



Network Camera



20MP 30fps • 30M IR • WDR Pro • SNV • Smart Stream III • IP66 • Panoramic View

VIVOTEK's newly designed MS9321-EHV multi-sensor panoramic network camera offers the highest resolution and maximum field of view, reducing the total number of cameras required and helping save on the installation costs.

Featuring 4 x 5MP CMOS Sensors, the multiple sensor network camera can monitor full 180° horizontal views and deliver the highest-quality comprehensive coverage, making it an ideal outdoor surveillance solution with excellent image details. Improving on the previous version, the MS9321-EHV now includes H.265 compression for reduced bandwidth and storage over H.264 compression. WDR Pro (120dB) has been added for improved image quality in high contrast environments. Smart IR II

is included for manual or auto IR adjustments based on different night viewing scenarios. And last but not least, the MS9321-EHV is capable of 30fps at all resolutions including the max 20MP.

Like its predecessor MS8391-EV, the MS9321-EHV has the Video Alignment feature that allows you to adjust the positioning and image quality of each sensor, enabling users to view a seamless picture, with no repetition. MS9321-EHV's new housing design is IP66 and IK10-rated to enable use in rain and dust as well as to protect against vandalism or tampering. The new housing design also allows for more tilt and pan during installation, allowing for more versatility.

Key Features

- · H.265 Compression Technology
- · 20MP Panoramic 180° View
- · 30 fps @ 7680x2560 (WDR Pro on)
- · Smart Stream III to Optimize Bandwidth Efficiency
- WDR Pro (120 dB) for Unparalleled Visibility in Extremely Bright and Dark Environments
- · SNV (Supreme Night Visibility) for Low Light Conditions
- Built-in IR Illuminators with Smart IR II, Effective up to 30
 Meters
- · Trend Micro IoT Security
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing



Day Mode



Night Mode



Technical Specifications

Model	MS9321-EHV	time stamp	Adjustable image size, quality and bit rate, time stamp, text overlay, flip and mirror,
System Information		Image Settings	configurable brightness, contrast, saturation, sharpness, white balance,
СРИ	Multimedia SoC (System-on-Chip)		exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, HLC, defog, 3DNR, DIS
Flash	8GB	Audio	
RAM	4GB	Audio Capability	Two-way Audio (full duplex)
Camera Features		Compression	G.726, G.711
Image Sensor	1/2.7" Progressive CMOS	·	External microphone input
Max. Resolution	7680x2560 (20MP)	Interface	External line output
Lens Type	Fixed-focal	Network	
Focal Length	f = 3.8 mm	Users	Live viewing for up to 10 clients
Aperture	F1.8	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
Iris type	Fixed-iris		
Field of View	180° (Horizontal) 65° (Vertical) 180° (Diagonal)	Interface	10 Base-T/100 BaseTX/1000 Base-T Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant
Shutter Time	1/5 sec. to 1/32,000 sec.		with the 3P/ETL standard.
WDR Technology	WDR Pro	ONVIF	Supported, specification available at www.onvif.org
Day/Night	Yes	Intelligent Video	
Removable IR-cut filter	Yes	Video Motion Detection	Five-window video motion detection
IR Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR II	VADP Package	Genetec Package, Trend Micro IoT Security
Minimum Illumination	0.095 Lux @ F1.8 (Color) 0.005 Lux @ F1.8 (B/W) 0 Lux with IR Illuminators on	Alarm and Event	Mation detection recover triagger digital
Pan Range	±90°	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, SD card life expectancy, cybersecurity event (block brute force attack, block cyber attack, quarantine event)
Tilt Range	90°		
Pan/Tilt/Zoom Functionalities On-board Storage	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) Slot type: MicroSD/SDHC/SDXC card slot (Max. SD card capacity: 256GB)	Alarm Events	Event notification via digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card
Video	Seamless Recording	General	
Video	110/5 110/4 11/250		RJ-45 cable connector for
Compression	H.265, H.264, MJPEG	Connectors	10/100/1000Mbps Network/PoE connection Audio input Audio output AC 24V power input Digital input*1 Digital output*1
Maximum Frame Rate Maximum Streams	30 fps @ 7680x2560 (WDR Pro on) 4 simultaneous streams		
S/N Ratio	61.5 dB		
Dynamic Range	120 dB	LED Indicator	System power and status indicator
, .	Adjustable resolution, quality and bitrate,	Power Input	AC 24V IEEE 802.3at PoE Class 4
Video Streaming	Smart Stream III	Power Consumption	AC 24V: Max. 24 W PoE: Max. 24.65 W
		Dimensions	308 x 167 x 130 mm (w/o junction box) 369 x 167 x 132 mm (w/ junction box)

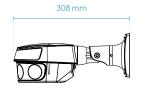
Technical Specifications

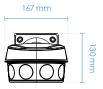
Weight	2,400 g		
Casing	IP66, IK10		
Safety Certifications	CE, FCC Class A, UL, LVD, VCCI, C-Tick		
Operating Temperature	Start Temperature: $-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (-22°F \sim 140°F) Working temperature: $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$ (-40°F \sim 140°F)		
Humidity	90%		
Warranty	36 months		
System Requirements			
Operating System	Microsoft Windows 8/7 Mac 10.12 (Chrome only)		
Web Browser	Chrome 58.0 or above Internet Explorer 10/11		
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above		
Included Accessories			

Quick installation guide, alignment sticker, screw pack, warranty card, junction box Others

Dimensions

w/o junction box





w/junction box





Compatible Accessories



Cabinet



Compatible Accessories

PoE Kits - 30W

Outdoor



AW-GET-083A-120

Outdoor 4xGE PoE + 2xGE UTP + 2xGE SFP Unmanaged PoE Switch

Indoor







AW-FET-060C-065 Unmanaged 4xFE PoE + 2xFE UTP Switch



AW-FGT-100C-120 Unmanaged 8xFE PoE + 1xGE UTP + 1xGE SFP Switch



AW-GEV-184B-250 Web Smart Managed 16xGE PoE + 2xGE SFP Switch



AW-GEV-267A-370 VivoCam L2 Managed 24xGE PoE + 2xGE Combo Switch

