



Quick Installation

MOBOTIX S74 EN54

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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 > **Support** > **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 camera 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 camera. If a battery is replaced by an incorrect type, the battery can explode.
- This equipment is not suitable for use in locations where children are likely to be present.
- External power supplies must comply with the Limited Power Source (LPS) requirements and share the same power specifications with the camera.
- When using a Class I adapter, the power cord shall be connected to a socket-outlet with proper ground connection.
- 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

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 **Support > 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/EC) as far as they are subject to these regulations (for the RoHS Declaration of MOBOTIX, please see www.mobotix.com, **Support >**

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.

It is the User's responsibility to comply with all applicable local, state, national and foreign laws, rules, treaties and regulations in connection with the use of the Software and Product, including those related to data privacy, the Health Insurance Portability and Accountability Act of 1996 (HIPPA), international communications and the transmission of technical or personal data.

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 security risks in data technology, the following measures are recommended after the installation has been completed:

MxManagementCenter:

- Menu **View > Wizards & Tools > Secure System:**
 - **Change camera factory default password:** ✓
 - **Enable encrypted HTTPS:** ✓
 - **Disable public access:** ✓
 - **User Management** (for all users):
 - **Force Complex Password:** ✓
 - **Log out on Inactivity:** After 5 min

User interface of the camera in the browser:

- **Admin Menu > Network Setup > Web Server:**
 - **Enable MxWeb:** –
 - **Enable intrusion detection:** ✓
 - **Notification threshold:** 10
 - **Timeout:** 60 minutes
 - **Block IP Address:** ✓

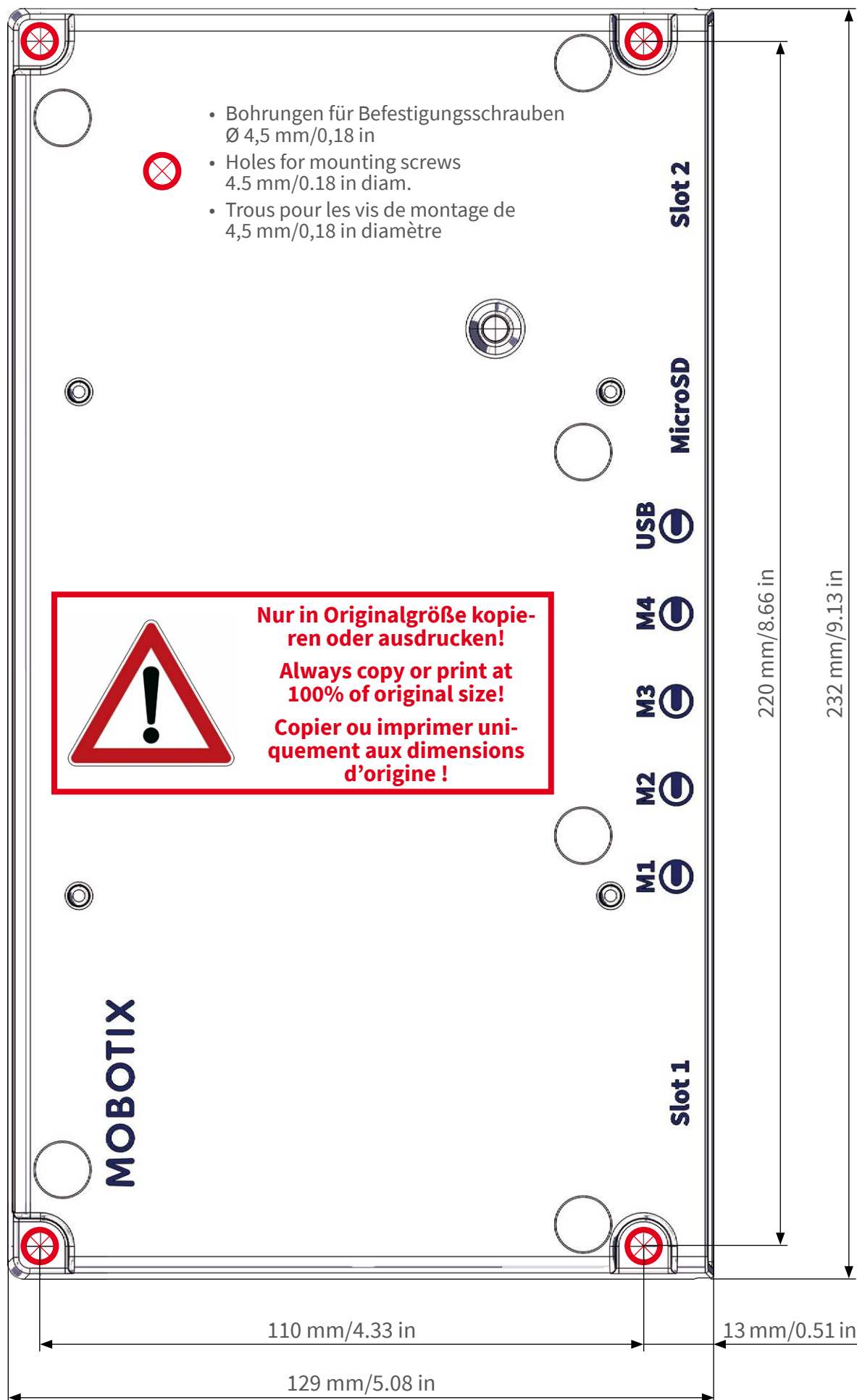
For more information on this new feature, please read the «Cyber Protection Guide» on www.mobotix.com (under Support > Download Center > Documentation > Brochures & Guides > Cyber Security).

Drilling Template

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

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

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



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Scope of Delivery

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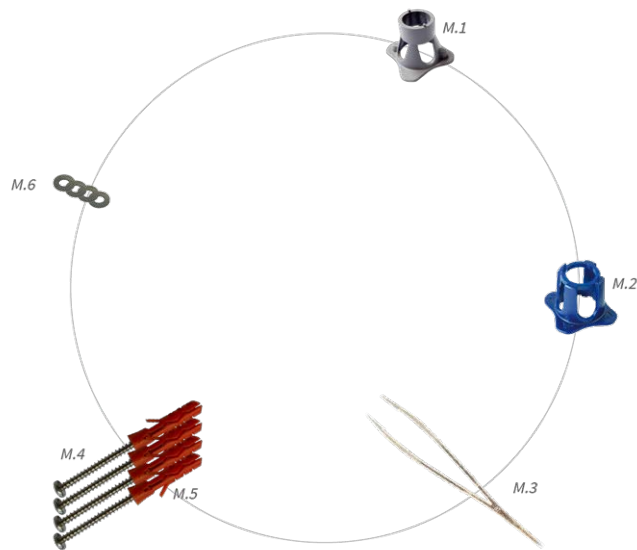
MOBOTIX S74 EN54: Scope of Delivery



Scope of delivery MOBOTIX S74 EN54 Body

Item	Count	Description
1.0	1	MOBOTIX S74 EN54, Camera pre-assembled with S74 Network Slide in Board with RJ45 and VDC power supply
1.1	1	Sticker with IP address of camera
1.2	1	Sticker with EAN number of camera
1.3	1	PT Mount with Multisense module preinstalled
1.4	1	PT Mount with Thermal TR module preinstalled
1.5	1	Mounting supplies (see Mounting Supplies: Scope of Delivery, p. 15)
1.6		SD card 8 GB (installed)
1.7	1	Important Safety Information

Mounting Supplies: Scope of Delivery



Scope of Delivery MOBOTIX S74 EN54 Mounting Supplies

Item	Count	Description
M.1	1	Module wrench (gray)
M.2	1	Lens wrench blue
M.3	1	Tweezers
M.4	4	Wood screw 4.5x60 mm
M.5	4	Dowel S8
M.6	4	Washer

PTMount: Scope of Delivery



Scope of delivery PTMount Multisense

Item	Count	Description
PM 1.0	1	PT-Mount with Multisense module (completely pre-mounted)
PM 1.1	1	Sphere with Multisense module (installed)
PM 1.2	1	Foot (installed)
PM 1.3	1	Base plate (installed)
PM 1.4	1	Swivel ring (installed)
PM 1.5	1	Sealing
PM 1.6	1	Sensor cable 3 m/9.9 ft (installed)
PM 1.7	4	Washer Ø 4.3 mm, stainless steel
PM 1.8	4	Wood screw 4x40 mm, stainless steel
PM 1.9	4	Screw anchor S6
PM 1.10	1	Allen wrench 2.5 mm

PTMount-Thermal: Scope of Delivery



Scope of delivery PTMount-Thermal

Item	Count	Description
PM-T.1	1	Sphere with rotating Thermal/Thermal-TR sensor module (installed)
PM-T.2	1	Foot (installed)
PM-T.3	1	Base plate (installed)
PM-T.4	1	Swivel ring (installed)
PM-T.5	1	Sealing
PM-T.6	4	Sensor cable 3 m/9.9 ft (installed)
PM-T.7	4	Washer Ø 4.3 mm, stainless steel
PM-T.8	4	Wood screw 4x40 mm, stainless steel
PM-T.9	1	Screw anchor S6
PM-T.10	1	Allen wrench 2 mm
PM-T.11	1	Allen wrench 2.5 mm

Technical Specifications

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Hardware

Feature	Properties
Image sensor (color or B&W sensor)	up to 4K UHD 3840x2160, 16:9, 1/1,8"
Light sensitivity	<ul style="list-style-type: none"> ■ Color sensor (day): 0,1 lx @ 1/60s; 0,005 lx @ 1s ■ BW sensor (night): 0,02 lx @ 1/60s; 0,001 lx @ 1s
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
IK protection class	IK10 (housing)
IP / NEMA protection class	IP66 / NEMA 4X
Operating temperature range	-40 to 65 °C/-40 to 149 °F
Min. cold start temperature	-30 °C/-22 °F
Relative Humidity	95 % non-condensing
Internal DVR Storage	Internal microSD card (SDHC/SDXC), 8 GB out of the box, max. 1 TB.
I/Os	S74 IO Slide in Board required
Microphone/Speaker	S74 IO Slide in Board required
Passive infra-red sensor (PIR)	Available with functional module, max. 4.5 Watt (see Functional Modules)
Infra-red illumination	Three functional modules for wide-angle, standard, and tele lenses
Range of infra-red illumination	Up to 30 m/100 ft (may be more depending on scene)
Max. power consumption	max. 25 W
Electrical surge protection	S74 Network Slide in Board with RJ45 and VDC power supply - A (pre-installed), p. 30 required
PoE standard	PoE Plus (802.3at-2009)/Class 4 (Network slide in Board required. See Interface Slide in Boards)
Interfaces	4 sensor / functional modules USB-C 2 Slots for slide in boards (Network, IOs etc.)

Technical Specifications

Hardware

Feature	Properties
Mounting Options	Wall-mountable
Dimensions (height x width x depth)	36 x 232 x 110 mm
Weight without sensor modules	1.130g
Housing	Aluminum, PBT-30GF
Standard accessories	See MOBOTIX S74 EN54: Scope of Delivery
Detailed technical documentation	www.mobotix.com > Support > Download Center > Marketing & Documentation
MTBF	80,000 hours
Certificates	EN 50121-4, EN 55032, EN 55035, EN54-10:2002, EN54-10:2002/A1:2005, 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
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, Zero-conf/mDNS
Manufacturer warranty	5 years

Average Power Consumption

System	Modules	Average power consumption
S74 - Body	Body only	8.1 W

Image and Video Properties

Feature	Properties
Available video codecs	<ul style="list-style-type: none">■ H.264, H.265■ MxPEG+■ MJPEG
Image resolutions	VGA 640x360, XGA 1024x576, HD 1280x720, FullHD 1920x1080, QHD 2560x1440, 4K UHD 3840x2160
Multi streaming	H.264, H.265 with triple streaming
Multicast stream via RTSP	Yes
Max. image H.264 resolution	<ul style="list-style-type: none">■ One thermal sensor: VGA, 640x480■ Two thermal sensors: 2xVGA, 640x480■ One thermal sensor, one optical sensor: 1xVGA, 640x480, 1x 4K UHD, 3840x2160 (8MP)
Max. frame rate	MxPEG: 20@4K, H.264: 30@4K, H.265: 30@4K

General Software Features

Feature	Properties
Software features	<ul style="list-style-type: none"> ■ H.264, H.265 Multistreaming ■ Multicast stream via RTSP ■ Digital pan, tilt, zoom/vPTZ (up to 8x zoom) ■ Genetec protocol integration ■ Custom 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) ■ MOBOTIX MessageSystem
ONVIF compatibility	Profile G, S, T
Master/Slave functionality	Yes
Remote alarm notification	email, network message (HTTP/HTTPS), SNMP, MxMessageSystem
DVR/image storage management	<ul style="list-style-type: none"> ■ On internal microSD card ■ On external USB and NAS devices ■ Different streams for live image and recording ■ MxPEG+ only ■ MxFFS with buffered archive, pre- and post-alarm images, storage monitoring with error reporting

Feature	Properties
Camera and data security	User and group management, SSL connections, IP-based access control, IEEE 802.1X, intrusion detection, digital image signature
Digitally signed firmware	Yes (to prevent firmware file tampering)

Video Analysis

Feature	Properties
Video motion detection	Yes
MxActivitySensor (Optical sensor only)	Version 1.0, 2.1
MxAnalytics (Optical sensor only)	Heatmap, people counting
MOBOTIX App support	
Multiple Analytics functions simultaneously	Not recommended

Video Management Software

Feature	Properties
MOBOTIX HUB	Yes www.mobotix.com > Support > Download Center > Software Downloads
MxManagementCenter	Yes (latest version recommended) www.mobotix.com > Support > Download Center > Software Downloads
MOBOTIX Cloud	Streaming & Events supported
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

Sensor Modules

Dimensions of Sensor Modules

Dimensions (height x width)	58 x 42,5 (50 mm)
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Weight of Sensor Modules

Sensor Module	Weight
Standard Sensor Modules	max. 150g
Functional Modules	max. 150g
Thermal Sensor Module	380g
PTMount Thermal	890g

Supported Image Sensor Modules

Sensor Module	Order Code
Sensor module with standard 45° lens	Mx-O-M7SA-8DN100*
	Mx-O-M7SA-8D100
	Mx-O-M7SA-8N100*
	Mx-O-M7SA-4DN100
Sensor module with tele lens 30°	Mx-O-M7SA-8DN150*
	Mx-O-M7SA-8D150
	Mx-O-M7SA-8N150*
	Mx-O-M7SA-4DN150
	Mx-O-M7SA-8L150

Sensor Module	Order Code
Sensor module with tele lens 15°	Mx-O-M7SA-8DN280*
	Mx-O-M7SA-8D280
	Mx-O-M7SA-8N280*
	Mx-O-M7SA-4DN280
	Mx-O-M7SA-8L280
Sensor module with tele lens 8°	Mx-O-M7SA-8D500
	Mx-O-M7SA-8N500
	Mx-O-M7SA-8L500
Sensor module with wide angle lens 60°	Mx-O-M7SA-8DN080*
	Mx-O-M7SA-8D080
	Mx-O-M7SA-8N080*
	Mx-O-M7SA-4DN080
Sensor module with super wide angle lens 95°	Mx-O-M7SA-8DN050*
	Mx-O-M7SA-8D050
	Mx-O-M7SA-8N050*
	Mx-O-M7SA-4DN050
Sensor module with ultra wide angle lens 120° 4K	Mx-O-M7SA-8DN040*
	Mx-O-M7SA-8D040
	Mx-O-M7SA-8N040*
	Mx-O-M7SA-4DN040
	Mx-O-M7SA-8L040
Sensor module with hemispheric lens 180° 12MP	Mx-O-M7SA-12DN016*

*also available in black.

NOTE! Please consider any lens-related restrictions. For example, license plate recognition is not possible with a hemispheric lens.

For a complete list of lenses for MOBOTIX cameras, please see the Lens Table document for MOBOTIX 7 models on www.mobotix.com > [Support](#) > [Download Center](#) > [Marketing & Documentation](#) > [Lens Table](#).

Supported Thermal Sensor Modules

CAUTION! Do not remove or replace the pre-installed thermal sensor module included in the scope of delivery. Otherwise, the camera will lose the EN54 certification.

Technical Specifications

Sensor Modules

Sensor Module	Order Code
CIF Thermal Radiometry 45° x 35°	Mx-O-M7SB-336RS100
CIF Thermal Radiometry 25° x 19°	Mx-O-M7SB-336RS150
CIF Thermal Radiometry 17° x 13°	Mx-O-M7SB-336RS280
VGA Thermal Radiometry 90° x 69°	Mx-O-M7SB-640RS050
VGA Thermal Radiometry 69° x 56°	Mx-O-M7SB-640RS080
VGA Thermal Radiometry 45° x 37°	Mx-O-M7SB-640RS100
VGA Thermal Radiometry 32° x 26°	Mx-O-M7SB-640RS150

The **Thermal Radiometry (TR)** variants automatically alarm when the temperature exceeds or falls below defined limits. This is crucial for the detection of fire or heat sources. Up to 20 different temperature events can be configured simultaneously in so-called TR windows or over the complete sensor image over a temperature range of –40 to 550 °C/–40 to 1022 °F .

Features Thermal Image Sensors

Feature	Properties
Thermal sensitivity	Typ. 50 mK, IR range 7.5 to 13.5 µm
Temperature measurement range	–40 to 550 °C/–40 to 1022 °F
Thermal image sensor	Uncooled microbolometer, CIF: 336 x 256 pixels / VGA: 640 x 480
Dimensions	PT mount Thermal 336/640: 98.5mm x 106mm diam, 620g (including PT Mount Sensor module alone: 73mm (+4.4mm front glass) x 57mm diam (63mm front glass), 310g
Max. image size	Can be scaled up to 3072 x 2048 (6MP), automatically scaled to size of MX sensor module

Feature	Properties	
Max. frame rate	9fps	
Pixel pitch	17µm	
Field of view	Sensor Module	FoV
	336 xx 100	45° x 35°; 2.27mr, focal 7.5mm, f/1.25
	336 xx 150	25° x 19°; 1.31mr, focal 13mm, f/1.25
	336 xx 280	17° x 13°; 0.90mr, focal 19mm, f/1.25
	640 xx 050	90° x 69°; 2.27mr, focal 7.5mm, f/1.4
	640 xx 080	69° x 56°; 1.89mr, focal 9mm, f/1.4
	640 xx 100	45° x 37°; 1.31mr, focal 13mm, f/1.25
	640 xx 150	32° x 26°; 0.90mr, focal 19mm, f/1.25
Operating temperature	-40° to +65°C / 40° to 149°F; 5% to 95% non-condensing	
Power consumption	CIF: 1W	
	VGA: 1.2W	
MTBF	80,000 hours	
IP rating	IP67	
IK rating	IK04	
Material	PBT-30GF (housing); Germanium (lens)	
Software (included)	Video management software MxManagementCenter	

Supported Functional Modules

Functional Module	Order Code	Remark
Functional MultiSense module (pre installed)	Mx-F-MSA	with PIR sensor, temperature sensor, illumination sensor and status LED

S74 Network Slide in Board with RJ45 and VDC power supply - A (pre-installed)

Order Code	Mx-F-S7A-RJ45-VDC
Power Supply	12-24 V DC only - recommended 2,5-1,5A 24Volt power supply unit required
Network	RJ45 / Ethernet 1000Base-T

Allowed cable dimensions for cables connected to the PCB terminals

AWG	26 - 20
Rigid	0.14mm ² - 0.5mm ²
Flexible	0.14mm ² - 0.5mm ²
Flexible with ferrule	0.25mm ² - 0.34mm ²

Dimensions

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

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

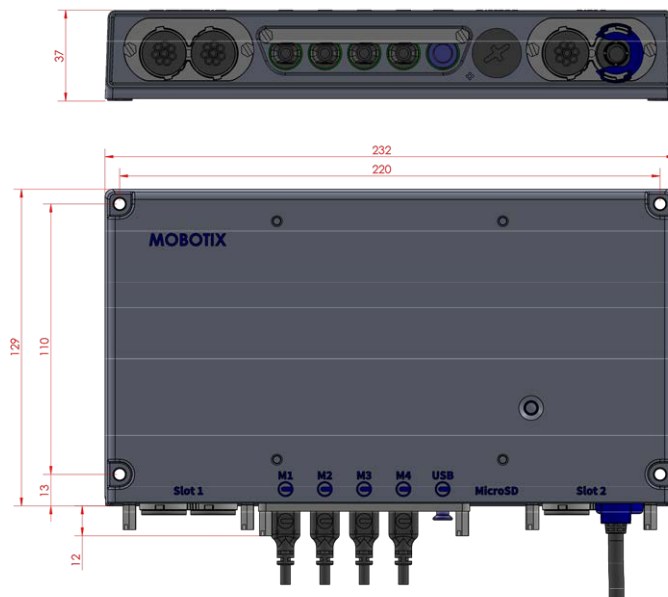


Fig. 1: MOBOTIX S74 EN54: All measurements in mm

PTMount – Dimensions

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

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

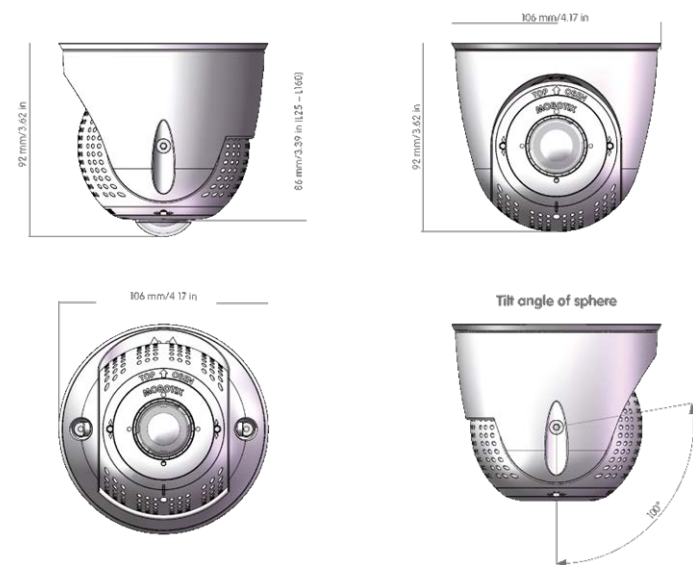


Fig. 2: PTMount

PTMount-Thermal – Dimensions

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

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

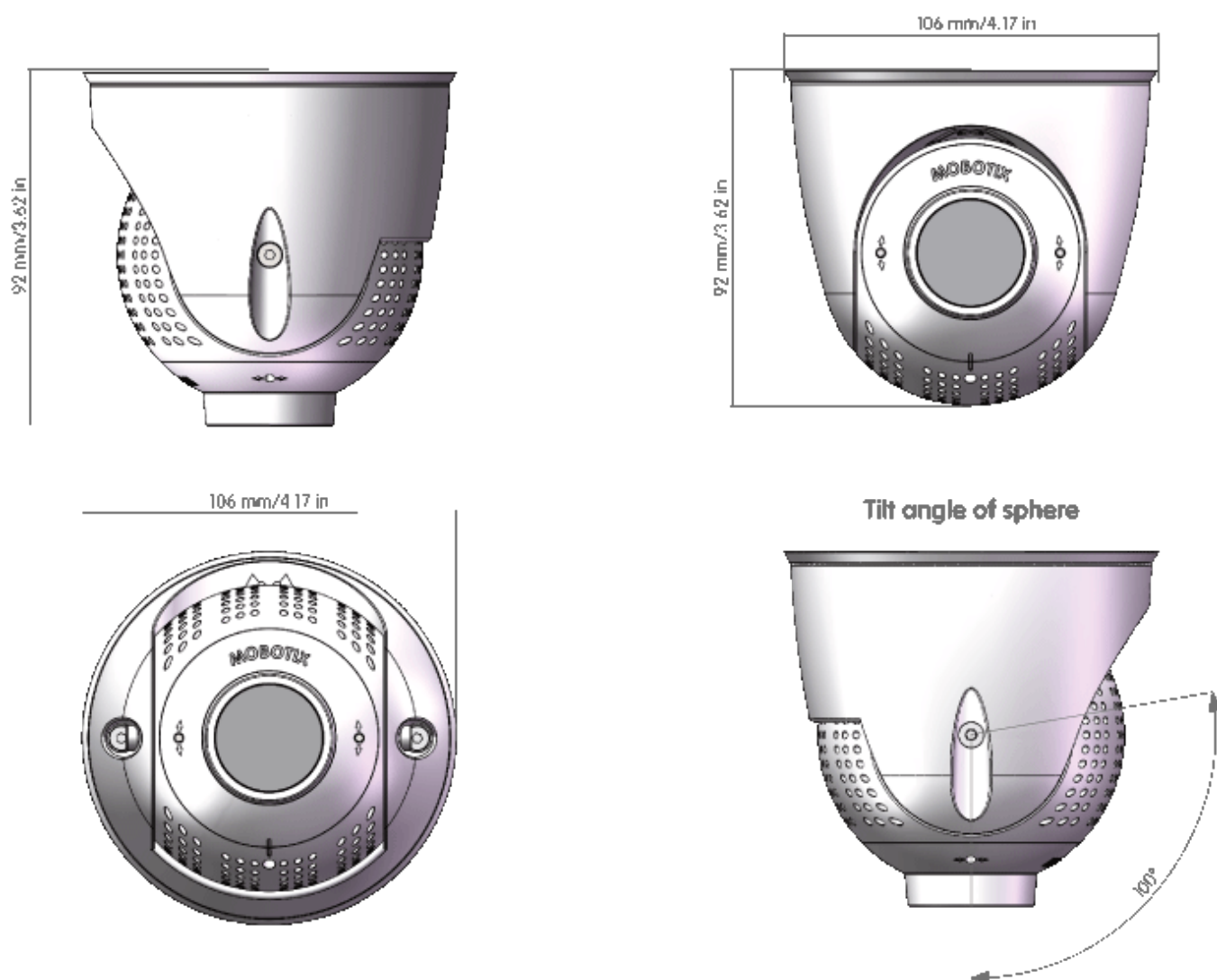


Fig. 3: PTMount-Thermal

Mounting

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Before Mounting the Camera

Before mounting the MOBOTIX S74 EN54, 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?

CAUTION! Installation only on flat surface!

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 > [Support](#) > [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.

NOTE! 24Volt power supply is required.

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 Cable Laying

- **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.
- Only original MOBOTIX cables should be used to connect the sensor modules, patch cables and USB cables in order to guarantee weather resistance according to IP66. The plugs supplied must be used if additional cables are required.

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.

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

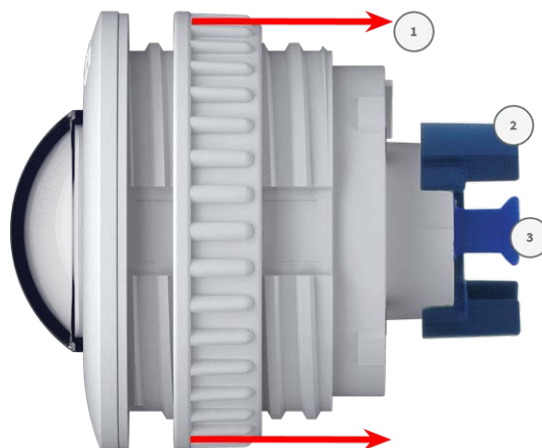
WARNING! Make sure the power supply to the camera is disconnected before installing or replacing sensor modules.

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

NOTE! One additional optical sensor or thermal sensor can be optionally added without losing the EN54 certification (see [Supported Image Sensor Modules](#), p. 26).

Preparing the Sensor Modules

Remove the plastic nut① from the sensor modules, remove the bayonet catch② by rotating it counter-clockwise, then remove the blue rubber plug③.



Proceed by Installing the Sensor Modules

■

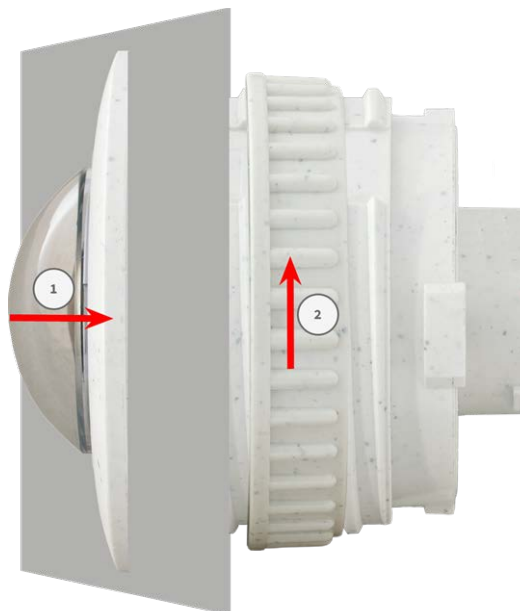
[Installing Sensor Module without Mounts, p. 38](#)

■ [Installing Sensor Module with PTMount, p. 39](#)

■ [Installing Sensor Module PTMount-Thermal, p. 46](#)

Installing Sensor Module without Mounts

1. **Mount the sensor module:** Insert sensor module into hole (43 mm)① and tighten the plastic nut② 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 until it doesn't go in any further.



CAUTION! 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 screw anchors [PTMount: Scope of Delivery, p. 16](#).



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.



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



Mounting

Installing Sensor Modules

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



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

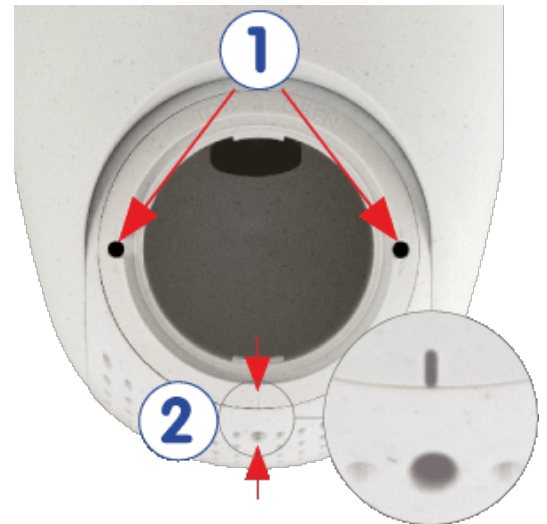


- Guide the sensor cable from the back into the foot and the sphere.

- 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 insert① , then rotate the insert so that the small bar opposite of the **TOP/OBEN** label points to the hole of the grub screw② .



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/OBEN** label on the insert is pointing upwards. If this is not the case, loosen the two fastening screws using the 2.5 mm Allen wrench and rotate the insert.



Installing Sensor Module PTMount-Thermal

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-Thermal 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. Use the base plate as drilling template and drill the holes for the base plate and insert the screw anchors [PTMount-Thermal: Scope of Delivery, p. 17](#).



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. Attach the base plate and the swivel ring using the supplied wood screws and washers.
When tightening the screws, make sure that you can still rotate the swivel ring by hand.



7. Guide the sensor cable through the swivel ring and the base plate.



Mounting

Installing Sensor Modules

8. 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.



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



10. Make sure that the **MOBOTIX** label on the insert is pointing upwards. If this is not the case, loosen the two fastening screws with the 2 mm Allen wrench and rotate the insert. Lightly tighten the two fastening screws.



Mounting the Camera

You can mount the S74 EN54 to any even surface.

Before mounting the MOBOTIX S74 EN54 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.

Before mounting the camera, make sure that a network connection with power supply according to the PoE Plus (802.3at-2009) standard is available at the mounting position (see [Connecting the Camera to the Network](#), p. 53).

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

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

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).

Step by Step

1. **Drill the holes:** Mark the holes for drilling using the drilling template (see [Drilling Template](#), p. 11). When drilling, use a 8 mm drill bit and drill holes with at least 60 mm/1.2" depth.

Mounting

Connecting Module Cables to the Camera

2. Fully push the dowels [M.5, 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.4, p. 15](#) with one washer [M.6, p. 15](#) each and the Phillips screwdriver to mount the plate to the wall.



CAUTION! Install on flat surface only.

Connecting Module Cables to the Camera

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

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

An optical sensor or a 2nd TR sensor can be optionally added without losing the EN54 certification.

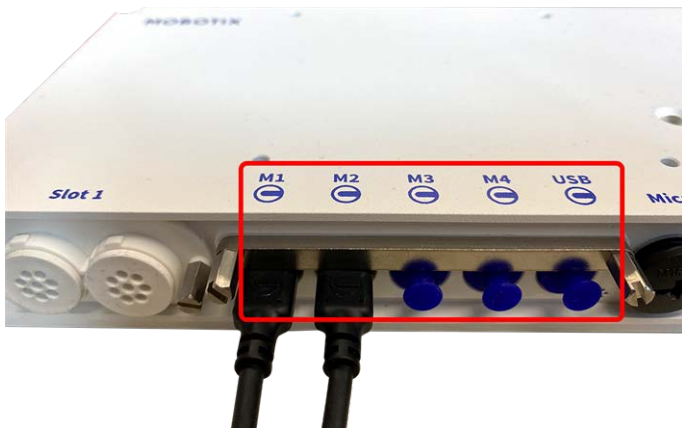
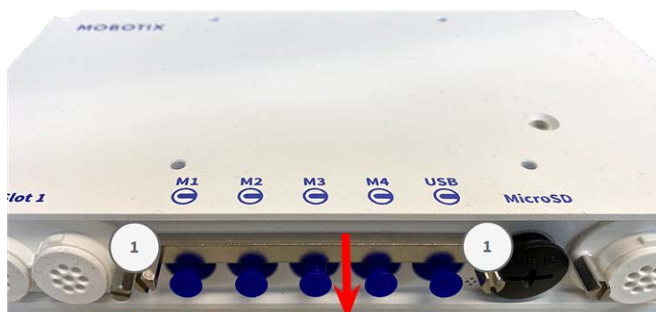


Fig. 4: 4 Module Connector Ports and 1 USB-C interface

Step by Step

1. Use a screwdriver to loosen both bolt screws① and then pull of the module latch.



2. Remove the blue rubber plug① from the module connector.



3. Plug the module cable into the module connector① so that the small lug② plug fits into the module connector.



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

Mounting

Connecting Module Cables to the Camera

4. Fasten the module latch by fastening the two bolt screws shown below.



5. Repeat steps 1 to 5 to connect additional modules.

Sensor Module Combinations

CAUTION!

- Be sure to use the pre-installed thermal sensor module included in the scope of delivery. Otherwise, the camera will lose the EN54 certification.
- A maximum of two functional modules can be used.



You can use the following combinations of sensor modules, thermal, and functional modules on the MOBOTIX S74 EN54:

Module	Module Connectors				Comments
	M1	M2	M3	M4	
Optical Sensor Modules					
all optical modules	yes	yes	no	no	
Thermal Sensor Modules					

Module	Module Connectors				Comments
	M1	M2	M3	M4	
all A -Variants	no	no	yes	no	e. g. Mx-O-M7SA-640R050
all B -Variants	yes	yes	yes	no	e.g. Mx-O-M7SB-640R050
Other Functional Modules					
Mx-F-MSA	yes*	yes*	yes	yes*	MultiSense module * on M1 & M2 without noise detection

Connecting the Camera to the Network

Network and DC power supply of the camera are established via the pre-installed S74 Network Slide in Board with RJ45 and VDC power supply according to EN54-4.

NOTE!

- An EN54-4 certified power supply must be used.
- The PoE switch must provide Class 4 according to PoE Plus (802.3at-2009) as well as the 100/1000 Mbps Ethernet interface of the camera.
- The maximum length of the network cable for remotely supplying power is 100 m (300 ft).

Mounting

Connecting the Camera to the Network



Connecting the S74 Network Slide in Board with RJ45 socket

1. Remove the white rubber plug from the RJ45 network connector.
2. Plug the network cable of the camera into the network connector.
3. Press the plug in firmly until the blue sealing ring clicks into place.



Operating the Camera

This section contains the following information:

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Network Settings on the Camera in MxMC	62

Getting Started

You can use the MOBOTIX S74 EN54 with any current browser – or with MxManagementCenter.

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

1. **Connect the camera to the network.** The network cable will also provide power to the camera.
 1. **Establish a connection to the camera and adjust the network settings if required:** By factory default, MOBOTIX cameras are booting as DHCP client with an additional fixed IP address in the 10.x.x.x range (e.g., 10.16.0.128). Local computer networks usually have IP addresses in the 172 or 192 ranges. Depending on whether a DHCP server is present on the local network or if the network has been set up to use fixed IP addresses, there are several possibilities for establishing a connection to the camera and to change its [Network Settings, p. 59](#):
 - **Network with dynamic IP addresses**

Using a browser: If you know the IP address that the DHCP server assigned to the camera, simply enter that address in the browser address bar to directly connect to the camera

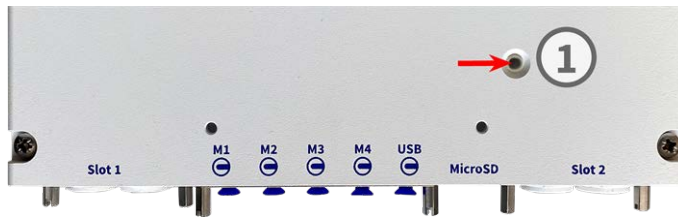
Using MxManagementCenter: With MxManagementCenter, you can show and integrate the camera without having to know its current IP address.
 - **Network with static IP addresses**

In order to access the camera, it must have an IP address within the range of the local network. To set the camera's network parameters, you can use one of these methods:

Manually using a web browser: You may have to adjust the network settings of your computer.
 - **Automatically using MxManagementCenter:** The camera is displayed in MxManagementCenter although the IP address is not part of the local network, allowing you to reconfigure its settings.
 2. **Configure camera:** You can use the user interface of the camera in a browser or in MxManagementCenter.

LED states

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!

Prepare the camera

1. Disconnect the camera's power supply.
2. Remove the black cover screw^① with a screwdriver.



Using the boot menu

After establishing the power supply the red LED on top of the camera body lights up 5 to 10 seconds and will stay on for 10 seconds.

1. Take a suitable tool for operating the boot menu (e.g. the tweezers [M.3, p. 15](#)).
2. Reconnect the power supply of the camera.

Operating the Camera

Boot Options of the Camera

3. Press the key by inserting the tool into the hole② . 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.

4. **Switch the boot option:** Press the key (< 1 sec). After the last boot option, the camera returns to the first boot option (LED flashes once).

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	Recovery System	Starts the camera with the recovery system, e.g., in order to recover from a failed update of the camera software.	Alarm Sound

*Only on cameras with audio option and installed speaker.

5. **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 above.

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

NOTE!

Starting the Camera With Factory Defaults or an Automatic IP Address (DHCP)

The configurations loaded when using the boot options 2 and 3 will not be automatically saved to the camera's flash memory. Upon starting the camera the next time, the camera will use the last configuration it stored. You can store the configuration in the camera's flash memory using the **Admin Menu > Store** command.

CAUTION!

Note that you can restore specific parts of the camera configuration afterward 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

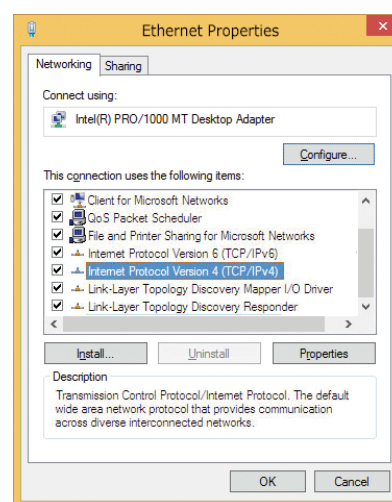
Once the camera has been connected to the network, you need to set up the MOBOTIX camera's network interface accordingly. This step involves setting up and checking the network parameters of the camera. If your network has an active DHCP server or if it is already running on a 10.x.x.x network with a 255.0.0.0 network mask) you do not need to change the camera's network parameters. You can directly access the camera. If neither your network nor your computer use an IP address in the 10.x.x.x network (e.g. a 192.168.x.x or 172.x.x.x network), you should follow one of the following methods for changing the camera's network parameters:

- Manual setup
- Automatic setup using MxManagementCenter

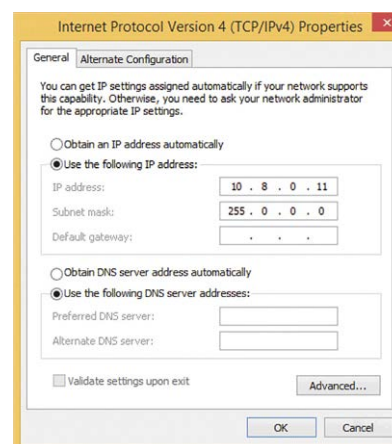
NOTE! For the following examples, we will use a camera with the factory IP address 10.16.0.99. Replace this IP address with the IP address of your camera. You will find this address on a small sticker on the camera. Make sure that the IP addresses used in the following examples are not used by any other devices on your network.

Windows

1. Open the Windows **Control Panel > Network and Internet > Network and Sharing Center > Change Adapter Settings > Ethernet.**



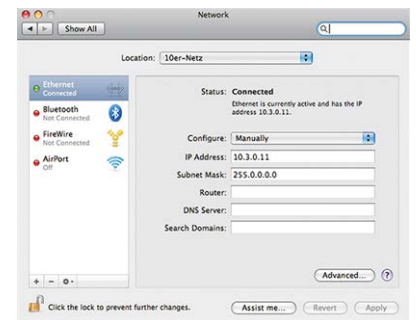
2. Right-click on the relevant network adapter and select **Properties.**
3. Open the properties of **Internet Protocol Version 4 (TCP/IPv4).**



4. Activate **Use the following IP-address.** Enter an IP address in the 10.x.x.x range in this field (e.g. 10.16.0.11).
5. Click on **OK** to apply the settings.

Mac

1. Open **System Settings > Network**.



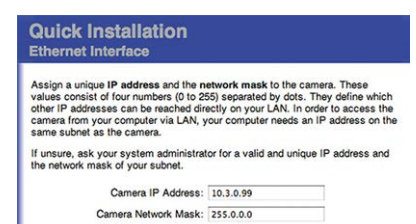
2. Click on **Ethernet** and in the **Configuration** field, select the *Manual* list entry and enter an IP address in the 10.x.x.x IP address range (e.g., 10.16.0.11).
3. Click on **Apply** to apply the settings.

Linux / Unix

1. Open a terminal as `root` user.
2. Enter the following command: `ifconfig eth0:1 10.16.0.11`.
3. The computer now has the additional IP address 10.16.0.11.

Network Settings on the Camera in the Webbrowser

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).



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

NOTE! Factory access credentials:

User name:admin

Password:meinsm

NOTE! You can also run the Quick Installation 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**.

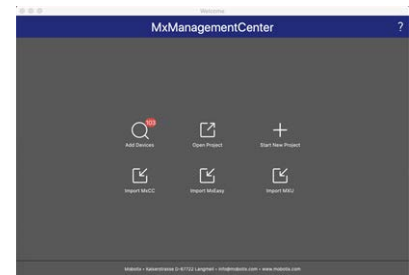
4. Reboot the camera to apply the network settings.

Network Settings on the Camera in MxMC

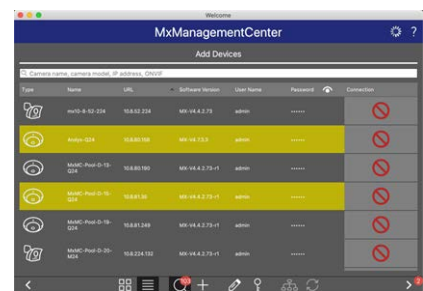
MxManagementCenter is a video management software for setting up and using the entire video surveillance system that provides a range of functions for different tasks and user groups. You can download the newest release of MxManagementCenter from the MOBOTIX website (www.mobotix.com > Support > Download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

When starting MxManagementCenter for the first time, the configuration wizard opens and automatically starts searching for MOBOTIX cameras. The number of found cameras is shown as a counter next to the **Add Devices** icon. This number is updated automatically if the number of MOBOTIX cameras on the network has changed (i.e., by connecting new/disconnecting existing cameras).



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 > Support > Download Center > Documentation > Brochures & Guides > Tutorials).

Camera Software in the Browser

When recording images or video sequences, you can choose to store either the visible image area of the live image or the full sensor image. This also allows examining the parts of an image or video that had not been visible in the real-time image section on display at the time of the recording.

Instead of using a web browser, you can also download the free MxManagementCenter from the MOBOTIX website (www.mobotix.com > Support), which allows displaying multiple cameras on one monitor, allows for comfortably searching and evaluating the alarm video clips with audio and provides alerting features. For mobile iOS and Android devices, the free-of-charge MOBOTIX MOBOTIX LIVE App is available.

This section contains the following information:

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Further Information74

Access the camera's website in the browser

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

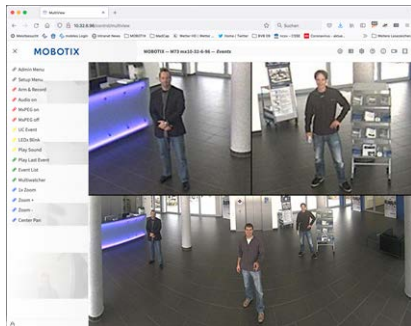


Fig. 5: The interface of the camera software

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

NOTE! Make sure to copy the IP address camera from the back of the camera housing or from the sticker.

Basic Settings

Password for the Administration Menu: Accessing the administration area of the camera (Admin Menu button) in the browser is only possible after entering a user name and password.

- **Default user name:** admin
- **Default password:** meinsm

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

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.

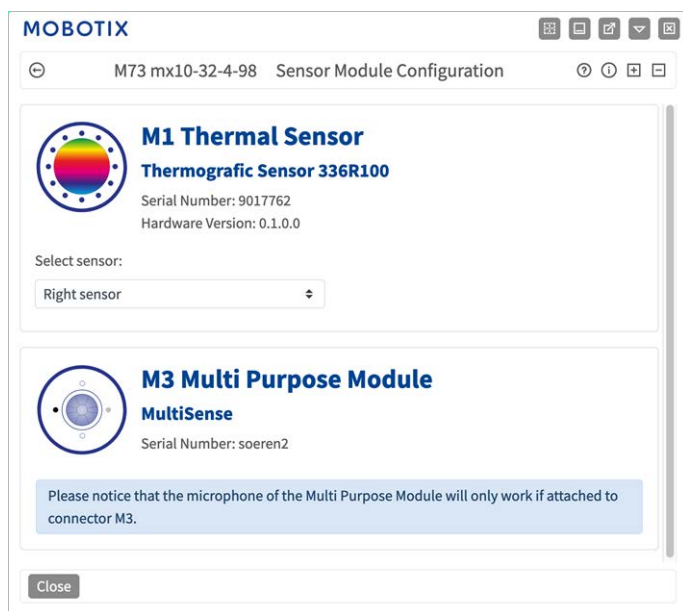
Enter the user name and password exactly as shown above. Note that all entries are case-sensitive.

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.

Configuring Sensor Modules



Using different combinations of sensor modules of the MOBOTIX S74 EN54 will have an influence on the display modes and configuration variants that are available.

An MOBOTIX S74 EN54 will automatically check and verify the installed sensor modules upon its first start and at every reboot thereafter (e.g., focal length, Day or Night variant). Please note the following:

- A Thermal Sensor Module, must be attached to connector **M1 (Thermal Sensor)**.
- If only one sensor module is attached, the camera will behave like a mono camera (i.e., there is no automatic Day/Night switching).
- If the modules are not exchanged within the first 12 operating hours, the camera will store the information of new sensor modules in the camera configuration.
- The camera will check the configuration on every reboot to see if the stored sensor modules are still present. If changes of the sensor module configuration have been detected (e.g., if a sensor module had to be replaced), the camera will show a corresponding message in the live image.

If required, the module configuration can be adjusted, e.g. you can define in which camera image (left or right) the sensor module should be displayed in a double image display.

1. Got to **Admin Menu > Hardware Configuration > Sensor Module Configuration**
2. Select the corresponding sensor module types

Do the **Sensor Module Configuration** in the following cases:

- **Switching the displayed camera images:** You want to show the left-hand camera image on the right (and vice versa), without having to physically swap the module connectors at the camera itself.
- **Exchanging sensor modules:** In this case, the MOBOTIX S74 EN54 will display a message box and will log a system message to inform you that sensor modules have been exchanged .

CAUTION! Exchanging sensor modules may result in the loss of EN-54 certification.

- **Adding/activating sensor modules:** You can activate modules that had been deactivated before.
- **Switching off/removing sensor modules:** If required, you can deactivate connected modules in this dialog.

For more information, consult the Reference Manual of the camera.

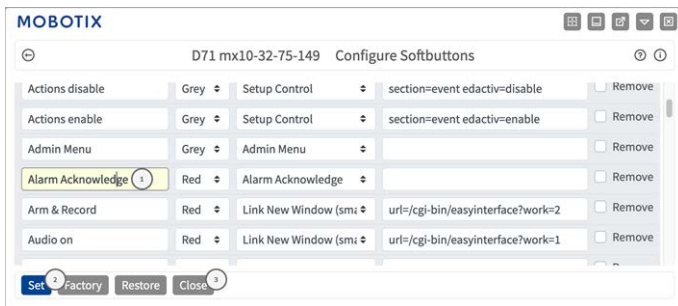
EN54 Compliant Camera Configuration

Create Visual Alarm Profile

The screenshot shows the 'LED Configuration' interface. At the top, there's a 'LED main switch' section with a dropdown menu set to 'Visual Alarm' (marked with a circled 1). Below this is a 'Set all LEDs' section with a dropdown set to 'Differently'. The main part of the interface is 'LED Order and Settings', which lists three modules: 'Camera: On Board LED', 'M1: Thermal Sensor', and 'M2: Optical Image Sensor'. Below these is 'M3: Multi Purpose Module'. For 'M3', the 'Color' is set to 'Red' (marked with a circled 2) and the 'Setting' is 'Off'.

1. Go to **Admin Menu > Camera Administration > LED Configuration**.
2. In section LED Main Switch set **LED Main Switch**① to **Visual Alarm**.
3. In section Order and Settings set **Multi Purpose Module**② to **Color: Red**.

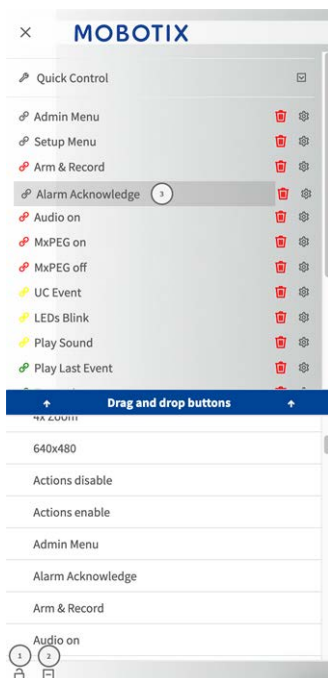
Set an Alarm Acknowledge Softbutton



1. Go to **Admin Menu > Page Administration > Softbuttons**.
2. Optionally rename the "Acknowledge" button to "Alarm Acknowledge"^①.
3. Click **Set**^② to confirm the setting temporarily or **Close**^③ to permanently store the configuration of the camera.

Also see [Edit the Softbutton Menu, p. 70](#).

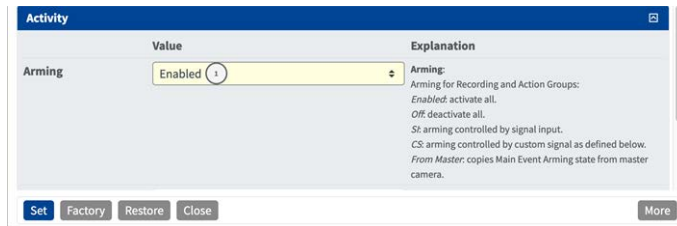
Edit the Softbutton Menu



1. Click on the lock icon to unlock the main menu^①
2. Click on the plus icon^② to display all available softbuttons.
3. Drag and drop the Alarm Acknowledge Button to the desired position in the Softbutton Menu^③.

Also see [Set an Alarm Acknowledge Softbutton, p. 70](#).

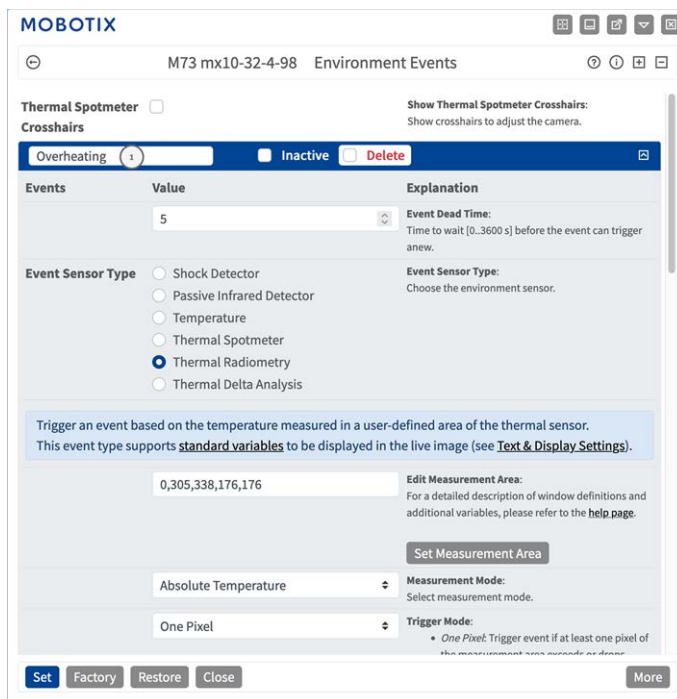
Arming the Camera



The screenshot shows a window titled "Activity" with a table containing two columns: "Value" and "Explanation". The "Value" column has a dropdown menu set to "Enabled" with a circled "1" next to it. The "Explanation" column contains text about arming for recording and action groups, including options for "Enabled", "Off", "St", "CS", and "From Master". At the bottom of the window are buttons for "Set", "Factory", "Restore", "Close", and "More".

1. Go to Setup **Menu > General Event Settings**.
2. In section Activity set Arming to **Enabled**^①.

Creating Thermal Events



The screenshot shows the MOBOTIX "Environment Events" configuration window. It features a "Thermal Spotmeter Crosshairs" section with a checkbox and a "Show Thermal Spotmeter Crosshairs" instruction. Below this is a table with "Events", "Value", and "Explanation" columns. The "Events" column has a dropdown set to "Overheating" with a circled "1". The "Value" column has a dropdown set to "5". The "Explanation" column contains text about event dead time and sensor type. Below the table are radio buttons for "Event Sensor Type" including "Shock Detector", "Passive Infrared Detector", "Temperature", "Thermal Spotmeter", "Thermal Radiometry" (selected), and "Thermal Delta Analysis". There is also a text input field for "0,305,338,176,176" and a "Set Measurement Area" button. At the bottom are buttons for "Set", "Factory", "Restore", "Close", and "More".

1. Go to **Setup Menu > Event Control > Event Overview**.
2. In section Environment Events click Edit to define a profile.
3. Enter a meaningful name^① for the Event Profile.
4. As Event Sensor Type select Thermal Radiometry.

NOTE! Thermal Sensor Types and their configurable parameters are only available if a suitable thermal image sensor has been attached and is running properly.

5. Configure the event profile according to your requirements.
For more information please see the Camera Online Help.

Configuration of an Action Group

CAUTION! To use events, trigger Action Groups or record images the general arming of the camera must be enabled ([http\(s\)/<camera IP address>/control/settings](http(s)/<camera IP address>/control/settings))

An Action Group defines which action(s) is (are) triggered by the event.

1. In the camera web interface, open: **Setup Menu / Action Group Overview** ([http\(s\)://<camera IP address>/control/actions](http(s)://<camera IP address>/control/actions)).

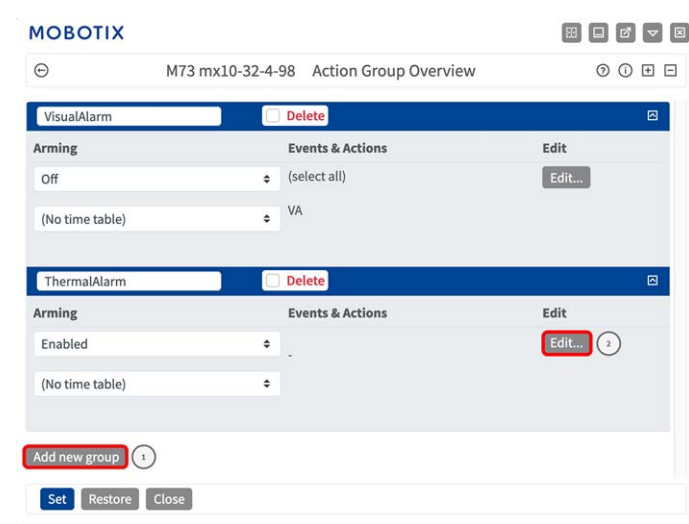


Fig. 6: Defining Action Groups

2. Click **Add new group**^① and give a meaningful name.
3. Click **Edit**^②, to configure the group.

MOBOTIX M73 mx10-32-4-98 Action Group Details

General Settings	Value	Explanation
Action Group	ThermalAlarm	Name: The name is purely informational.
	Enabled	Arming: Controls this action group: Enabled activate the group. Off deactivate the group. S2 group armed by signal input. CS group armed by custom signal as defined in General Event Settings .
	(No time table)	Time Table: Time table for this action profile (Time Tables).
Event Selection	(select all) (select none) Environment: Overheating (Image Analysis: VM)	Event Selection: Select the events which will trigger the actions below. Use (Ctrl) Click to select more than one event. Events in parentheses need to be activated first.
Action Details	5	Action Deadline: Time to wait (0..3600 s) before a new action can take place.
	Simultaneously	Action Chaining: Choose how the status of each subaction influences the execution of all others. Simultaneously: All actions are executed simultaneously. Simultaneously until first success: Simultaneous execution, but as soon as one action succeeds (i.e. has been completed or the phone is picked up), all others are terminated. Consecutively: All actions are executed in the specified order. Consecutively until first success: Consecutive execution, but as soon as one action succeeds, the following actions are not executed. Consecutively until first failure: Consecutive execution, but as soon as one action fails, the following actions are not executed.

Actions	Value	Explanation
Add new action		

Set Factory Restore Close

1. Enable **Arming**③ of the Action Group.
2. Select your message event in the **Event selection** list④ . To select multiple events, hold the shift key.
3. Click **Add new Action**⑤ .
4. Select **Visual Alarm: Red Permanent** from list **Action 1**⑥ .

MOBOTIX M73 mx10-32-4-98 Action Group Details

General Settings	Value	Explanation
Action Group	ThermalAlarm	Name: The name is purely informational.
	Enabled	Arming: Controls this action group: Enabled activate the group. Off deactivate the group. S2 group armed by signal input. CS group armed by custom signal as defined in General Event Settings .
	(No time table)	Time Table: Time table for this action profile (Time Tables).
Event Selection	(select all) (select none) Environment: Overheating (Image Analysis: VM)	Event Selection: Select the events which will trigger the actions below. Use (Ctrl) Click to select more than one event. Events in parentheses need to be activated first.
Action Details	5	Action Deadline: Time to wait (0..3600 s) before a new action can take place.
	Simultaneously	Action Chaining: Choose how the status of each subaction influences the execution of all others. Simultaneously: All actions are executed simultaneously. Simultaneously until first success: Simultaneous execution, but as soon as one action succeeds (i.e. has been completed or the phone is picked up), all others are terminated. Consecutively: All actions are executed in the specified order. Consecutively until first success: Consecutive execution, but as soon as one action succeeds, the following actions are not executed. Consecutively until first failure: Consecutive execution, but as soon as one action fails, the following actions are not executed.

Actions	Value	Explanation
Action 1	Visual Alarm: Red Permanent	Action Type and Profile: Select the Action Profile to be executed.
	0	Action Timeout or Duration: If this action runs longer than the time specified (0..3600 s), it is aborted and returns an error; 0 to deactivate. For Image Profile action, this is the duration and no error returns.

Add new action

Note: You may need administration privileges to add or modify the action profiles: Signal Out, Visual Alarm, Phone Call, IP Notify, Image Profile, MxMessageSystem, FTP, E-Mail, Play Sound.

Set Factory Restore Close

5. Click **Set**⑦ to confirm your settings.
6. Click **Close**⑧ to save your settings permanently.

To acknowledge the alarm you can use a softbutton (see [Acknowledge Alarm via Softbutton](#), p. 74).

Acknowledge Alarm via Softbutton



1. In case of an Overheating Alarm Event, you can acknowledge the Alarm by clicking the corresponding Softbutton (see [Edit the Softbutton Menu, p. 70](#)).

Further Information

- For further Information about the camera please see the Camera Online Help.
- For further information about the MOBOTIX Advanced Radiometry App see <https://www.-mobotix.com/en/media/5263>.

Maintenance

This section contains the following information:

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Cleaning the Camera and Lenses

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

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

Cleaning the lens protection glass

- Use the wide end of the gray module wrench [M.1](#) 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.

