

VA5 IR 360° Camera

Rugged 5MP IR 360° camera with built-in dewarping, video analytics and microphone, built specifically for the transit industry



ONVIF | SGT

March Networks presents the **VA5 IR 360° Camera**, a cutting-edge solution that provides a complete 360 degree field of view, ensuring complete situational awareness. Equipped with built-in infrared lighting, this camera enables clear vision even in low-light conditions, while its image correction capabilities allow for accurate and distortion-free visuals. In addition, the VA5 IR 360° Camera boasts a built-in microphone that allows for the recording of ambient noises and sounds. Specifically designed for mobile transit applications, it is encased in a robust IK10/IP66 housing, offering protection from vandals and environmental elements. Experience a rapid and effortless setup with the camera's simplified installation process, requiring just a single cable.

The camera features a set of powerful video analytics, including tripwire, intrusion detection, loitering detection, object removal, and abandoned object. Video analytics enable organizations to enhance security in both public and private spaces by detecting perimeter or area breaches, unattended objects, and unusual activity more rapidly and consistently. The software detects camera tampering in real time and also promotes more proactive system maintenance by alerting staff to camera obstructions or changes in camera positioning which otherwise go unnoticed.

Key Benefits

▼ Built-In Video Analytics

- **Abandoned Object** - an alarm is triggered if an object remains in one spot for too long.
- **Loitering Detection** - an alarm is triggered when people remain in an area for too long.
- **Tripwire** - an alarm is triggered when a person or object crosses the defined line.
- **Intrusion Detection** - an alarm is triggered when people or vehicles enter a specific area.
- **Object Removal** - an alarm is triggered if an object is removed from an area.

▼ Built-in microphone. No need to purchase and install separate device for applications that require audio.

▼ Dewarped viewing modes. Easily cover four different scenes in a single stream by using the quad view or cover an entire area with a fisheye 360° view.

▼ Smart IR Illumination. The built-in LEDs provide uniform illumination in total darkness, which means users will see high-quality, low-noise video from over 30 feet away. The camera automatically adjusts the intensity of the LEDs to compensate for the distance of an object, so the object is not overexposed when it gets too close to the camera.

***Achieve 360 degree surveillance
with a rugged camera equipped with IR capability***

VA5 IR 360° Camera

CAMERA

Image Sensor	1/2.7" Progressive Scan CMOS
Effective Pixels	5MP; 2720 (H) x 1976(V)
Lens	1.1mm fisheye lens, F2.4
Field of View	Horizontal: 197° (Wide); 197° (Tele)
High Dynamic Range (HDR)	120dB
Day/Night	Automatic IR Cut Filter
Minimum Illumination	Color: 0.248 lux; B/W: 0.052 lux; 0 lux with IR On
Shutter Speed	1 to 1/10000s
White Balance	Manual/Automatic
IR Wavelength	850nm
IR Illumination Distance	32 feet (10m)

VIDEO

Video Compression	H.265, H.264, M-JPEG
Resolution (Back-end Dewarping)	5.2MP (2688x1944), 5MP (2592x1944), 4MP (2688x1512), 2MP (1920x1080), 1.3MP (1280x1024), 720p (1280x720), 800x600, 720x480
Resolution (Edge Dewarping)	4MP (1920x1920), 2MP 1080p (1920x 1080), 1600x1200, 1408x1408, 960x960, 960x720, 960x544, 480x360
Frame Rate	Up to 30fps @ 4MP
Streaming	Up to 4 individually configurable streams in H.265/H.264/M-JPEG Configurable resolution/frame rate/bandwidth; LBR/VBR/CBR bitrate modes available
Edge Dewarped Modes	360° Overview (fisheye), Virtual PTZ scene, 180° panoramic, quad view
Image Settings	Iris control, backlight compensation, white balance, noise reduction, wide dynamic range, privacy mask, brightness, exposure, sharpness, contrast, saturation, hue, IR configuration, day/night threshold

AUDIO

Audio Streaming	One-way
Audio Compression	G.711 PCM
Audio Input/Output	Embedded microphone

NETWORK

Security	Password protection, HTTPS encryption, IEEE 802.1X
Supported Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, QoS, ONVIF-S/G/T, SNMP v1/v2/v3

SYSTEM INTEGRATION

Video Analytics	Video motion detection, active video tampering, abandoned object, loitering detection, tripwire, intrusion detection, object removal
Alarm Trigger	Video analytics, external input
Alarm Events	Video recording to local storage, external output activation

ELECTRICAL

Power	PoE (802.3af, Class 0)
Power Consumption	PoE: max 13W

PHYSICAL

Construction	Metal and Polycarbonate
Dimensions	Ø 5.1 x 2.3 H in (Ø 130mm x 58mm)
Weight	1.3 lbs (0.58 Kg)

ENVIRONMENTAL

Operating Temperature	-22° to 131°F (-30° to 55°C)
Humidity	10-90% RH, non-condensing
Ingress Protection Rating	IP66
Impact Rating	IK10

USER CONNECTIONS

Ethernet	RJ45 10/100 Base-T
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GENERAL

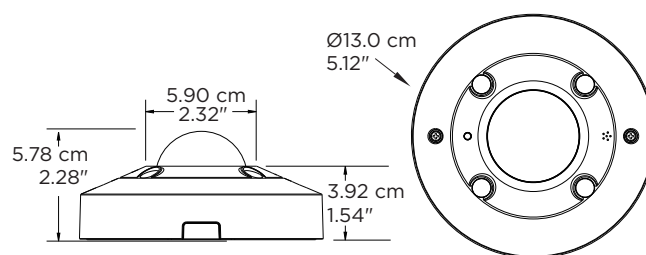
Local Storage	MicroSD/MicroSDHC/MicroSDXC memory card up to 1TB (sold separately)
LED Indicator	Power, Activity
Included Accessories	Quick Start Guide; mounting template; mounting hardware

REGULATORY

Certification Model	C4701A
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1
Emissions	EN 55032, BS EN55032, EN61000-3-2, BS EN61000-3-2, EN61000-3-3, BS EN61000-3-3, EN50121-3-2, FCC Part 15 Subpart B, ICES-003, CISPR 32, AS/ NZS CISPR 32
Immunity	EN55035, BS EN55035, EN50130-4, BS EN50130-4, SAE J1113
Environmental	SAE J1455, EN50155, RoHS3
Compliance Marking	CE, cULus, RCM, WEEE, UKCA, NOM

ORDERING INFORMATION

CAMERA	
41105-101	VA5 IR 360° Camera (RJ45)
41105-102	VA5 IR 360° Camera (M12)



3-year warranty:

- Option for Advance Replacement or Repair & Return.
- No need to issue a PO prior to receiving the replacement.
- March Networks incurs all shipping costs — both ways — for Advance Replacements.