Technical Specifications

MOBOTIX MxAnalytics AI 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. Best suited for: Utilities, Energy & Mining; Industry & Production; Government; Traffic & Transportation; Retail; Healthcare; Education & Science

- 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

HEVCAdvance™

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Technical Specifications

Product Information

Product Name	MxAnalytics AI App
Supported MOBOTIX Cameras	Mx-M73A, Mx-S74A
Minimum Camera Firmware	V7.0.6.x
MxManagementCenter Integration	- min. MxMC v2.4 - Advanced Config license required

Product Features

App Features	Analytics features: - Deep learning object recognition as basis for MxAnalytics features - People / Object Counting - Heatmap - Restricted Area (Motion Detection) Other features: - time table to enable MxAnalytics only within defined schedules (e.g. opening hours) - auto-generated people / object counting reports - auto-generated heatmap reports - MOBOTIX events via MxMessageSystem
Recognized objects	Persons Vehicles: Car, Truck, Bus, Motorcycle, Bicycle, Boat, Airplane, Train Animals: Bird, Cat, Dog, Horse, Sheep, Cow, Elephant, Bear, Zebra, Giraffe
Maximum number of counting corridors	16
Maximum number of restricted areas	20

Supported image sensor types	Day, Night, Day/Night
Dual / Multi Sensor usage	No
MxMessageSystem supported	Yes
Report export formats	Counting reports: CSV and HTML (table view) Heatmap reports: JPEG
MOBOTIX events	Yes
ONVIF Events	Yes (Generic Message events)

Hardware Requirements

Camera Sensor Connector	Connector 1 (Only one image sensor usable)

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

Scene Requirements for Object Counting / Heatmapping

Recommended camera position	ceiling mounted (90°), wall mounted (0°)
Recommended installation height (camera)	2,5 - 10 m (depending on lens variant)
Minimum object size	250px

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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