



# MS9390-HV

Multi-Sensor Dome Network Camera



8MP • 180° Panoramic View • 20M IR • WDR Pro •  
SNV • Smart Stream III • IP66 • IK10

The MS9390-HV is the latest and most efficient panoramic network camera offered in surveillance. Through the use of two wide angle lenses, electronic image stitching\*, and high-resolution sensors, the 8MP 180° MS9390-HV is in a new class all by itself. With its unique dual-sensor design, the MS9390-HV is able to maintain a higher vertical FOV than most traditional multi-sensor panoramic cameras using 4 sensors. This higher vertical FOV enables users to have more video coverage, thereby enabling them to capture more evidence below the point of camera installation. The MS9390-HV goes even further with WDR Pro technology for high contrast environments, 30fps at full resolution, and 180° IR illuminators up to 20 meters, ensuring users with 24/7 comprehensive panoramic video surveillance.

In addition to its panoramic image quality, the MS9390-HV is also simple to install. It has been designed to be directly wall

mounted, including 20° of internal tilt adjustment on the lenses to get the exact angle desired. With an IP66 weather proof and IK10 vandal proof housing, the MS9390-HV can be installed both indoors and outdoors, and handle most of what mother nature has to offer. The only accessory available for MS9390-HV is a sunshield, which is included with the camera.

To top it all off, the MS9390-HV utilizes H.265 compression and Smart Stream III technology. This combination enables users to greatly save on storage and bandwidth consumption usually associated with high resolution surveillance.

\*Electronic image stitching is best at 3~20m distances. Seamless stitching is improbable below 3m.

## Key Features

- 8-Megapixel Resolution
- H.265 Compression Technology
- 180° Panoramic View
- 30 fps @ 4512x1728
- Video Alignment For a Seamless Image
- Smart Stream III to Optimize Bandwidth Efficiency
- Built-in IR Illuminators, Effective up to 20 Meters
- SNV (Supreme Night Visibility)
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Built-in Microphone
- Built-in MicroSD/SDHC/SDXC Card Slot
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- Trend Micro IoT Security within Standard Warranty Period



8MP Panoramic View



Panoramic IR Illumination

## Technical Specifications

Model	MS9390-HV	Interface	Built-in Microphone
<b>System Information</b>		Effective Range	5 meters
CPU	Multimedia SoC (System-on-Chip)	<b>Network</b>	
Flash	128MB	Users	Live viewing for up to 10 clients
RAM	1GB	Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/ RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, ARP, SSL, TLS, CIFS/SMB
<b>Camera Features</b>		Interface	10 Base-T/100 BaseTX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
Image Sensor	1/2.7" Progressive CMOS	ONVIF	Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>
Maximum Resolution	4512x1728	<b>Intelligent Video</b>	
Lens Type	Fixed-focal	Video Motion Detection	Five-window video motion detection
Focal Length	f = 2.8 mm	<b>Alarm and Event</b>	
Aperture	F1.2	Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy
Field of View	180° (Horizontal) 50° (Vertical)	Alarm Events	Event notification using HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
Shutter Time	1/5 sec. to 1/32,000 sec.	<b>General</b>	
WDR Technology	WDR Pro	Connectors	RJ-45 for Network/PoE connection
Day/Night	Removable IR-cut filter for day & night function	LED Indicator	System power and status indicator
Minimum Illumination	0.05 Lux @ F1.2 (Color) 0.01 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	Power Input	IEEE 802.3at PoE Class 4
Tilt Range	20°	Power Consumption	Max. 15.2 W
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Dimensions	165 x 112 x 97 mm (w/o sunshield) 165 x 119 x 100 mm (w/ sunshield)
IR Illuminators	Built-in IR illuminators, effective up to 20 meters with Smart IR	Weight	1,207 g
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording	Casing	IP66, IK10
<b>Video</b>		Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Compression	H.265, H.264, MJPEG	Operating Temperature	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -20°C ~ 50°C (-4°F ~ 122°F)
Maximum Frame Rate	30 fps @ 4512x1728	Humidity	90%
Maximum Streams	4 simultaneous streams	Warranty	36 months
S/N Ratio	46 dB	<b>System Requirements</b>	
Dynamic Range	120 dB	Operating System	Microsoft Windows 8/7
Video Streaming	Adjustable resolution, quality and bitrate, Configurable video cropping for bandwidth saving; Smart Stream III	Web Browser	Internet Explorer 10/11
Image Settings	Time stamp, text overlay, flip & mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
<b>Audio</b>			
Audio Capability	One-way Audio		
Compression	G.711, G.726		

## Technical Specifications

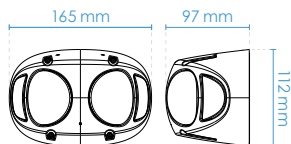
### Included Packaging

#### Others

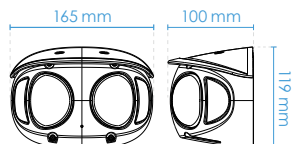
Quick installation guide, warranty card, alignment sticker, desiccant bag, screw driver, screws pack, sunshield

### Dimensions

#### • w/o sunshield



#### • w/ sunshield



## Compatible Accessories

### Mounting Kits



AM-312  
Pole Mount