



# 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.



BeyondHumanVision

MOBOTIX

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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	<div><div>■ min. MxMC v2.4</div><div>■ Advanced Config license required</div></div>

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Product Features

App Features	<div>Analytics features:</div> <div><div>■ Deep learning object recognition as basis for MxAnalytics features</div><div>■ Restricted Area (Motion Detection)</div></div> <div>Basicfeatures:</div> <div><div>■ time table to enable MxAnalytics only within defined schedules (e.g. opening hours)</div><div>■ MOBOTIX events via MxMessageSystem</div></div>
Recognized objects	<div><div>■ Persons</div><div>■ Vehicles: Car, Truck, Bus, Motorcycle, Bicycle, Boat, Airplane, Train</div><div>■ Animals: Bird, Cat, Dog, Horse, Sheep, Cow, Elephant, Bear, Zebra, Giraffe</div></div>
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
Recommended installation height (camera)	2m - 4m
Recommended viewing angle on object	0° - 30° (wall mount perspective)
Minimum object size	1/10 of image height

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## Technical App Specifications

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

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