



# Technical Specifications

## MOBOTIX Object Recognition App

### Object Recognition Based on Artificial Intelligence

The app's artificial intelligence-based algorithms collect behavioral data on individuals and objects. In a heat map, the most frequented locations in the detection are color-coded. Furthermore movements in defined restricted areas can be detected.

- Free of charge and license-free.
- Motion detection in (defined) restricted areas.
- Person/object counting based on motion detection (optional: accumulated).
- Creates Heatmaps.
- Auto-generated counting and heat map reports.
- Can be used with all cameras of the MOBOTIX 7 system platform.



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#### Best suited for the requirements of the following industries:

Utilities, Energy & Mining; Industry & Production, Government, Traffic & Transportation, Retail, Healthcare, Education & Science

## Product Information

Product Name	MOBOTIX Object Recognition App
Supported MOBOTIX Cameras	Mx-M73A, Mx-S74A
Minimum Camera Firmware	V7.0.6.x
MxManagementCenter Integration	<ul style="list-style-type: none"><li>▪ min. MxMC v2.4</li><li>▪ Advanced Config license required</li></ul>

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## Product Features

App Features	<p>Analytics features:</p> <ul style="list-style-type: none"><li>▪ Deep learning object recognition as basis for MxAnalytics features</li><li>▪ Restricted Area (Motion Detection)</li></ul> <p>Basicfeatures:</p> <ul style="list-style-type: none"><li>▪ time table to enable MxAnalytics only within defined schedules (e.g. opening hours)</li><li>▪ MOBOTIX events via MxMessageSystem</li></ul>
Recognized objects	<ul style="list-style-type: none"><li>▪ Persons</li><li>▪ Vehicles: Car, Truck, Bus, Motorcycle, Bicycle, Boat, Airplane, Train</li><li>▪ Animals: Bird, Cat, Dog, Horse, Sheep, Cow, Elephant, Bear, Zebra, Giraffe</li></ul>
Supported image sensor types	Day, Night, Day/Night
Dual / Multi Sensor usage	No
MxMessageSystem supported	Yes
MOBOTIX events	Yes
ONVIF Events	Yes (Generic Message events)

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## Hardware Requirements

Camera Sensor Connector	Connector 1 (Only one image sensor usable)
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## Scene Requirements for Object Recognition

Recommended camera position	wall mounted
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Recommended installation height (camera)	2m - 4m
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Recommended viewing angle on object	0° - 30° (wall mount perspective)
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Minimum object size	1/10 of image height
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## Technical App Specifications

Synchronous / Asynchronous App	Asynchronous
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Detection accuracy	Person: > 90% Vehicle: > 80%
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Counting accuracy	> 90%
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Processed number of frames per second	typ. 5 fps
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