



# Technical Specifications

## MOBOTIX MOVE 5MP Varifocal IR Vandal Turret

The MOBOTIX MOVE 5MP Varifocal IR Vandal Turret is designed to bring clarity and vigilance to your surveillance needs. This state-of-the-art turret camera combines advanced features with a compact and sleek design, making it an ideal choice for various indoor and outdoor applications. The Vari-Focal Turret Camera allows you to easily remote adjust the field of view and focus by a motorized lens, ensuring optimal positioning and alignment to meet the specific requirements of your surveillance scenario. The camera's weather-resistant design IP67 and IK10 ensures reliable operation even in challenging environmental conditions. Its compact turret form factor, combined with easy installation options, makes it a hassle-free choice.

- High Low-Light sensitivity
- 1/2.8" Progressive CMOS
- Motorized Vari-Focal Lens 2.7mm to 13.5mm
- WDR up to 120 dB
- Integrated adaptive IR Illumination working distance up to 30m.
- Triple Streaming H.264/H.265/MJPEG
- 2D & 3D Motion Compensated Noise Reduction (MCTF)
- ONVIF Profile S/G/T/M support
- Micro SD Card supports up to 512 GB.
- Integrated Microphone
- NDAA compliant
- Dual power Supply IEEE802.3af Class 3 / DC 12 V
- Temp. Range -30°C to 60°C/-22°F to 140 °F with heater
- Protection Rate IP67 / IK10
- Intelligent Encoding, Smart Low Bitrate Control is same as Smart compression offering optimally useable bandwidth and storage.



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MOBOTIX MOVE

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## Product Information

Product Name	5MP Varifocal IR Vandal Turret
Order Code	Mx-VT1A-503-IR

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## Hardware Design

Processor	Novatec NT98560 (ARM Cortex-A9, single core, 960 MHz)
Memory	RAM: 512 MBytes FLASH: 256 MBytes
Image Sensor	5MP, 1/2.8" Progressive CMOS
Effective (Used) Pixels	2688x1944 (5MP)

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## Lens

Minimum Illumination	Color: 0.18 lux B/W: 0.09 lux, (0 lux, IR on) F1.6, AGC=on, 30 IRE, 1/1 s
Lens Characteristics	Vari-Focal Lens Focal Length: 2.7mm to 13.5mm Aperture: F1.4-2.8 H x V FOV: 103°-31°(H) 76°-23°(V)

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## Camera

Day/Night	Automatically switchable IR-cut filter
Shutter Speed	Auto / Manual / WDR: 1 to 1/10000 s
Shutter Priority Mode	Up to 1/7.5 s
Frame Rate (maximum)	<b>WDR on/off:</b> H.265/H.264: 5MP@30 fps MJPEG: 1080p@30 fps
Auto Gain	Min. gain: 0 dB, max. gain: 36 dB, step size: 3
WDR	Up to 120 dB

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Zoom	Motorized optical: 2.67x
Image Settings	Color, Brightness, Sharpness, Contrast, White Balance, Gain Control, 2DNR, 3DNR, BLC, EV, Gamma corection, Saturation, Hue
Image Rotation	90°, 180°, 270°
Camera Body Adjust	Pan/Tilt/Rotation

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## Video Codec

Compression/Encoding	H.265/H.264/MJPEG
Streaming	Up to 3 individually configurable streams in H.264/H.265/MJPEG. Configurable resolution, frame rate, bandwidth CVBR/CBR/istream in H.265/H.264

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## Audio Codec

Compression/Encoding	G.711a/u
Streaming	One-way
Audio Input	Integrated Microphone

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## Network

Interface	10/100 Mbps Ethernet
Supported Protocols	ARP, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4/6, NTP, RTSP/RTCP/RTP, RTMP, QoS, SMTP, SNMP v1/2c/3, TCP, TLS/TTLS, UDP, UPnP, 802.1X, Bonjour, DDNS, PPPoE
ONVIF conformance	Supports profiles S/G/T/M
Supported Browsers	Microsoft Edge, Firefox, Google Chrome

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## System Integration

### Event Actions

- Schedule Recording (JPG/MP4)
- Video Analytics (Line Counting, Border Line)
- Video and audio recording to edge storage
- File upload: FTP and email
- Notification: Email (JPG)
- OSD indication
- SD Card recording (\*JPG/MP4)

## General

### Housing material

Metal

### IR Illumination

Adaptive IR - up to 30 m distance depending on scenery reflection

### Video Storage

Micro SD card support up to 512 GB.  
Support for recording to MOVE NVR, MOBOTIX Cloud (via MOBOTIX Bridge), MOBOTIX HUB, MxMC (via MOBOTIX NAS)

### Remotely Upgradable

Yes

### Power Requirements

IEEE802.3af, class 3, max 10 watt  
DC12V, max 10 watt

### Connectors

- RJ45
- 1 x DC 12V Jack Socket
- 1 x Reset / Default Button

### Environmental Protection Class

IP67/IK10

### Operating Temperature

-30°C to 60°C/-22°F to 140 °F with heater

### Relative Humidity

95 % non-condensing

### Storage Conditions

-40 to 60 °C/-4 to 158 °F

### Approvals

EMC: CE/FCC  
Safety: LVD

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Warranty	5 years; mechanically wearable parts (motor, gears, belts, etc.) excluded
Dimensions	ø 120 x 104 mm (overall)
Weight	715 g

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**NOTE!** Observe the [MOBOTIX MOVE Installation Hints](#) document to ensure optimum performance of the camera features.









# DORI Specifications

In the video surveillance context, “DORI” stands for Detection, Observation, Recognition and Identification and is based on IEC EN62676-4: 2015. These levels define the minimum pixels that a face of a person must have to provide proper identification, for example.

- **Detection:** Up to this distance, you can reliably determine if a person or vehicle is present.
- **Observation:** Up to this distance, you can see characteristic details of an individual, such as distinctive clothing.
- **Recognition:** Up to this distance, you can determine with a high degree of certainty whether an individual is the same as someone that has been seen before.
- **Identification:** Up to this distance, you can determine the identity of an individual beyond reasonable doubt.

DORI Level Order Code	Focal Length	Detection	Observation	Recognition	Identification
Mx-VT1A-503-IR	2.7 mm (Wide)	23 m/ 75.66 ft	12 m/ 39.47 ft	9.8 m/ 32.24 ft	4 m/ 13.16 ft
	13.5 mm (Tele)	52 m/ 171.05 ft	31.6 m/ 103.95 ft	25.8 m/ 84.87 ft	10.9 m/ 35.86 ft

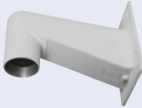



## Accessories

Picture	Order Code	Description
	Mx-M-VT-WM	Wall Mount for MOBOTIX MOVE Vandal Turret Cameras
	Mx-M-VT-JB	Junction Box for MOBOTIX MOVE Vandal Turret Cameras
	Mx-M-VT-AP	Adapter Mounting-Plate for MOBOTIX MOVE Vandal Turret Cameras (mechanically adapts to Mx-M-SD-xx mounting Accessories)
	Mx-M-SD-C	Corner Mount
	Mx-M-SD-GN	Parapet Mount (Gooseneck) with integrated junction box
	Mx-M-SD-P	Pole Mount
	Mx-M-SD-PM	Pendant Mount Kit 25 cm
	Mx-M-SD-PMEXT	Pendant mount extension 25 cm for use with Pendant Mount Kit Mx-M-SD-PM

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Picture	Order Code	Description
	Mx-M-SD-W	Wall Mount; can be combined with Pole Mount Mx-M-SD-P or Corner Mount Mx-M-SD-C
	Mx-M-SD-WM	Wall Mount with room for optional junction box
	Mx-M-SD-WMJB	Wall Mount Junction Box
	Mx-A-ETP1A-2601-SET	Media Converter Set Ethernet (PoE+) – Twisted-Pair

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## Dimensions

**NOTE!** Download the drilling template from the section or on the MOBOTIX website: [www.mobotix.com](http://www.mobotix.com) > [Support](#) > [Download Center](#) > [Marketing & Documentation](#) > [Drilling Templates](#).

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

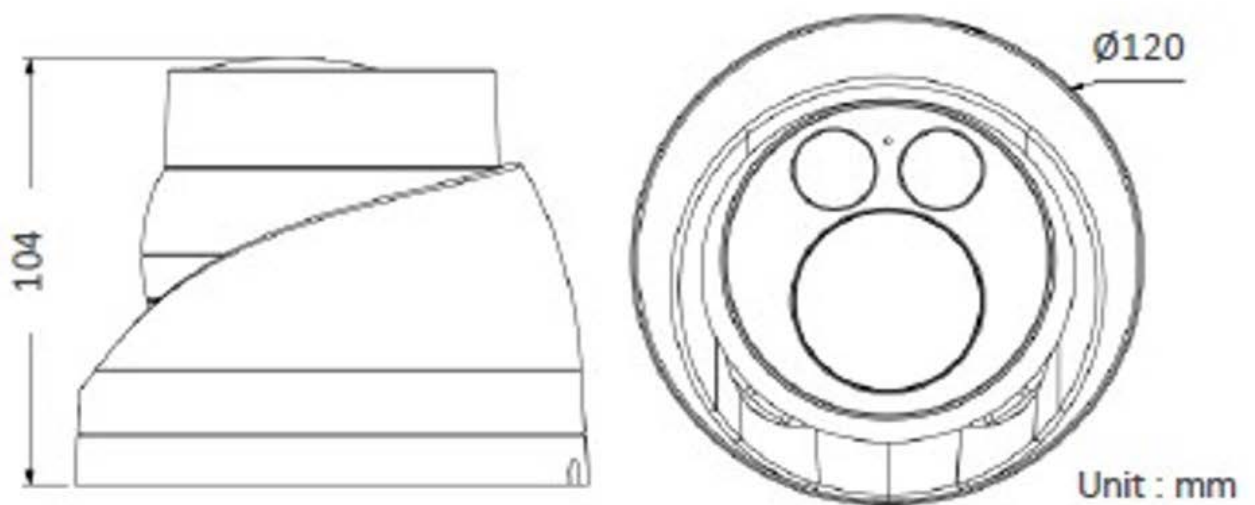


Fig. 1: 5MP Varifocal IR Vandal Turret: All measurements in mm

## Further Reading

[Manuals and Quick Installation documents](#)



[Technical Specifications](#)



[MOBOTIX MOVE Installation Hints](#)



[MOBOTIX Community](#)



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MOBOTIX AG • Kaiserstrasse • D-67722 Langmeil • Tel.: +49 6302 9816-103 • [sales@mobotix.com](mailto:sales@mobotix.com) • [www.mobotix.com](http://www.mobotix.com)

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