



Technical Specifications

MOBOTIX c ONE – One Room. One Sensor. Done.

Why deploy multiple devices when one intelligent video sensor can bring together all essential functions in a single platform? The MOBOTIX c ONE combines high-performance imaging, illumination, audio, local recording and AI-powered analytics in a compact smart sensor. Built on the MOBOTIX ONE platform, it reduces complexity and costs while providing a cybersecure foundation for modern indoor security and smart building applications. Its backward-compatible design also enables seamless upgrades of existing c25 and c26 installations.

- 4K Day & Night hemispheric sensor
- Seamless 360° room coverage
- Integrated IR, white light and HD audio
- Edge AI processing and camera app support
- Simple c25/c26 replacement
- Lower total cost of ownership



BeyondHumanVision

MOBOTIX

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Order Information

Name	MOBOTIX c ONE
Order Code:	Mx-ONE-c1A-S-8DN016

Hardware

Feature	Properties
Image sensor (DN)	4K (1:1) effective max. resolution 2160x2160
Light sensitivity	Day Mode (Color): 0,1 lx @ 1/60 s; 0,005 lx @ 1 s Night Mode (B/W): 0,02 lx @ 1/60 s; 0,001 lx @ 1 s
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
IP / NEMA protection class	IP40
Intended use	Not intended for use in hazardous areas (Ex areas)
Operating temperature range	-20 to 40 °C/-4 to 104 °F
Min. cold start temperature	-20 °C/-4 °F
Relative Humidity	5 % to 95 %, non-condensing
Internal DVR Storage	Internal microSD card (SDHC/SDXC), 64 GB out-of-the-box, max. 2 TB.

Feature

Allowed cable dimensions for cables connected to the PCB terminals

Properties

Conductor cross section

- AWG: 26 – 20
- Rigid: 0.14 – 0.5 mm²
- Flexible: 0.14 – 0.5 mm²
- Flexible with ferrule without plastic sleeve: 0.25 – 0.34 mm²
- Flexible with ferrule with plastic sleeve: 0.14 – 0.25 mm²

Input	Contact Closure (no galvanic isolation necessary) or up to 30 Vrms AC / 50V DC Switching thresholds ■ Input >1.6 V results in detected HIGH ■ Input <0.9 V results in detected LOW (after a HIGH) Max. length for cables: 50m
Output	1x dry contact, form A (max 30 Vrms / max, 50V DC/ 60 W/ 2A DC)
Microphone/Speaker	Integrated microphone: ■ Sensitivity: -35 dB +/-4 dB (0 dB = 1 V/pa, 1 kHz) Integrated speaker: ■ 0.9 W at 8 Ohm 1 external speaker optional, max. cable length 3 m/10 ft
Integrated illumination	IR LEDs, 850 nm, up to 25 m²/269 ft² (may be more depending on scene) White light for emergency lighting
Tampering Detection	Integrated Shock Sensor
Max. power consumption	12.95 W
Electrical surge protection	via Overvoltage Protection Box (not part of the scope of delivery)
PoE standard	PoE (802.3af-2003), Class 3
Interfaces	■ Ethernet 1000Base-T (RJ45 according to EIA/TIA-568B) ■ USB-C / USB 2.0 High Speed Power Output 5.1 V / 0.9 A / 4.5 W ■ 12-24 V DC power supply ■ Digital I/O: 1 Input / 1 Output NOTE! I/O terminal block Mx-ONE-A-IO-c1 is not included and has to be ordered separately! 

Technical Specifications

Feature	Properties
Status LED	Multicolor (7 colors)
Mounting Options	In-ceiling mountable; on-wall and corner via optional accessories
Dimensions (Ø x height)	120 x 54 mm/4.72 x 2.13 in
Weight	360 g
Housing	PBT-30GF
Standard accessories	1 Ethernet patch cable, 50 cm/19.7 in (installed) 1 SD card 64 GB (installed) 1 Important Safety Information 1 Sticker with IP address of camera 1 Camera connection flyer 1 MultiTool module wrench 1 Disassembly tool
Detailed technical documentation	www.mobotix.com > Services > Download Center > Marketing & Documentation
MTBF	100,000 hours
Certificates	EN 55032, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62368-1, EN 63000, AS/NZS CISPR32, 47 CFR Part 15b, NRTL
Protocols	DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, NFS, NTP (client and server), MQTT, RTP, RTCP, RTSP, SFTP, SIP (client and server), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, TCP, UDP, VLAN, VPN, Zeroconf/mDNS
Manufacturer warranty	5 years

Image and Video Properties

Feature	Properties
Available video codecs	H.264, H.265, MxPEG+, MJPEG
Image resolutions	CIF (320x240; 4:3), nHD ² (360x360; 1:1), nHD (640x360; 16:9), VGA (640x480; 4:3), SVGA (800x600; 4:3), XGA (1024x768; 4:3), HD ² (720x720; 1:1), HD (1280x720; 16:9), Mega (1280x960; 4:3), least FHD ² (1080x1080; 1:1), FHD (1920x1080; 16:9), QXGA (2048x1536; 4:3), UHD ² (2160x2160; 1:1), Custom Size
Multi streaming	H.264, H.265 with triple streaming
Multicast stream via RTSP	Yes
Max. frame rate	MxPEG: 20@4K, H.264: 30@4K, H.265: 30@4K

General Software Features

Feature	Properties
WDR	Up to 120 dB
Software features	■ H.264, H.265 Multistreaming ■ Multicast stream via RTSP ■ Digital pan, tilt, zoom/vPTZ (up to 8x zoom) ■ Genetec protocol integration ■ Programmable exposure zones ■ Snapshot recording (pre/post-alarm images) ■ Continuous recording ■ Event recording ■ Time-controlled flexible event logic ■ Weekly schedules for recordings and actions ■ Event video and image transfer via FTP and email ■ Playback and QuadView via web browser ■ Animated logos on the image ■ Master/Slave functionality ■ Privacy zone scheduling ■ Remote alarm notification (network message) ■ Programming interface (HTTP API) ■ MxMessageSystem ■ MQTT (Message Queuing Telemetry Transport)
ONVIF compatibility	Profile S/G/T
Master/Slave functionality	Yes
Remote alarm notification	Email, MQTT, MxMessageSystem, network message (HTTP/HTTPS), SNMP, SIP
DVR/image storage management	■ On internal microSD card ■ On external USB and NAS devices ■ Different streams for live image and recording
Camera and data security	FIPS 140-3 validated encryption (OpenSSL 3.1.2, NIST CMVP #4985), VPN with FIPS-certified library, HTTPS with custom X.509 certificates (TLS), AES encryption at rest (microSD / NAS), role-based access control, IP-level access control list, audit trail / web server access log, intrusion detection with automatic IP lockout, IEEE 802.1X port-based network access control, digital image signature
Firmware Tampering Detection	Digital Signature

Video Analysis

Feature	Properties
Video motion detection	Yes
MxActivitySensor	Version 1.0, 2.1
MxActivitySensorONE	Motion and Loitering Detection of Person and Vehicles

Video Management Software

Feature	Properties
MOBOTIX HUB	Yes www.mobotix.com > Services > Download Center > Software Downloads
MxManagementCenter	Yes (latest version recommended) www.mobotix.com > Services > Download Center > Software Downloads
MOBOTIX LIVE App	Yes, available in Google Play Store (Android) and Apple App Store (iOS).
3rd Party VMS Software	See ONVIF Profile S/G/T specification

Dimensions

NOTE!

Drilling template: www.mobotix.com > Services > Download Center > Marketing & Documentation > Drilling Templates.

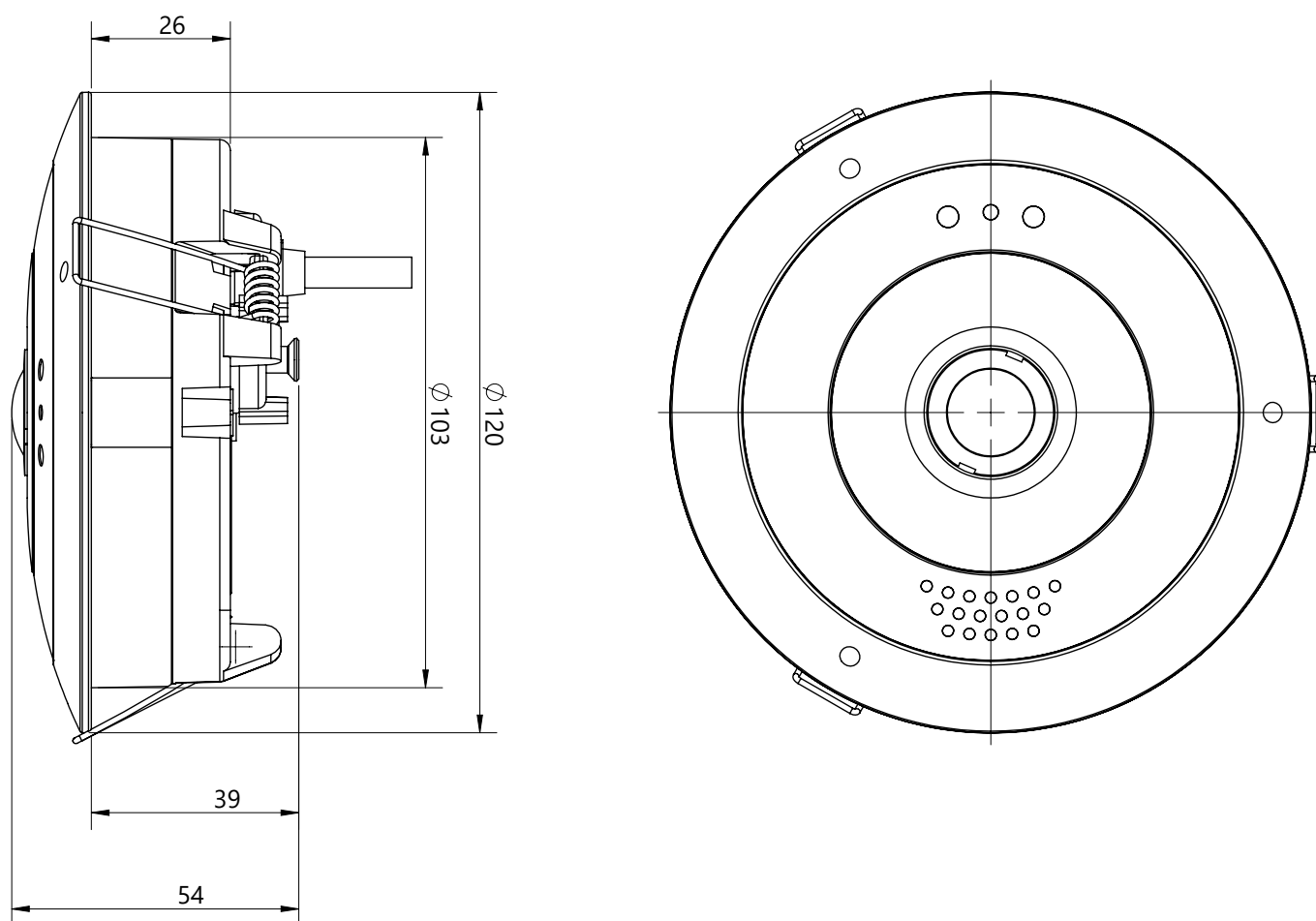


Fig. 1: MOBOTIX c ONE: All measurements in mm

