



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
- \cdot Smart Stream III to Optimize Bandwidth Efficiency
- \cdot 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

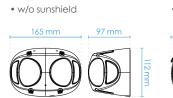
Model	MS9390-HV	Compression	G.711, G.726
System Information		Interface	Built-in Microphone
CPU	Multimedia SoC (System-on-Chip)	Effective Range	5 meters
Flash	128MB	Network	
RAM	1GB	Users	Live viewing for up to 10 clients
Camera Features			802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4,
Image Sensor	1/2.7" Progressive CMOS	Protocols	IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP
Maximum Resolution	4512x1728		10 Base-T/100 BaseTX Ethernet (RJ-45)
Lens Type	Fixed-focal	Interface	*It is highly recommended to use standard CATSe & CAT6 cables which are compliant with the 3P/ETL standard.
Focal Length	f = 2.8 mm	ONVIF	Supported, specification available at
Aperture	F1.2	ONVIF	www.onvif.org
Field of View	180° (Horizontal) 50° (Vertical)	Solution Integration	
Shutter Time	1/5 sec. to 1/32,000 sec.	Smart Motion Detection	Five-window video motion detection, people detection, time filter
WDR Technology	WDR Pro		Intrusion detection, loitering detection, line crossing detection, unattended object
Day/Night	Yes	Smart VCA	detection, missing object detection, face detection
Removable IR-cut Filter	Yes		*Please access https://license.vivotek.com/ to get the free trial license.
Minimum Illumination	0.05 Lux @ F1.2 (Color) 0.01 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	VADP Package	Deep Learning VCA (Smart Motion Detection, Smart VCA), Trend Micro lot Security
Tilt Range	20°	Alarm and Event	
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in,12x built in)		Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection,
IR Illuminators	Built-in IR illuminators, effective up to 20 meters with Smart IR	Alarm Triggers	audio detection, shock detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording		Event notification via digital output, email,
Video		Alarm Events	HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card
Compression	H.265, H.264, MJPEG	General	
Maximum Frame Rate	30 fps @ 4512x1728	Connectors	RJ-45 for Network/PoE connection
Maximum Streams	4 simultaneous streams	LED Indicator	System power and status indicator
S/N Ratio	46 dB	Power Input	IEEE 802.3at PoE Class 4
Dynamic Range	120 dB	Power Consumption	Max. 15.2 W
Video Streaming	Adjustable resolution, quality and bitrate, configurable video cropping for bandwidth saving; Smart Stream III	Dimensions	165 x 112 x 97 mm (w/o sunshield) 165 x 119 x 100 mm (w/ sunshield)
	Time stamp, text overlay, flip & mirror,	Weight	1,207 g
Image Settings	scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain,	Casing	IP66, IK10
	backlight compensation, privacy masks, 3DNR, defog	Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Audio		Operating Temperature	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F)
Audio Capability	One-way Audio	, 5 : 4 : 2 : 2 : 2 : 3	Working Temperature: -20°C ~ 50°C (-4°F ~ 122°F)

Technical Specifications

90%
36 months
Microsoft Windows 8/7 Mac 10.12 (Chrome only)
Chrome 58.0 or above Internet Explorer 10/11
VLC: 1.1.11 or above

driver, screws pack, sunshield

Dimensions



• w/ sunshield

Compatible Accessories

AM-21N Wall Mount Bracket Mounting Kits AM-312 Pole Mount AM-412 Corner Mount Adapter

