PTMount-Thermal for MOBOTIX S15D

- S15D: Modular PoE network camera with max. two sensor modules for concealed installation (not included)
- All components weatherproof (S15D: IP65, sensor modules/PTMount-Thermal IP65), –30 to +60 °C/–22 to +140 °F
- Sensor modules (Thermal, Day, Night, Night-LPF) and PTMount-Thermal can be freely combined
- Sensor module cables max. 2 m each (e.g., for indoors/outdoors)

Manually adjustable dome mount with high-end thermal sensor and 43/65/135 mm focal length for MOBOTIX S15D, can be tilted/swiveled along three axes, for wall, ceiling and upright installation; up to two standard/thermal sensor modules or PTMount-Thermal can be connected

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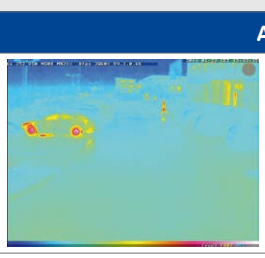
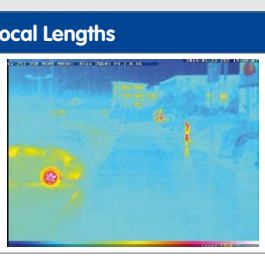
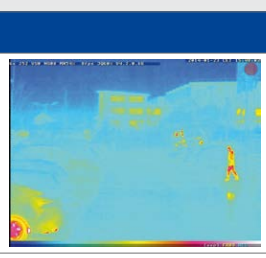
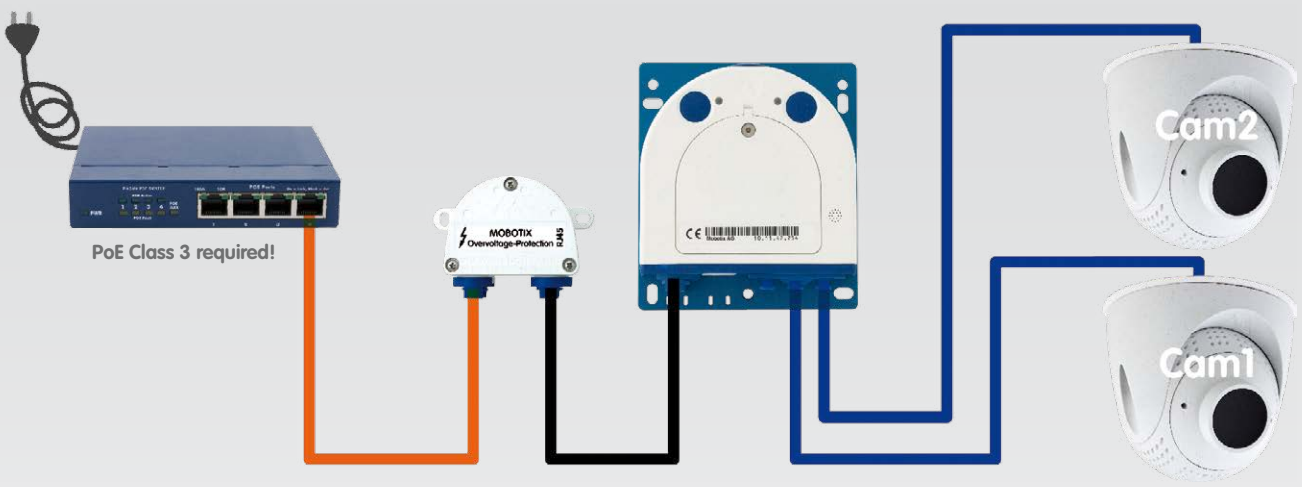
Standard Delivery

Item	Count	Part Name
1.1	1	Sphere with rotating Thermal sensor module (installed)
1.2	1	Foot (installed)
1.3	1	Base plate (installed)
1.4	1	Swivel ring (installed)
1.5	1	Sealing
1.6	1	Sensor cable 2 m/6.6 ft (installed)
1.7	4	Washer Ø 4.3 mm, stainless steel
1.8	4	Wood screw 4x40 mm, stainless steel
1.9	4	Screw anchor S6
1.10	1	Allen wrench 2 mm
1.11	1	Allen wrench 2.5 mm

Available Focal Lengths			
Example image			
Article number	MX-SM-PTMount-Thermal-L43	MX-SM-PTMount-Thermal-L65	MX-SM-PTMount-Thermal-L135
Focal length (≡35 mm)	43 mm	65 mm	135 mm
Actual focal length	7.5 mm	13 mm	19 mm
Horizontal image angle	45°	25°	17°

Adjustable Along Three Axes

Example for Connecting PTMount-Thermal Modules to the S15D



Power supply (e.g., PoE switch) | MX-Overvoltage-Protection-Box (highly recommended!) | S15D | 2 x PTMount-Thermal or 1 x PTMount-Thermal, 1 x optical

Caution!

When using a MOBOTIX S15D, ***which had been set to PoE Class 2 before, you need to set the camera to use PoE Class 3 before connecting the sensor modules!***

Proceed as outlined in the following:

- Install the camera and the sensor modules.
- Make sure that the sensor modules are ***not*** connected to the camera.
- Connect the power supply and start the camera.
- Set the camera to PoE Class 3 (see camera manual) and set the modules that are to be used.
- Disconnect the camera's power supply.
- Connect the sensor modules to the S15D.
- Reconnect the power supply of the camera.

Preparatory Steps

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

- Remove the swivel ring and the base plate.

- 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 properly.

- Drill the holes for the base plate (drilling template see *Section «Dimensions/ Drilling Template»*).

- In the center of the drilling template, drill another hole into the wall or faceplate for the sensor cable.
- Insert the screw anchors into the holes, if required.

Installing the PTMount-Thermal

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

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

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

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

- 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.

- 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.

Continue to bring the camera into service as described in *Section «Initial Operation S15D with PTMount-Thermal»*.

Innovations – Made in Germany

The German company MOBOTIX AG is known as the leading pioneer in network camera technology and its decentralized concept has made high-resolution video systems cost-efficient.

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Initial Operation S15D with PTMount-Thermal

Step 1: Establish Network Connection and Power Supply

- Connect the network port of the camera to a router or switch (see *S15 Camera Manual, Section «Network and Power Connection, Additional Cables»*).
- If you do not use a PoE switch, establish the power supply of the camera (using a PoE Power Adapter/MX-NPA-Box).
- Configure the camera for your network (see *S15 Camera Manual, Section «Manual and Automatic Operation»*).

Step 2: Open User Interface in Browser

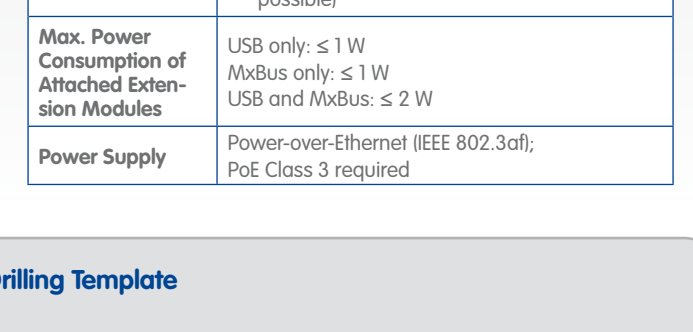
- Monitor the camera LEDs and make sure that the S15D is ready (green LED is on, red LED flashes slowly; see *S15 Camera Manual, Section «Camera Startup Sequence»*).
- Enter the IP address of the camera you determined in *Step 1* in the address bar of the browser.

Step 3: Adjust PTMount-Thermal According to Live Image

- Adjust the sensor module by watching the live image of the camera. ***Firmly tighten all screws of the PTMount-Thermal!***

Optional: Exchange the Sensor Modules in the Dual Image

- In the camera's browser interface, click on the **Admin Menu** button and in the **Hardware Configuration** section, open the **Image Sensor Configuration** dialog.
- You can use the **Left Sensor**, **Right Sensor** dropdown fields to select the sensor module (*External sensor Cam1*, *External sensor Cam2*) that will be shown at the left or at the right in the dual image.
- Close the dialog and save the configuration of the camera.



Notes

- This product must not be used in locations exposed to the dangers of explosion.
- Make sure that you install the S15D and this product as outlined in the installation instructions in this document and in *Chapter 2, «Installation»* of the *S15 Camera Manual* (www.mobotix.com > **Support > Manuals**).
- When installing this product, make sure that you are only using genuine MOBOTIX parts and MOBOTIX connection cables.
- Only install this product on suitable, solid materials that provide for a sturdy installation of the fixing elements used.
- Always observe the special export regulations (see supplied ***Special Export Regulations***).
- The PTMount-Thermal is only to be used in combination with the MOBOTIX S15D.
- The PTMount-Thermal requires a software release MX-V4.3.0 or higher on the MOBOTIX S15D.
- In contrast to the standard sensor modules, the PTMount-Thermal does not have either a microphone or LEDs. When running the camera without standard sensor module, you need to attach an external microphone if you need this feature. This also means that the operating status of the camera is only shown by the LEDs on the camera body.
- Glass panes are blocking thermal radiation! Make sure that there aren't any glass panes between the PTMount-Thermal and the objects that are to be observed.
- Make sure that the operating temperature of –30 to +60 °C/–22 to +140 °F is not exceeded.

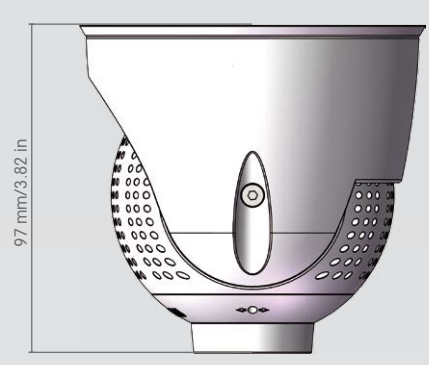
Technical Specifications

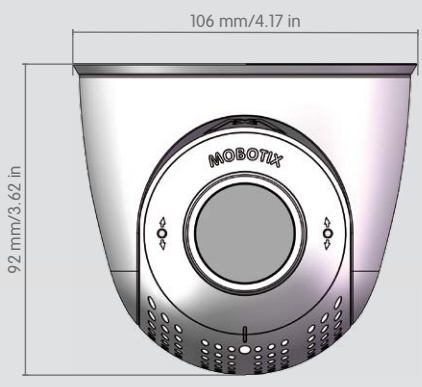
PTMount-Thermal	
Lens Options	L43 (45°), L65 (25°), L135 (17°) (horizontal field of view)
Sensitivity	NETD typ. 50 mK (equals 0.05°C), <79 mK
Image Sensor	Uncooled microbolometer, 336x252 pixels, spectral range 7.5 to 13.5 µm
Temperature Measurement Range	–40 to +550 °C/–40 to +1.022 °F (temperature of the displayed objects)
Max. Image Size	Can be scaled up to 2592x1944 (5MP), dual images are automatically scaled to size of the standard sensor module
Max. Frame Rate	9 fps (when displaying a standard sensor module and a thermal sensor module, the overall frame rate of the camera is reduced to 9 fps)
Software Features	Off-color/black & white image display, mirrored image, obscured image areas, vPTZ (virtual pan/tilt/zoom), text and logo display, display of event/action symbols, meter display (bar chart or diagram), temperature control windows
Power Consumption	Typ. 1.5 W per PTMount-Thermal
Operating Conditions	IP65 (DIN EN 60529) IK04 (IEC 62262) –30 to +60 °C/–22 to +140 °F (DIN EN 50155)
Certificates	EMC (EN 55022, CISPR 22, EN 55024, EN 61000-6-1/2) Others (FCC Part 15B, CFR 47, AS/NZS 3548)

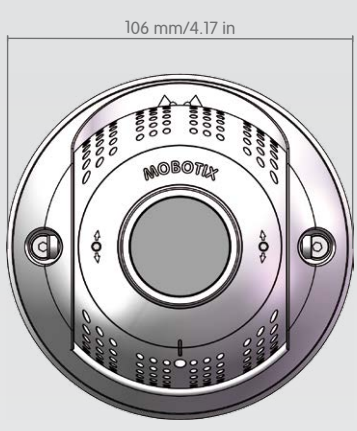
PTMount-Thermal	
MTBF	• > 80.000 h in stationary installations • > 40.000 h in mobile installations
Dimensions	Max. length: 97 mm/3.82 in, max. diam (sealing): 106 mm/4.17 in
Materials	Housing: PBT GF30/GK30, sealing: Silicone
Weight	about 623 g/1.37 lb. (PTMount-Thermal with sensor cable)

S15D with PTMount-Thermal	
Image Formats (per sensor)	Standard formats like Full HD, VGA, etc. up to 2592x1944 (5MP) and custom formats
Alarm/Events	Video Motion detection, MxActivitySensor, external signals, shock detector, notification via e-mail, FTP, pre- and post-alarm images
Operating Conditions	S15D: IP65 (DIN EN 60529) –30 to +60 °C/–22 to +140 °F (DIN EN 50155)
Power Consumption	Depending on sensor modules used: • 1 thermal, 1 optical: typ. 6.5 W (briefly up to 7.5 W possible) • 2 thermal: typ. 7 W (briefly up to 8 W possible) • 1 thermal: typ. 5.5 W (briefly up to 6.5 W possible)
Max. Power Consumption of Attached Extension Modules	USB only: ≤ 1 W MxBus only: ≤ 1 W USB and MxBus: ≤ 2 W
Power Supply	Power-over-Ethernet (IEEE 802.3af); PoE Class 3 required

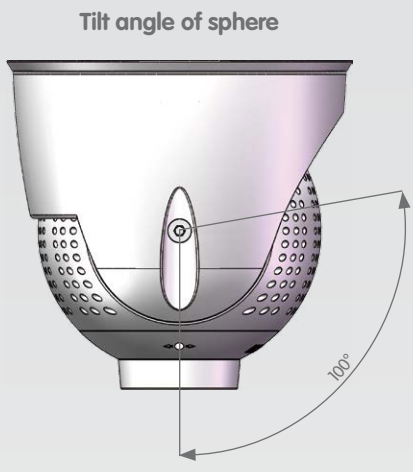
Dimensions/Drilling Template

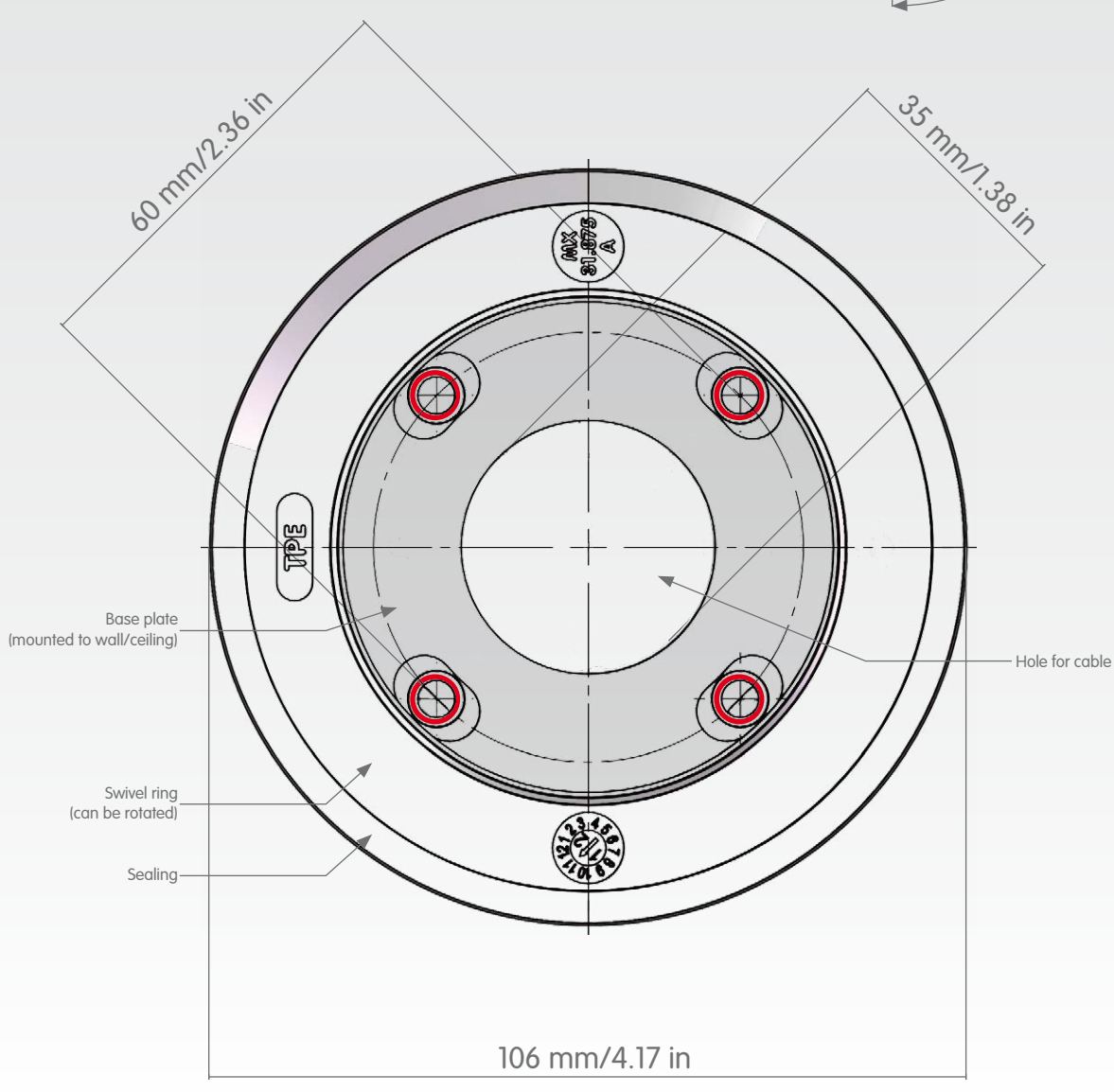






Tilt angle of sphere





The MOBOTIX YouTube Channel
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