

License Plate Recognition

Product Specification



Product Description

Cutting-edge LPR analytics, powered by **vCloud.ai** improves security systems, creates safe and smart cities with high recognition accuracy, using neural networks in a traffic flow at speeds up to 300 km/h or up to 185 mph. **vCloud.ai** utilizes mobile and fixed LPR solutions that are designed to work stand-alone, or to be integrated with any third party hardware and software. LPR software with its newest technology will be able to identify license plate characters even in a low quality real world traffic video stream.

License Plate Recognition Features

99.6% recognition rate (including low quality, dirty, blurred, and damaged plates) up to 300 km/h (185 mph)*

100+ countries license plate support

Make, model, color, direction of vehicle, country/state, speed recognition

ADR (Accord Dangereuses Route) Recognition

Up to 6 lanes support

Unlimited lists (black, white, VIP, etc) quantity with different rules

Not limited number of license plates that can be recognized in one frame

Works on plates with 2 or 3-rows, ordinary, inverse, and special types of license plates

License plate for recognition:

- Europe - minimum: 48x12 px (WxH), recommended: 100x25 px (WxH)
- America - minimum: 50x25 px (WxH), recommended: 100x50 px (WxH)
- Arabs - minimum: 70x25 px (WxH), recommended: 100x35 px (WxH)

*subject to the instructions for camera installation

General Information

Supported Operating Systems	Linux / Windows
Supported Platform	x86_64 / Nvidia 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
Recommended Frame Rate	10+ fps for 100 km/h
Output data	Number plate OCR result Number plate type Make & Model Vehicle color ADR Vehicle category Country / State Timestamp
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)	+
Integration with any bases (police, stolen cars, etc) via connector	+
Integrated business logic builder	+
Support for various interface languages	+

VMS Integration

Event based integration	CluebaseVMS, 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	+

