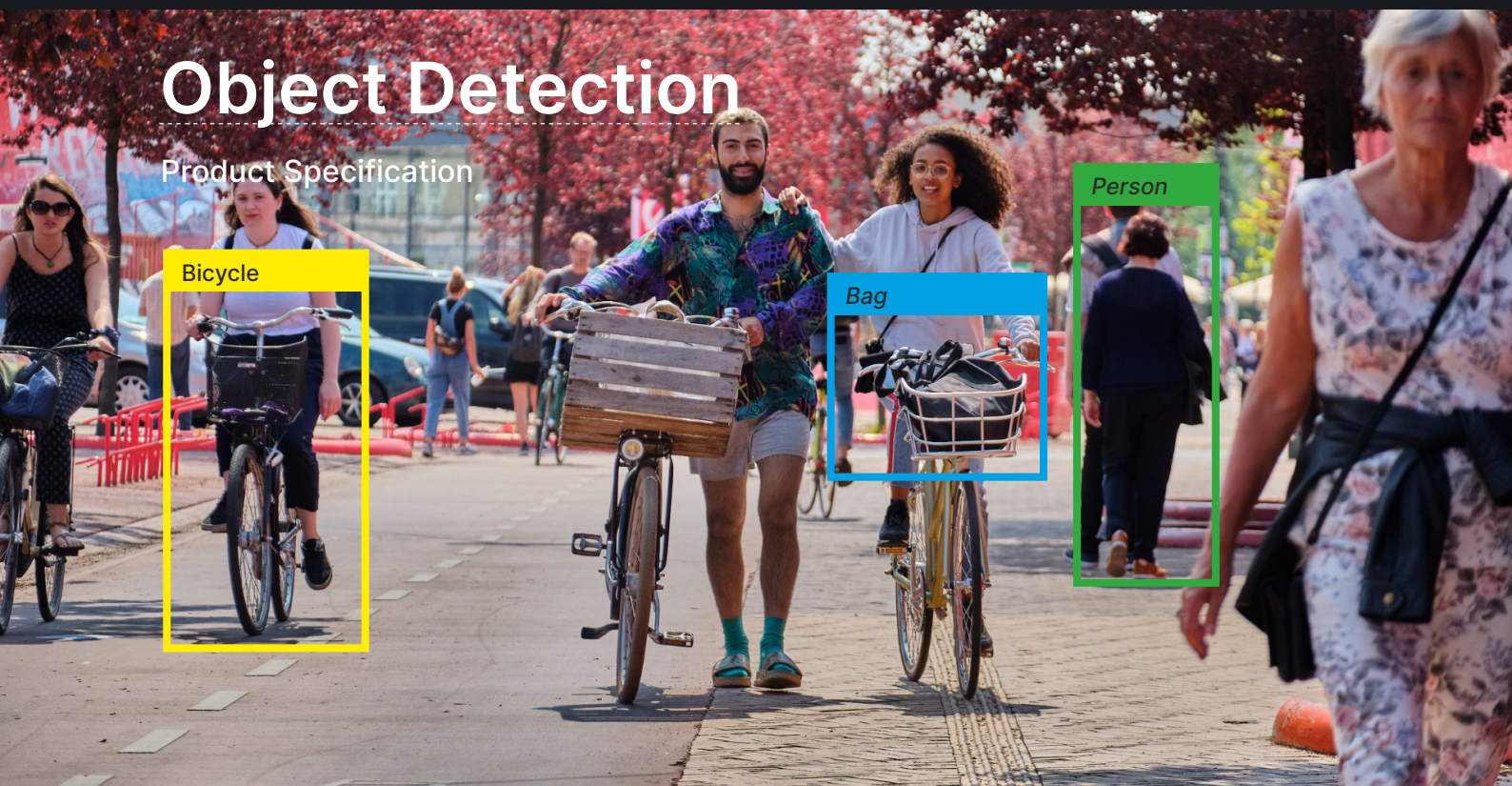


Object Detection

Product Specification



Product Description

vCloud.ai 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.

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 vehicles 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

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

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	CluebaseVMSbyvCloud.ai, 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	