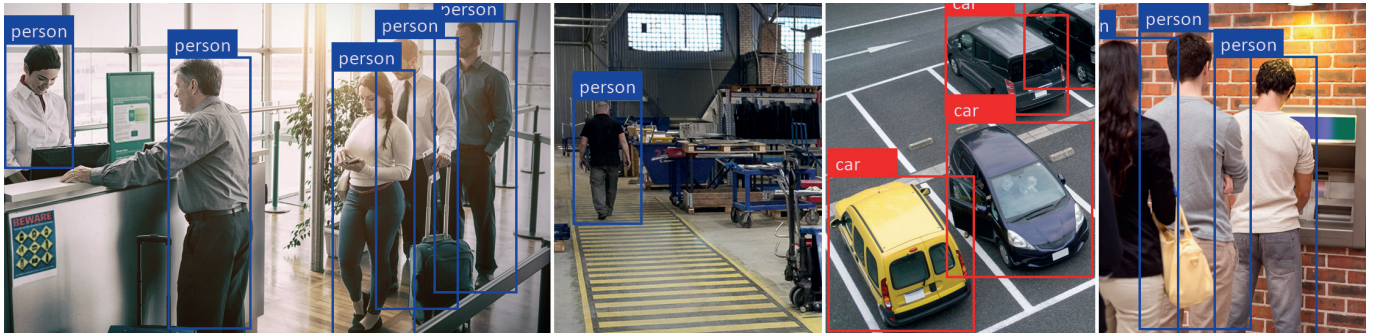


CamIQ® AI Analytics



PRODUCT DESCRIPTION

CamIQ AI Analytics analyzes the image data streams of video cameras using neural networks and classifies detected objects based on pre-trained models in real time.

Compared to simple motion detection CamIQ AI Analytics can significantly reduce false alarms caused by environmental factors such as shadows, light reflections, wind and the movement of animals (insects, for example) in many cases.

In an individually definable processing pipeline, detected objects can be used - with the help of various filters and operators - for the detection of a wide variety of situations and scenarios.

Thanks to the reliable detection of objects, user acceptance (when processing alarms in guard control centers, for instance) is increased. At the same time, the use of CamIQ AI Analytics increases productivity and reduces costs.

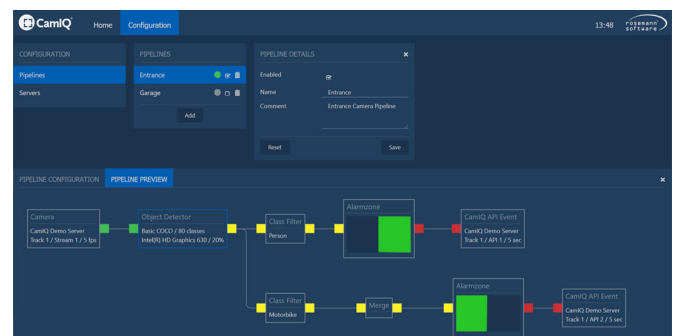
APPLICATION EXAMPLES

- » Reliable detection of persons (even in sections of the image) who enter - or drive through - specified areas without permission (area monitoring)
- » Issuance of an alarm when the maximum number of persons in an area is exceeded (in a specified room, checkout area, etc.)
- » Detection of vehicles in pedestrian zones
- » Detection of the number of people in cash point queues

FUNCTION OVERVIEW

- » Low error rate thanks to object recognition in various classes (standard models feature up to 80 classes, for example, humans, various animals, cars, etc.)
- » Web-based configuration with a live preview of all processing steps
- » Counting of objects/persons in the current image based on state-of-the-art AI analysis
- » Adaptable to diverse scenarios thanks to flexible configuration of analysis/processing chains
- » Parallel detection and the further processing of diverse objects in CamIQ Satellite as API events

- » Linking of distinct event chains by means of Boolean comparison operators (And, Or, Not, =, ≠, >, ≥, <, ≤)
- » Filtering of detected objects by means of alarm zones (regions of interest)
- » Filtering of detected objects by classes, such as cars or persons
- » Detection only for movement in a dependent pre-alarm zone
- » Customization and optimization for customer-specific scenarios possible on request (project business)



Screenshot CamIQ AI Analytics with Pipeline

SYSTEM REQUIREMENT [MINIMUM REQUIREMENTS]

The minimum requirements depend on the number, resolution and frame rate of the video streams used.

- » Microsoft Windows 11 / 10 [Microsoft Windows 11 (v. 21H2) / 10 (v. 20H2)]
- » Intel Core i5-9600 [Intel Core i3-7101E]
- » 8 GB RAM [6 GB RAM]
- » 1 GB free hard disk space for installation
- » Configured CamIQ 7 Server (or newer version)
- » Google Chrome or Mozilla Firefox (current Version)
- » Dedicated graphics card, nVidia GeForce RTX series, for example (see CamIQ compatibility list)