



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



8MP Panoramic View



Panoramic IR Illumination

Technical Specifications

Model	MS9390-HV	Compression	G.711, G.726
System Information		Interface	Built-in Microphone
CPU	Multimedia SoC (System-on-Chip)	Effective Range	5 meters
Flash	128MB	Network	
RAM	1GB	Users	Live viewing for up to 10 clients
Camera Features		Protocols	802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP
Image Sensor	1/2.7" Progressive CMOS	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.
Maximum Resolution	4512x1728	ONVIF	Supported, specification available at www.onvif.org
Lens Type	Fixed-focal	Solution Integration	
Focal Length	f = 2.8 mm	Smart Motion Detection	Five-window video motion detection, people detection, time filter
Aperture	F1.2	Smart VCA	Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection *Please access https://license.vivotek.com/ to get the free trial license.
Field of View	180° (Horizontal) 50° (Vertical)	VADP Package	Deep Learning VCA (Smart Motion Detection, Smart VCA), Trend Micro IoT Security
Shutter Time	1/5 sec. to 1/32,000 sec.	Alarm and Event	
WDR Technology	WDR Pro	Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, shock detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)
Day/Night	Yes	Alarm Events	Event notification via digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card
Removable IR-cut Filter	Yes	General	
Minimum Illumination	0.05 Lux @ F1.2 (Color) 0.01 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	Connectors	RJ-45 for Network/PoE connection
Tilt Range	20°	LED Indicator	System power and status indicator
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Power Input	IEEE 802.3at PoE Class 4
IR Illuminators	Built-in IR illuminators, effective up to 20 meters with Smart IR	Power Consumption	Max. 15.2 W
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording	Dimensions	165 x 112 x 97 mm (w/o sunshield) 165 x 119 x 100 mm (w/ sunshield)
Video		Weight	1,207 g
Compression	H.265, H.264, MJPEG	Casing	IP66, IK10
Maximum Frame Rate	30 fps @ 4512x1728	Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Maximum Streams	4 simultaneous streams	Operating Temperature	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -20°C ~ 50°C (-4°F ~ 122°F)
S/N Ratio	46 dB		
Dynamic Range	120 dB		
Video Streaming	Adjustable resolution, quality and bitrate, configurable video cropping for bandwidth saving; Smart Stream III		
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, 3DNR, defog		
Audio			
Audio Capability	One-way Audio		

Technical Specifications

Humidity	90%	Others	Quick installation guide, warranty card, alignment sticker, desiccant bag, screw driver, screws pack, sunshield
Warranty	36 months		
System Requirements		Dimensions	
Operating System	Microsoft Windows 8/7 Mac 10.12 (Chrome only)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>• w/o sunshield</p> </div> <div style="text-align: center;"> <p>• w/ sunshield</p> </div> </div>	
Web Browser	Chrome 58.0 or above Internet Explorer 10/11		
Other Players	VLC: 1.1.11 or above		
Included Packaging			

Compatible Accessories

Mounting Kits



AM-21N
Wall Mount Bracket



AM-312
Pole Mount



AM-412
Corner Mount Adapter