

# Pose Estimation

## Product Specification



### Product Description

vCloud.ai state-of-the-art multi-frame human pose estimation proves to be an important technology for real time applications, including the analysis of human activities. This module detects and reports on any movements of the human body. Could be used in wide range of industries such as retail, healthcare, office spaces, factories, construction sites. In a retail setting, Pose Estimation can be used to understand customer behavior, enhance security, and provide richer analytics. In healthcare, this can be used to monitor patients and alert medical personnel if the patient needs immediate attention. On a factory floor, human pose can be used to identify if proper safety protocols are being followed.

### Pose Estimation Features

Detection of a person in each position, such as:

- Sitting down*
- Lying down*
- Standing*
- Walking*
- Falling*
- Getting up*

Module records the events, date, and time of a person detection

User-friendly settings

Person size for detection minimum: 50×125 px (W×H), recommended: 120×250 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	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	+