IncoreSoft ®

VEZHA Parking Management

Product Specification

Product Description

Incoresoft Parking Managment advanced technology using neural networks to analyze video, provides high-quality standards of image recognition. This solution helps to automate parking management, reduce the influence of the human factor arising in the processes of producing high volume of work and effectively monitor the activity and capacity in the parking areas.

Solution Includes

◉ View of parking area with instant linking of a vehicle to the parking space it occupies
◉ Possibility to use a combination of parking space groups, vehicle types, and vehicle number lists in order to create rules for using parking spaces
◉ Binding of rules to time and days of the week
◉ Flexible system of parking space monitoring with instant notifications about violations of the specified parking rules
◉ View lists of occupied parking spaces with the parking space number, vehicle type, number and color
◉ Flexible charging system with the possibility of tariff binding from a single parking space, or vehicle to various groups, and their combinations
◉ Parking violations displaying the number of parking space, type of the vehicle and violated rule
◉ Schematic visualization of parking spaces with possibility of editing with built-in tools
◉ Flexible access rights for user groups to the application functionality (view, edit, delete information)
◉ Cross-platform and multi-language interface

VEZHA Parking Management Features

- Flexible system of rules for parking spaces.
- Constant monitoring of the parking zone.
- Detection of violation for the specified parking rule.
- Possibility of working with several parking spaces.
- Individual settings and descriptions for each parking space.
- A visual display of parking occupancy information in real time.
- Usage of neural networks to optimize and improve the accuracy of the plugin.
- Ability to perform statistical analysis of parking performance.
- Capture and recognize license plates within 8-30 seconds.
- Vehicle type and color detection with up to 95% accuracy.
- Supports recognizing single- and double-line, regular, inverse, and special types of license plates.

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	+