VA4 Outdoor IR Dome

Vandal resistant 4MP IR dome with built-in video analytics and HDR technology
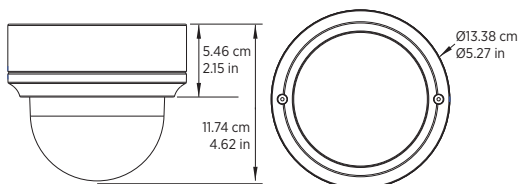

The "Tripwire" analytic triggers an alarm when a person crosses the defined line.

For customers who need to monitor activity in a variety of lighting conditions, from bright light to complete darkness, the **VA4 Outdoor IR Dome** from March Networks® with built-in Smart IR Illumination, high dynamic range (HDR), and P-Iris lens provides superior image quality, regardless of lighting. The camera is rated for outdoor use with a housing designed to be weather-proof (IP66) and vandal-resistant (IK10/IK11).

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.

▼ **High Dynamic Range (HDR).** The camera blends the best parts of several separate exposures together to combine the most focused, well-lit, and colorful parts of the scene.

▼ **Extra vandal protection (IK11 only).** For high crime areas and areas where the camera could be attacked, you have the option to order an IK11 bubble for your existing camera which improves protection to withstand a 50 joule hit (standard model IK10 is 20 joule). Additionally, the camera is available to order with the IK11 bubble already installed (see ordering information).

▼ **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 40 m (131 ft) 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.

▼ **P-Iris.** The enhanced video clarity and depth of field offered by the P-Iris allow objects close to and far away from the camera to remain in focus, simultaneously.

5.46 cm / 2.15 in
11.74 cm / 4.62 in
Ø13.38 cm / Ø5.27 in

Get HD video outdoors in any lighting or weather condition, and see images in the dark from over 40 m (131 ft) away.

VA4 Outdoor IR Dome

CAMERA

Image Sensor	1/2.7" Progressive Scan CMOS
Effective Pixels	4MP; 2688 (H) x 1512(V)
Lens	2.7-12mm, F1.6, P-Iris, varifocal
Field of View	Horizontal: 102° (Wide); 31° (Tele)
High Dynamic Range (HDR)	120dB
Day/Night	Automatic IR Cut Filter
Minimum Illumination	Color: 0.08 lux; B/W: 0.008 lux; 0 lux with IR On
Shutter Speed	1 to 1/10000s
Camera Angle Adjustment	Pan 340°, Tilt 80°, Rotation -100° to 100°
White Balance	Manual/Automatic
IR Wavelength	850nm
IR Illumination Distance	40 m (131 ft)

VIDEO

Video Compression	H.265, H.264, M-JPEG
Resolution	4MP (2688x1512), 3MP (2304x1296), 2MP 1080p (1920x 1080), 1MP 720p (1280x720), SXGA, XGA, SVGA, D1, VGA, CIF
Frame Rate	Up to 15fps @ 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
HDR Mode (Shutter WDR On)	2MP 1080p (1920x1080) @ 15fps + 2MP 1080p (1920x1080) @ 15fps
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
Video Rotation	90° 9:16, 180° 16:9

AUDIO

Audio Streaming	Full Duplex
Audio Compression	G.711 PCM
Audio Input/Output	Line in/line out

NETWORK

Security	Password protection, HTTPS encryption (configuration only), 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	12 Vdc 1.24 A; 24 Vac 50/60 Hz 1.09 A; 48 Vdc 0.27 A (PoE 802.3af, Class 0)
Power Consumption	12 Vdc max. 14.88 W; 24 Vac max. 15.25 W; PoE max. 12.95 W

PHYSICAL

Construction	Metal housing, polycarbonate bubble
Dimension (D x H)	Ø 134 x 117 mm (Ø 5.2 x 4.6 in)
Weight	760 g (1.67 lb)

ENVIRONMENTAL

Operating Temperature	-55 °C to +55 °C (-67 °F to +131 °F)
Humidity	10-90% RH, non-condensing

Ingress Protection Rating	IP66
Impact Rating	IK10/IK11

USER CONNECTIONS

Alarm	1 x Alarm In, 1 x Relay Out
Audio	1 x Audio In, 1 x Audio Out
Ethernet	RJ45 10/100 Base-T
Analog Video	1 x Output
Power	AC Terminal Block/RJ-45 PoE

GENERAL

Local Storage	MicroSD/MicroSDHC/MicroSDXC memory card up to 1TB (not included)
LED Indicator	Power, Activity
Included Accessories	Quick Start Guide; mounting template; mounting hardware

REGULATORY

Regulatory Model	C2104A
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1
EMC	EN 55032, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B, ICES-003, CISPR 32, AS/ NZS CISPR 32, EN50130-4
Environmental	RoHS, WEEE
Compliance Marking	CE, cULus, RCM, WEEE, UKCA, NOM

MOUNTING OPTIONS

Surface Mount (out-of-box)	Flush Mount Adaptor	Wall Mount (for indoor mounting only)	1.5" NPT Sunshield
1.5" NPT Pendant Mount	1.5" NPT Wall Mount	1.5" NPT Wall Mount with Back Box	1.5" NPT Pendant Mount with Back Box
Corner Adaptor	Pole Adaptor		

ORDERING INFORMATION

CAMERA	
39362-101	VA4 Outdoor IR Dome
41449-101	VA2 Outdoor IR Dome (IK11 model)
ACCESSORIES	
33306	Flush Mount Adaptor
33088	Wall Mount for indoor applications
33285	1.5" NPT Sunshield
41516	1.5" NPT Pendant Mount
41517	1.5" NPT Wall Mount
41515	Pole Adaptor
27639	Corner Adaptor
36990	1.5" NPT Pendant Mount with Back Box
36989	1.5" NPT Wall Mount with Back Box
41407	Optional IK11 replacement cover for 39362-101 model-field replacement

5-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.

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