

# Mx-ONE-M1A-S-8N050



## Mx-ONE-M1A-S-8N050

## Technical Detail

### Overall

#### Product Designation

MOBOTIX ONE M1SA Single Camera

#### Mx Ordercode

Mx-ONE-M1A-S-8N050

#### Intro Product

M1A-Single IP camera equipped with one premium wide-angle lens B050 and B/W sensor for night use, aperture: f/1.8, max. image angle (HxV): 95°x50° • Max. image size: 4K UHD (3840 x 2160 pixels), 16:9 • max. frame rate: 30 fps @ 4K • ONVIF-S-compliant (Profile G, S, T) MOBOTIX ONE system platform with H.264 (Triple Streaming), H.265, MxPEG+ and M-JPEG • WDR: up to 120dB, IR LEDs (up to 30m) • HD Audio with integrated microphone and speaker • Temperature sensor, MxActivitySensor, shock detector • Functional extensions (via optional MOBOTIX modules): 1x USB-C compatible with P7 extension boxes • Operating conditions: IP66/IK10, -40 to 65°C (-40 to 149 °F) • Internal DVR: 64 GB microSD (for MxPEG+ recordings) • Max. Power consumption: 12.95 W, supply via network cable, PoE Class 3 (IEEE 802.3af) or 12/24VDC external power supply • Connections: 1x RJ45 jack for weatherproof network connection via MOBOTIX patch cable (Ethernet 1000BaseT), I/O (1x input, 2x outputs), 1x audio out, 1x 12/24VDC input, 1x USB-C • Software

interface for MOBOTIX Camera Apps (based on Deep Learning) • Housing: PBT-30GF • Color: white • Warranty: 5 years (optionally extendable up to 8 years)

**Microphone**

Yes

**Speaker**

Yes

**Application Area**

Indoor  
Outdoor

**Housing Color**

white

## Technical Data

**Ambient Temperature (°C)**

-40 to 65°C (-40 to 149 °F)

**IP Class**

IP66 / NEMA 4X

**IK Class**

IK10 (housing)

**Certificates**

EN 50121-4, 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

**MTBF (h)**

100,000

**Audio**

- Line Out onboard
- Microphone built-in
- Speaker built-in

**Protocols**

DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, NFS, NTP (client and server), RTP, RTCP, RTSP, SFTP, SIP (client and server), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, TCP, UDP, VLAN, VPN, Zeroconf/mDNS

**Overvoltage Protection**

Overvoltage Protection Box (not part of the scope of delivery)

**Mounting Options**

Wall- or pole-mountable (with Pole Mount accessory, compatible with M26)

**Image Angle horizontal**

95°

**Image Angle vertical**

50°

**Focal Length**

5 mm

**Aperture**

f/1.8

**Max. Frame Rate**

MxPEG: 20@4K, H.264: 30@4K, H.265: 30@4K

**Max. Image Size**

4K UHD (3840 x 2160 pixels)

**Image Format**

16:9

**Light Sensitivity**

Color sensor (day): 0,1 lx @ 1/60s; 0,005 lx @ 1s

BW sensor (night): 0,02 lx @ 1/60s; 0,001 lx @ 1s

**Video Codecs**

H.264  
H.265  
MJPEG  
MxPEG+

**ONVIF compatibility**

Profil G, S, T

**Wide Dynamic Range (WDR)**

up to 120dB

**Power Consumption (W)**

12.95 W

**Power Supply**

PoE Class 3 (IEEE 802.3af) or 12/24VDC  
external power supply

**Status LED**

Yes

**Integrated IR**

Yes

**Interfaces**

1x RJ45 jack for weatherproof network  
connection via MOBOTIX patch cable (Ethernet  
1000BaseT),  
I/O (1x input, 2x outputs),  
1x audio out,  
1x 12/24VDC input,  
1x USB-C

**Signal Input**

1

**Signal Output**

2

**RJ45 Ethernet Connectors**

1x Ethernet 1000BaseT

**Height Product**

219

**Width Product (mm)**

131

**Depth Product (mm)**

237

## Software

**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

## Security

**Tamper Detection**

Yes