

SmartCatch™ | Removed Object 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. Removed object is one of many available SmartCatch behaviors.

DEFINITION

SmartCatch Removed Object behavior detects any object being removed in the camera field of view or a region within a camera view. The term removed object refers to any movable object that is removed from the monitored region(s) based on the camera view. Shadows, reflections, and small gradual changes are filtered. The behavior can selectively monitor specified sizes of objects as well, such as boxes, suitcases, or large containers.



SPECIFICATIONS

□ General

- Type of use: indoor or outdoor
- 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: 3x3 pixels at 320x240

- Maximum range: 58 ft (19 m) with standard lens* for 6" (15 cm) object
- 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
 - Object missing length of time
 - Object minimum size
 - Support for object size calibration
 - 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 6" (15.2cm) object size. Larger objects will allow for greater maximum distances.



