



Technical Specifications

MOBOTIX MOVE 12MP Vandal Hemispheric Analytics Indoor Camera

This high-performance 12MP indoor camera with Edge and backend dewarping delivers a 360-degree view of the entire surveillance area. Thanks to its integrated IR illumination and advanced exposure control, darkness poses no problem to this camera, which also offers eight embedded video analysis functions. DNN (Deep Neural Network) support for Intrusion Detection, Loitering Detection, Object Counting. Simple installation and ready-to-go straight out of the box.

- Edge Dewarping and Backend Dewarping
- IR LED (true day/night function, up to 10 m)
- Vandal-Proof IK10 (indoor)
- Sony Progressive Scan CMOS
- Image Sensor Resolution up to 12MP
- Multi Codec support (H.265/H.264/MJPEG)
- Multiple Dewarp Display Modes Digital PTZ/Panorama View/Quad View
- True Day/Night function (ICR)
- 3D Motion Compensated Noise Reduction
- ONVIF Profile S/G/T support
- Smart Event Functions:
 - External Input/Manual Trigger
 - Motion Detection/Periodical Event
 - Network Failure Detection/Audio Detection
- Micro SD/SDHC/SDXC Card support up to 1 TB
- Enhanced Video Analytics Package (abandoned objects/sabotage/wrong direction/object count and removal)



Technical Specifications

Product Information

Product Name	12MP Vandal Hemispheric Analytics Indoor Camera
Order Code	Mx-VH1A-12-IR-VA

Image Quality

Image Sensor	12MP, 1/1.7" Sony Progressive CMOS
Used Pixels	4000x3000 (12MP)
Pixel Size	1.85 μm
Frame Rate (maximum)	H.265/H.264 - Single-stream, back end software dewarping: 4000x3000 @20 fps 2992x2992 @30 fps - Single-stream, front end camera dewarping: 2976x2976 @27 fps 2048x2048 @30 fps MJPEG Back end software dewarping: 1920x1080 @60 fps Front end camera dewarping: 1920x1080 @30 fps

Lens

Minimum Illumination	Color: 0.1 lux B/W: 0.01 lux
Lens Characteristics	Type: 1/1.7” Hemispheric Lens Focal Length: 1.65 mm Aperture: F2.8

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Camera

Day and Night	Automatic mechanically switchable IR-cut filter
Shutter Time	1 – 1/24767 sec.
Zoom	Digital zoom
Image Settings	Backlight Compensation, White Balance, Noise Reduction, Wide Dynamic Range, Privacy Mask, Brightness, Exposure, Sharpness, Contrast, Saturation, Hue, Digital Zoom, Privacy Mask Type, ICR, IR Threshold
Rotation Mode	180° rotation

Video Codec

Compression	H.265/MJPEG/H.264 (MPEG-4 Part 10/AVC) Baseline/Main Profile/High Profile
Streaming	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth LBR/VBR/CBR in H.265/H.264

Audio Codec

Compression	G.711/G.726/AAC/LPCM
Streaming	2 way
Audio Input	Microphone built-in
Audio Output	Speaker built-in

Network

Interface	RJ45, 1 Gbps Ethernet
Security	HTTPS/IP Filter/IEEE 802.1X
Supported Protocols	ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF
ONVIF	Supports profiles S/G/T

System Integration

Base Video Analytics	▪ Motion Detection ▪ Tampering ▪ Audio noise Detection
Enhanced Video Analytics (embedded)	▪ Abandoned objects ▪ Sabotage ▪ Wrong direction ▪ Object removal Powered by DNN (Deep Neural Network) object detection: ▪ Intrusion detection ▪ Loitering detection ▪ Object counting 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 and Plastic
Power	PoE IEEE 802.3af, class 0, max 12.95 Watt
Connectors	RJ45 Alarm in x1, Alarm out x1, Terminal Block Audio in Terminal Block Audio out Terminal Block
Storage	Supports microSD/microSDHC/microSDXC card up to 1 TB Supports recording to NAS

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Operating Conditions	–10°C – 55°C 10% – 90%, no condensation
Storage Conditions	–20°C – 70°C
Approvals	EMC, Safety, Environment, CE/FCC, RoHS, IK10
Dimensions	Ø 130x57.8 mm
Weight	565 g

Accessories

Picture	Order Code	Description
	Mx-NPA-UPOE1A-60W	UPoE Network Power Injector 60 W

Dimensions

NOTE! Download the drilling template from the section or on the MOBOTIX website: www.mobotix.com > Support > Download Center > Marketing & Documentation > Drilling Templates.

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

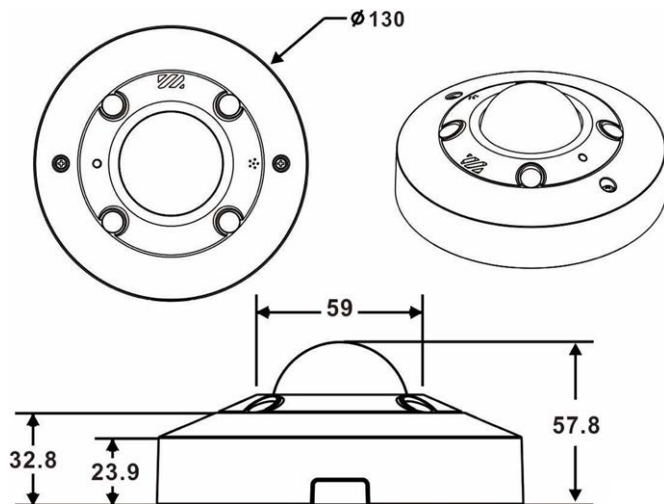


Fig. 1: 12MP Vandal Hemispheric Analytics Indoor Camera: All measurements in mm



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