



Technical Specifications

MOBOTIX Thermal Validation App

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The MOBOTIX Thermal Validation App expands the temperature measurement functions of MOBOTIX TR cameras. It detects and filters out non-critical heat sources in the camera image, such as vehicles with hot engines passing through the monitored area.

- Extends the temperature measurement capabilities of MOBOTIX TR cameras
- Filters out non-critical heat sources, such as vehicles, hot surfaces, or exhaust emissions
- supports up to 20 independent temperature measurement areas within the camera's field of view
- Allows individual calibration of each measurement area (e.g., emissivity settings)
- Detects tampering with the thermal sensor, such as covering or obstructing the lens
- Generates events via the MOBOTIX MxMessageSystem
- Transmits temperature data and measurement status via MODBUS/TCP and JSON/XML over 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">min. MxMC v2.7Advanced Config license requiredEvent Search: Smart Data Interface license included
MOBOTIX HUB compatibility	<ul style="list-style-type: none">min. MOBOTIX HUB version: 2021 R1min. MOBOTIX HUB license level for Analytics Events: L2min. MOBOTIX HUB license level for MOBOTIX Event Search Plug-In: L4
Trial license	30-day trial license pre-installed

Product Features

App Features	<ul style="list-style-type: none">App optimizes MOBOTIX Thermal Radiometry cameras for use in the fields of waste management, recycling and logistics.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).Differentiation between hot spots caused by thermal reflections and valid temperature events to further reduce false alarms.Thermal flame detection as an additional measure to ensure reliable alarming of various fire classes.Extension of the temperature measurement functions of MOBOTIX Thermal Radiometry cameras (CNPP 19005 compliant).Definition of up to 20 temperature measurement areas within the field of view of the camera.Individual calibration of each temperature measurement area (e.g. emissivity values).Temperature events when defined temperature thresholds are exceeded.Detection of physical manipulation of the thermal sensor (e.g. sensor covered or changed field of view).MOBOTIX events via MxMessageSystem.Reporting of temperature data and threshold status of each area via MODBUS/TCP and JSON / XML via HTTP(S)
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">▪ Milestone X-Protect (via XML)▪ Generic 3rd party integration through XML, JSON and MODBUS/TCP
MxMessageSystem supported	Yes
MOBOTIX events	Yes
ONVIF events	Yes (Generic Message events)
Trial license	30-day trial license pre-installed

Scene Requirements for Object Recognition

Recommended camera position no restrictions

Technical App Specifications

Synchronous / Asynchronous App	Asynchronous
Simultaneous execution of other apps	Yes (depending on performance expectations)

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