



S MA9322-EHTV

Multi-Sensor Adjustable Dome Network Camera



20MP Total Resolution • Multi-Directional • Adjustable Views • 30M IR • WDR Pro • SNV • Remote Focus • IP66 • IK10 • -40°C ~ 60°C

The new MA9322-EHTV is the most versatile product offering to date from VIVOTEK. The MA9322-EHTV expands on the already versatile MA9321-EHTV by adding IR illumination up to 30 meters, providing high resolution images through four independent sensors, and remote focus lenses. By having each sensor independent of each other, the MA9322-EHTV can view four different regions simultaneously and therefore reduce the total number of cameras needed for surveillance, helping to lower total installation time and costs.

Featuring four independent 5MP CMOS Sensors with IR illuminators, the MA9322-EHTV network camera can provide the most flexibility in surveillance monitoring. Each sensor utilizes a 3.7 to 7.7 mm remote focus lens and 3-axis design along a circular track to enable full 360° coverage. This enables the MA9322-EHTV to capture every angle for comprehensive video coverage from a single IP address, making this camera ideally suited for surveillance in areas such as hallway intersections, building corners, parking garages/lots, and shopping malls. Now with

IR illuminators in addition to SNV technology, areas of low light visibility are no longer an issue either.

The MA9322-EHTV is equipped with a removable IR-cut filter and WDR Pro technology, enabling the camera to maintain optimal image quality and unparalleled visibility in high contrast lighting environments. Furthermore, the MA9322-EHTV employs VIVOTEK's Smart Stream III technology and H.265 compression codec, reducing bandwidth more than 90%* while still maintaining excellent image quality compared to traditional H.264 without smart streaming.

In addition to its versatile coverage, the MA9322-EHTV is armed with a robust IP66 and IK10-rated housing to enable the multidirectional camera to withstand rain and dust as well as to protect against vandalism or tampering.

* Depending on scene.

Key Features

- H.265 Compression Technology
- 4x 5MP Independent Sensors, Adjustable Views
- 30 fps @ (2688x1920) per Sensor
- 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
- Trend Micro IoT Security
- Built-in IR Illuminators, Effective up to 30 Meters Radius
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- Built-in Microphone



Multiple sensors, Adjustable views

Technical Specifications

Model	MA9322-EHTV		
System Information			
CPU	Multimedia SoC (System-on-Chip)		
Flash	8 GB		
RAM	4 GB		
Camera Features			
Image Sensor	1/2.7" Progressive CMOS		
Max. Resolution	2688x1920 (5MP) x 4		
Lens Type	Motorized, Vari-focal, Remote Focus		
Focal Length	f = 3.7 ~ 7.7 mm		
Aperture	F1.9 ~ F2.9		
Iris type	Fixed-iris		
Field of View	84.4° ~ 40.0° (Horizontal) 59.8° ~ 28.6° (Vertical) 104.5° ~ 49.2° (Diagonal)		
Shutter Time	1/5 sec. to 1/32,000 sec.		
WDR Technology	WDR Pro		
Day/Night	Yes		
Removable IR-cut filter	Yes		
IR Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR		
Minimum Illumination	0.095 Lux @ F1.9 (Color) 0.005 Lux @ F1.9 (B/W) 0 Lux with IR Illuminators on		
Tilt Range	0° ~ 105° each lens		
Rotation Range	±90° each lens		
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)		
Storage	Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS)		
Built-in Installation Aids	Remote Focus, Remote Zoom		
Video			
Compression	H.265, H.264, MJPEG		
Maximum Frame Rate	30 fps @ (2688x1920) x 4		
Maximum Streams	3 simultaneous streams		
S/N Ratio	67 dB		
Dynamic Range	120 dB		
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream III		
		Image Settings	General settings: video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings; Illuminators: illuminators, anti-overexposure; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings
		Audio	
		Audio Capability	Two-Way Audio (full duplex)
		Compression	G.711, G.726
		Interface	Built-in microphone External microphone input External line output
		Effective Range	5 meters
		Network	
		Users	Live viewing for up to 10 clients
		Security	Access list, digest authentication, HTTPS, IEEE 802.1x, Password protection, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management
		Protocols	802.1X, ARP, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, UPnP
		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 with the 3P/ETL standard.
		ONVIF	Profile G, S supported, specification available at www.onvif.org
		Solution Integration	
		Video Motion Detection	Five-window video motion detection, human detection, time filter
		VADP Package	Genetec, Trend Micro IoT Security (3-year free trial)
		Alarm and Event	
		Event Trigger	Audio detection*, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input*, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, system boot * Requires AO-006 cable
		Event Action	Event notification via audio clip*, digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card * Requires AO-006 cable

Technical Specifications

General	
Connectors	RJ-45 cable connector for 10/100/1000 Mbps PoE network connection Audio input* Audio output* AC 24V power input* Digital input* Digital output* * Requires AO-006 cable
LED Indicator	System power and status indicator
Power Input	IEEE 802.3at PoE Class 4, AC 24V
Power Consumption	Max: 25.5/13.84 W (IR on/off)
Dimensions	Ø 267x114 mm (Main body) Ø 275x118 mm (w/ bracket)
Weight	2.7 kg
Certifications	EMC: CE (EN55032 Class A, EN55024), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A); Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Environment: IK10 (IEC 62262), IP66 (IEC 60529); IA: BIS (IS 13252)
Operating Temperature	Start Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working temperature: -40°C ~ 65°C (-40°F ~ 149°F) (IR off) -40°C ~ 60°C (-40°F ~ 140°F) (IR on)
Humidity	90%
Warranty	36 months

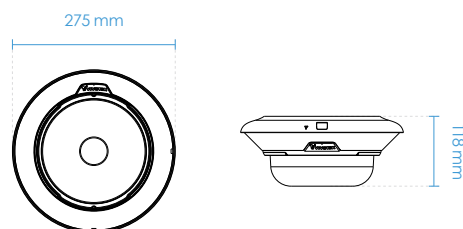
System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above

Included Accessories

Packing Contents	Quick installation guide, alignment sticker, desiccant bag, screw driver, screws pack
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Dimensions



Compatible Accessories

Mounting Kits

Mounting Kits			Others