TRACKEYE
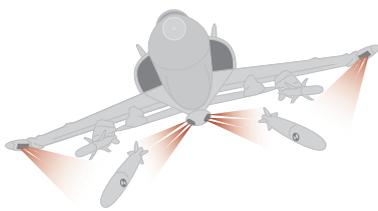
Highest available accuracy for your analysis in two, three or six dimensions in applications like Tracking Mount 3D, Fixed Camera 3D or Stores Release

TrackEye is the world leading system for advanced motion analysis on military test ranges. TrackEye covers the entire process from digitizing images (film or video) through automatic tracking and advanced motion analysis to a complete predefined report. The implemented functionality handles tracking in several levels, from 2D, 3D and 6D to the most sophisticated range motion analysis tracking requirements.

POWERFUL - Handles and analyzes at rapid speed large quantities of data from high speed cameras and other sensors. The operator can choose between a large number of tracking algo-rithms and track unlimited number of points throughout the image sequences.

TOTAL SOLUTION - TrackEye handles all steps in the process. No problem with compatibility, interface or data transfer between different soft-ware platforms.

SYNCHRONIZED - The User Interface is "Fully synchronized": any change of parameters or set-up will directly effect all parts of the tracking session, updating results, graphs and tables.

IMPORT OF DATA - External data from GPS, Radar, tracking mount pointing angles and other instrumentation data can easily be imported and synchronized with the image data.

CAMERA CONTROL - The compatible TEMA camera control software can provide multi-make, multi-brand camera control, loading images directly into TrackEye for analysis.

Decoded information

The TrackEye system automatically decodes any image embeddded information and makes it available for the analysis. Some examples of supported codes are: Video Left Edge Code, FDRS, Analog scales from Contraves C and D, Dot Matrixes, OCR, IRIG-B and many more.
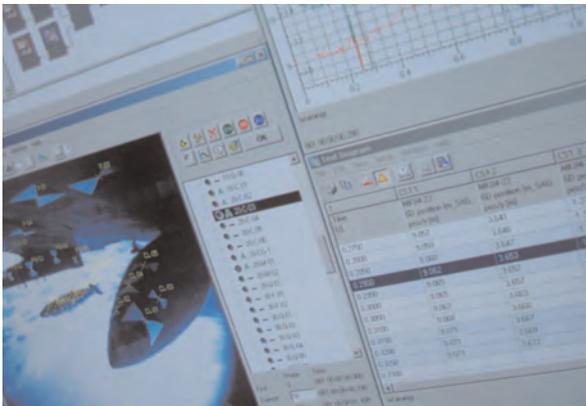
Tracking

Different objects or environments require different tracking methods. TrackEye has a large number of different tracking algorithms available for different applications. Some examples are: Correlation, Circular, COG, Quad and Outline.

Analysis

The TrackEye system includes a large set of predefined analysis functions. The functions operate on image data, imported data and results from prior calculations. Arithmetic functions, filters, speed, acceleration and coordinate transformations are just some of the available functions.

Presentation of the result

A major advantage with the TrackEye system is the capability to present data and results in customized graphs, tables and sessions summaries. It is easy to add comments, custom graphics and to customize the appearance of a certain view.

Options

There is a large set of different options available to TrackEye. A subset of these are:
TrackEye 3D, Trackeye 6DoF, Lens Calibration, Tracking Mount Calibration/Correction, Refraction, TrackEye Viewer and many others.User defined functionality can be implemented using the SDK option. The SDK is available at two levels: as a C++ API in the SDK Full version or as a sub set of macro functions in the SDK Lite version.

Image Systems AB is your partner in motions analysis and supplies both standard products and customized projects. The standard products handles all steps in the process of digitizing cine film, controlling multiple cameras, tracking and analyzing image sequences and present result. The company has long experience of customized projects. A typical project includes software development, integration into current systems, installation, acceptance testing, training and maintenance.

image
SYSTEMS