vCloud.ai

Traffic Analytics
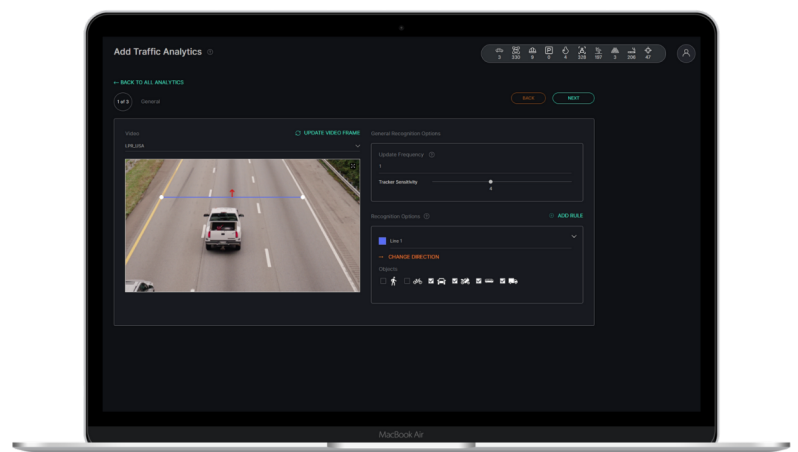
Product Specification

Product Description

vCloud.ai Traffic Analytics using neural networks is perfectly optimized and has a high detection accuracy. This software determines the intensity, quantity, and composition of the vehicle and people traffic. From tracking flow to identifying road incidents as soon as they occur, this video analytics module is perfect for controlled access roadways and urban traffic management. It's suitable for solving traffic analysis problems on various roads with the classification of a car class (passenger, truck, bus). Also can be used for solving problems of people traffic in various places. This analytics is used to count people in public places (shops, malls, crowded places etc.

Traffic Analytics Features

Modules are based on neural networks that enable classification by the types of vehicles (car, bus, truck, bike, motorbike) and the person with very high accuracy

Person size for detection minimum: 20x40 px (WxH), recommended: 50x125 px (WxH) (resolution camera 2MPx)

Car size for detection minimum: 20x15 px (WxH), recommended: 150 100 px (WxH) (resolution camera 2MPx)

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
Recommended Frame Rate	15+ fps
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	**CluebaseVMS,**Luxriot Evo, Milestone XProtect, Nx Meta, and other
Plugins integration	Luxriot Evo, Milestone XProtect, Nx Meta

Security Features

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