# ANALYZER

## Camera Based Motion Detection for Interactive Installations

Analyzer is a powerful software tool designed for motion detection using one or multiple tracking cameras. It analyzes camera images and detects changes within manually defined areas or a homogeneous grid. The software provides various modes and adjustable parameters to customize sensitivity and analyzing behavior for each area individually. It supports frame-by-frame motion detection, comparison with reference images, and color-based searching. Analyzer is optimized for use with IR-based tracking cameras, enabling accurate motion detection on surfaces with moving media, such as interactive projections. The software seamlessly integrates with our Backstage software or third-party applications to trigger actions based on detected motion areas.

### Key Features

- Motion Detection: Analyser utilizes our tracking cameras to detect changes in camera images.
- Area Definition: Users can manually define areas of interest or use a homogeneous grid for motion detection.
- Individual Parameter Adjustment: Sensitivity and analyzing mode can be adjusted individually for each defined area.
- Frame-by-Frame Comparision: Analyzer can compare camera images on a frame-by-frame basis to detect any motion.
- Reference Image Comparison: Analyzer can compare the current image with a previously stored reference image to identify nonmoving objects.
- Color-Based Searching: Analyzer offers a mode to search for specific colors within the camera images.
- IR Tracking Cameras: The software is compatible with our industrial GigE cameras, which are based on infrared (IR) technology.
- Support for Tracking on Surfaces with Moving Media: IR tracking cameras enable motion detection on surfaces with moving media, such as interactive projections.
- Training with Backstage Software: The tracking grid can be trained using our Backstage software, ensuring pixel-perfect motion detection on the projection surface.
- Network Integration: Analyzer can transmit triggered areas over the network to either our Backstage software or third-party applications for further processing.
- High Framerate Support: The software is optimized for high framerates, ensuring accurate motion detection with low latency.

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