

Crowd Detection

Product Specification



Product Description

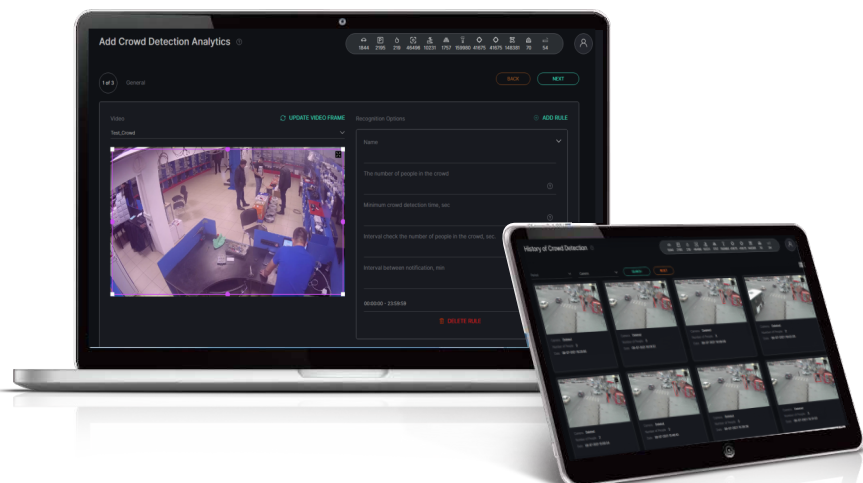
vCloud.ai Crowd Detection analytics utilizes latest neural network technology, which is suitable for government security systems and businesses. This software estimates the number of people within a given area in real time and triggers an alarm when a specified number of people, or a specified percentage of people (occupancy) is reached. Crowd Detection is ideal for public surveillance applications where the volume of people needs to be monitored for public safety or quality of service.

Crowd Detection Features

- Immediately notifies about the crowd formation/location

- Flexibility to set a minimum number of people for crowd detection

- People size for detection minimum: 20×40 px (W×H), recommended: 50×125 px (W×H) (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
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 others
Plugins integration	Luxriot Evo, Milestone XProtect, Nx Meta

Security Features

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



Encryption of information with dynamic keys that change with each launch of the module



Restricting access to a specific user group using access rights



NVIDIA CUDA Technology Support



Personal Data Protection



Estimates the number of people within a given area in real time



Triggers an alarm when a specified number of people, or a specified percentage of people (occupancy) is reached