

CounterDetector

Counts Cars and/or People Crossing Lines

The CounterDetector™ is a high-end indoor and outdoor detector for the Vi-System™. It is designed to detect and count various object types (humans, vehicles, animals, etc.) crossing a line or lines according to predefined parameters. Like all other Vi-System detectors, CounterDetector is designed for large enterprise-scale digital video surveillance networks and is especially useful for shopping malls, railways and airport terminals, town centers, and similar environments.

A detector is a group of algorithms that is used to automatically detect and track specific objects such as people or vehicles in an outdoor or indoor environment.

CounterDetector's very powerful toolbox of *detection rules* serves to lower False Alarm Rates (FAR) / Nuisance Alarm Ratio (NAR) figures, without compromising on high counting accuracy levels.

CounterDetector features include:

Detection Capabilities

- CounterDetector detects and counts objects crossing a virtual *line*.
- CounterDetector can handle an unlimited number of objects moving in any direction within the view of the camera.
- CounterDetector allows for an unlimited number of *counting lines*.
- CounterDetector has an option that allows for counting only if the object moves through more than one *counting line* in a sensor's view.
- Counting Display - For each active *counter line* the number of people/vehicles is displayed on screen, and is updated each time an object crosses the *line*.

Object Filters — CounterDetector can be programmed to look for specific object parameters in order to reduce the rate of miscounting. The system is not affected by passing pedestrians who do not cross the *counting lines*.

Schedule — Any CounterDetector can automatically be activated according to a predefined schedule. This enables easy implementation of different counting rules for day, night, weekends, etc. Schedules can be defined for each individual camera or can be applied globally to a group of cameras.

Rules Flexibility

Unlimited Counting Rules — Multiple *rules* may be assigned for each camera.

False Alarm Rate Reduction

Outdoor Element Rejection — CounterDetector can mask false alarms caused by moving vegetation, shadows and other ordinary outdoor environment events.



CounterDetector Data Sheet

Video Input	Analog / Digital, IP camera, CCTV or thermal cameras.
Video Frame Rate	5–30 FPS
Object Calibration	Based on reference object.
Camera Type	Overhead CCTV B&W or color cameras.
Environment	Operates indoors and outdoors.
Detection Region	Any arbitrary shaped polygon, unlimited number per camera or <i>rule</i> .
Masking Areas	Used to minimize false alarms caused by noisy areas in the scene such as vegetation, water etc.
Alarm Triggering	Each time the counter is reset, video loss, camera blocking, shaking, saturation and low light.
Counting Data	Real time object counting sum, counting accumulation per <i>line</i> .
FAR Reduction	Sophisticated algorithms are used to filter out vegetation and weather conditions interferences, and ignore peripheral visual effects such as large object shadows.

Above specifications subject to change without notice.

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