VA4 IR DuraBullet

Rugged 4MP IR bullet camera with built-in video analytics and HDR technology
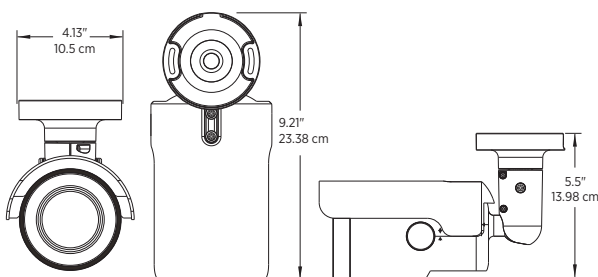

The "Loitering Detection" analytic triggers an alarm when a person or object lingers in a particular area for too long.

For customers who need to monitor activity in a variety of lighting conditions, from bright light to complete darkness, the **VA4 IR DuraBullet** integrates active IR illumination and High Dynamic Range (HDR) to deliver high-quality images in a variety of lighting conditions, from bright light to complete darkness. The camera's rugged housing is IK10 rated to resist tampering and vandalism.

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.

▼ **Save money on storage and bandwidth.** The camera's low bit rate (LBR) setting reduces storage and bandwidth usage by 50% or more in most applications; streams can drop below 1Mbps at 4MP (15 fps).

▼ **"Region of interest" encoding.** Identify parts of the scene as low or high importance, then adjust the compression levels within those zones, to save on storage.

▼ **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.

▼ **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 meters (131 ft) away. Additionally, 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.

The rugged all-metal housing and reinforced view window provide exceptional durability in harsh environments.

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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: 99° (Wide); 31° (Tele)
High Dynamic Range (HDR)	120 dB
Day/Night	Automatic IR cut filter
Minimum Illumination	Color: 0.08; B/W: 0.008 lux; IR On: 0.0 lux
Shutter Speed	1 to 1/10000s
Pan/Tilt/Zoom	4.4X Optical Zoom, Digital PTZ via Command
White Balance	Manual/Automatic
IR Wavelength	850nm
IR Illumination Distance	40m (131 ft)

VIDEO

Video Compression	H.265, H.264, MJPEG
Resolution	4MP (2688x1512), 3MP (2304x1296), 2MP 1080p (1920x1080), 1MP 720p (1280x720), SXGA, XGA, SVGA, D1, VGA, CIF
Frame Rate	Up to 30 fps @2MP / Up to 15 fps @ 4MP
Streaming	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth; LBR/VBR/CBR bitrate modes available
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	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 1.27 A; 24 Vac 50/60 Hz 1.05 A; 48 Vdc 0.27 A (PoE 802.3af, Class 0)
Power Consumption	12 Vdc max. 15.4 W; 24 Vac max. 13.19 W; PoE max. 12.90 W

PHYSICAL

Construction	Metal housing
Dimensions (L x W x H)	234 x 105 x 140 mm (9.2 x 4.13 x 5.5 in)
Weight	1.28 kg (2.82 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

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

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; BNC video adapter

REGULATORY

Regulatory Model	C4003A
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)	Wall Mount Back Box	Pole Adaptor Back Box

ORDERING INFORMATION

CAMERA	
39366-101	VA4 IR DuraBullet
ACCESSORIES	
33227	Wall Mount Back Box
33226	Pole Adaptor Back Box

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.

MARCH networks
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