

SmartCatch™ | Stopped Vehicle Technical Specification

Vidient SmartCatch is an accurate and effective solution for detecting loitering in sensitive areas. Using existing CCTV infrastructure, SmartCatch software monitors, identifies and tracks objects for security policy violations and enables quick response through real-time alerts and instant video replays. At the core of SmartCatch is a set of advanced video algorithms capable of performing complex behavioral analysis, tracking numerous objects and simultaneously identifying security threats in even the most complex environments. Stopped Vehicle is one of many available SmartCatch behaviors.

DEFINITION

SmartCatch Stopped Vehicle behavior detects any vehicle stopped in the camera field of view or in a region as specified in the camera view.

The term, Stopped Vehicle, refers to any vehicle that enters the camera view and stopped without moving for a configurable amount of time. This includes small to large vehicles such as cars, pick-ups, trucks, and semi-tracker trailers, etc. An alert will be generated whenever a vehicle stops. The

behavior has capabilities to selectively alert on vehicles based on size or duration of non-movement.



SPECIFICATIONS

□ General

- Type of use: outdoor or indoor such parking garage
- Input video processing format: CIF, MPEG4
- Video processing size: 320x240(NTSC) or 352x288(PAL) or higher; High resolutions can also be downsized or cropped to minimum processing size

Minimum video size to detect object:
15x15 pixels at 320x240

- Maximum range: 300 ft (90 m) with standard lens* for small vehicle
- Slowly varying illumination
- Scenes with people and object movement are accepted

* Normal human eye.

□ *Robustness Filters*

- Varying lighting conditions
- Shadows cast by objects
- Environment effects such as bad weather, animals, and similar

□ *User Configurations*

- Multiple Regions of Interest to filter out parts of the camera views
- Vehicle standing length of time
- Vehicle minimum size (large car, truck, etc.)
- Various alert response options including support for beacons, alarms, and other dry connection devices

□ *Software & Hardware*

- SmartCatch Video Processing Unit (VPU) Software with Windows 2003 Server
- Minimum hardware specifications: Intel Xeon 2.8GHz, 1Gb RAM, 80 GB HDD

RECOMMENDED CAMERA POSITIONS

Specifications given below are for a small vehicle object size. Larger vehicles will allow for higher maximum distances.

