

Installation Guide

MOBOTIX S ONE DUAL

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BeyondHumanVision

MOBOTIX

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Before You Start

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Support

MOBOTIX Support

If you need technical support, please contact your MOBOTIX dealer. If your dealer cannot help you, he will contact the support channel to get an answer for you as quickly as possible.

If you have internet access, you can open the MOBOTIX help desk to find additional information and software updates.

Please visit www.mobotix.com > Services > Help Desk.



MOBOTIX eCampus

The MOBOTIX eCampus is a complete e-learning platform. It lets you decide when and where you want to view and process your training seminar content. Simply open the site in your browser and select the desired training seminar.

Please visit www.mobotix.com/ecampus-mobotix.



MOBOTIX Community

The MOBOTIX community is another valuable source of information. MOBOTIX staff and other users are sharing their information, and so can you.

Please visit community.mobotix.com.



Safety Notes

- This product must be installed by qualified personnel and the installation should conform to all local codes.
- This product must not be used in locations exposed to the dangers of explosion.
- Do not use this product in a dusty environment.

- Protect this product from moisture or water entering the housing.
- Install this product as outlined in this document. A faulty installation can damage the product!
- Do not replace batteries of the device. If a battery is replaced by an incorrect type, the battery can explode.
- External power supplies must comply with the Limited Power Source (LPS) requirements and share the same power specifications with the camera.
- To comply with the requirements of EN 50130-4 regarding the power supply of alarm systems for 24/7 operation, it is highly recommended to use an uninterruptible power supply (UPS) for backing up the power supply of this product.

Legal Notes

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Legal Aspects of Video and Sound Recording

You must comply with all data protection regulations for video and sound monitoring when using MOBOTIX AG products. Depending on national laws and the installation location of the cameras, the recording of video and sound data may be subject to special documentation or it may be prohibited. All users of MOBOTIX products are therefore required to familiarize themselves with all applicable regulations and to comply with these laws. MOBOTIX AG is not liable for any illegal use of its products.

Declaration of Conformity

The products of MOBOTIX AG are certified according to the applicable regulations of the EC and other countries. You can find the declarations of conformity for the products of MOBOTIX AG on www.mobotix.com under **Services > Download Center > Marketing & Documentation > Certificates & Declarations of Conformity**.

RoHS Declaration

The products of MOBOTIX AG are in full compliance with European Unions Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS Directive 2011/65/EU) as far as they are subject to these regulations (for the RoHS Declaration of MOBOTIX, please see www.mobotix.com, **Services > Download Center > Marketing & Documentation > Brochures & Guides > Certificates**).

Disposal

Electrical and electronic products contain many valuable materials. For this reason, we recommend that you dispose of MOBOTIX products at the end of their service life in accordance with all legal requirements and regulations (or deposit these products at a municipal collection center). MOBOTIX products must not be disposed of in household waste! If the

product contains a battery, please dispose of the battery separately (the corresponding product manuals contain specific directions if the product contains a battery).

Disclaimer

MOBOTIX AG does not assume any responsibility for damages, which are the result of improper use or failure to comply to the manuals or the applicable rules and regulations. Our General Terms and Conditions apply. You can download the current version of the **General Terms and Conditions** from our website at www.mobotix.com by clicking on the corresponding link at the bottom of every page.

FCC Disclaimer

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notes on System Security

To protect the camera against cybersecurity threats, the following security measures are enabled by default:

- Password must be changed when camera software is accessed for the first time.
- Public access is disabled.
- Intrusion detection is enabled.
- Timeout for grouping accesses from the same client into a single log entry is set to 60 minutes.
- IP addresses of offending HTTP clients are blocked.

The following measures are recommended after the installation has been completed:

Camera Web Interface

- **Admin Menu > Network Setup > Web Server:**
 - **Enable intrusion detection:** Enable notifications for repeated unsuccessful login attempts.
 - **Notification threshold:** Set the value as low as possible (for example, 5 minutes).

MxManagementCenter

- Menu View > Components View > Secure System:
 - **Enable encrypted HTTPS:** Disable all services that require unencrypted HTTP (for example, IP notify messages). Router settings may need to be adjusted when using remote access.
 - **User Management** (for all users):
 - **Force Complex Password:** Enabled
 - **Log out on Inactivity:** 5 minutes

For more information on this new feature, please read the «Cyber Protection Guide» on www.mobotix.com (under **Services > Download Center > Documentation > Brochures & Guides > Cyber Security**).

Protective Measures

WARNING!

When laying cables indoors and outdoors, the current regulations for cable laying, lightning and fire protection must always be observed.

MOBOTIX cameras and devices are protected against the effects of minor over voltages by a number of measures. However, these measures cannot prevent larger surge voltages from causing damage to the camera. When installing the cameras outdoors, special attention should therefore be paid to lightning protection and the associated dangers for the building and network infrastructure.

In general, you should only have MOBOTIX cameras and devices installed by certified specialist companies that are familiar with the installation and safe operation of network devices and the underlying regulations for lightning and fire protection as well as the current technology for preventing damage from surge voltages.

Notes on Cabling

- **Data cable:** Only double-shielded CAT5 cable or better (S/STP) may be used as data cable for the Ethernet interface.
- **Cable length:** The individual cable sections must not exceed the maximum permissible lengths in order to ensure perfect data transmission.
- **Avoidance of induction:** Data cables may only be laid parallel to power or high-voltage lines if the prescribed minimum distances are observed.

Fire Protection

When laying cables for the power supply, the relevant country-specific regulations (e.g. VDE in Germany) and the fire protection regulations valid at the installation site must be observed.

Lightning and Surge Protection

Measures should always be taken to protect this device from electrical surge damage.

NOTE!

Electrical surge protection available using the MX-Overvoltage-Protection-Box, which is available as an accessory.

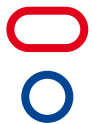
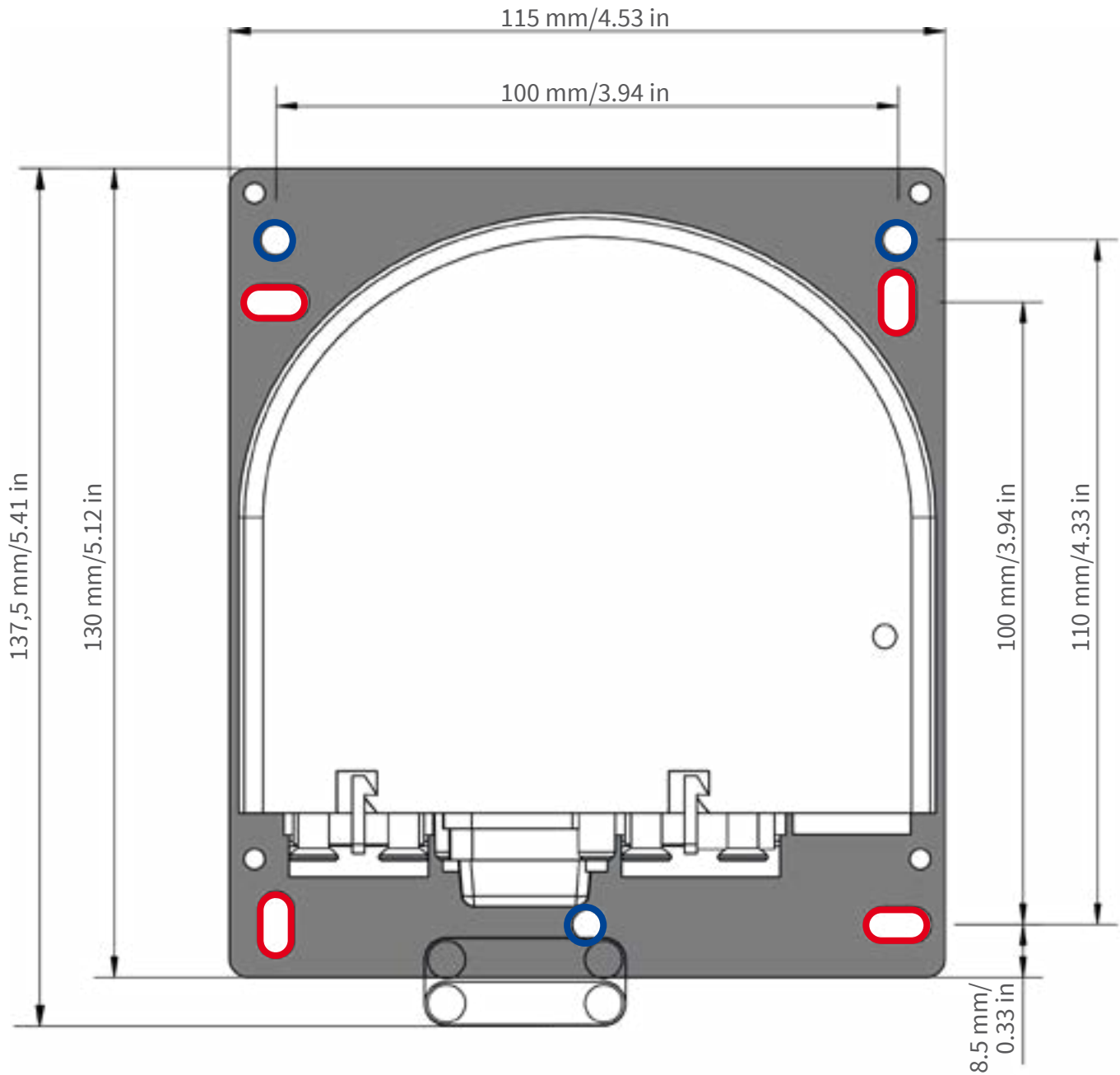
Further information on how to avoid damage caused by lightning and over voltage is available from manufacturers of lightning and over voltage protection devices.

Drilling Template

Open this file in a PDF viewer (Adobe Reader or similar) and print the file **without scaling (original size)**.

NOTE!

Drilling template: www.mobotix.com > [Services](#) > [Download Center](#) > [Marketing & Documentation](#) > [Drilling Templates](#).



- Langlöcher / Slot holes / Trous oblongs
10,5 mm/0.41 in, Ø 5,5 mm/0.22 in
- Gewindebohrungen / Tap holes / Trous taraudés M6

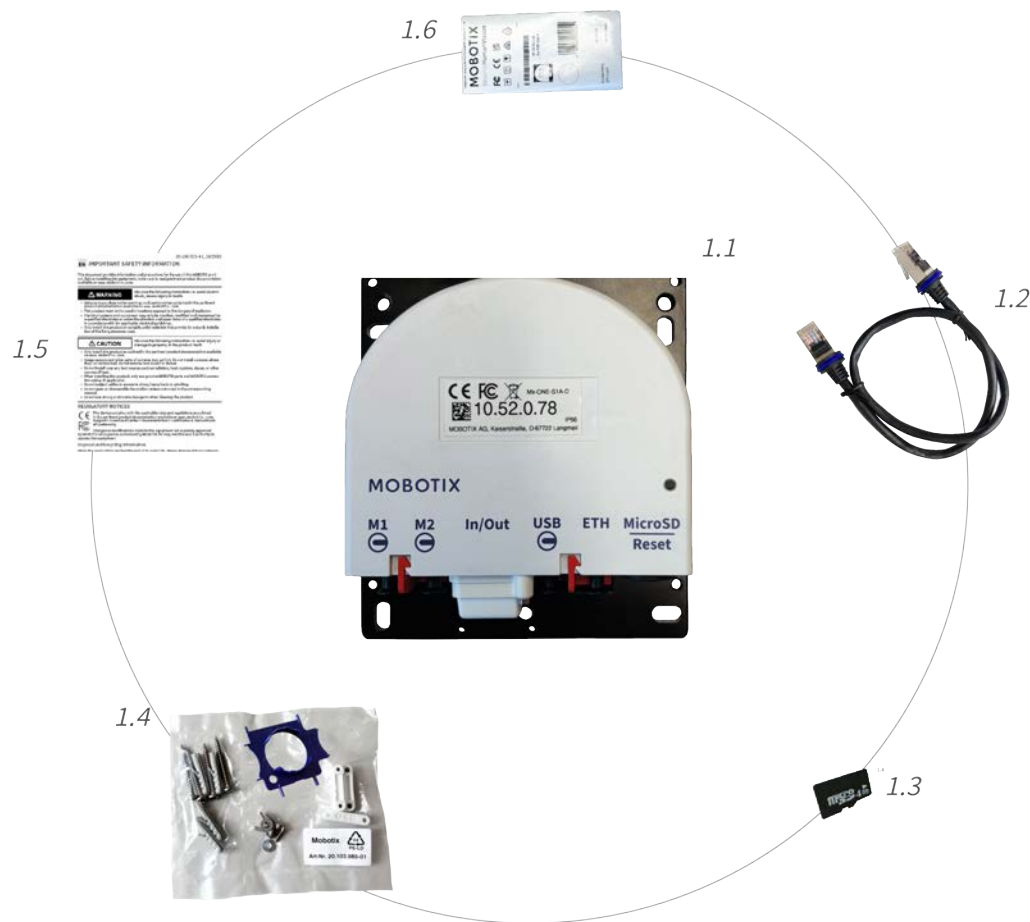


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Scope of Delivery

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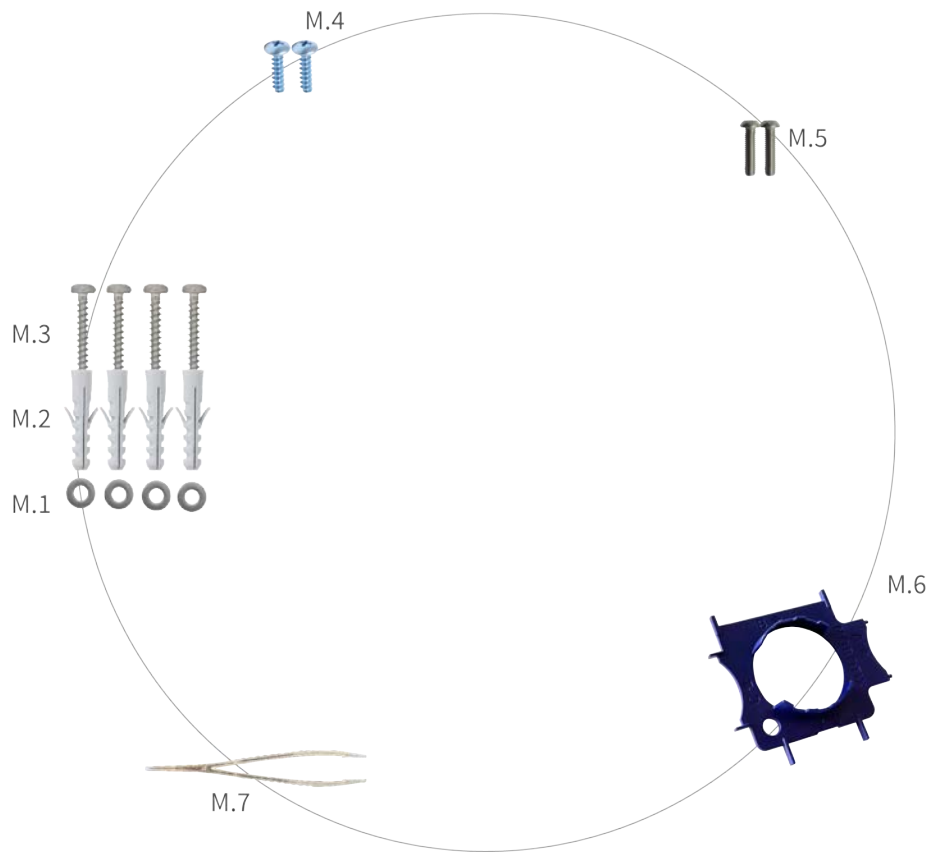
S ONE DUAL: Scope of Delivery



Scope of delivery S ONE DUAL Body

Item	Count	Description
1.1	1	S ONE DUAL body
1.2	1	MOBOTIX Ethernet patch cable, 50 cm/19.7 in (installed)
1.3	1	microSD card 64 GB (installed)
1.4	1	Mounting supplies (see Scope of Delivery sS ONE DUAL Mounting Supplies , p. 15)
1.5	1	Important Safety Information
1.6	1	Sticker with IP address of camera

Mounting Supplies: Scope of Delivery



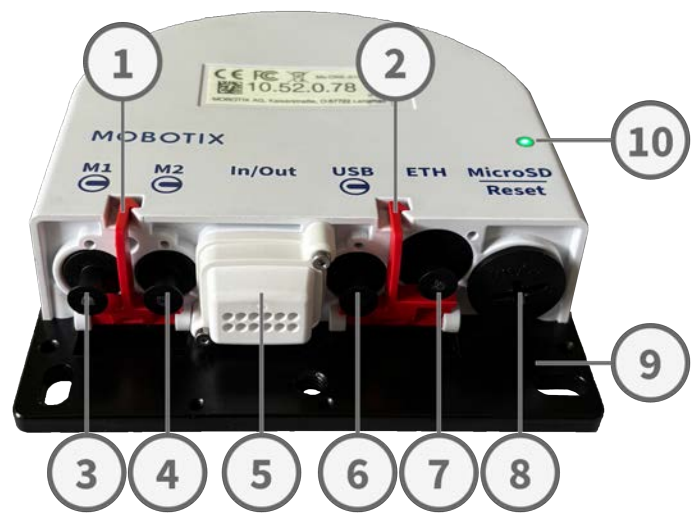
Scope of Delivery sS ONE DUAL Mounting Supplies

Item	Count	Description
M.1	4	Stainless steel washers Ø4.3 mm
M.2	4	Dowel S8
M.3	4	Wood screw 4.0x40 mm
M.4	2	Flat head screw 3x10 mm, self-tapping
M.5	2	Flat head screw M3x12 mm, metric
M.6	1	MultiTool module wrench
M.7	1	Plastic Tweezers

Overview

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---------------------------	----

Parts of the Camera



- | | |
|-----------------------------|-------------------------------|
| ① Module lock | ② ETH/USB lock |
| ③ Module connector M1 | ④ Module connector M2 |
| ⑤ I/O connectors | ⑥ USB-C connector |
| ⑦ Ethernet / RJ45 connector | ⑧ microSD card / Reset button |
| ⑨ Mounting plate | ⑩ Status LED |

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Order Information

Name	MOBOTIX S ONE DUAL
Order Code:	Mx-ONE-S1A-D (Body only)

Hardware

Feature	Properties
Image sensor (color or B&W sensor)	Up to 4K UHD 3840x2160, 16:9, 1/1.8"
Available Lenses	See Sensormodules Standard (4K Day & Night) , p. 23
Light sensitivity	Color sensor: 0.1 lx @ 1/60 s; 0.005 lx @ 1 s
Exposure control	Manual and automatic mode 1 s to 1/16.000 s
IK protection class	Sensor modules: IK10
IP / NEMA protection class	Housing: IP66 / NEMA 4X Sensor modules: IP66 / NEMA 4X/NEMA 4X
Intended use	Do not use in hazardous areas (Ex area)
Operating temperature range	-40 to 65 °C/-40 to 149 °F-20 to 40 °C/-4 to 104 °F
Min. cold start temperature	-30 °C/-22 °F
Relative Humidity	95 % non-condensing
Internal DVR Storage	Internal microSD card (SDHC/SDXC), 64 GB out-of-the-box, max. 2 TB.
I/Os	INPUT ■ Contact Closure (no galvanic isolation necessary) or up to 30 Vrms AC / 50 V DC ■ Switching thresholds ■ Input >1.6 V leads to a detected HIGH ■ Input <0.9 V leads to a detected LOW (after a high) ■ Max. length for cables: 50 m OUTPUT ■ 3x Dry contact, form A (max 30 Vrms / max, 50 V DC / 60 W / 2 A DC)
Microphone	■ Microphone (integrated in ONE sensor modules): ■ Sensitivity: -41 dB FS ±1 dB ■ SNR 68 dBA ■ AOP 133 dB SPL

Feature	Properties								
Speaker	External speaker required: 1.8 W @ 8 Ω								
Allowed cable dimensions for cables connected to the PCB terminals	<table> <tr> <td><i>Conductor cross section</i></td><td></td></tr> <tr> <td>AWG</td><td>26 - 20</td></tr> <tr> <td>Rigid</td><td>0.14 mm² - 0.5 mm²</td></tr> <tr> <td>Flexible</td><td>0.14 mm² - 0.5 mm²</td></tr> </table>	<i>Conductor cross section</i>		AWG	26 - 20	Rigid	0.14 mm ² - 0.5 mm ²	Flexible	0.14 mm ² - 0.5 mm ²
<i>Conductor cross section</i>									
AWG	26 - 20								
Rigid	0.14 mm ² - 0.5 mm ²								
Flexible	0.14 mm ² - 0.5 mm ²								
Tampering Detection	Integrated Shock Sensor								
PoE standard	PoE (802.3af-2003) / Class 3								
Power consumption	Max. 12.95 W/270 mA (average can be significantly lower) Average in dual operation: 9.0 W Dual operation, WDR off: approx. 5.63 W Dual operation, WDR on: approx. 6.27 W MxActivitySensorONE per Sensor: approx. 1.4 W								
Electrical surge protection	Overvoltage Protection Box (not part of the scope of delivery)								
Interfaces	- Ethernet 1000Base-T (RJ45 according to EIA/TIA-568B) - Sensor Modules M1, M2 - USB 2.0/3.0 via USB-C connector 12-24 V DC power supply - Input / Output - Ext. Speaker - microSD card, max. 2 TB								
Status LED	multicolor (8 color)								
Mounting Options	Wall, ceiling, hidden installation; extensive selection of mounting accessories available (see Mounts, p. 25)								
Dimensions (height x width x depth)	137.5 x 115 x 33 mm								
Weight	0.54 kg								
Housing	Aluminum, PBT-30GF								
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	VGA 640x360, XGA 1024x576, HD 1280x720, FullHD 1920x1080, QHD 2560x1440, 4K UHD 3840x2160 (8MP)
Multi streaming	H.264, H.265 with up to 4 streams (2 per sensor)
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 G, S, T
Master/Slave functionality	Yes
Remote alarm notification	Email, MQTT, MxMessageSystem, network message (HTTP/HTTPS), SNMP, SIP

Feature	Properties
DVR/image storage management	■ On internal microSD card ■ On external USB and NAS devices ■ Different streams for live image and recording ■ MxFFS with buffered archive, pre- and post-alarm images, storage monitoring with error reporting
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	Supported, compatible with MOBOTIX HUB NurseAssist Dashboard 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, T and G specification

Accessories

Sensormodules Standard (4K Day & Night)

NOTE!

Lenses or sensors are not part of the scope of delivery.

Technical Specifications

Accessories

Lens	Sensor	Order Code
Fixed lens 120° WIDE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-SMA-8DN040
Fixed lens 95° WIDE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-SMA-8DN050
Fixed lens 60° WIDE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-SMA-8DN080
Fixed lens 45° STANDARD	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-SMA-8DN100
Fixed lens 30° TELE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-SMA-8DN150
Fixed lens 15° TELE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-SMA-8DN280

Sensormodules BlockFlexMount (4K Day & Night)

NOTE!

Lenses or sensors are not part of the scope of delivery.

Lens	Sensor	Order Code
Fixed lens 120° WIDE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-BFA-8DN040
Fixed lens 95° WIDE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-BFA-8DN050
Fixed lens 60° WIDE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-BFA-8DN080
Fixed lens 45° STANDARD	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-BFA-8DN100
Fixed lens 30° TELE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-BFA-8DN150
Fixed lens 15° TELE	4K Sensor as D/N IR Cut / Microphone	Mx-ONE-BFA-8DN280

Module Cables

NOTE!

The module cables are not part of the scope of delivery.

Module Cable	Description	Order Code:
Sensor cable 1m straight-angled	Sensor cable straight-angled, length 1 m/3.3 ft. - For connecting optical sensor modules and thermal sensor modules to the ONE S1x camera body. - Required for audio signals from the microphone in the sensor module.	Mx-ONE-CBL-S01-AN
Sensor cable 2m straight-angled	Sensor cable straight-angled, length 2 m/6.6 ft. - For connecting optical sensor modules and thermal sensor modules to the ONE S1x camera body. - Required for audio signals from the microphone in the sensor module.	Mx-ONE-CBL-S02-AN

Mounts

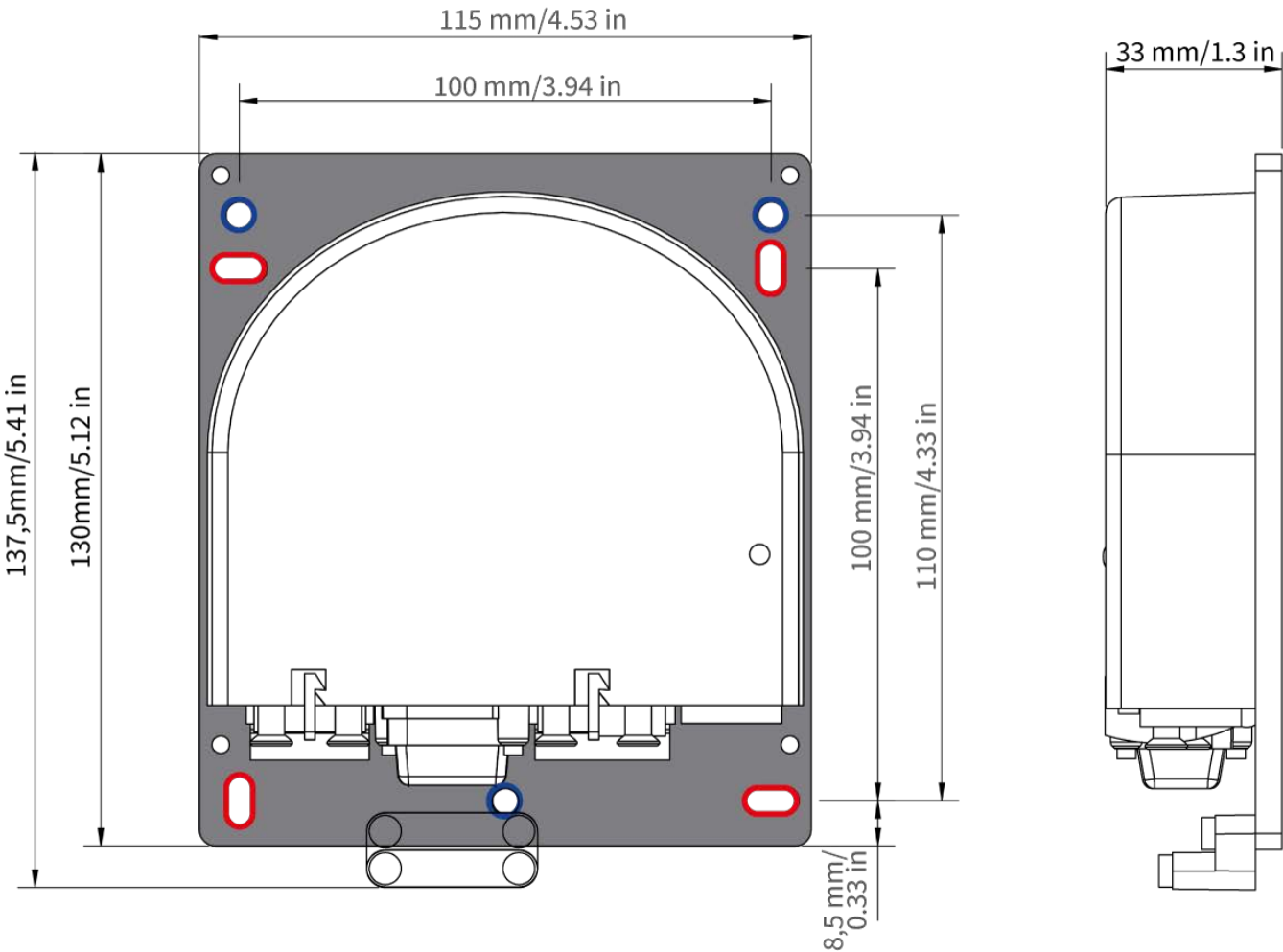
The following mounts of the sensors from previous camera models are compatible.

NOTE!

- The mounts are not part of the scope of delivery.
- There may be color deviations in the mounts of earlier camera generations.
- An already installed S16 PT-Mount (purchased before January 2020) is not compatible with an S ONE DUAL module.

Mount Type	Description	Order Code:
On-Wall Kit for PTMount, white	On-Wall Kit for PTMount, white incl. mounting parts.	Mx-M-PTMA-OW
PTMount, white	Three axis adjustable mount	Mx-M-PTMA
SingleMount, white	For surveillance of one area with one sensor module	Mx-M-SLMA
DualMount, white	For surveillance of one to two areas with two sensor modules	Mx-M-DLMA

Dimensions



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

Mounting

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Before Mounting the Camera

Before mounting the MOBOTIX S ONE DUAL, the following questions should be answered:

- Where and how will the camera be mounted?
- Where and how will the sensor modules be mounted?
- How is the mounting surface level?
- Which other mounting options are available?
- Which accessories might be needed?
- How is the camera connected to the network and how is the power supplied?
- How are the connections furnished from the building?
- What cabling considerations are necessary?

NOTE!

Before mounting the camera

- Determine the optimal installation position and ensure that the field of view is not obstructed. After installation, you can fine-tune the image.
- Ensure that a PoE power supply compliant with PoE (802.3af-2003) / Class 3 is available at the installation location (see [Connecting the Camera to the Network, p. 42](#)).

CAUTION!

- Install only on a flat surface! Unevenness must not exceed 0.5 mm/0.02 in!
- Only use genuine MOBOTIX patch cables to guarantee the weatherproofness!

If you have questions, please ask your MOBOTIX partner directly or contact the MOBOTIX support under www.mobotix.com > [Services](#) > [Help Desk](#).

Protective Measures

WARNING!

When laying cables indoors and outdoors, the current regulations for cable laying, lightning and fire protection must always be observed.

MOBOTIX cameras and devices are protected against the effects of minor over voltages by a number of measures. However, these measures cannot prevent larger surge voltages from causing damage to the camera. When installing the cameras outdoors, special attention should therefore be paid to lightning protection and the associated dangers for the building and network infrastructure.

In general, you should only have MOBOTIX cameras and devices installed by certified specialist companies that are familiar with the installation and safe operation of network devices and the underlying regulations for lightning and fire protection as well as the current technology for preventing damage from surge voltages.

Notes on Cabling

- **Data cable:** Only double-shielded CAT5 cable or better (S/STP) may be used as data cable for the Ethernet interface.
- **Cable length:** The individual cable sections must not exceed the maximum permissible lengths in order to ensure perfect data transmission.
- **Avoidance of induction:** Data cables may only be laid parallel to power or high-voltage lines if the prescribed minimum distances are observed.

Fire Protection

When laying cables for the power supply, the relevant country-specific regulations (e.g. VDE in Germany) and the fire protection regulations valid at the installation site must be observed.

Lightning and Surge Protection

Measures should always be taken to protect this device from electrical surge damage.

NOTE!

Electrical surge protection available using the MX-Overvoltage-Protection-Box, which is available as an accessory.

Further information on how to avoid damage caused by lightning and over voltage is available from manufacturers of lightning and over voltage protection devices.

Installing Sensor Modules

WARNING!

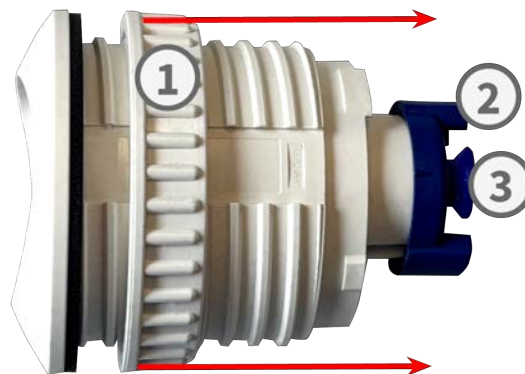
Make sure the power supply to the camera is disconnected before installing or replacing sensor modules.

CAUTION!

When installing the sensor modules, make sure that the sensor module cables are not damaged or bent sharply!

Preparing the Sensor Modules

Remove the plastic nut ① from the sensor modules, remove the bayonet catch ② by rotating it counter-clockwise, then remove the blue rubber plug ③ .



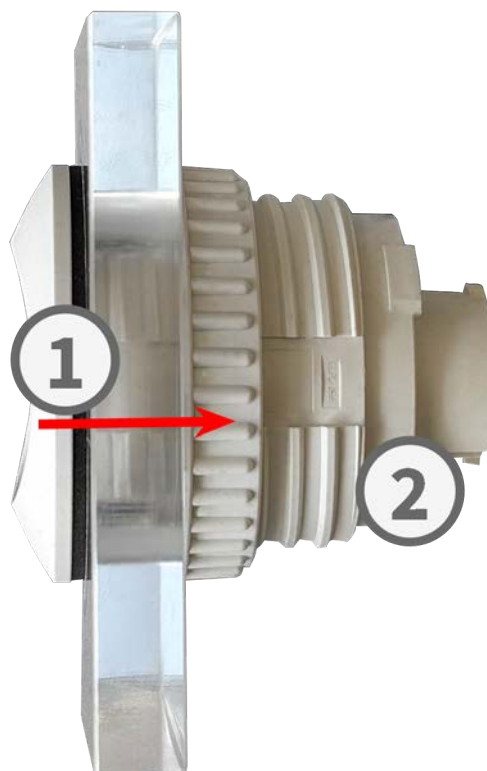
Proceed by Installing the Sensor Modules

- [Installing Sensor Module without Mounts, p. 30](#)
- [Installing Sensor Module with PTMount, p. 31](#)

Installing Sensor Module without Mounts

A sensor module can be easily and discreetly installed in a drywall, for example.

1. **Mount the sensor module:** Insert sensor module into hole (43 mm) ① and tighten the plastic nut ② to keep the sensor module safely in place



2. **Connect the sensor module cable:** Push the plug of each sensor module cable **firmly** into the connector at the back of the module until the connector is fully inserted into its seat.



NOTE!

The lug of the plug must point to the inside of the sensor module when plugged in. If the module cable is not plugged in correctly, the sensor will not be recognized by the camera.

3. **Lock sensor module cable:** Apply the blue bayonet catch onto the connector of the sensor module as shown and turn it clockwise until it gently snaps shut.
4. Repeat steps 1 to 4 to add additional sensor modules, respectively.



Installing Sensor Module with PTMount

CAUTION!

The PT-Mount was developed for wall or ceiling mounting. When mounting on the floor, make sure that there is no cavity inside the PT-Mount where water could collect.

Mounting

Installing Sensor Modules

1. Using the 2.5 mm allen wrench, remove the two screws that hold the foot onto the swivel ring.



2. Remove swivel ring and base plate.



3. Make sure that there is enough space for installing the PTMount and that you can access it from the rear later on. The surface should be even and smooth so that the sealing lies flat on the surface.



4. Drill the holes for the base plate using the drilling template and insert the dowels [PM.8](#).



5. In the center of the drilling template, drill another hole into the wall or faceplate for the sensor module cable. The hole should have a diameter between 15 and 35 mm.



6. Hold the sealing, the swivel ring and the base plate as shown in the figure.



Mounting

Installing Sensor Modules

7. Attach the base plate using the supplied wood screws and washers.



8. When tightening the screws, make sure that you can still rotate the swivel ring by hand.



9. Guide the sensor cable through the sealing, the swivel ring, the base plate and through the mounting surface to the camera.



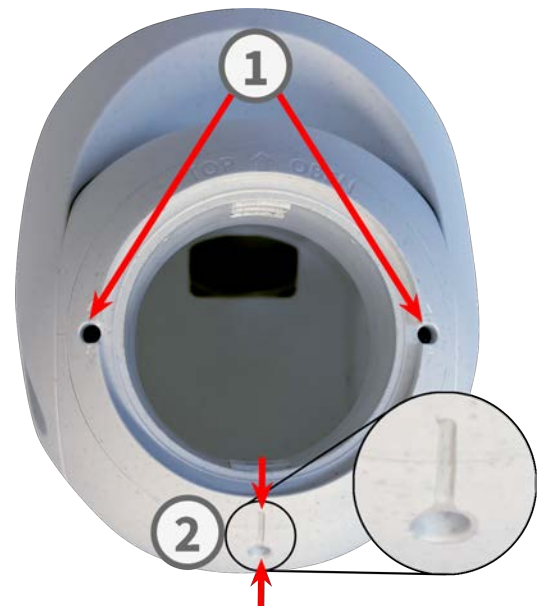
10. Guide the sensor cable from the back into the foot and the sphere.

11. Use the two screws to affix the foot and sphere assembly to the swivel ring and make sure that the foot can still be rotated.



12. Loosen the two fastening screws of the insert ① , then rotate the insert so that the small bar opposite of the **TOP/OBEN** label points to the hole of the grub screw ② .
13. Secure the insert against rotating by tightening the two fastening screws using the 2.5 mm Allen wrench.

14. Attach the sensor module cable to the sensor module (turn blue bayonet catch to the left and remove, pull out the plug, connect the sensor cable, apply bayonet catch and lock by turning to the right).



15. Push the sensor module into the PTMount so that the arrow on the backside of the sensor module points to the left vs. the **TOP/OBEN** lettering.



Mounting

Installing Sensor Modules

16. Using the module wrench lock the sensor module by turning it 90 degrees to the right.



17. Secure the sensor module by tightening the grub screw using the 2.5 mm Allen wrench. The grub screw locks the sensor module within the insert and prevents inadvertent unlocking of the sensor module.



18. Adjust the sensor module temporarily by pointing it into the desired viewing direction.



19. Make sure that the **TOP/OPEN** label on the insert is pointing upwards. If this is not the case, loosen the two fastening screws ① using the 2.5 mm Allen wrench and rotate the insert.



Installing the BlockFlexMount

The BlockFlexMount has been designed for integration into other devices. It uses the same technology as the “regular” sensor modules, but in a black anodized aluminum housing.



Thanks to the tap holes on each side and the holes for machine bolts, the BlockFlexMount is easily integrated into any given structure or device.

Connecting the Camera

All connections to the camera (network, USB-C, inputs/outputs) can be made directly on the camera. No further accessories are required for this. A PoE switch provides the camera's power supply.

Connecting Module Cables to the Camera

WARNING!

Make sure the power supply to the camera is disconnected before installing or replacing sensor modules.

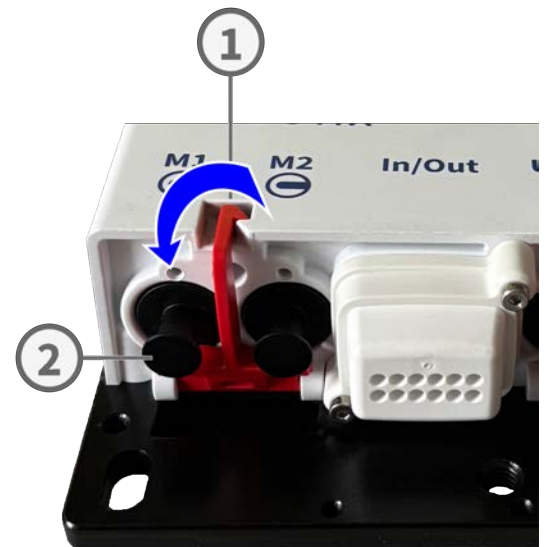
CAUTION!

When installing the sensor modules, make sure that the sensor module cables are not damaged or bent sharply!

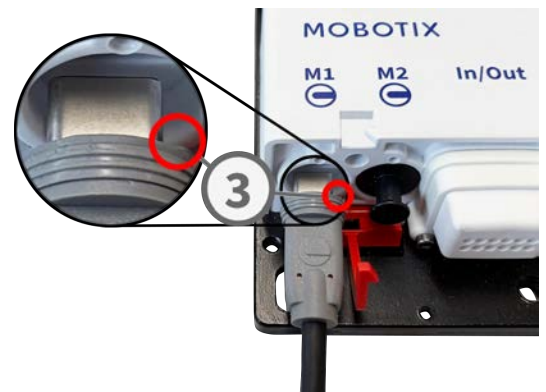
One or two sensor modules can be connected to the camera.



1. To access a sensor module connector (M1 & M2), push away the safety clip ① from the sealing plug, then remove the sealing plug ② .



2. Plug the module cable into the module connector so that the small lug ③ plug fits into the module connector.



NOTE!

If the module cable is not plugged in correctly, the sensor is not recognized by the camera.

Mounting

Connecting the Camera

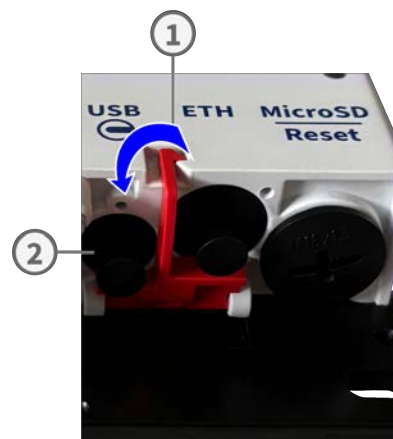
3. Set the safety clip back into place.



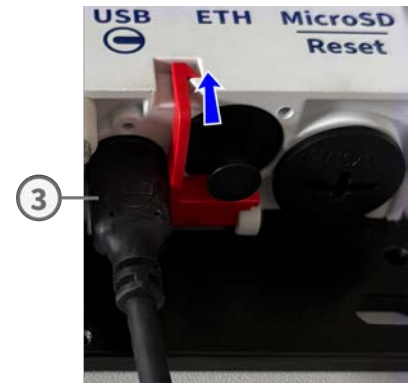
Connecting a USB-C Device

The camera has a USB-C port that allows connecting external storage media or extension boxes, for example.

1. To access the USB-C port, push away the safety clip ① from the sealing plug, then remove the sealing plug ② .



2. Plug the USB-C connector ③ into the port and press in firmly. Then set the safety clip back into place.

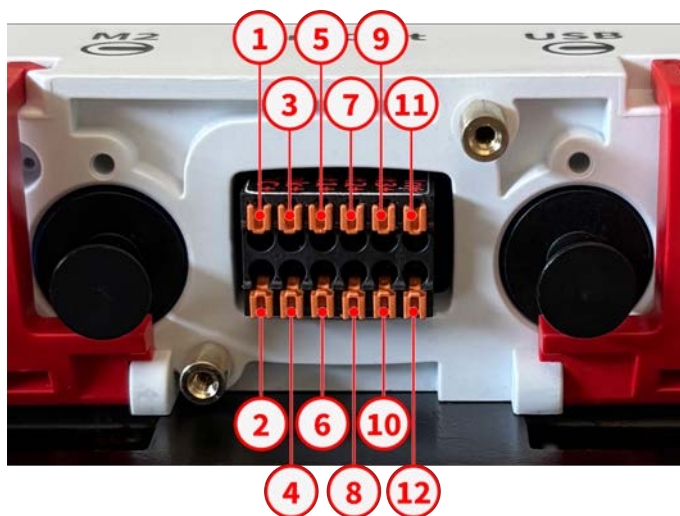


3. Connect the USB-C device to the USB cable.

Connecting I/O Devices

The MOBOTIX S ONE DUAL has an I/O terminal that allows connecting multiple I/O devices.

I/O Terminal Pin-Out



① DC +	② DC -	③ Spk +	④ Spk -
⑤ Out1 +	⑥ Out1 -	⑦ Out2 +	⑧ Out2 -
⑨ Out3 +	⑩ Out3 -	⑪ In +	⑫ In -

CAUTION!

Before you proceed pay attention to the intended use or polarity of the slots. Ensure that the connections are assigned correctly as shown in the overview diagram above.

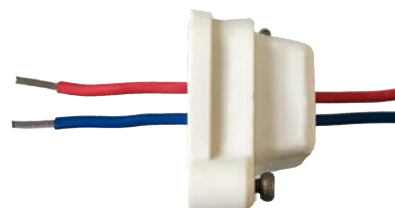
Mounting

Connecting the Camera

1. To access the I/O connectors, release the screws ① from the I/O cover, then remove it.



2. Strip 5 mm of insulation from the ends of the connection wires of the I/O devices and push the wires through the openings in the I/O cover corresponding to the appropriate I/O slots.



3. Plug the connection wires of the respective units into the corresponding slots ② (see [I/O Terminal Pin-Out, p. 41](#)) of the connection terminal and check their tight fit.



4. Attach the I/O cover and fasten the screws ③.



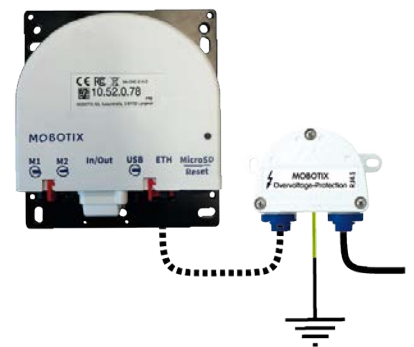
Connecting the Camera to the Network

CAUTION!

- The PoE switch must provide Class 4 according to PoE (802.3af-2003) / Class 3 as well as the 100/1000 Mbps Ethernet interface of the camera.
- It is highly recommended to use an uninterruptible power supply (UPS) for the switch.
- The maximum length of the network cable for remotely supplying power is 100 m (300 ft).



1. Connect the supplied patch cable 1.2, p. 14 with the PoE network connection of the building.



NOTE!

It's recommended to connect the camera with the MX-Overvoltage-Protection-Box (RJ45 or LSA). This ensures a weatherproof (IP66) network and power connection network connector with surge protection of up to 4 kV (refer to the corresponding manual from the MOBOTIX website www.mobotix.com > Services > Download Center > Marketing & Documentation).

Mounting the Camera

CAUTION!

- Install only on a flat surface! Unevenness must not exceed 0.5 mm/0.02 in!
- Only use genuine MOBOTIX patch cables to guarantee the weatherproofness!

Before mounting the MOBOTIX S ONE DUAL and sensor modules, determine the ideal positions and make sure that the field of view is not obstructed in any way. Once the modules have been mounted, you can fine-tune the image. If the monitored area changes or the camera has to be installed in a different location, you can exchange the sensor modules.

NOTE!

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

Mounting

Adjusting the Camera

NOTE!

Do not use the dowels if the installation surface is wood. Only use the screws to fasten the mounting plate directly on the surface. In order to facilitate screwing in wood, the positions should first be pre-drilled using a 2 mm drill bit, for example (drilling depth just slightly less than screw length).

1. **Drill the holes for the dowels:** Mark the holes for the dowels using the drilling template (see [Drilling Template](#), p. 11). When drilling, use an 8 mm drill bit and drill holes with at least 60 mm/1.2 in depth.
2. Fully push the dowels [M.2, p. 15](#) into the holes you drilled.
3. **Install the mounting plate:** Place the Camera over the drilled holes ① and use the four screws [M.3, p. 15](#) with one washer [M.1, p. 15](#) each and the Phillips screwdriver to mount the plate to the wall.



Adjusting the Camera

Adjusting the camera at the mounting position will ensure that you will see the desired field of view later on.

To finish the installation of the MOBOTIX S ONE DUAL, the connections of the camera are established and the camera is mounted onto its final position. The installation is finished by applying the remaining cover plugs to ensure the water-proofness of the housing.

Adjust the Lens Focus

Once the camera has been installed, the lens should be checked for proper image sharpness and manually adjusted.

The focusing aid provides a visual aid when correcting the image sharpness (see "The Live Screen of the MOBOTIX Camera" in the camera's online help).

NOTE!

When adjusting the image focus or the field of view of the camera, always make sure that you can see the live image of the camera on your monitor.

1. Show the live image of the camera on the monitor (see [Access the Camera in the Web Browser, p. 58](#)).
2. **Remove the lens protection glass:** Place the lens wrench on the notches of the lens protection glass and rotate it to the left until it slides off the lens.



NOTE!

You may need to carefully leverage out the protective glass (e.g., with a small screwdriver).

3. **Adjust the image sharpness:** Place lens wrench (**with the ring-shaped side**) on the lens and rotate it carefully to the right or left until the image on the monitor meets your requirements.



CAUTION!

Do not turn the lens too far or with force to avoid damaging the image sensor.

4. **Reinsert the protective glass:** Turn it with the lens wrench to the right as far as it will go.

Operating the Camera

Getting Started	48
Boot Options of the Camera	48
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Getting Started

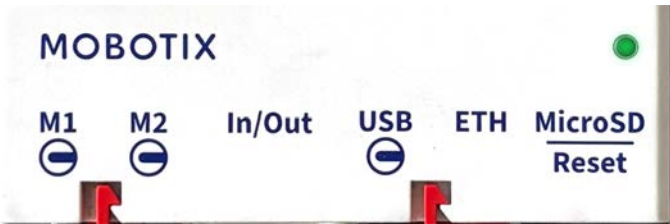
You can use the MOBOTIX S ONE DUAL with any current browser – or with MxManagementCenter.

NOTE!
You can download MxManagementCenter free-of-charge from www.mobotix.com > [Services](#) > [Download Center](#) > [Software Downloads](#).

- 1. **Connect the camera to the network:** The network cable will also provide power to the camera (see [Connecting the Camera to the Network](#), p. 42).
- 2. **Establish a connection to the camera:** Follow the instructions on how to access the camera as outlined in [Initial Camera Setup](#), p. 50.
- 3. **Configure camera:** You can use the user interface of the camera in a browser or in MxManagementCenter.

LED States

The camera LED on top of the camera body displays the following states by default:



LED status	Meaning
Green steady on	Normal operation
Green steady flashing	Technical error or misconfiguration

Boot Options of the Camera

By default, the camera starts as DHCP client and automatically tries to get an IP address from a DHCP server. To start the camera in a mode different from the default mode, you can activate the boot menu of the camera.

NOTE!
Pressing the key of the camera will let the camera announce the current IP address of the camera on the speaker (if a speaker is attached to the camera).

CAUTION!
When opening the camera, do not insert any objects into the housing. This could damage the camera!

1. Disconnect the camera's power supply.
2. **Open the SD card housing:** Loosen the threaded plug on the housing ① (e.g. using a suitable coin) and remove the plug.
3. Take a suitable tool for operating the boot menu (e.g. the enclosed tweezers [Mounting Supplies: Scope of Delivery, p. 15](#)), **but do not use a paper clip or pointed objects!**
4. Reconnect the power supply of the camera.



5. **Activate the boot menu:** The LED at the top of the camera housing lights up 5 to 10 seconds after establishing the power supply and will stay on for 10 seconds. Press the reset key ② with the tool. The camera enters the boot menu, ready for selecting one of the boot options. The LED will flash once. The flash signal will be repeated every second.



NOTE!

The number of flashes corresponds to the current boot option.

6. **Switch the boot option:** Briefly press the reset button(< 1 sec). After the last boot option, the camera returns to the first boot option (LED flashes once).

Operating the Camera

Network Settings

7. **Select a boot option:** Press the key longer (> 2 sec). The camera confirms the selection by flashing the LED rapidly for 3 seconds. After 20 sec, the camera will play a sound according to the table below.

LED Flashes	Boot Option	Meaning	Audio Confirmation
1x	•/•	This option is not supported on this camera model.	•/•
2x	Factory Defaults	Starts the camera with factory defaults (factory default IP address, users and passwords will not be reset).	Boing
3x	Automatic IP Address	Starts the camera as DHCP client and tries to obtain an IP address from a DHCP server. If a DHCP server cannot be found or no IP address can be obtained, the camera starts with its factory default address.	Boing-Boing
4x	Backup Operating System	Starts the camera with the recovery system, e.g., in order to recover from a failed update of the camera software.	Alarm Sound

8. Close the SD card housing.

NOTE!

If you do not select a boot option, the camera will resume its normal boot process after a certain time.

CAUTION!

- Note that you can restore specific parts of the camera configuration afterwards by using "Restore" to re-apply the settings still stored in the camera.
- As opposed to resetting the camera using **Admin Menu > Reset configuration to factory defaults**, the user information will not be reset if the camera is booted using the factory defaults.
- When starting the camera with DHCP support (option 2), make sure that the network has a properly functioning DHCP server. If this is not the case, the camera cannot obtain a valid IP address and will fall back to its last IP address.
- You should also make sure that the cameras always get the same IP addresses by mapping the MAC addresses of the cameras to the desired IP addresses.

Network Settings

Initial Camera Setup

Check the Preconditions

- Is the camera running (check camera power LED)?
- Is the camera accessible using my current network connection?

- Do I have the necessary information for successfully running the camera on the network?
 - IP address of NTP (*Network Time Protocol*) server.
 - IP address of network gateway (if required).

Access the Camera

1. Start your web browser.
2. Access the camera using its zeroconf address:
 - Look for the factory IP address such as `10.x.y.z` on the sticker on the camera body or the packaging.
 - Enter this address in the address bar of your browser using the following syntax: `mx10-x-y-z.local`.

EXAMPLE:

Taking a factory IP address of `10.32.24.129` as an example, you would enter `mx10-32-24-129.local` in the address bar of your browser.

- Click on **Admin Menu** and enter the default access credentials (`admin/meinsm`).
3. In the **Quick Installation** dialog, select your language, then click on .

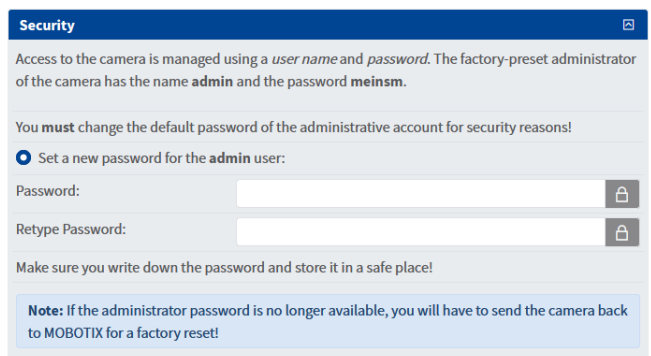


Operating the Camera

Network Settings

4. Continue clicking on  and do not change any settings until you reach the **Security** dialog.

Set a password for the admin user of the camera. Make sure you keep the password in a safe place.



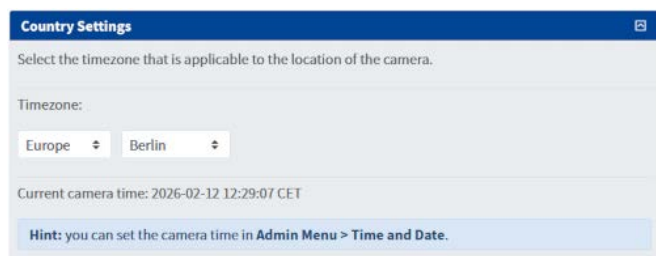
The **Security** dialog box has a blue header with a close icon. The main text states: "Access to the camera is managed using a *user name* and *password*. The factory-preset administrator of the camera has the name **admin** and the password **meinsm**." Below this, it says: "You **must** change the default password of the administrative account for security reasons!" There is a radio button selected for "Set a new password for the **admin** user:". Below this are two password input fields labeled "Password:" and "Retype Password:", each with a lock icon on the right. A note at the bottom says: "Make sure you write down the password and store it in a safe place!" and "Note: If the administrator password is no longer available, you will have to send the camera back to MOBOTIX for a factory reset!"

NOTE!

Make sure to record the new password in the system documentation!

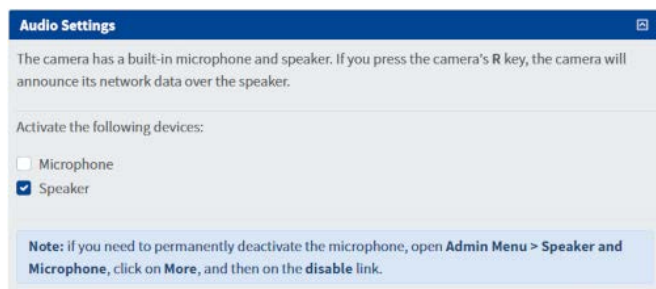
5. Continue clicking on  and do not change any settings until you reach the **Country Settings** dialog.

Check the time zone and adjust it, if necessary.



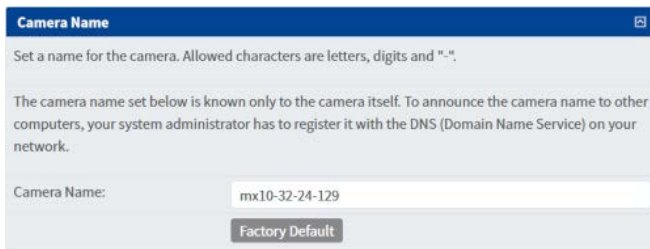
The **Country Settings** dialog box has a blue header with a close icon. The main text says: "Select the timezone that is applicable to the location of the camera." Below this is a "Timezone:" label and two dropdown menus. The first dropdown is set to "Europe" and the second to "Berlin". Below the dropdowns, it says: "Current camera time: 2026-02-12 12:29:07 CET". A hint at the bottom says: "Hint: you can set the camera time in **Admin Menu > Time and Date**."

6. Click on  and in the **Audio Settings** dialog, activate the devices that are available for this camera.



The **Audio Settings** dialog box has a blue header with a close icon. The main text says: "The camera has a built-in microphone and speaker. If you press the camera's **R** key, the camera will announce its network data over the speaker." Below this is the text: "Activate the following devices:". There are two checkboxes: "Microphone" (unchecked) and "Speaker" (checked). A note at the bottom says: "Note: If you need to permanently deactivate the microphone, open **Admin Menu > Speaker and Microphone**, click on **More**, and then on the **disable** link."

7. Click on  and in the **Camera Name** dialog, enter a descriptive camera name.



Camera Name

Set a name for the camera. Allowed characters are letters, digits and "-".

The camera name set below is known only to the camera itself. To announce the camera name to other computers, your system administrator has to register it with the DNS (Domain Name Service) on your network.

Camera Name:

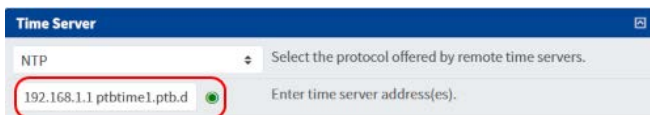
Factory Default

NOTE!

Make sure to record this camera name in the system documentation!

8. Continue clicking on  and do not change any settings until you reach the **Time Server** dialog.

Enter the IP address of your network time servers as provided by your network administrator (e.g. 192.168.1.1 ptbtime1.ptb.de; use spaces to separate multiple addresses).



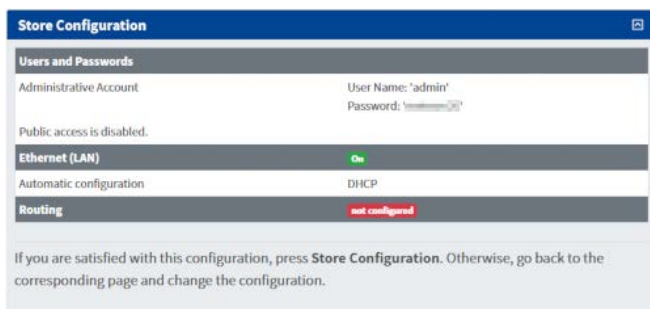
Time Server

NTP Select the protocol offered by remote time servers.

192.168.1.1 ptbtime1.ptb.de Enter time server address(es).

If the time server is working properly, the LED to the right of the field turns green. A red LED indicates that the server does not work properly.

9. Click on  and review the information in the **Store Configuration** dialog. If everything is correct, print the page and include it in the system documentation.



Store Configuration

Users and Passwords

Administrative Account User Name: 'admin'
Password: '*****'

Public access is disabled.

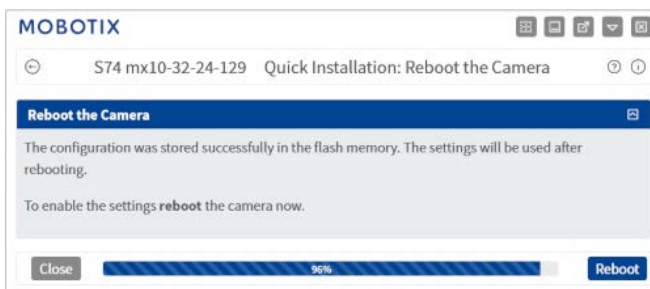
Ethernet (LAN) On

Automatic configuration DHCP

Routing not configured

If you are satisfied with this configuration, press **Store Configuration**. Otherwise, go back to the corresponding page and change the configuration.

10. Click on **Store Configuration** and then on **Reboot**.



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S74 mx10-32-24-129 Quick Installation: Reboot the Camera

Reboot the Camera

The configuration was stored successfully in the flash memory. The settings will be used after rebooting.

To enable the settings **reboot** the camera now.

Close **Reboot**

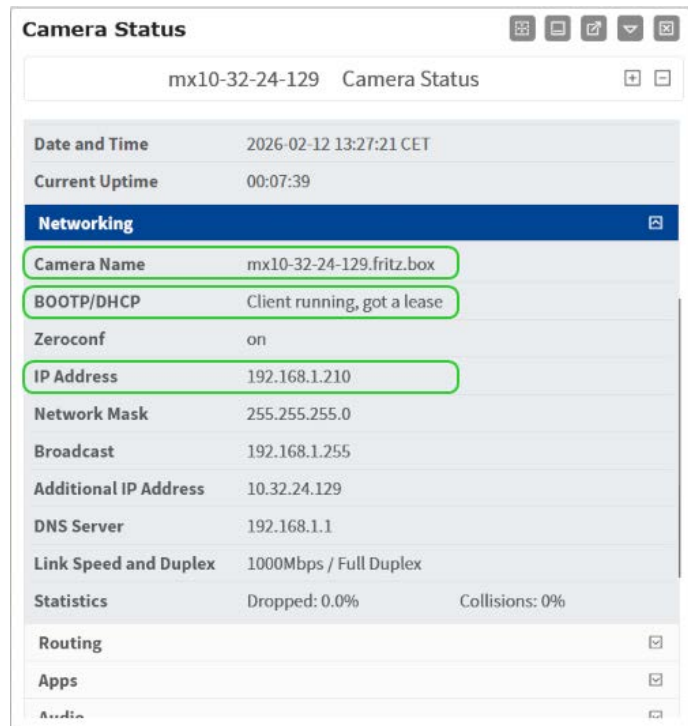
11. Enter the new password you entered in the **Security** dialog when prompted by the camera.

The camera will now reboot; once it is working again, you will see its live image.

Find the "Real" IP Address of the Camera

Since you are still using the `mx10-32-24-129.local` zeroconf address, you need to find out the actual IP address of the camera.

1. Click on the **Show Camera Status** icon .
2. In the **Camera Status** dialog, click on **Networking**.
 - The **Camera Name** entry shows the camera's current fully qualified domain name.
 - The **BOOTP/DHCP** status *Client running, got a lease* shows that the camera properly received an IP address.
 - The **IP Address** entry shows the camera's current address.
3. You can use either the **Camera Name** (e.g. `mx10-32-24-129.fritz.box`) or the IP address (e.g. `192.168.1.210`) to access the camera from now on.
4. Open a new browser tab and enter the address (e.g. `mx10-32-24-129.fritz.box` or `192.168.1.210`), then enter the access credentials (`admin/<your new password>`).



NOTE!

Make sure to record this address in the system documentation together with the camera name!

Automatic Setup using MxManagementCenter

This section describes how to use MxMC to connect the camera and configure its network settings.

MxManagementCenter is a video management software for setting up and using the entire video surveillance system that provides a range of functions for different tasks and user groups. You can download the newest release of MxManagementCenter from the MOBOTIX website (www.mobotix.com > Services > Download Center > Software Downloads, MxManagementCenter section).

Network Settings on the Camera in MxMC

When starting MxManagementCenter for the first time, the configuration wizard opens and automatically starts searching for MOBOTIX cameras. The number of detected cameras is shown next to the **Add Devices** icon.

1. Click on **Add Devices**. The cameras are displayed either in a list or as tiles. Use the List and Tile buttons to change the display mode.



The application automatically monitors and displays the operating status of all cameras using corresponding icons.



EXAMPLE:

-  The camera is not in the same subnet as the computer.
-  The user name and password of the camera are not known.

NOTE!

Using the Bonjour service ([en.wikipedia.org/wiki/Bonjour_\(software\)](https://en.wikipedia.org/wiki/Bonjour_(software))), the application finds not only MOBOTIX cameras on the same subnet, but also in other subnets. Normally, you would not be able to establish any connection to cameras in a different network or subnet.

NOTE!

This is the case, for example, if you are integrating cameras into a network without DHCP server (i.e. with fixed IP addresses) and the IP address range is different from the 10.x.x.x range supported by the cameras in addition to DHCP. MxManagementCenter can automatically configure such a camera so that it is "integrated" into your existing network.

2. Select the camera you want to set up and click on **Edit Network Settings**  at the bottom of the program window. The **Change Network Settings for Selected Devices** dialog opens.
3. Enter the IP address and the subnet mask of the selected camera.



NOTE!

The IP addresses of the other cameras are automatically incremented by 1.

4. Click on **Apply** to apply the settings.

NOTE!

For more information on this feature, please read the MxManagementCenter online help or the Tutorial (see www.mobotix.com > Services > Download Center > Documentation > Brochures & Guides > Tutorials).

Network Settings on the Camera in the Web Browser

1. Use a web browser to access the web interface of the MOBOTIX camera and enter the factory IP address (e.g. 10.16.0.99).

NOTE!

When you access the web interface for the first time, you will need to assign a new password for the admin user.

CAUTION!

If the administrator password is no longer available, the camera must be returned to MOBOTIX for a factory reset.

2. Click on the **Admin Menu** button in the user interface of the camera. The Quick Installation Wizard automatically starts after entering the access credentials of the admin user.

NOTE!

You can also run the Quick Installation Wizard later on (**Admin Menu > Network Configuration > Quick Installation**; see Reference Manual).

3. Enter the network parameters of the camera in the course of the quick installation.

NOTE!

You can also change the network parameters later on by running **Admin Menu > Network Configuration > Quick Installation**.

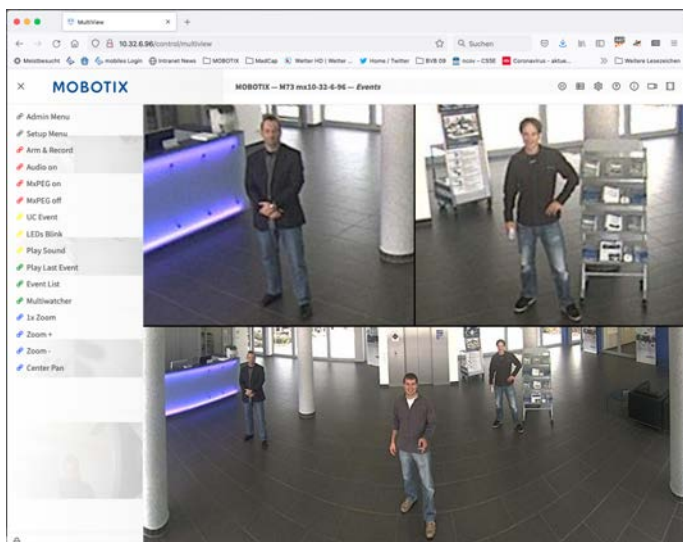
4. Reboot the camera to apply the network settings.

Camera Software in the Browser

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Access the Camera in the Web Browser

Once the power and network connection of the MOBOTIX have been established, you can access the interface of the camera software in a web browser.



- Enter the camera's IP address in the address field of a web browser.

NOTE!

You can find the IP address of the camera, for example, in the camera housing or on the sticker on the packaging.

Basic Settings

NOTE!

You must change the password when logging in for the first time.

CAUTION!

Make sure that you store information on user names and passwords in a secure place.

If you lose the administrator password and cannot access the Administration menu, the password can only be reset at the factory. This service is subject to a service charge.

The Quick Installation Wizard will appear automatically when accessing the Administration Menu for the first time. It provides an easy method to adjust the basic camera settings to the current application scenario. For security reasons, it is highly recommended to change the default administrator password after the camera has been configured properly.

Administering the camera: You can modify the camera configuration in the Administration Menu or the Setup Menu:

- **Admin Menu:** This menu contains the basic configuration dialogs of the camera (e.g. passwords, interfaces, software update).

- **Setup Menu:** This menu contains the dialogs for configuring the image, event and recording parameters. Some of these settings can be changed using the corresponding Quick Controls in the Live screen.

NOTE!

For more information, consult the Reference Manual of the camera (see www.mobotix.com > **Services** > **Download Center** > **Marketing & Documentation** > **User Manuals**).

Maintenance

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Replacing the microSD card

CAUTION!

Risk of equipment damage and data loss.

- Before removing the microSD card, disable recording and reboot the camera.
- Disconnect the camera from the power supply.
- Do not touch the circuit board while replacing the microSD card.
- Ensure that the microSD card is not write-protected.

1. **Deactivate storage:** If storage on microSD card is still activated, deactivate it in the cameras web interface: **Admin Menu > Storage on External File Server / Flash Device**, then reboot the camera.
2. Disconnect the camera's power supply.
3. **Open the SD card housing:** Loosen the threaded plug on the housing ① (e.g. using a suitable coin) and remove the plug.



4. **Unlock the microSD card holder:** Using tweezers, gently press the SD card into the slot ② (as indicated by the arrow) until you hear a click. The card is protruding slightly and can be easily removed with the tweezers.
5. **Remove the microSD card.**
6. **Insert microSD card:** Carefully insert the new microSD card into the slot using tweezers and press it in lightly until it clicks into place.
7. **Activate storage:**
 - Format a new microSD card as outlined in the camera's *Storage on External File Server / Flash Device* online help topic.
 - If the microSD card already is formatted with MxFFS, you can activate storage in **Admin Menu > Storage on External File Server / Flash Device**. After rebooting the camera, recording will automatically resume.
8. **Reboot the camera.**



Cleaning the Camera and Lenses

Clean the camera housing using a mild alcohol-free detergent without abrasive particles.

If lens are dirty from the installation process, clean them using a lint-free cotton cloth. Check the lens focus after cleaning and adjust if required.

To protect the lens protection glass, only use the supplied mounting supplies for disassembly.

Cleaning the lens protection glass

- Use the wide end of the module wrench [M.7, p. 15](#) to remove/install the lens protection glass. The narrow side of the wrench is used to adjust the sharpness (focal length) of the tele lenses.
- You should clean the lens protection glasses and domes regularly using a clean, lint-free cotton cloth. If the dirt is more persistent, add a mild alcohol-free detergent without abrasive particles.
- Make sure you instruct cleaning personnel on how to clean the camera.



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