



# Hard Hat / Helmet Detection

## Product Specification



## Product Description

vCloud.ai Hard Hat / Helmet detection software rapidly identifies absence of a protective hard hat on a person's head, while scanning site, and alerting management teams so they can take action to prevent any injury at the work site. This solution could be used for factories, plants, and other varies workplaces.

## Features

- Pre-built machine learning architecture, including infrastructure for model design, training, and deployment in production

- Possibility to work with different colors of hard hats

- Instant alarm/notification dispatched to office monitors, cell phones of concerned personnel, and speakers installed at the site

- Ability to work with low-quality images and video data to create solutions based on existing video and IT-infrastructure

- Had size for detection minimum: 30×30 px (WxH), recommended: 40×60 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
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	+