noema

contact@noema.tech
www.noema.tech

Gun-in-hand Detection

The Gun-in-hand Detection application from Noema uses smart cameras to automatically detect the presence of weapons in restricted areas. Upon detecting a weapon, the app sends a notification or alarm, and video frames in which the weapon is present, for further review.

Noema's Gun-in-hand Detection application uses human behavior tracking to vastly increase the accuracy of detection, specifically where weapons are brandished, but not perfectly visible, while also vastly reducing instances of false positives.

Noema’s Gun-in-hand Detection app uses smart cameras and computer vision to continuously monitor restricted areas for the presence of firearms. The app automatically saves and timestamps video frames where a brandished weapon is detected.

Features / Specs

- Runs at the edge (CV algorithms performed on the smart camera)
- 30 FPS, 95 Detection Rate
- Modified live output
- High inference speed
- Integrates with any VMS or dispatch service
- Easy configuration & use

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Smart Behavior Monitoring

The app was trained extensively with regards to human behavior, making the app much smarter. By monitoring behavior, the app looks for instances specifically where a firearm is being brandished (in someone's hand), rather than simply looking for instances where a firearm is present in the frame. This makes the app robust against situations where security personnel are carrying holstered weapons or weapons are less visible..

Fisheye Compatibility

The app was trained with fisheye cameras, making it compatible with fisheye setups and useful for monitoring a wide area with a single camera.

Efficiency and Edge Operation

The app runs efficiently on the camera hardware, making it possible to combine gun-in-hand detection with other edge applications in Noema's portfolio, such as Seat Occupancy Monitoring.

Data and Integrations

The App translates Metadata to ONVIF XML Schema

Supports Message Broker

Supports Data Trolley

The app generates metadata enabling 3rd party system integrations.

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