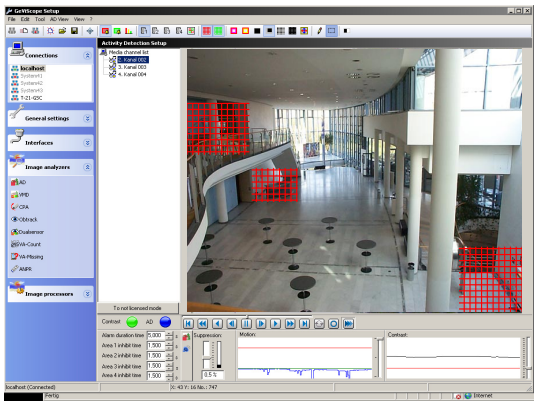
GEUTEBRÜCK
Competence in Video Security

AD – Activity Detection

Licence/GSC/AD

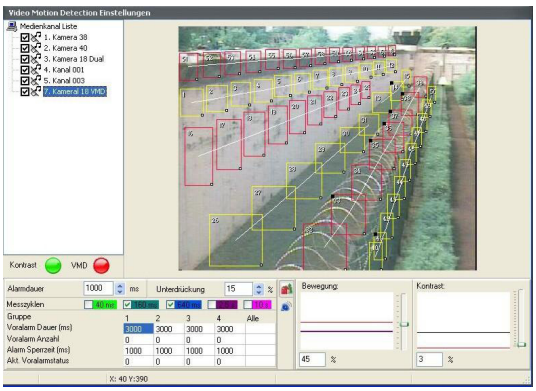
Motion detection for indoor and selected outdoor applications



VMD - Video Motion Detection

Licence/GSC/VMD

Video motion detection for critical, sensitive outdoor settings



Product information

Activity Detection recognizes movement in the camera picture in interior settings, even under difficult conditions. Each camera picture is divided into a grid with 42 x 34 cells of the same size, which are each defined as alarm cell or alarm blocking cell. This makes it possible to take the direction of movement of an object into account when analyzing alarms. All cells are analyzed to suppress false alarms in case of global changes in contrast.

If a local movement is registered, the AD generates an event that triggers a freely configurable system reaction, e.g. recording, moving to a fixed position using an adjacent PTZ system, etc. Per camera scene or AD channel up to 4 different areas can be configured as event sources for 4 different actions*.

- Reliable motion detection for recording control
- Consideration of the direction of movement
- Integrated video signal monitoring
- Automatic switching of the operational mode (profiles), e.g. day/night, work times
- Algorithm to differentiate between local and global picture changes for efficient false-alarm suppression

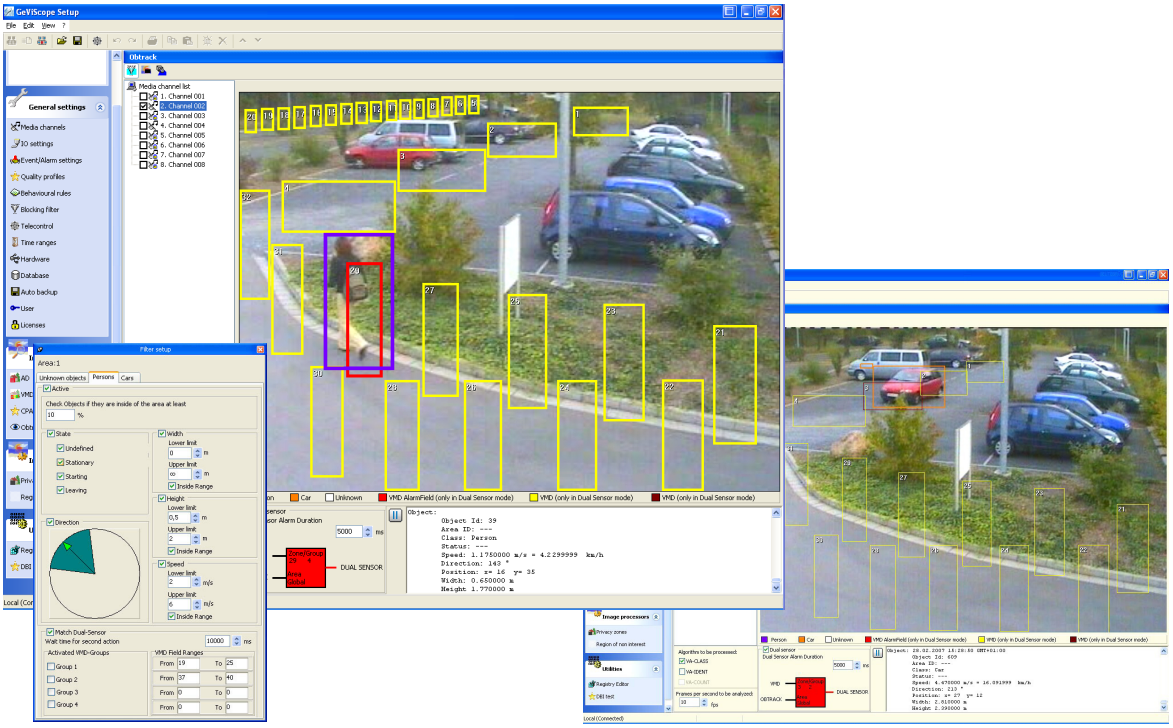
This proven 3D video motion detection calculates, at adjustable time intervals (measurement times), a measurement for each VMD field in the video picture (max. 128). The VMD analysis algorithm compares these measurements with the set sensitivity and differentiates between global and local changes – i.e. changes in many VMD fields or in only one field. Local changes are evaluated as (pre-)alarm; global changes are suppressed (adjustable).

VMD fields can be linked and also detect movement in the video picture on the basis of direction or speed. The perspective automation supports individual modification to the scene.

- 128 VMD fields, freely definable in terms of function, position, size and sensitivity
- Measurement times from 40 ms to 10 s for real-time detection of very fast and extremely slow movements
- Three-dimensional analysis using automatic perspective selection
- Algorithm to differentiate between local and global picture changes for efficient false-alarm suppression
- Recording and analysis of object size, direction and speed
- Automatic switching of the operational mode (profiles) e.g. day/night, working times
- Integrated picture-content monitoring

Dual-Sensor

Licence/GSC/Dual-Sensor



Product information

The GEUTEBRÜCK Dual-Sensor enables Video Motion Detection in real time even under extremely critical global influences for exterior areas by two integrated and very different detection methods (functionality). Due to the interaction of clear object classification and object detection in precisely defined alarm zones any other motions in the picture are ignored. Thus the false alarm rate is very low. Interferences through bad weather conditions, small animals or changing light reflections are suspended or ignored. The high precision of the detection predestines the system for all surveillance functions for exterior areas where only “real” alarms create an atmosphere of security.

- Real time 3-D video sensor function with measuring cycles between 40 ms and 10 s for the detection of very fast and slow movements
- 128 freely defined detection zones for handling very complex picture contents
- Extremely low false alarm rate by the reliable supression of global disturbances while using two different algorithms at the same time
- Detected objects can be classified into the classes vehicles, persons and other objects
- Automatic switching between different operation modes (e.g. day/night, summer/winter)
- All object informations can be evaluated regarding its status (e.g. stationary, leaves scenery, starts to move) and its individual tokens (e.g. speed, size)

Technical alterations reserved

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