VEZHA Object Detection

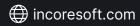Product Specification

Product Description

IncoreSoft advanced technology uses neural networks to power video analytics, delivering improved accuracy in both crowded outdoor and indoor environments. The system determines the type of an object and issues alert according to the specified rule. Object classification goes beyond left bags and people, it includes vehicles, distinguishing between cars, trucks, buses, motorcycles, and bicycles.
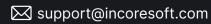
VEZHA Object Detection Features

- Create your own rules for any situation (presence or absence) of the object by period intervals and the selected area
- Tracking and classification of over 50 objects. Previous analytics classified objects only when they were moving, now objects are additionally classified if they remain stationary.
- Expanded Object Classification: Our video analytics goes beyond people and vehichles to include cars, trucks, buses, motorcycles, and bicycles.

The minimum size (WxH) upon camera resolution 2MPx supported for:
- Person size for detection minimum: 25×40 px, recommended: 50×125 px
- Car size for detection minimum: 25x25 px, recommended: 150×100 px
- Bicycle size for detection minimum: 40x70 px, recommended: 90x100 px
- Motorcycle size for detection minimum: 25x30 px, recommended: 70x90 px
- Bus size for detection minimum: 90x75 px, recommended: 200x150 px
- Truck size for detection minimum: 80x70 px, recommended: 180x150 px
- Animal size for detection minimum: 30x40 px, recommended: 120x140 px
- Item size for detection minimum: 30x40 px, recommended: 100x150 px

General Information

Supported Operating Systems	Linux / Windows
Supported Platform	x86_64 / Jetson
Supported Hardware Acceleration	Intel OpenVINO / NVIDIA TensorRT
Supported Database	MySQL / PostgreSQL / MS SQL / Oracle

Interface

Camera Stream Protocol	RTSP / HTTP / HTTPS / ONVIF
Recorded Video Formats	MKV; MP4; ASF; AVI; MJPEG
Supported Codecs	MPEG-4; MJPEG; H.264; H.265
Output Formats	JSON / XML / CSV

Main Functionality

Centralized Management	+
Finding and navigating the vehicle route	+
Real-time alarms	+
Integration with Microsoft Power BI, Google Data Studio, and others	+
Unlimited Lists Support	+
Notification settings: internal alarm, by Email / SMS / HTTP / Telegram	+
REST API	+
Database import (CSV) and export support (EXCEL / PDF / CSV / JSON)	+
Integrated business logic builder	+
Support for various interface languages	+

VMS Integration

Event Based Integration	Luxriot Evo, Milestone XProtect, Nx Meta, Genetec, Pelco and other
Plugins Integration	Luxriot Evo, Milestone XProtect, Nx Meta, Pelco

Security Features

Active Directory / LDAP	+
Groups and roles support	+
Encryption of all packages	+