

# **Quick Installation**

### **MOBOTIX S74 EN54**

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Beyond Human Vision



V1.19, 5/13/2025, Order Code: Mx-S74TA-BxxxRxxx-EN54

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# 1

# **Before You Start**

This section contains the following information:

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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 power 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 <u>www.mobotix.com</u> 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 <u>www.mobotix.com</u>, **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 <u>www.-</u> <u>mobotix.com</u> 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:  $\sqrt{}$
  - Enable encrypted HTTPS:  $\sqrt{}$
  - **Disable public access**:  $\sqrt{}$
  - User Management (for all users):
    - Force Complex Password:  $\sqrt{}$
    - 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:  $\sqrt{}$
  - Notification threshold: 10
  - Timeout: 60 minutes
  - **Block IP Address**:  $\sqrt{}$

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).

# 2

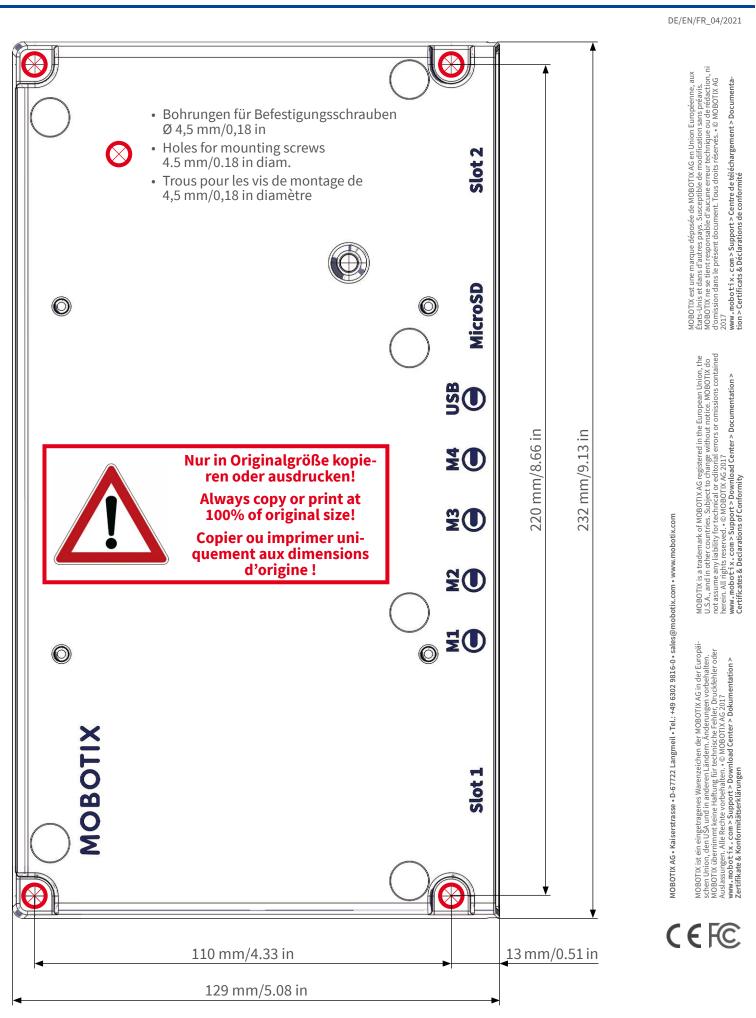
# **Drilling Template**

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: <u>www.mobotix.com ></u> Support > Download Center > Marketing & Documentation > Drilling Templates.

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

Bohrschablone / Drilling Template / Gabarit de perçage Maßstab 1:1 / Scale 1:1 / Echelle 1:1



#### Beyond Human Vision

### MOBOTIX

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# **Scope of Delivery**

This section contains the following information:

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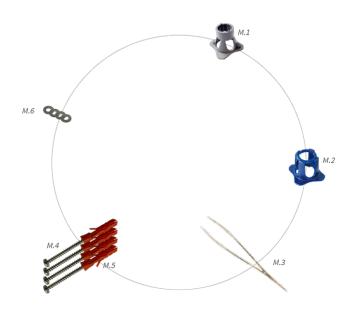
# MOBOTIX S74 EN54: Scope of Delivery



#### 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 (com- pletely 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

ltem	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

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# **Technical Specifications**

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ply - A (pre-installed)	. 29	
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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	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 illu- mination	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. 29 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 mod- ules	- 1.130g
Housing	Aluminum, PBT-30GF
Standard accessories	See MOBOTIX S74 EN54: Scope of Delivery
Detailed technical doc- umentation	www.mobotix.com > Support > Download Center > Marketing & Docu- mentation
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, NRTL
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	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 res- olution	One thermal sensor: VCA_640x480		
	VGA, 640x480 <ul> <li>Two thermal sensors:</li> </ul>		
	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		

Feature	Properties		
Software features	<ul> <li>H.264, H.265 Multistreaming</li> </ul>		
	<ul> <li>Multicast stream via RTSP</li> </ul>		
	<ul> <li>Digital pan, tilt, zoom/vPTZ (up to 8x zoom)</li> </ul>		
	<ul> <li>Genetec protocol integration</li> </ul>		
	Programmable exposure zones		
	<ul> <li>Snapshot recording (pre/post-alarm images)</li> </ul>		
	Continuous recording		
	Event recording		
	<ul> <li>Time-controlled flexible event logic</li> </ul>		
	<ul> <li>Weekly schedules for recordings and actions</li> </ul>		
	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		
	<ul> <li>Remote alarm notification (network message)</li> </ul>		
	Programming interface (HTTP-API)		
	MxMessageSystem		
ONVIF compatibility	Profile G, S, T, (M with later firmware release)		
Master/Slave functionality	Yes		
Remote alarm notification	Email, network message (HTTP/HTTPS), SNMP, MxMessageSystem, MQTT		
DVR/image storage man-	<ul> <li>On internal microSD card</li> </ul>		
agement	<ul> <li>On external USB and NAS devices</li> </ul>		
	<ul> <li>Different streams for live image and recording</li> </ul>		
	MxPEG+ only		
	<ul> <li>MxFFS with buffered archive, pre- and post-alarm images, storage mon- itoring with error reporting</li> </ul>		

## **General Software Features**

Technical Specifications Video Analysis	
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	Version 1.0, 2.1, 3.0	
MxAnalytics	Yes with a later FW release	
MOBOTIX App support	Yes with a later FW release	

# 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 Cloud MOBOTIX LIVE App	Streaming & Events supported Yes (available in Google Play Store (Android) and Apple App Store (iOS)).

### **Sensor Modules**

### **Dimensions of Sensor Modules**

Dimensions	58 x 42,5 (50 mm)
(height x width)	

### 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 with tele lens 15°	Mx-O-M7SA-8DN280*
	Mx-O-M7SA-8D280
	Mx-O-M7SA-8N280*
	Mx-O-M7SA-4DN280

Sensor Modules

Sensor Module	Order Code
	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 $180^{\circ}$ $12MP$	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.

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 High Sensitivity: -40 to 170 °C/-40 to 320 °F -- Low Sensivity: -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 (adjustable)	High Sensitivity: –40 to 170 °C/–40 to 320 °F –- Low Sensivity: -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	

#### Technical Specifications Supported Functional Modules

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	ating 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 mod-	Mx-F-MSA	with PIR sensor, temperature sensor, illu-
ule (pre installed)		mination 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 <sup>2</sup> - 0.5mm <sup>2</sup>		
Flexible	0.14mm <sup>2</sup> - 0.5mm <sup>2</sup>		
Flexible with ferrule	0.25mm <sup>2</sup> - 0.34mm <sup>2</sup>		

## Dimensions

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

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

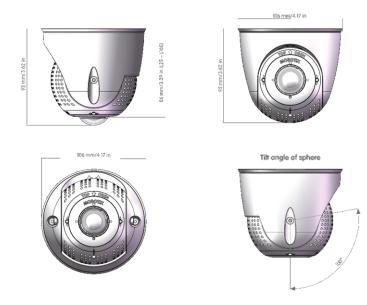


Fig. 2: PTMount

### **PTMount-Thermal – Dimensions**

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

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

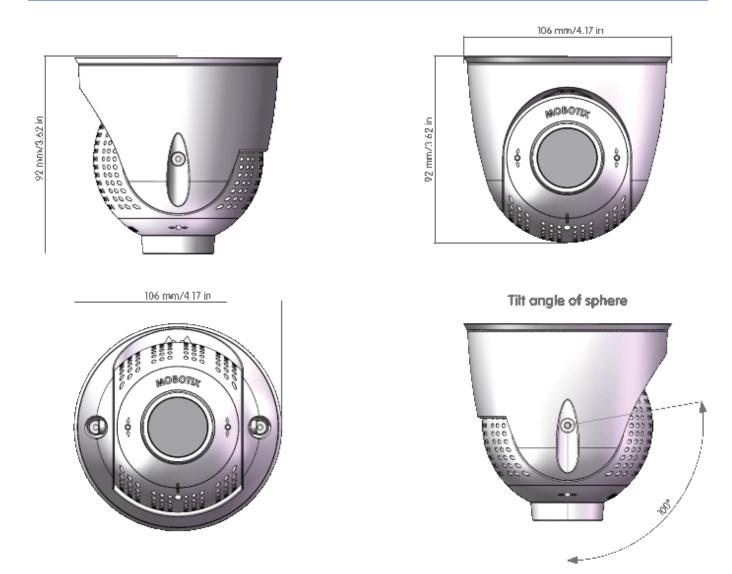


Fig. 3: PTMount-Thermal

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# 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 use MOBOTIX cables and connectors to ensure IP66 weather resistance.

#### **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.

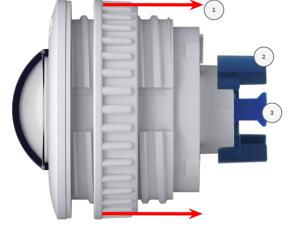
**WARNING!** When installing the sensor modules or closing the module housing, make sure that the sensor module cables are not damaged or bent sharply.

**NOTE!** One additional optical sensor or thermal sensor can be optionally added without losing the EN54 certification (see Supported Image Sensor Modules, p. 25).

### **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

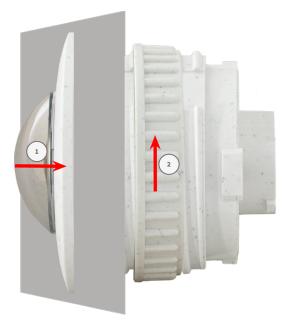


Installing Sensor Module without Mounts, p. 36

- Installing Sensor Module with PTMount, p. 37
- Installing Sensor Module PTMount-Thermal, p. 44

### Installing Sensor Module without Mounts

 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 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

2. Remove swivel ring and base plate.

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



 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.



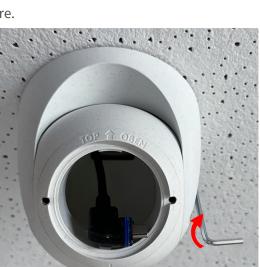




8. When tightening the screws, make sure that you can still rotate the swivel ring by hand.

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.
- 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).
- 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.





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.



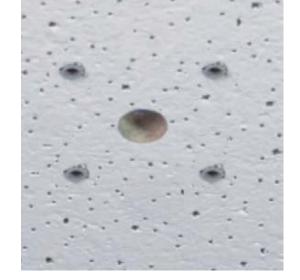
2. Remove swivel ring and base plate.



- 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.
- 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

 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.



 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 filed 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. 51).

**NOTE!** Download the drilling template from the MOBOTIX website: <u>www.mobotix.com > Support > Down</u>load 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.

- 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.



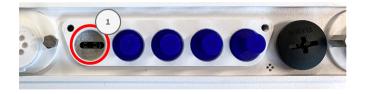
Fig. 4: 4 Module Connector Ports and 1 USB-C interface

#### **Step by Step**

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



2. Remove the blue rubber plug ① from the module connector.



3. Plug the module cable into the module connector ① so that the small lug ② plug fits into the module connector.



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

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

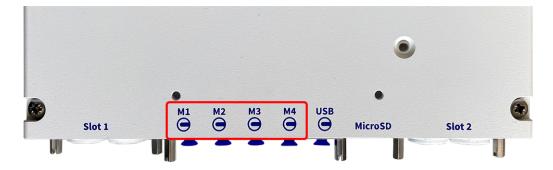


5. Repeat steps 1 to 5 to connect additional modules.

## **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	Connectors	
Module	М1	M2	М3	M4	Comments
<b>Optical Sensor Modules</b>					
all optical modules	yes	yes	no	no	
Thermal Sensor Modules					
all <b>A</b> -Variants	no	no	yes	no	e.g. Mx-O-M7S <b>A</b> - 640R050

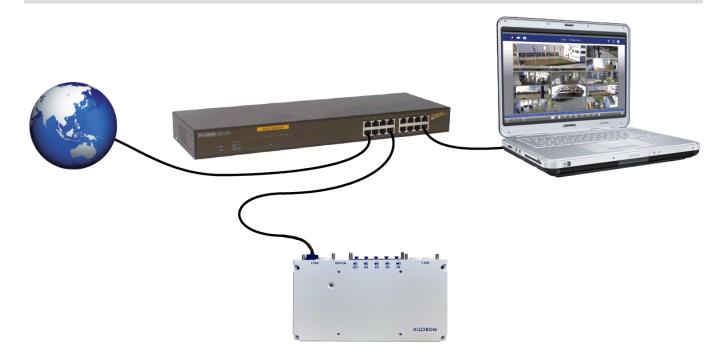
			Module C	onnectors	
Module	M1	M2	М3	M4	Comments
all <b>B</b> -Variants	yes	yes	yes	no	e.g. Mx-O-M7S <b>B</b> - 640R050
Other Functional Modules					
Mx-F-MSA	yes*	yes*	yes	yes*	MultiSense mod- ule * on M1 & M2 without noise detection

# **Connecting the Camera to the Network**

Network and DC power supply of the camera are established via the pre-installedS74 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).



#### 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.



# 6

# **Operating the Camera**

This section contains the following information:

Getting Started	54
Boot Options of the Camera	55
Network Settings	57

# **Getting Started**

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

You can download MxManagementCenter free-of-charge from <a href="http://www.mobotix.com">www.mobotix.com</a> <a href="http://www.mobotix.com">Support</a> <a href="http://www.mobotix.com">Download</a> <a href="http://www.mobotix.com">Center</a> <a href="http://www.mobotix.com">Support</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com">www.mobotix.com</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com"/www.mobotix.com">http://www.mobotix.com</a> <a href="http://www.mobotix.com"/www.mobotix.com"/www.mobotix.com"/wwww.mobotix.co

- 1. Connect the camera to the network. The network cable will also provide power to the camera.
  - 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. 57:

#### 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

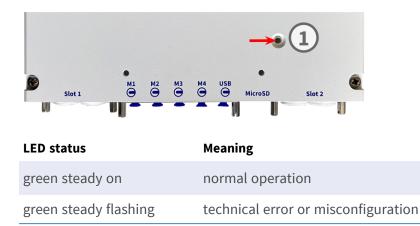
In order to access the camera, it must have an IP address within the range of the local network. To set the camera's network parameters, you can use one of these methods:

**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:



# **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.

 Press the key by inserting the tool into the hole ②. 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 sup- ported 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
Зх	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 reapply 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:

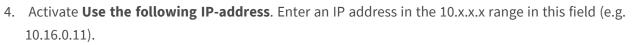
- Manual setup
- Automatic setup using MxManagementCenter

**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.

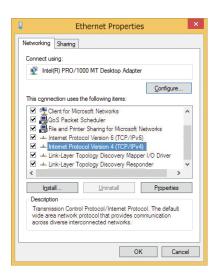
#### Windows

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).



5. Click on **OK** to apply the settings.



eneral Alternate Configuration	
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	
Obtain an IP address automatic	cally
Use the following IP address:	
IP address:	10 . 8 . 0 . 11
Subnet mask:	255 . 0 . 0 . 0
Default gateway:	
Obtain DNS server address aut	tomatically
Use the following DNS server a	ddresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Advanced
	OK Cancel

#### Мас

1. Open System Settings > Network.

	Location:	10er-Netz	\$
Ethernet Connected     Bluetooth Not Connected     FireWire Not Connected     AirPort     Off	<ul> <li></li></ul>	Status: Configure: IP Address: Subnet Mask: Router: DNS Server: Search Domains:	10.3.0.11
+ - 0-			Advanced

- 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).

other IP addresses can be reached dir camera from your computer via LAN, y same subnet as the camera.	55) separated by dots. They define which ectly on your LAN. In order to access the your computer needs an IP address on the they are a set of the set of the set of the set of the your computer needs and the set of the set of the set of the your computer needs and the set of the set of the set of the your computer needs are set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of the set of the set of the your computer needs are set of the set of
If unsure, ask your system administra the network mask of your subnet.	tor for a valid and unique IP address and

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 (<u>www.mobotix.com</u> > 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.

•••		М	xManagem	-	er	<b>0</b> ?
			Add Dev			
C. Camera r	ame, camera model, I	Paddress, ONVIF				
						Connection
Ø						$\otimes$
						$\odot$
$\odot$						$\odot$
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ଜ୍ଞ						$\otimes$



**NOTE!** Using the Bonjour service (<u>en.wikipedia.org/wiki/Bonjour\_(software)</u>), 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.

- 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 <u>www.mobotix.com</u> > Support > Download Center > Documentation > Brochures & Guides > Tutorials).

# 7

# **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.

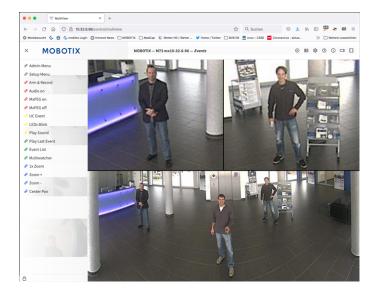
Instead of using a web browser, you can also download the free MxManagementCenter from the MOBOTIX website (<u>www.mobotix.com</u> > Support), which allows displaying multiple cameras on one monitor, allows for comfortably searching and evaluating the alarm video clips with audio and provides alerting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

This section contains the following information:

Access the Camera in the Web Browser	.64
Basic Settings	.64
Configuring Sensor Modules	65
EN54 Compliant Camera Configuration	66

# 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.



1. 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**

**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.

**CAUTION!** Make sure that you store information on user names and passwords in a secure place. If you loose 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

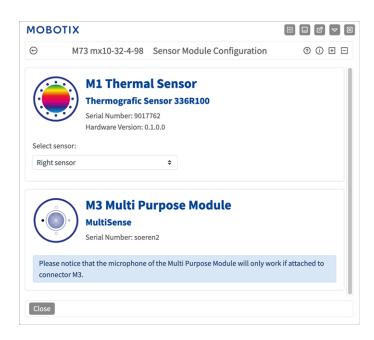
security reasons, it is highly recommended to change the default administrator password after the camera has been configured properly.

**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.

# **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 .

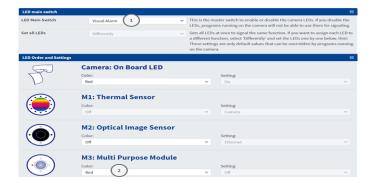
**CAUTION!** Exchanging sensor modules may result in the loss of EN-54 certification.

- 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**



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

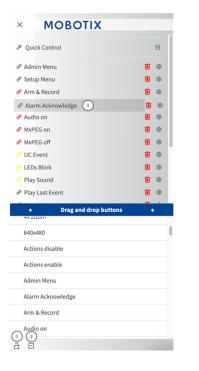
#### Set an Alarm Acknowledge Softbutton

ΜΟΒΟΤΙΧ					(	
Θ	D7	1 m	(10-32-75-149 (	Configu	ire Softbuttons	0 (
Actions disable	Grey	¢	Setup Control	¢	section=event edactiv=disable	Remove
Actions enable	Grey	٠	Setup Control	٠	section=event edactiv=enable	Remove
Admin Menu	Grey	٠	Admin Menu	٥		Remove
Alarm Acknowledge	Red	٠	Alarm Acknowledge	• •		Remove
Arm & Record	Red	٠	Link New Window (	sm≀¢	url=/cgi-bin/easyinterface?work=2	Remove
Audio on	Red	٠	Link New Window (	sm≀¢	url=/cgi-bin/easyinterface?work=1	Remove
Set 2Factory Restore	Close	$\overline{\mathbf{a}}$				0

- 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 temporally or **Close**③ to permanently store the configuration of the camera.

Also see Edit the Softbutton Menu, p. 68.

## **Edit the Softbutton Menu**



- 1. Click on the lock icon to unlock the main menu ①
- 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. 67.

## Arming the Camera



- 1. Go to Setup Menu > General Event Settings.
- 2. In section Activity set Arming to Enabled (1).

#### MOBOTIX Θ M73 mx10-32-4-98 Environment Events 0 i ± = Thermal Spotmeter Show Thermal Spotmeter Crosshairs: sshairs to adjust th Crosshairs Overheating (1) Inactive Delete Value Explanation Events Event Dead Time 5 Time to wait [0..3600 s] before the event can trigger Event Sensor Type Event Sensor Type Shock Detector Passive Infrared Detector Temperature Thermal Spotmeter O Thermal Radiometry Thermal Delta Analysis Trigger an event based on the temperature measured in a user-defined area of the thermal sensor This event type supports standard variables to be displayed in the live image (see Text & Display Settings). Edit Measurement Area 0.305.338.176.176 For a detailed description of window definitions and additional variables, please refer to the <u>help page</u>. Set Measurement Area Measurement Mode: Select measurement mode Absolute Temperature Trigger Mode: One Pixel: Trigger event if at least one pixel of the measurement area exceede or drope. One Pixel Set Factory Restore Close More

## **Creating Thermal Events**

- 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)

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).

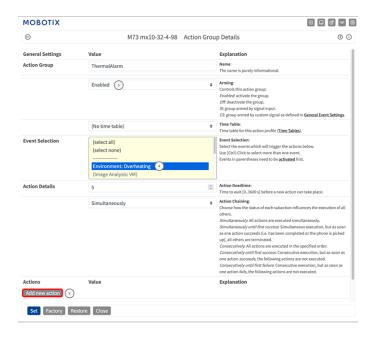
#### **Camera Software in the Browser**

#### **EN54 Compliant Camera Configuration**

ΙΟΒΟΤΙΧ		
Θ M	173 mx10-32-4-98 Action Group Overview	w ⑦ Ū 뒢 E
VisualAlarm	Delete	
Arming	Events & Actions	Edit
Off	♦ (select all)	Edit
(No time table)	<ul> <li>VA</li> </ul>	
ThermalAlarm	Delete	۵
ThermalAlarm Arming	Delete Events & Actions	⊠ Edit
Arming	Events & Actions	Edit
Arming Enabled	Events & Actions	Edit
Arming Enabled	Events & Actions	Edit

#### Fig. 5: Defining Action Groups

- 2. Click **Add new group** (1) and give a meaningful name.
- 3. Click **Edit**<sup>(2)</sup>, to configure the group.



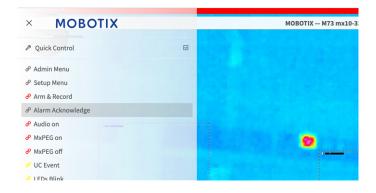
- 1. Enable **Arming** (3) of the Action Group.
- 2. Select your message event in the **Event selection** list ④ . To select multiple events, hold the shift key.
- 3. Click Add new Action (5).
- 4. Select Visual Alarm: Red Permanent from list Action 16.

y custom signal as denned in <u>Detrem Lyens Detrings</u> .
action profile (Time Tables).
which will trigger the actions below. select more than one event. sess need to be <b>activated</b> first.
00 s] before a new action can take place.
atus of each subaction influences the execution of all actions are executed simultaneously. If for success Simultaneous execution, but as soon exect Sig. In bab been completed or the phone is picked terminated. Units an executed in the specified order. Units and the bab been completed or the phone is a soon as the bab bab bab bab and the specified order. If first aurous an end executed. If first during consecutive execution, but as soon as of coloning actions are not executed.
Profile: Trollie to be executed. r Duration: onger than the time specified [03600 s], it is aborted ar; 0 to deactivate. ction, this is the duration and no error returns.
1

- 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. 71).

#### 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. 68).

## **Further Information**

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

# Maintenance

This section contains the following information:

Cleaning the Camera and Lenses 74

# **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 <u>M.1</u> 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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