



CamIQ Detection

HIGHLIGHTS

- » Outdoor detection based on object size
- » Internal 3D model to calculate object size and distance
- » Optimized for use with thermal cameras – close-range application
- » Automatic adjustment to new imagery patterns due to changing light conditions caused by the weather, for example
- » Very easy configuration
- » A considerable reduction in false alarms compared to simple motion detection.

PRODUCT DESCRIPTION

Various light conditions, weather-related effects, shadows and other factors pose challenges for the reliable automatic recognition of outdoor events. Where simple motion detection quickly comes up against its limits, CamIQ Detection can considerably reduce - or even completely eliminate - unnecessary false alarms.

CamIQ Detection works with an internal 3D model of the area to be monitored. This enables, for example, the distinguishing of objects by size depending on their distance, so an alarm is only triggered for objects within a defined size range.

Particularly worthy of mention here is that despite the configuration's complex image analysis, only two distance points are needed per respective camera to calibrate and set the minimum and maximum object sizes needed. By simply moving the objects to the appropriate positions in the image (close range, far range), the perspective for the internal 3D model is automatically calculated.

This means that the configuration can be handled quickly even by less experienced users; this is of invaluable advantage when it comes to detection configuration outdoors.

FUNCTIONAL OVERVIEW

- » Segmentation individually adjustable
- » Automatic teach-in phase (approx. 100 images)
- » Permanent adjustment to new imagery patterns (compensation for changed light conditions, for example, or for objects that have been permanently added or removed from the image detail)
- » Automatic shadow recognition
- » Object-size recognition and differentiation (normalization of the object sizes through the application of a 3D model of the monitored area)
- » Automatic adjustment of the threshold band in typical problem situations like rustling leaves, for example, or other movements in the image
- » Configurable minimum duration of length-of-stay for objects in the monitored area before alarm triggering
- » Alarm zones can be delineated as desired (ROI)
- » 16 independent monitoring areas per camera with individually configurable thresholds for object sizes and sensitivity
- » Low CPU and network load through the use of a low resolution stream for detection per source image