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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 ouput* * 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

Dimensions

275 mm

118 mm
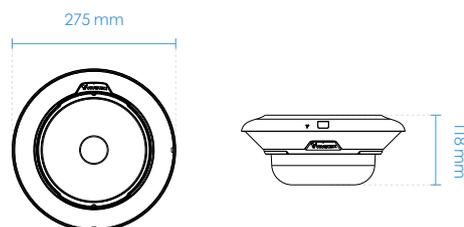
Compatible Accessories

Mounting Kits

AM-529 Mounting Adapter (1.5" PS11 Male Connector)	AM-116/117 Pendant Pipe (1.5" PS11) (20 cm/40cm)	AM-114 Pendant Head (Outdoor)	AM-21C Wall Mount Bracket

Mounting Kits			Others
AM-314 Pole Mount Adapter	AM-414 Corner Mount Adapter	AM-10F Recessed Kit	AO-006 IO Cable