Technical Specifications

MOBOTIX 5MP Vandal Bullet Analytics Camera

A performant 5 MP resolution camera that includes Video Analytic features that suit the daily security and surveillance needs. The camera performs fast and reliable auto focus. The new "crystal picture engine" provides low noise high quality images even under low-light conditions without compromises.

- Motorized Lens 2.7 to 12 mm with One-Push Auto Focus
- Remote Zoom & Focus
- Wide Dynamic Range (WDR) max. 130dB
- Integrated Video Analytics
- Triple Power Support (PoE / 12 Vdc / 24 Vac)
- Integrated IR LEDs up to 40 m Distance
- IP66 and IK10
- Extended Temperature Range up to -55°C to +60 °C incl. heater

BeyondHumanVision

HEVCAdvance™

MOBOTIX

Product Information

Product Name	5MP Vandal Bullet Analytics Camera
Order Code	Mx-VB1A-5-IR-VA

Image Quality

Image Sensor	5 MP, 1 / 2.7" Progressive CMOS
Effective Pixels	H x V = 2720 x 1976 (5MP)
Pixel Size	2.0 um
Frame Rate (maximum)	WDR on:
	H.265 / H.264: 5 MP @ 30 fps / 720p @ 30 fps
	MJPEG: 1080p @ 30 fps
	WDR off:
	H.265 / H.264: 5 MP @ 60 fps / 720p @ 60 fps
	MJPEG: 1080p @ 60 fps

Lens

Minimum Illumination	Color: 0.08 lux
	B/W: 0.008 lux
Lens Characteristics	Motorized Lens: Zoom, Focus, P-IRIS
	Focal length: F1.6, 2.7 to 12 mm
	Horizontal (Field of View): 102.1° (Wide), 31.5° (Tele)
	Vertical (Field of View): 70.3° (Wide), 22.7° (Tele)

Camera

Day / Night	Automatic mechanical switchable IR-Cut Filter
Shutter Time	Manual mode:
	WDR: 30 fps, 1/17550 s
	Linear: 60 fps, 1/37440 s
	Automatic Mode:
	1 to 1/10000 s
WDR	Up to 130 dB Multi Exposure WDR & HDR Engine support
Zoom	Optical: 4.4x, Digital 10x
Image settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Corridor Mode	90°, 180°, 270° Rotation

Video Codec

Compression / Encoding	H.265 / H.264 / MJPEG
Streaming	Up to 4 individually configurable streams in H.264/H.265/MJPEG
	Configurable resolution/frame rate/bandwidth LBR/ VBR/CBR in H.265/H.264

Audio Codec

Compression / Encoding	G.711/G.726/AAC/LPCM
Streaming	2-Way, bidirectional
Audio Input	Line In: Max 6.2 Vpp Signal In, Input Impedance: 33KΩ
Audio Output	Line Out: 1Vrms Signal Out, Output Resistance: 200 Ω

Network

Interface	10/100 Mbps Ethernet
Security	User Authentication / HTTPS / IP Filter / IEEE 802.1x
Supported Protocols	iARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS , SMBv2
ONVIF conformance	Conforms to profiles S, G, T, Q

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System Integration

Base Video Analytics	Motion Detection / Tampering / Audio noise Detection
Enhanced Video Analytics	Embedded enhanced Video Analytic package (abandoned object, intrusion, sabotage, wrong direction, loitering, object count, object removal). 2 analytic functions can be activated simultaneously.
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External output Activation Video and audio recording to edge storage File Upload : FTP, network share and email Notification : HTTP, FTP, email

General

Casing	Metal Back Housing, PC Front
Device Color	PC Front cover: RAL9003 Sunshield: - Logo color: Pantone 286C and Pantone Gray 6 Cu - Body color: RAL9003 Back metal body: Printing color RAL9003
Power	PoE IEEE802.3af, class 0, max. 13 W 12 V DC, max. 13 W 24 V AC, max. 14 W (25 VA) Zero-Down-Time Power Source Switching
Connectors	RJ45, Alarm in x2, Alarm out x1, 12 VDC Terminal Block, 24 VAC Terminal Block , Audio in 3.5 mm Jack , Audio out 3.5 mm Jack, CVBS Connector COAX (75 Ohm) (CVBS Output available with max. 2 activated streams)
IR Illumination	Up to 40 m distance depending on scenery reflection
Video Storage	Support for microSD/microSDHC/microSDXC card, Support for recording to NAS, MOBOTIX MOVE NVR

Environmental Protection Class	IP66 / IK10
Operating Conditions	Temperature range: –55 to 60 °C/–41 to 140 °F with Heater ON Cold start: max. –30 °C/–22 °F Relative humitidy: 10 to 90 % non-condensing
StorageConditions	–20 to 70 °C/–4 to 158 °F
Approvals	EMC: CE / FCC, Safety: LVD, Environmental: IP66, IK10
Dimensions	ø 105x233.8 mm
Weight	1210 g

Dimensions

NOTE! You can download the drilling template from the section Drilling Template or on the MOBOTIX web-site: **www.mobotix.com > Support > Download Center > Marketing & Documentation > Drilling Templates**.

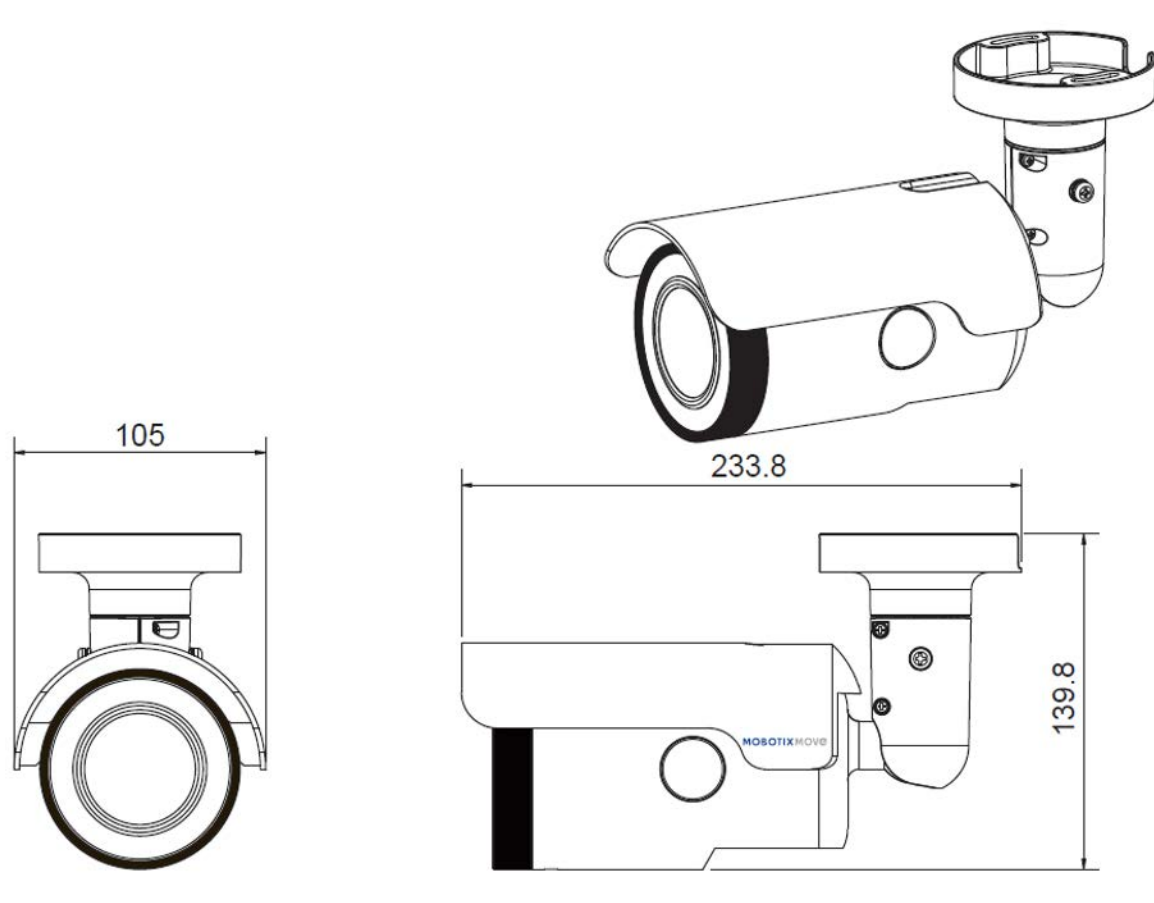**CAUTION!** Always print or copy at 100% of the original size!

Fig. 1: 5MP Vandal Bullet Analytics Camera: All measurements in mm