

Quick Installation

MOBOTIX p71 ECO Thermal

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BeyondHumanVision

MOBOTIX

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Before You Start

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Support

MOBOTIX Support

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

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

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



MOBOTIX eCampus

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

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



MOBOTIX Community

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

Please visit community.mobotix.com.



Safety Notes

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

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

Legal Notes

Copyright Notice!

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Special Export Regulations!

Cameras with thermal image sensors ("thermal cameras") are subject to the special export regulations of the U.S. and including the ITAR (International Traffic in Arms Regulation):

- According to current U.S. export control regulations, including the International Traffic in Arms Regulations (ITAR) and the Export Administration Regulations (EAR), thermal imaging cameras, sensors, and related components may be subject to export restrictions or licensing requirements depending on their technical characteristics and classification.
- Exports, re-exports, or transfers to comprehensively embargoed or sanctioned destinations are generally prohibited unless authorized by the relevant U.S. authorities. As of now, this includes, in particular: Crimea, Donetsk and Luhansk regions of Ukraine, Cuba, Iran, North Korea, and Syria.
- In addition, exports to certain countries such as Russia and Belarus are subject to extensive restrictions and, for many controlled items, are effectively prohibited.
- Furthermore, exports to any persons, entities, or organizations listed on U.S. government restricted party lists are prohibited. These include, but are not limited to, the Denied Persons List (DPL), the Entity List, and the Specially Designated Nationals (SDN) List, as maintained by the U.S. Department of Commerce and the U.S. Department of the Treasury.

Before You Start

Legal Notes

- All exports must be reviewed on a case-by-case basis to ensure compliance with applicable U.S. export control laws and regulations.
- Under no circumstances must the camera itself or its thermal image sensors be used in the design, the development or in the production of nuclear, biological or chemical weapons or in the weapons themselves.

Legal Aspects of Video and Sound Recording

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

Declaration of Conformity

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

RoHS Declaration

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

Disposal

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

Disclaimer

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

FCC Disclaimer

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

Notes on System Security

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

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

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

Camera Web Interface

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

MxManagementCenter

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

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

Protective Measures

WARNING!

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

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

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

Notes on Cabling

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

Fire Protection

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

Lightning and Surge Protection

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

NOTE!

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

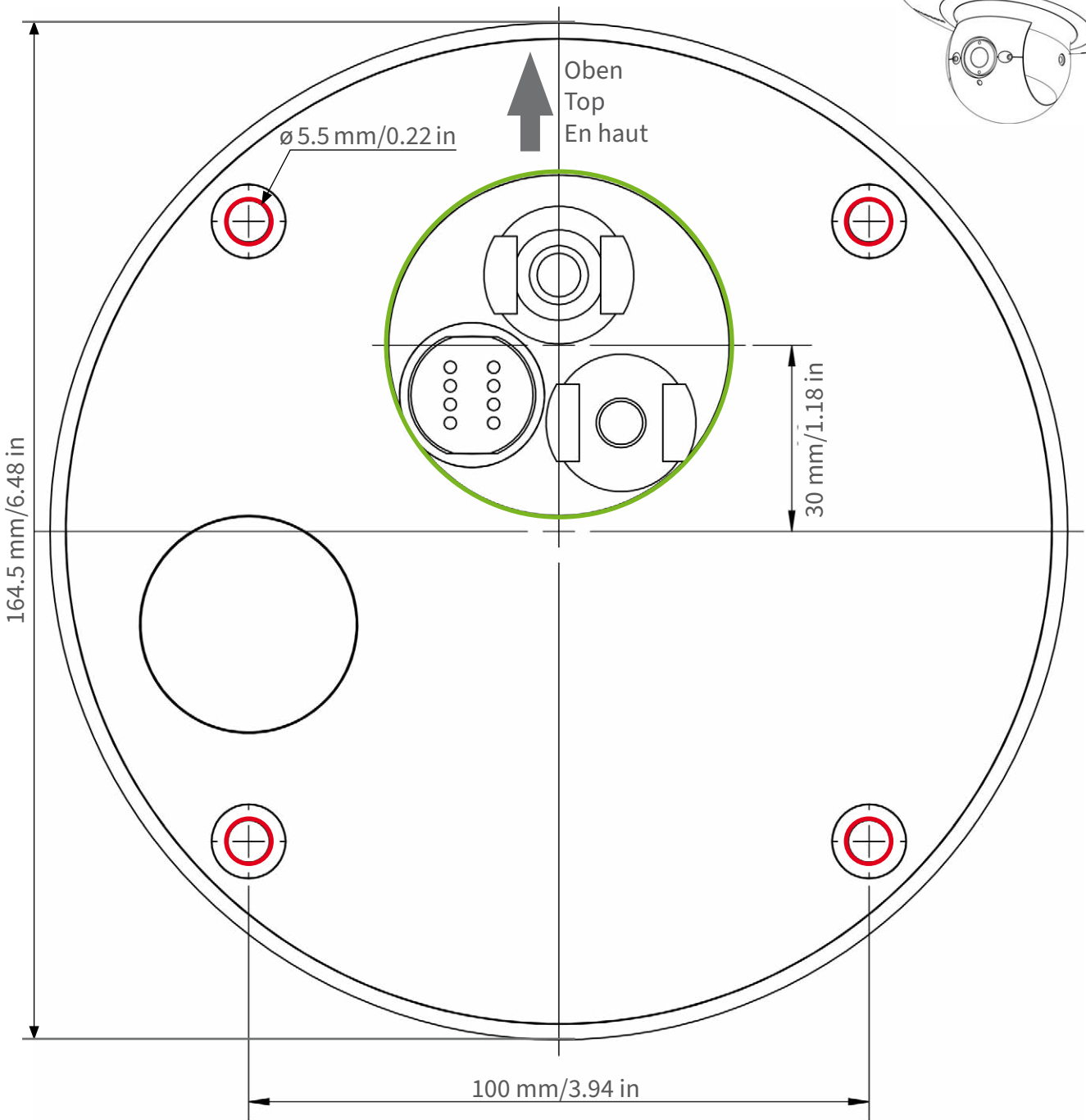
Further information on how to avoid damage caused by lightning and over voltage is available from manufacturers of lightning and over voltage protection devices.

Drilling Template

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

NOTE!

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



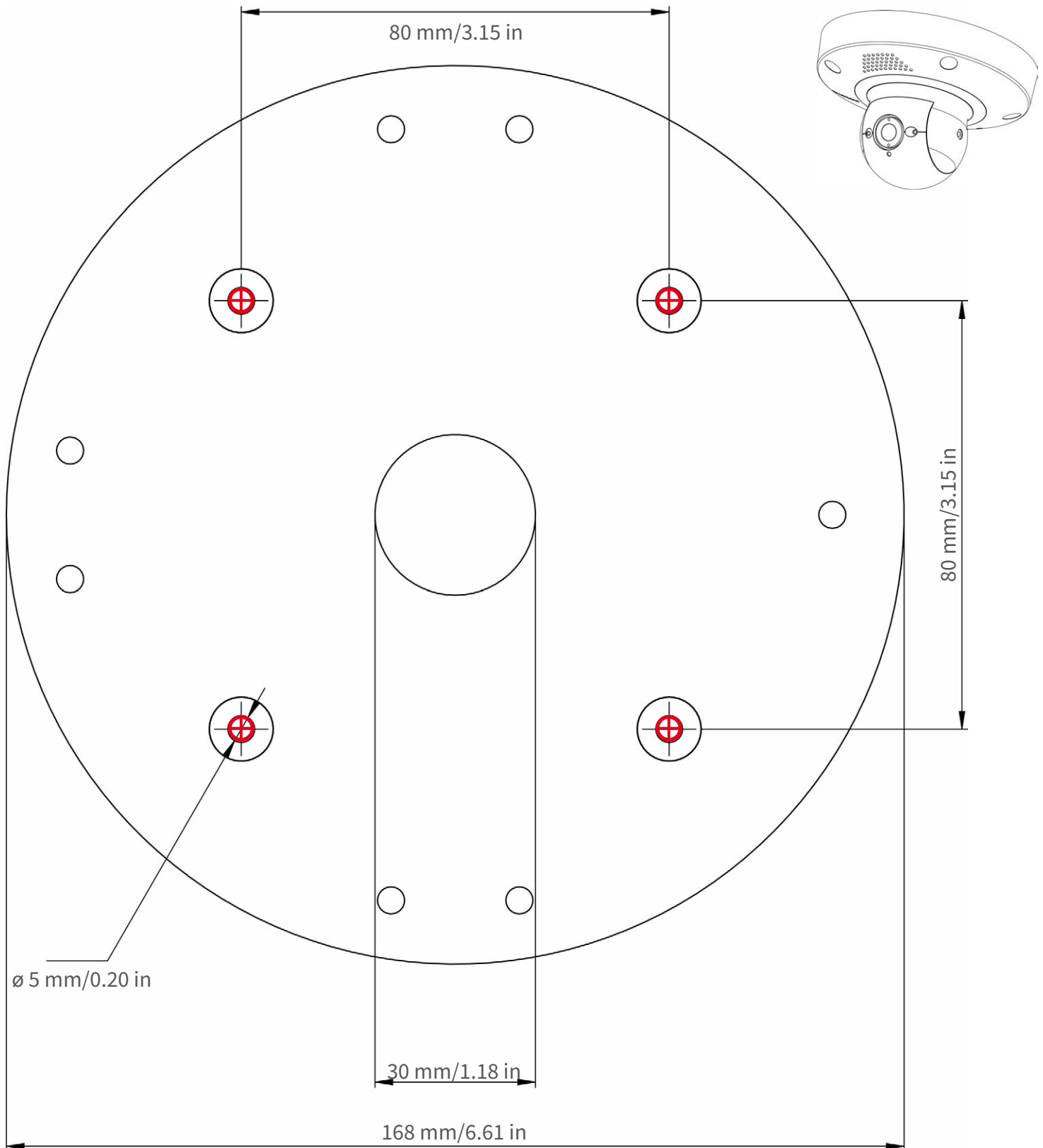
Ausschnitt für Kabel und Anschlüsse
Cutout for cables and connectors
Découpe pour les câbles et les connexions



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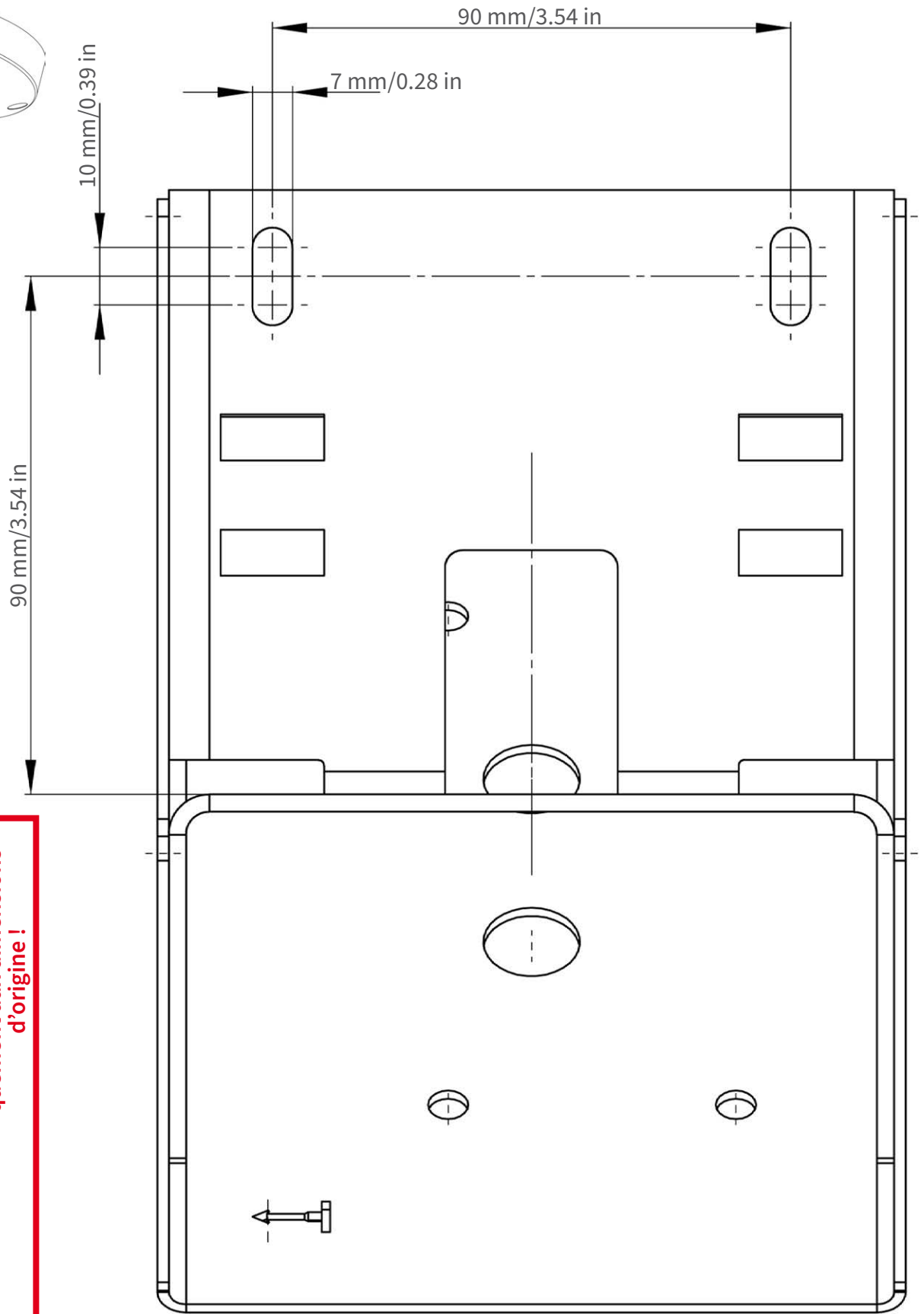
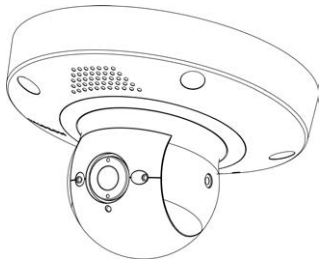
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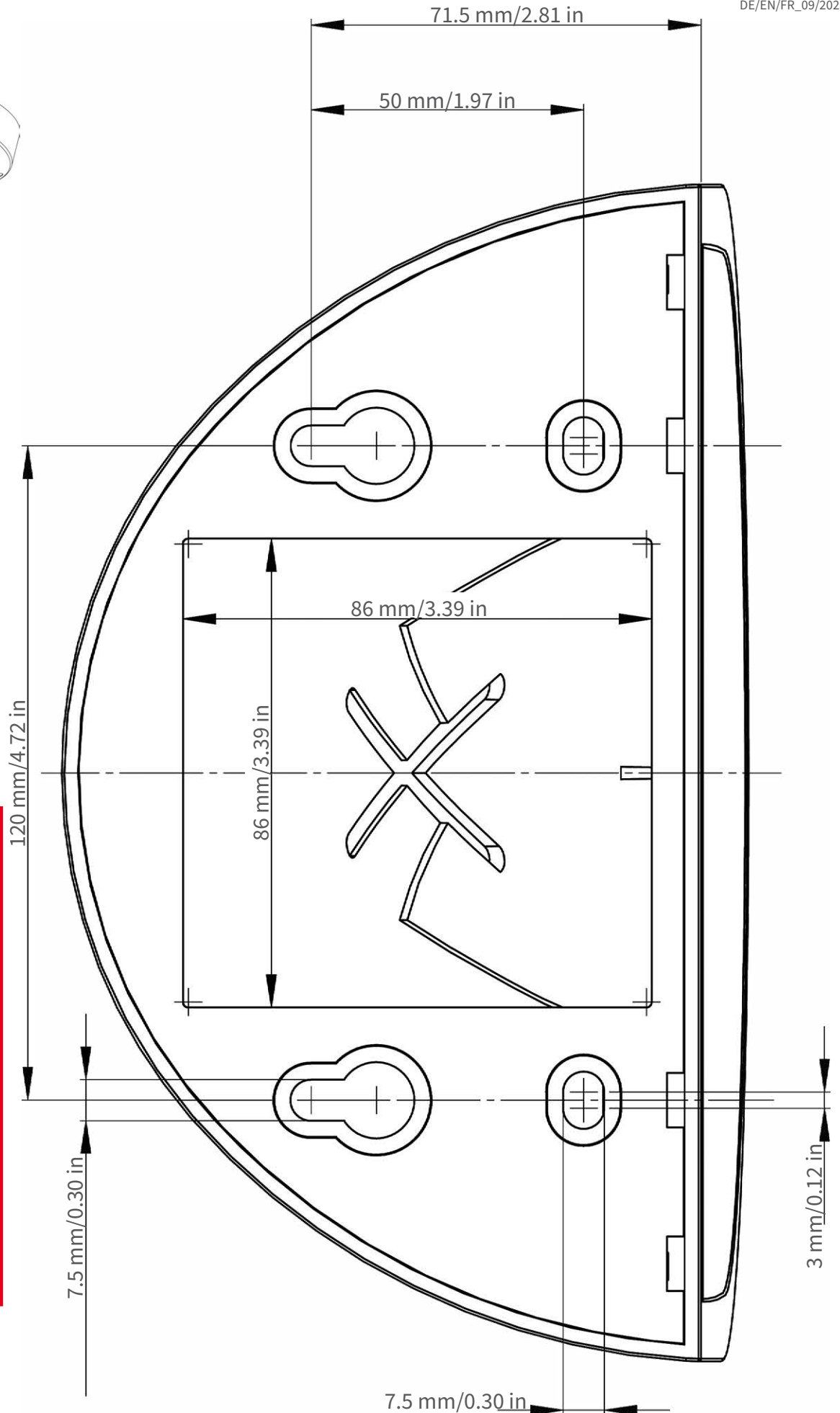
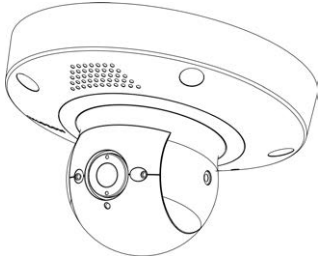


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Ø 200 mm / 7.87 in



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Scope of Delivery

This section contains the following information:

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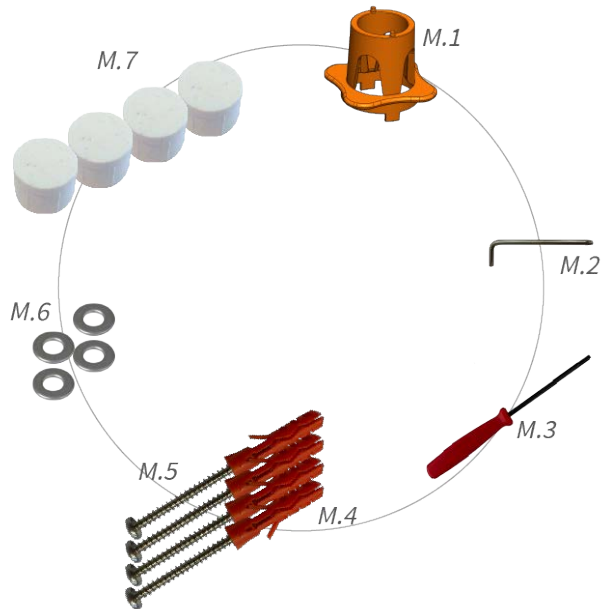
MOBOTIX p71 ECO Thermal: Scope of Delivery



Scope of delivery MOBOTIX p71 ECO Thermal Body

Item	Count	Description
1.2	1	USB plug, blue (installed)
1.3	1	Bayonet catch for USB port, blue (installed)
1.4	1	Ethernet plug, blue (installed)
1.5	1	Bayonet catch for Ethernet port, blue (installed)
1.6	1	Ethernet patch cable RJ45, 50 cm/19.7 in
1.7	1	SD card cover (installed)
1.8	1	SD card 8 GB (installed)
1.9	1	Mounting supplies (see Mounting Supplies: Scope of Delivery, p. 19)
1.10	1	Camera Connection Flyer
1.11	1	Important Safety Information

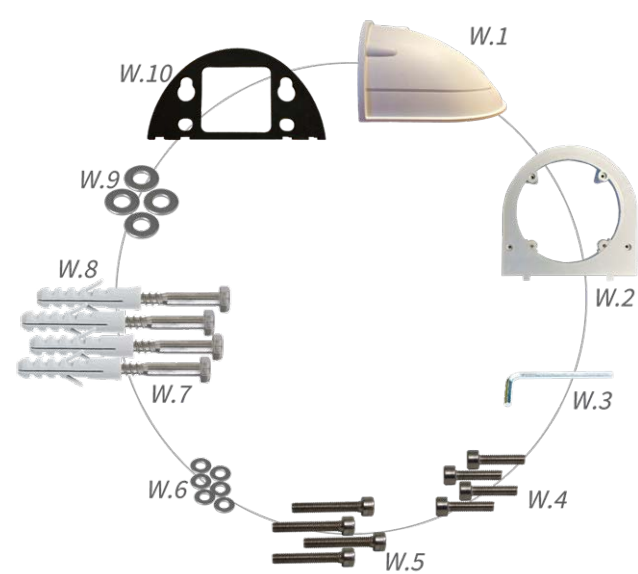
Mounting Supplies: Scope of Delivery



Scope of Delivery p71 ECO Thermal Mounting Supplies

Item	Count	Description
M.1	1	p71 ECO Thermal lens wrench, orange
M.2	1	Torx wrench 3.5 mm
M.3	1	Allen wrench 2.5 mm
M.4	4	Dowels 8 mm
M.5	4	Stainless steel pan head-screws 4.5x60 mm
M.6	4	Stainless steel washers Ø5.3 mm
M.7	4	Sealing plugs, white

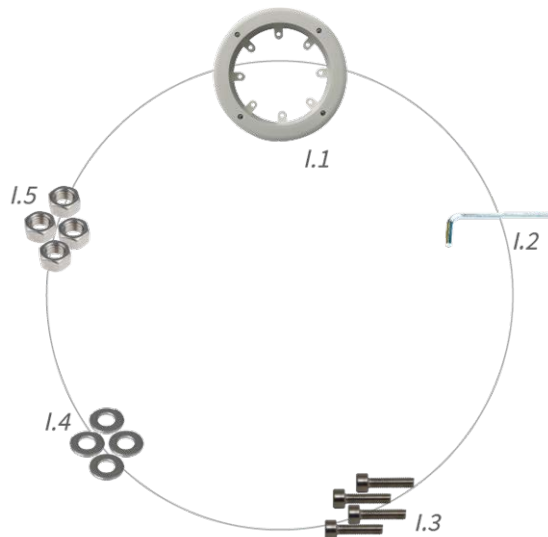
Wall Mount: Scope of Delivery



Scope of Delivery Wall Mount

Item	Count	Description
W.1	1	Wall Mount upper shell, white
W.2	1	Bottom plate, white
W.3	1	Allen wrench 3 mm
W.4	2	Stainless steel Allen screws 4x18 mm
W.5	4	Stainless steel Allen screws 4x40 mm
W.6	6	Stainless steel washers Ø4.3 mm
W.7	4	Stainless steel hex head screws 6x50 mm
W.8	4	Dowels 8 mm
W.9	4	Stainless steel washers Ø6.3 mm
W.10	1	Adhesive wall sealing, black

In-Ceiling Set: Scope of Delivery



Scope of Delivery In-Ceiling Set

Item	Count	Description
I.1	1	In-Ceiling Set
I.2	1	Allen wrench 5 mm
I.3	4	Stainless steel Allen screws M6x30 mm
I.4	4	Stainless steel washers M6
I.5	4	Stainless steel hexagon nut M6

Technical Specifications

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Order Information

Name	MOBOTIX p71 ECO Thermal
Order Code:	Mx-p71TB-320T080

NOTE! When ordering, select either the **A** or the **B** camera variant (e.g. Mx-**<camera>A**-**<sensor/lens>** or Mx-**<camera>B**-**<sensor/lens>**).

Hardware

Image sensor (DN)	4K UHD 3840x2160, 16:9, 1/1.8"
Light sensitivity	- Color sensor (day): 0,1 lx @ 1/60 s; 0,005 lx @ 1 s - BW sensor (night): 0,02 lx @ 1/60 s; 0,001 lx @ 1 s
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
IP protection class	IP40
Operating temperature range	-10 to 50 °C/-14 to 122 °F
Internal DVR Storage	Internal microSD card (SDHC/SDXC), 8 GB out of the box, max. 1 TB.
Microphone/Speaker	Integrated Microphone: - Sensitivity: -35 dB +/-4 dB (0 dB = 1 V/pa, 1 kHz) Integrated Loudspeaker: 0.9 W at 8 Ohm
Integrated illumination	850 nm IR, up to 30 m/100 ft (may be more depending on scene)
Tampering Detection	Integrated Shock Sensor
Max. power consumption	- Max. 25 W/521 mA at 48 VDC - Max. 25 W/1042 mA at 24 VDC
Average power consumption	9.5 W
Electrical surge protection	Available with MX-Overvoltage-Protection-Box (not part of the scope of delivery)
PoE standard	PoE Plus (802.3at-2009)/Class 4 (Class 3 can be enabled via HW switch. Note: IR illumination requires Class 4)
Interfaces	- Ethernet 1000BaseT (RJ45 according to EIA/TIA-568B) - USB-C/USB2.0; High-Speed (V_{out} = 5.1 V, I_{out} = 0.9 A, P_{out} = 4.5 W)
Status LED	multicolor (red, blue, green)
Mounting Options	Wall- or ceiling-mountable

Dimensions (Ø x height)	164 x 104 mm
Weight	Gross weight: 1.175 g
Housing	Aluminum, PBT-30GF
Standard accessories	See MOBOTIX p71 ECO Thermal: Scope of Delivery, p. 18
MTBF	80,000 hours
Certificates	EN 50121-4, EN 55032, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62368-1, EN 63000, AS/NZS CISPR32, 47 CFR Part 15b, NRTL
Protocols	DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, MQTT, 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

Image and Video Properties

Available video codecs	■ H.264, H.265 ■ MxPEG+ ■ MJPEG
Image resolutions	VGA 640x360, XGA 1024x576, HD 1280x720, FHD 1920x1080, QHD 2560x1440, 4K UHD 3840x2160
Multi streaming	H.264, H.265 with triple streaming
Multicast stream via RTSP	Yes
Max. image resolution	4K UHD 3840x2160/4MP 2688x1512
Max. frame rate (fps)	MxPEG: 20@4K, H.264: 30@4K, H.265: 30@4K

General Software Features

Feature	Properties
WDR	Up to 120 dB
Software features	■ H.264, H.265 Multistreaming ■ Multicast stream via RTSP ■ Digital pan, tilt, zoom/vPTZ (up to 8x zoom) ■ Genetec protocol integration ■ Programmable exposure zones ■ Snapshot recording (pre/post-alarm images) ■ Continuous recording ■ Event recording ■ Time-controlled flexible event logic ■ Weekly schedules for recordings and actions ■ Event video and image transfer via FTP and email ■ Playback and QuadView via web browser ■ Animated logos on the image ■ Master/Slave functionality ■ Privacy zone scheduling ■ Remote alarm notification (network message) ■ Programming interface (HTTP API) ■ MxMessageSystem
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 management	■ 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
Camera and data security	User and group management, SSL connections, IP-based access control, IEEE 802.1X, intrusion detection, digital image signature
Firmware Tampering Detection	Digital Signature

Video Analysis

Feature	Properties
Video motion detection	Yes
MxActivitySensor	Version 1.0, 2.1, 3.0 and object-based MxAnalytics AI
MxAnalytics	Yes
MOBOTIX App support	Yes

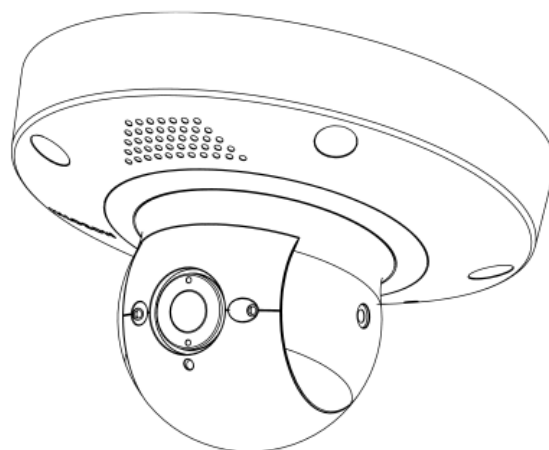
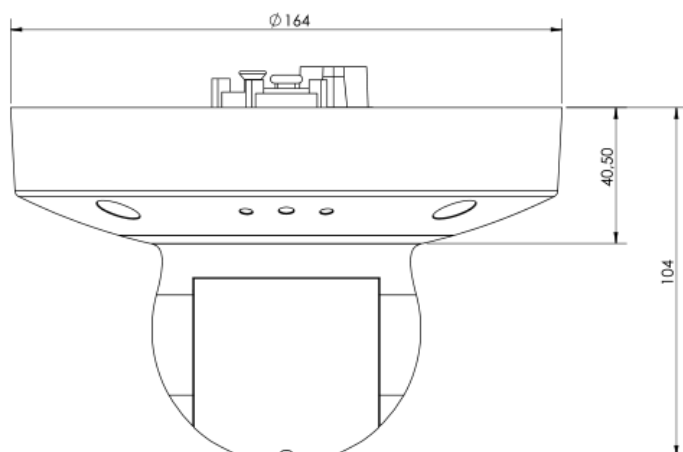
Video Management Software

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

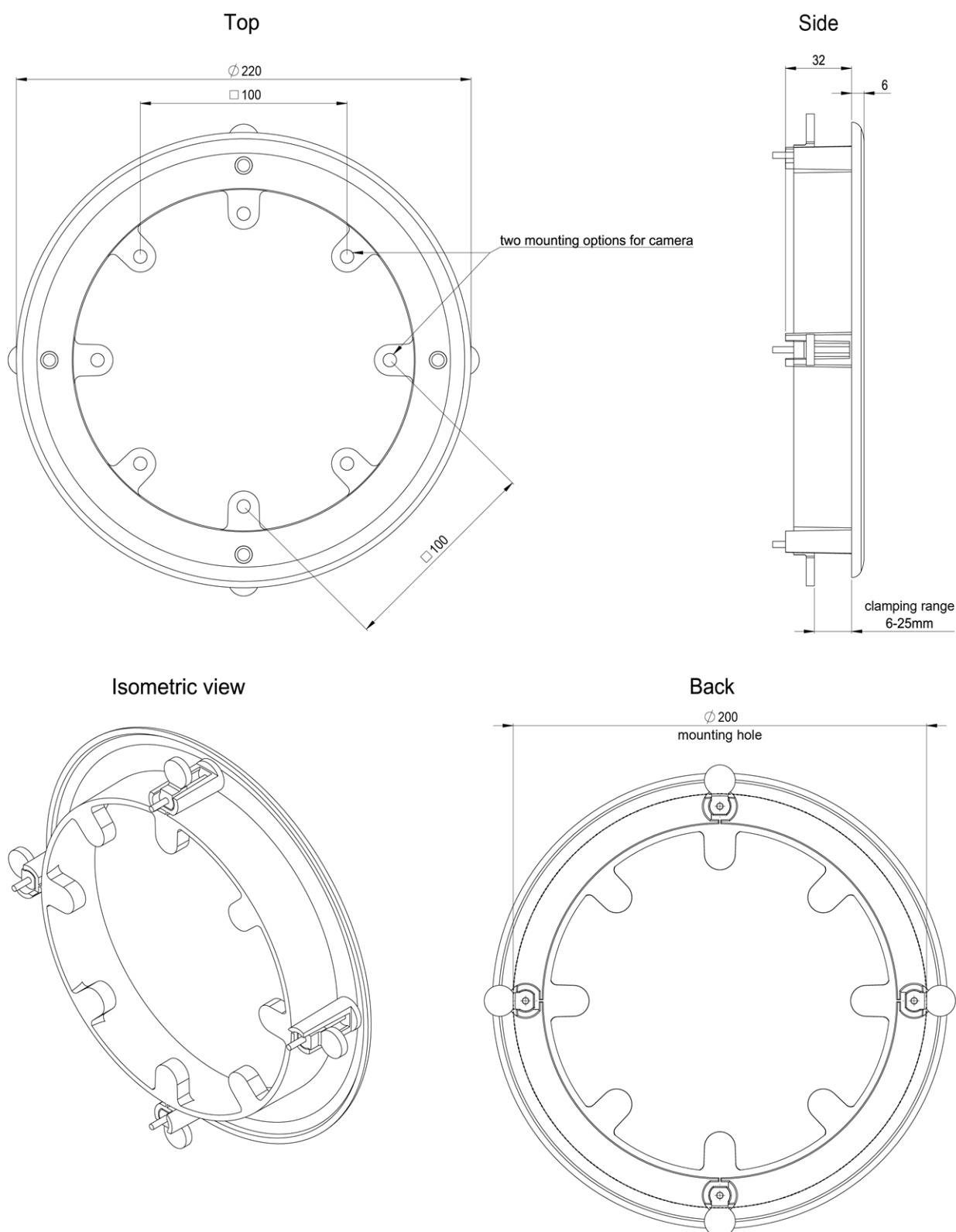
Dimensions

NOTE!

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



In-Ceiling Set



Mounting

This section contains the following information:

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Adjusting the Camera Lens

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

CAUTION!

When adjusting the image focus or the field of view of the camera, always make sure that you can see the live image of the camera on your monitor. See [Camera Software in the Browser](#), p. 63.

Removing the Clamping Ring

1. Remove the cover of the clamping ring ① by turning counterclockwise until resistance is felt.



2. Loosen the four fastening screws from the clamping ring with the supplied Allen wrench [M.3, p. 19](#).



Focusing the Camera Lens

1. Release the two Allen screws① on both sides of the lens mount with the supplied Allen wrench [M.3, p. 19](#).



2. Aim the camera by rotating ② and panning ③ the lens mount.



CAUTION!

Never use force when adjusting the direction of the camera, as this could damage the camera beyond repair.

3. Fasten the two Allen screws① on both sides of the lens mount.
4. Release the screw ④ on top of the lens mount for aiming the lens.



Mounting

Mounting Options

5. Aim the lens ⑤ by turning it with the lens wrench, [M.1, p. 19](#).



CAUTION!

Overturning may damage the sensor board on which the lens is mounted.

Do not turn the lens more than the noticeable stop.

6. Tighten the screw ④ on top of the lens mount.

NOTE!

The lens can only be focused when the screw on the top of the lens mount is tightened.

7. Focus the lens ⑥ by turning it with the orange lens wrench [M.1, p. 19](#).



8. If required, clean the optical surfaces using a clean, lint-free cotton cloth.
9. Reinsert the clamping ring, then fasten the four fastening screws with the supplied Allen wrench [M.3, p. 19](#) (see [Attaching the Clamping Ring](#)).

Mounting Options

You can mount the MOBOTIX p71 ECO Thermal to any even surfaces e.g. on ceilings or walls without any accessories.

CAUTION!

The MOBOTIX p71 ECO Thermal camera must be mounted on the ceiling. Only in this way is reliable observation of the nursing beds possible.

Accessories for Mounting

- The Wall Mount provides the ideal mounting option for installations where the camera is supposed to point downwards.
- Using the Wall Mount and the stainless steel Corner/Pole Mount, the camera can also be mounted to poles with up to 180 mm/7.1" diameter or to 90° corners.
- With the In-Ceiling Set, you can discreetly install the MOBOTIX p71 ECO Thermal Camera in the ceiling with the connections and most components hidden inside the ceiling.

All mounting options provide concealed cabling, thus improving installation security.

CAUTION!

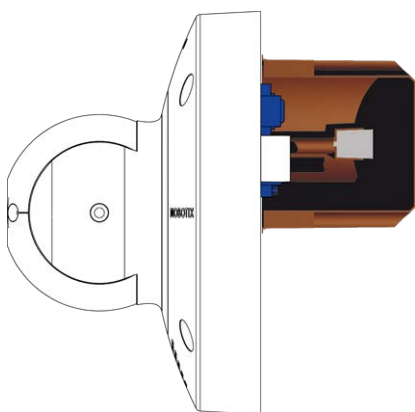
- Install only on a flat surface! Unevenness must not exceed 0.5 mm/0.02 in!
- Only use genuine MOBOTIX patch cables to guarantee the weatherproofness!

NOTE!

- Before mounting the camera, determine its ideal position and make sure that the field of view is not obstructed in any way. Once the camera has 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 simply exchange the lenses.

Mounting the Camera Without Accessories

The MOBOTIX p71 ECO Thermal can be easily installed directly on walls or ceilings. For installation without any accessories, you should first install a flush-mounted wall outlet, since the connectors on the rear of the camera need some space.



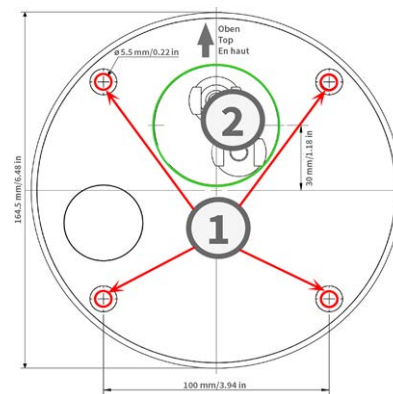
Before mounting the camera, make sure that a network connection with power supply according to the PoE Plus (802.3at-2009) standard is available at the mounting position (see [Connecting the Camera to the Network, p. 50](#)).

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. Mark the holes ① for drilling using the drilling template (see [Drilling Template, p. 11](#)). When drilling, use a suitable 8 mm drill bit and drill holes at least 60 mm/1.2 in deep.



NOTE!

The drilling template also includes a circle ② marking the minimum size and position of the wall outlet, in addition to the drilling holes.

2. Fully push the dowels [M.4, p. 19](#) into the holes you drilled.
3. Establish the PoE network connection to the camera (see [Connecting the Camera to the Network, p. 50](#)).
4. Mount the camera using the supplied pan head screws [M.5, p. 19](#).

Mounting with the On-Wall Set



CAUTION!

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. 50).

The On-Wall Set available in 0° and 10° inclinations allows you to easily mount the MOBOTIX p71 ECO Thermal on the wall or ceiling. The camera remains IP65 weatherproof (dust-proof and resistant to water jets). The On-Wall Sets also cover RJ45 wall outlets and has ample space for additional modules ([Installing a Mini-Box in the On-Wall Set](#), p. 40, WiFi, batteries, etc.).

The 10° On-Wall Set is the right choice if you want to mount the MOBOTIX p71 ECO Thermal on a wall with the lens pointing vertically downward (90° or more).

NOTE!

If the 10° On-Wall Set is not used, then the angle of the lens may not exceed 80° for design-related reasons.

NOTE!

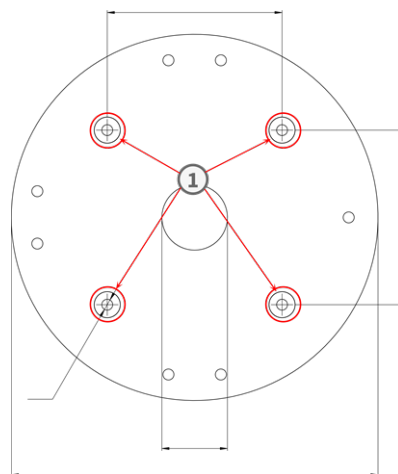
Drilling template: www.mobotix.com > [Services](#) > [Download Center](#) > [Marketing & Documentation](#) > [Drilling Templates](#).

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. Mark the holes for drilling using the drilling template (see [Drilling Template, p. 11](#)). When drilling, use a suitable 8 mm drill bit and drill holes with at least 60 mm/1.2 in depth.
2. Fully push the dowels [W.8, p. 20](#) into the holes ① you drilled.



3. If you use the 0° set, close the cable openings ② that are not needed with the enclosed closing plugs. Fix each of them in place from the inside using a small hexagonal nut.



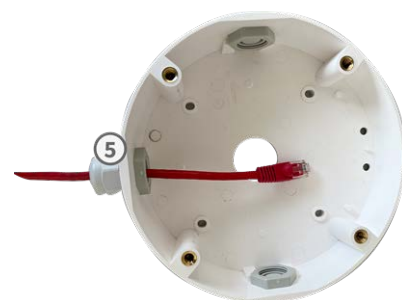
4. Fit the cable gland ③ to the cable opening of the On-Wall Set such that the black rubber seal is on the outside. Fix it in place from the inside using a small hexagonal nut.



5. Mount the On-Wall Set (without the camera) at the intended position using the Torx screws from the accessories ④ .



6. Attach the counter nut ⑤ to the network cable, pass it through the seal from the outside and tighten the nut. The network cable is now screwed into the On-Wall Set, weatherproof.



7. Connect the on-site network cable with the camera patch cable using a standard connector. Excess cable can be stored easily within the On-Wall Set (see [Connecting the Camera, p. 49](#)).
8. Remove the rubber plugs from the front of the camera.



9. Using the supplied Allen wrench [W.2, p. 20](#), secure the camera to the bottom plate of the On-Wall Set with four Allen screws [W.5, p. 20](#) and one washer [W.6, p. 20](#) each.
10. Push the rubber plugs [M.7, p. 19](#) into the screw holes of the camera.
11. Connect the camera to the PoE network connection of the building (see [Connecting the Camera to the Network, p. 50](#)).

Installing a Mini-Box in the On-Wall Set



MOBOTIX offers various interface boxes that can be easily installed in the housing of the On-Wall Set. The following interface boxes are compatible with your camera:

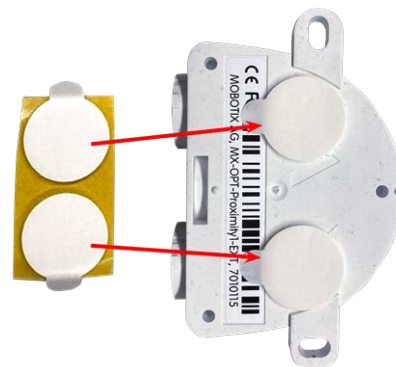
- Overvoltage-Protection-Box LSA
Network connector with overvoltage protection, LSA version
- Overvoltage-Protection-Box RJ45
Network connector with overvoltage protection, RJ45 version
- NPA-Box
Weatherproof PoE injector (IEEE 802.3af) and network connector

Two double-sided adhesive pads are included in the scope of delivery of a mini box.

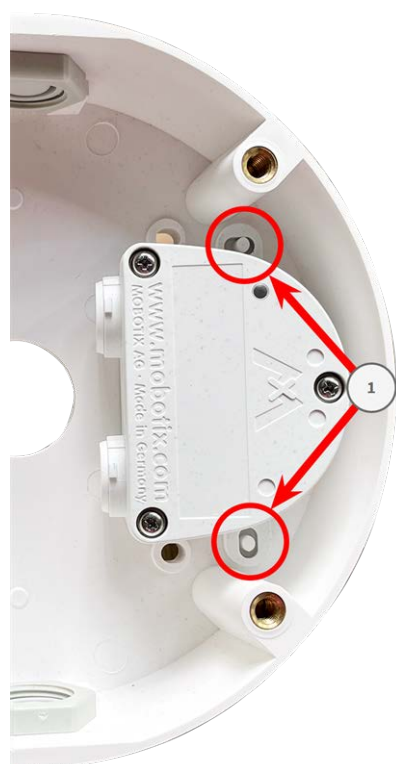


Step by Step

1. Stick the adhesive pads to the bottom of the mini box as shown in the image.



2. Remove the protective foil from the adhesive pads, place the two tabs of the mini box with light pressure on the plastic lugs of the on-wall set.



Mounting with the In-Ceiling Set



CAUTION!

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. 50](#)).

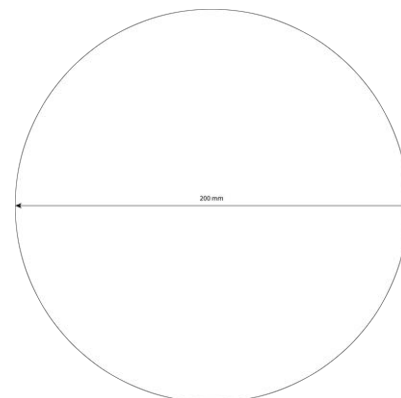
With the In-Ceiling Set, you can discreetly install the MOBOTIX p71 ECO Thermal Camera in the ceiling with the connections and most components hidden inside the ceiling. The In-Ceiling Set is particularly suitable if the p71 ECO Thermal is to be installed in suspended ceilings of indoor spaces with customer or public traffic (e.g. hotels, restaurants, banks, retail stores, public buildings, etc.).

NOTE!

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

Step by Step

1. Cut a round hole with a diameter of 200 mm into the ceiling (see [Drilling Template, p. 11](#)).



2. Run the network cable above the suspended ceiling and ensure that enough cable slack is available.
3. Remove the rubber plugs from the front of the camera.



4. Connect the on-site network cable with the camera patch cable using a standard connector. Excess cable can be stored easily within the In-Ceiling Set (see [Connecting the Camera, p. 49](#)).
5. Place the In-Ceiling Set in the ceiling opening and tighten the dovetail guides clockwise using a Phillips screwdriver.



6. Push the rubber plugs [M.7, p. 19](#) into the screw holes of the camera.

7. Connect the camera to the PoE network connection of the building (see [Connecting the Camera to the Network](#), p. 50).

Mounting with the Wall Mount

CAUTION!

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. 50).

The Wall Mount allows you to easily mount the MOBOTIX p71 ECO Thermal to walls or extensions, indoors and outdoors. The camera remains IP65 weatherproof (dust-proof and resistant to water jets). The Wall Mount also covers RJ45 wall outlets and has ample space for additional modules (WiFi, batteries, etc.).

Before mounting the MOBOTIX p71 ECO Thermal with the Wall Mount, drill the holes for the fixtures. You can use the supplied drilling template (see [Drilling Template](#), p. 11).

NOTE!

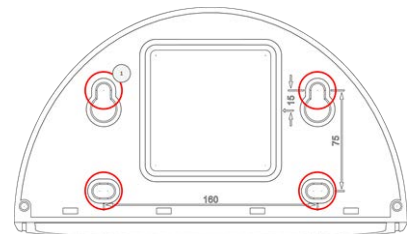
Drilling template: www.mobotix.com > Services > Download Center > Marketing & Documentation > Drilling Templates.

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



2. Fully push the dowels [W.8](#), p. 20 into the holes you drilled.
3. Remove the protective foil from the black wall sealing [W.10](#), p. 20 and apply it to the back of the Wall Mount (the surface must be clean and free of grease).



4. Pass the network cable through the large square opening into the Wall Mount.

5. Use the supplied hex head screws [W.7, p. 20](#) to install the Wall Mount at the intended position.
6. Remove the rubber plugs from the front of the camera.



7. Prepare the on-site network cable for connection with the camera patch cable using a standard connector. Excess cable can be stored easily within the Wall Mount (see [Connecting the Camera, p. 49](#)).
8. Using the supplied Allen wrench [W.2, p. 20](#), secure the camera to the bottom plate of the Wall Mount with two long Allen screws [W.5, p. 20](#) and one washer [W.6, p. 20](#) each.
9. Connect the camera to the PoE network connection of the building (see [Connecting the Camera to the Network, p. 50](#)).
10. Install the bottom plate [W.2, p. 20](#) with the camera in the Wall Mount:
 - Use two short Allen screws [W.4, p. 20](#) with one washer [W.6, p. 20](#) each to secure the camera on the rear side of the bottom plate ① .



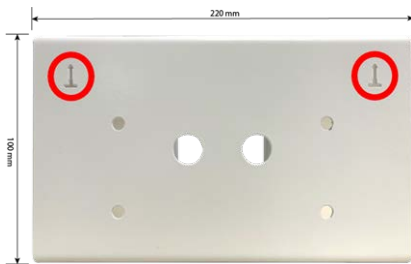
- Use two long Allen screws [W.5, p. 20](#) with one washer [W.6, p. 20](#) each to secure the camera on the front side of the bottom plate ② .
11. Push the rubber plugs [M.7, p. 19](#) into the screw holes of the camera (① and ② in the figure above).

Mounting on a Corner (Corner/Pole Mount)

CAUTION!

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. 50](#)).

Dimensions MOBOTIX p71 ECO Thermal Corner/Pole Mount



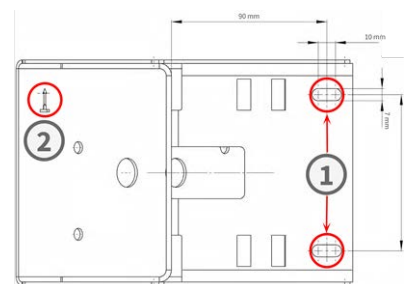
NOTE!

When installing, the arrows of the mount must point upwards.

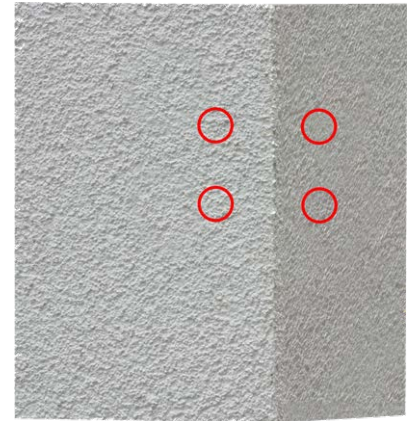


Step by Step

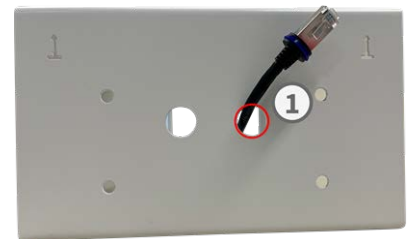
1. Mark the four dowel holes ① on the corner of the building using the drilling template. Make sure that the arrows ② on the Corner/Pole Mount point upwards.



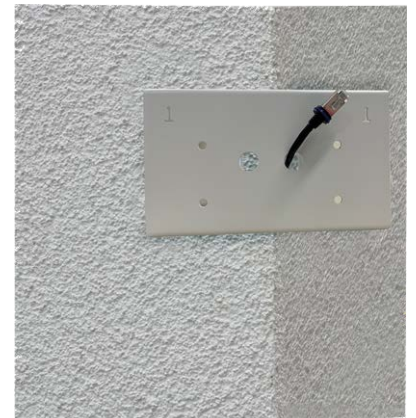
2. Drill the holes with a 10 mm wall drill then place the included dowels in the drilled holes.



3. Push the supplied network cable through one of the holes ① .



4. Screw the Corner/Pole Mount into place on the corner of the building using the wood screws and washers.



5. Proceed by mounting the Wall Mount to the Corner/Pole Mount as described in [Mounting with the Wall Mount, p. 44](#).

Mounting on a Pole (Corner/Pole Mount)

CAUTION!

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. 50](#)).

NOTE!

The pole should have a diameter between 60 and 180 mm.

Mounting

Mounting Options

For dimensions of the Corner/Pole Mount, please refer to [Dimensions MOBOTIX p71 ECO Thermal Corner/Pole Mount](#), p. 46.

Step by Step

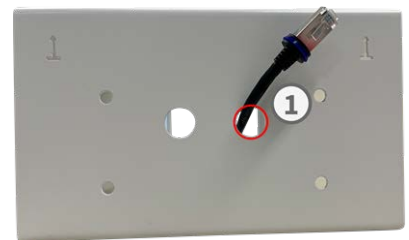
1. Guide the supplied stainless steel straps along the cutouts in the Corner/Pole Mount as shown in the figure.



2. Prepare the pole mount with steel straps
3. Tighten the stainless steel straps on the Corner/Pole Mount with a screwdriver. If necessary, the ends of the straps can be cut off.



4. Push the supplied network cable through one of the holes ①.



5. Prepare the network cabling
6. Proceed by mounting the Wall Mount to the Corner/Pole Mount as described in [Mounting with the Wall Mount](#), p. 44.

Connecting the Camera

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

Connecting a USB-C Device

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

1. To uncover the USB-C port, remove the bayonet catch by rotating it counter-clockwise, then remove the blue rubber plug.



2. Plug the USB-C connector into the port and press in firmly until the blue sealing ring clicks into place.



3. Attach the bayonet catch and turn it clockwise until it clicks in the locked position.
4. Connect the USB-C device to the other end of the USB cable.

Connecting the Camera to the Network

CAUTION!

- 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.
- It is highly recommended to use an uninterruptible power supply (UPS) for the switch.
- The maximum length of the network cable for remotely supplying power is 100 m (300 ft).

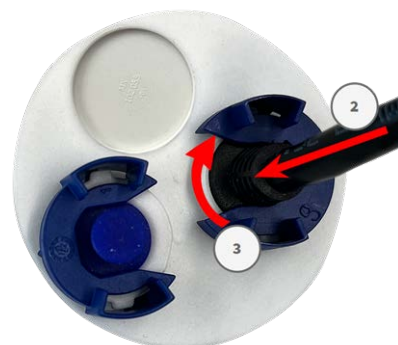


Connecting the camera to the network

1. To uncover the RJ45 network connector, remove the bayonet catch ① by rotating it counter-clockwise and pull it off with the blue rubber plug.

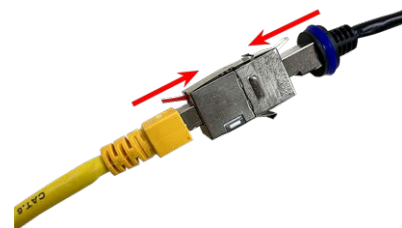


2. Plug the supplied patch cable ② into the network connector and press the plug in firmly until the blue sealing ring clicks into place.



3. Attach the bayonet catch ③ by rotating it clockwise.

4. Connect the supplied patch cable [1.6, p. 18](#) with the PoE network connection of the building using a standard connector.



Operating the Camera

This section contains the following information:

Getting Started	54
Boot Options of the Camera	54
Initial Camera Setup	56

Getting Started

You can use the MOBOTIX p71 ECO Thermal with any current browser – or with MxManagementCenter.

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

1. **Connect the camera to the network.** The network cable will also provide power to the camera (see [Connecting the Camera to the Network](#), p. 50).
2. **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 as described in [Initial Camera Setup](#), p. 56.
3. **Configure camera:** You can use the user interface of the camera in a browser or in MxManagementCenter.

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.

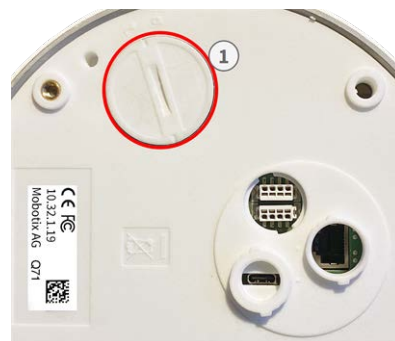
NOTE!

Pressing the key of the camera will let the camera announce the current IP address of the camera on the speaker.

CAUTION!

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

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



3. Take a suitable tool for operating the boot menu (e.g. the tweezers [M.3](#)), **but do not use a paper clip or pointed objects!**

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



NOTE!

The number of flashes corresponds to the current boot option.

6. **Switch the boot option:** Press the key (< 1 sec). After the last boot option, the camera returns to the first boot option (LED flashes once).
7. **Select a boot option:** Press the key longer (> 2 sec). The camera confirms the selection by flashing the LED rapidly for 3 seconds. After 20 sec, the camera will play a sound according to the table below.

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

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.

Initial Camera Setup

Check the Preconditions

- Is the camera running (check camera power LED)?
- Is the camera accessible using my current network connection?
- Do I have the necessary information for successfully running the camera on the network?
 - IP address of NTP (*Network Time Protocol*) server.
 - IP address of network gateway (if required).

Access the Camera

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

EXAMPLE:

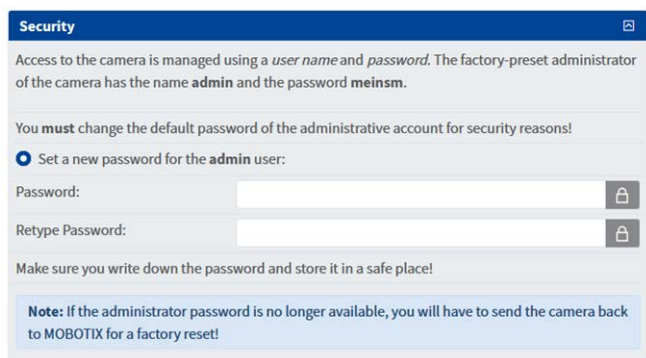
Taking a factory IP address of `10.32.24.129` as an example, you would enter `mx10-32-24-129.local` in the address bar of your browser.

- Click on **Admin Menu** and enter the default access credentials (`admin/mein-sm`).

3. In the **Quick Installation** dialog, select your language, then click on .

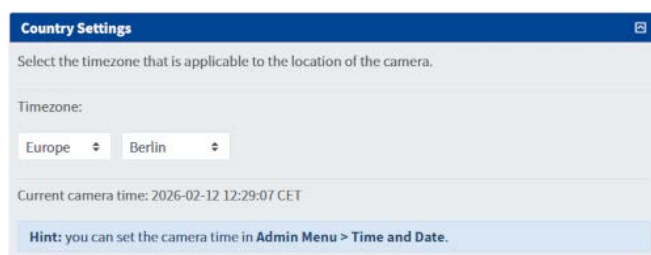


4. Continue clicking on  and do not change any settings until you reach the **Security** dialog.
Set a password for the admin user of the camera. Make sure you keep the password in a safe place.

**NOTE!**

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

5. Continue clicking on  and do not change any settings until you reach the **Country Settings** dialog.
Check the time zone and adjust it, if necessary.



Operating the Camera

Initial Camera Setup

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

Audio Settings

The camera has a built-in microphone and speaker. If you press the camera's R key, the camera will announce its network data over the speaker.

Activate the following devices:

☐ Microphone

☒ Speaker

Note: If you need to permanently deactivate the microphone, open **Admin Menu > Speaker and Microphone**, click on **More**, and then on the **disable** link.

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

Camera Name

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

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

Camera Name:

Factory Default

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

8. Continue clicking on  and do not change any settings until you reach the **Time Server** dialog.
- Enter the IP address of your network time servers as provided by your network administrator (e.g. 192.168.1.1 ptbtime1.ptb.de; use spaces to separate multiple addresses).

Time Server

NTP  Select the protocol offered by remote time servers.

 Enter time server address(es).

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

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

Store Configuration

Users and Passwords

Administrative Account

User Name: 'admin'

Password: 'xxxxxxxxxx' 

Public access is disabled.

Ethernet (LAN)

On 

Automatic configuration

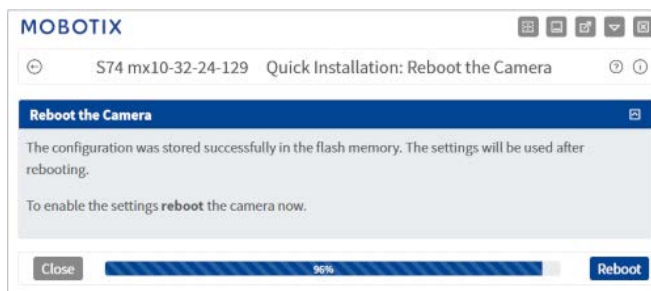
DHCP

Routing

not configured 

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

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



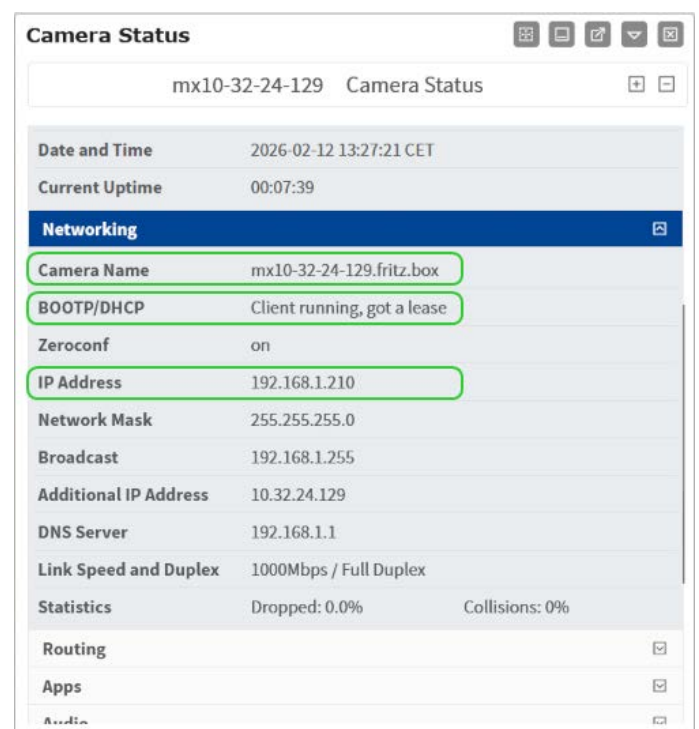
11. Enter the new password you entered in the **Security** dialog when prompted by the camera.

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

Find the "Real" IP Address of the Camera

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

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



NOTE!

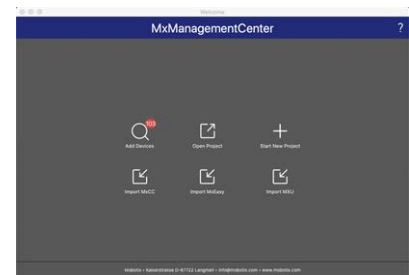
Make sure to record this address in the system documentation together with the camera name!

Network Settings on the Camera in MxMC

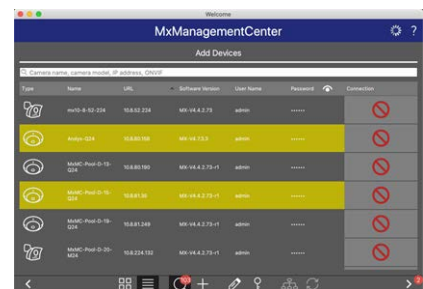
MxManagementCenter is a video management software for setting up and using the entire video surveillance system that provides a range of functions for different tasks and user groups. You can download the newest release of MxManagementCenter from the MOBOTIX website (www.mobotix.com > Services > Download 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_\(software\)](http://en.wikipedia.org/wiki/Bonjour_(software))), the application finds not only MOBOTIX cameras on the same subnet, but also in other subnets. Normally, you would not be able to establish any connection to cameras in a different network or subnet.

NOTE!

This is the case, for example, if you are integrating cameras into a network without DHCP server (i.e. with fixed IP addresses) and the IP address range is different from the 10.x.x.x range supported by the cameras in addition to DHCP.

MxManagementCenter can automatically configure such a camera so that it is "integrated" into your existing network.

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

**NOTE!**

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

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

NOTE!

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

Camera Software in the Browser

This section contains the following information:

Access the Camera in the Web Browser	64
Basic Settings	64

Camera Software in the Browser

Access the Camera in the Web Browser

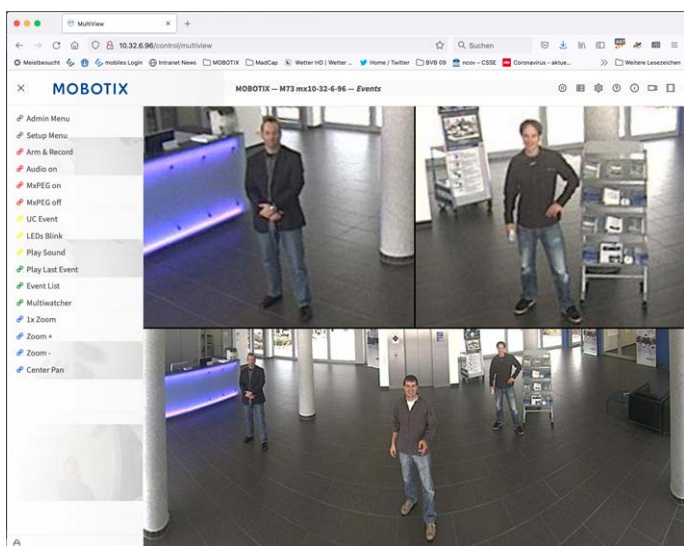
The integrated software of the MOBOTIX p71 ECO Thermal features a multitude of functions, such as video motion detection, long-term recording, alarm messaging and video IP telephony. Especially remarkable are the AI-based analytics features and the possibility to install third-party apps on the camera. Thanks to the virtual PTZ features, you can continuously zoom into or out of the live image using either the mouse wheel or a joystick.

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.

Access the Camera in the Web Browser

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



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

NOTE!

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

Basic Settings

NOTE!

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

CAUTION!

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

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

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

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

- **Admin Menu:** This menu contains the basic configuration dialogs of the camera (e.g. passwords, interfaces, software update).
- **Setup Menu:** This menu contains the dialogs for configuring the image, event and recording parameters. Some of these settings can be changed using the corresponding Quick Controls in the Live screen.

NOTE!

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

Maintenance

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Replacing the microSD card

CAUTION! Risk of equipment damage and data loss!

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

1. **Deactivate storage:** If storage on microSD card is still activated, deactivate it in the camera's web interface: **Admin Menu > Storage on External File Server / Flash Device**, then reboot the camera.
2. Disconnect the camera's power supply.
3. **Open the screw cap:** Using a coin or wide screwdriver, turn the screw cap ① on the back of the camera to the left and remove it.



4. Disconnect the camera's power supply.
5. **Unlock the microSD card holder:** Flip up the metal cover ② of microSD card (e.g. with a fingernail).
6. **Remove the microSD card**
7. **Insert microSD card:** Insert the new microSD card in the holder and close the metal cover with light pressure until it snaps in.
8. **Close the screw cap:** Reinsert the screw cap and turn it to the right using a wide screwdriver.



9. **Activate storage:**

- Format a new microSD card as outlined in the camera's *Storage on External File Server / Flash Device* online help topic.
- If the microSD card already is formatted with MxFFS, you can activate storage in **Admin Menu > Storage on External File Server / Flash Device**. After rebooting the camera, recording will automatically resume.

10. **Reboot the camera.**

Cleaning the Camera

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

If the lens is dirty from the installation process, clean it using a lint-free cotton cloth. Make sure that the lens is still in focus after cleaning and adjust the lens' focus if required.

To protect the camera from damage, only use the supplied mounting supplies (see [Mounting Supplies: Scope of Delivery, p. 19](#)).



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