



# Technical Specifications

## MOBOTIX Thermal Validation App

### MOBOTIX Thermal Validation App

The MOBOTIX Thermal Validation app detects and filters out warm objects that appear in the camera image but are not critical to the application at hand; one example of this would be a vehicle with a hot engine driving through the monitored area.

- Expands on the temperature measurement functions of MOBOTIX TR cameras
- Filters out vehicles as a non-critical heat sources (e.g. hot body parts or exhaust)
- Up to 20 temperature measurement ranges within the camera's field of view
- Each temperature measuring range (e.g., emissivity) can be calibrated individually
- Detects physical manipulations of the thermal sensor (e.g. covering the sensor)
- MOBOTIX events using MxMessageSystem
- Temperature data and threshold value status of the measuring ranges are transmitted via MODBUS/TCP and JSON/XML via HTTP(S)



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## Product Information

Product Name	MOBOTIX Thermal Validation App
Supported MOBOTIX Cameras	M73, S74 (Thermal Radiometry Sensor required)
Minimum Camera Firmware	V7.3.2.x
MxManagementCenter Integration	<ul style="list-style-type: none"><li>min. MxMC v2.7</li><li>Advanced Config license required</li><li>Event Search: Smart Data Interface license included</li></ul>
MOBOTIX HUB com- patibility	<ul style="list-style-type: none"><li>min. MOBOTIX HUB version: 2021 R1</li><li>min. MOBOTIX HUB license level for Analytics Events: L2</li><li>min. MOBOTIX HUB license level for MOBOTIX Event Search Plug-In: L4</li></ul>
Trial license	30-day trial license pre-installed

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## Product Features

App Features	<ul style="list-style-type: none"> <li>■ App optimizes MOBOTIX Thermal Radiometry cameras for use in the fields of waste management and logistics</li> <li>■ Enables filtering of vehicles (e.g. construction vehicles and forklifts) as a non-critical source of high temperatures (e.g. by measuring hot body parts such as the exhaust or engine cover)</li> <li>■ Extension of the temperature measurement functions of MOBOTIX Thermal Radiometry cameras</li> <li>■ Definition of up to 20 temperature measurement areas within the field of view of the camera</li> <li>■ individual calibration of each temperature measurement area (e.g. emissivity values)</li> <li>■ Temperature events when defined temperature thresholds are exceeded</li> <li>■ Detection of physical manipulation of the thermal sensor (e.g. sensor covered)</li> <li>■ MOBOTIX events via MxMessageSystem</li> <li>■ Reporting of temperature data and threshold status of each area via MODBUS/TCP and JSON / XML via HTTP(S)</li> </ul>
Maximum number of measurement areas	20
Supported thermal sensor types	Thermal Radiometry
Meta Data / Statistic formats	JSON
Integration Interfaces	<ul style="list-style-type: none"> <li>■ Milestone X-Protect (via XML)</li> <li>■ Generic 3rd party integration through XML, JSON and MODBUS/TCP</li> </ul>
MxMessageSystem supported	Yes
MOBOTIX events	Yes
ONVIF Events	Yes (Generic Message events)
Trial license	30-day trial license pre-installed

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## Scene Requirements for Object Recognition

Recommended camera position no restrictions

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## Technical App Specifications

Synchronous / Asynchronous  
Asynchronous App

Simultaneous execution of other apps Yes (depending on performance expectations)

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# MOBOTIX

BeyondHumanVision

[EN\\_04/24](#)

MOBOTIX AG • Kaiserstrasse • D-67722 Langmeil • Tel.: +49 6302 9816-103 • [sales@mobotix.com](mailto:sales@mobotix.com) • [www.mobotix.com](http://www.mobotix.com)

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