and output
5. Built-in Microphone: Audio In
6. Default Button: Press to restore factory defaults
7. Speaker: Audio Out

## V9360W Outdoor Series Connectors

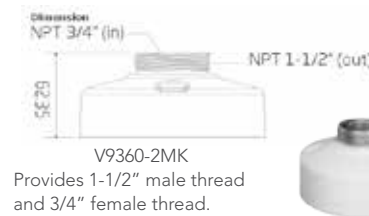


1. Audio Connector: Two way audio transmission, audio in and out
  2. Power Connector: 12 VDC
  3. Alarm Connector: Input and output
  4. Ground Connection: GND
  5. RJ-45 Connector: Network and PoE connections
- Default Button (see indoor Connectors 6): Press to restore factory defaults  
MicroSD Card Slot (see indoor Connectors 3)

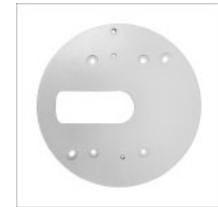
## Dimension Drawing



## Mounting Accessories



V9360-2MK  
Provides 1-1/2" male thread and 3/4" female thread.



V9360-1BA



V9360-WM-1



V9360-FMK-2



V9360-WDG



V9360-WDG-PLATE

## Video Streaming Table

| Dewarping Type              | Video Resolution  | Streaming | Video Streaming (fps)  |
|-----------------------------|---|-----------|--|
| Edge Dewarping              | 6 MP: H.264: 3072x2048/2688x1520/2048x1536/1920x1080/1600x1200/1408x1408/960x960/960x720/960x554  | Dual*     | H.264: 4MP (2048x2048) @20fps + H.264 1080p @20fps   |
|                             | H.264: 1.98MP (1408x1408) @25/30fps+ H.264 1080p @25/30fps  |           |  |
|                             | M-JPEG:1920x1080/1600x1200/1408x1408/960x960/960x720/960x554  | Single    | H.264 6MP (3072x2048) @25/30fps<br>H.264 12MP (4000x3000) @20fps; H.264 4K (3840x2160) @24fps;<br>H.264 6MP (3200x1800) @25/30fps + 720p @25/30fps<br>H.264/M-JPEG 1080p @50/60fps                             |
| Software Dewarping          | 6 MP: H.264: (3072x2048)/Full HD 1080P/SXGA/HD 720P/XGA/SVGA/D1/VGA/CIF/QVGA  | Dual*     | H.264 6MP (3072x2048) @25/30fps + H.264 720p @25/30fps   |
|                             | M-JPEG: Full HD 1080P/SXGA/720P/XGA/SVGA/D1/VGA/CIF/QVGA  |           | H.264 12MP (4000x3000) @15fps + 1080p @15fps;<br>H.264 4K (3840x2160) @20fps + 1080p @20fps;<br>H.264 6MP (3200x1800) @25/30fps + 720p @25/30fps;<br>H.264/MJPEG 1080P @50/60fps + H.264/MJPEG 1080P @25/30fps |
|                             | 12 MP: H.264: 12 MP (4000x3000)/4K (3840x2160)/6MP (3200x1800)/1080P  | Quad**    | 6 MP: H.264 1080p @50/60fps + 1080p @25/30fps<br>H.264/M-JPEG 1080p @50/60fps + 1080p @25/30fps  |
| H.264/M-JPEG: Full HD 1080P | NTSC: H.264 1080p @60fps + H.264 SXGA @60fps + H.264 D1 @60fps + H.264 CIF @60fps<br>PAL: H.264 1080p @50fps + H.264 1080p @50fps + H.264 VGA @50fps + H.264 CIF @50fps |           |  |

\*Note: M-JPEG supports resolutions of 1080P or under. \*\* Note: 1 of the streams can be M-JPEG

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