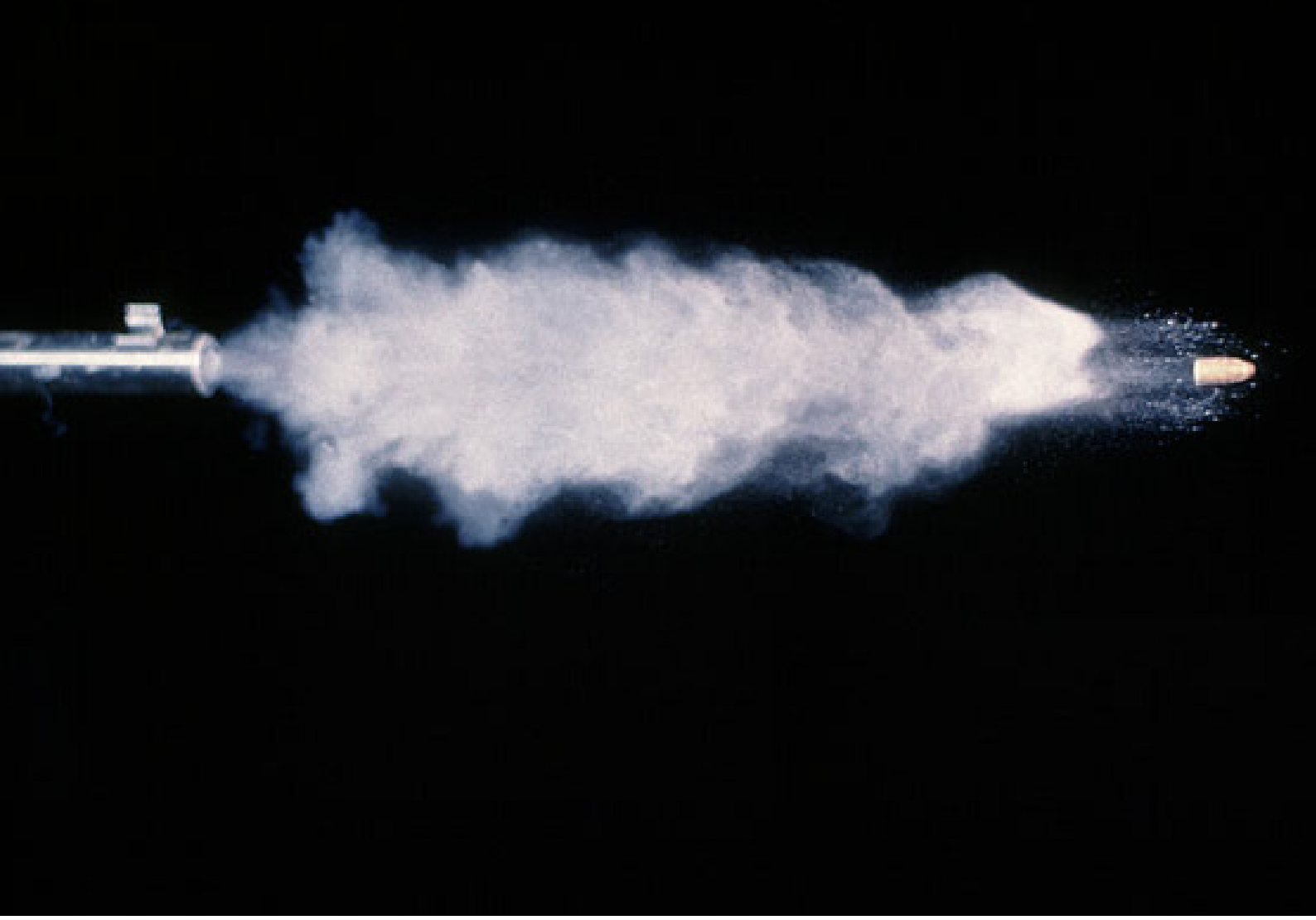


POM

TEST PLATFORM FOR PROJECTILE ORIENTATION MEASUREMENT

Projectile Orientation Measurement (POM) is a stand-alone test platform based on the TrackEye Motion Analysis technology. Using high-speed cameras and flash units, mounted at defined angles - POM allows for repeated testing and measurement of impact angle(s) and 3D position(s) of a bullet approaching a target.

POWERFUL

POM features automated algorithms and an analysis process designed to facilitate consecutive testing and analysis of projectiles moving at rapid speeds.

SYNCHRONIZED

The user interface is fully synchronized: any change of parameters or set-up will immediately effect all parts of the tracking session, updating results, graphs and tables.

COMPATIBLE

POM is compatible with all major camera brands on the market. External data from other instrumentation data can easily be imported and synchronized with the image data.

TOTAL SOLUTION

POM handles all steps in the process. POM handles compatibility, interface and data transfer between different software platforms.

image
SYSTEMS
MOTION ANALYSIS

USER INTERFACE

The user interface is designed to be easy to use and to allow for short turn-around between consecutive tests. The cameras are triggered to simultaneously create and capture one shadow image for each view of the projectiles.

PROCEDURE

A POM session is divided in two steps

1. Calibration
2. Measurement
3. Presentation of results

CALIBRATION

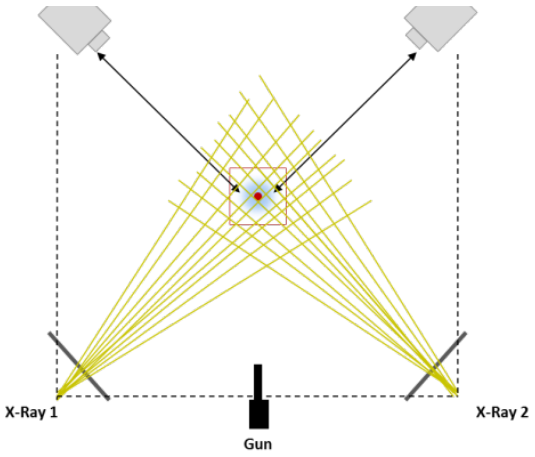
Prior to the tests the position and orientation of the cameras must be determined. This process is facilitated through a software wizard where the operator marks points on an object placed in the field of view for both cameras.

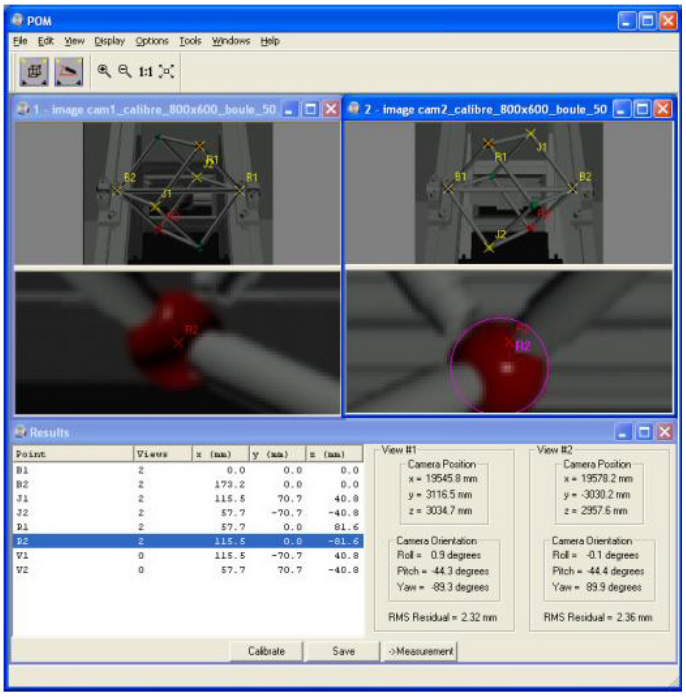
MEASUREMENT

When two new images are available, the operator clicks on the bullet in each view. The bullet is automatically outlined and the result is presented. A typical output is usually the position and the absolute angle relative to the trajectory axis. When activating the save function the derived data is written to the output log file and the POM application is ready for another repeated test.

PRESENTATION OF RESULTS

A major advantage with the POM platform 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. Data can also be exported to applications





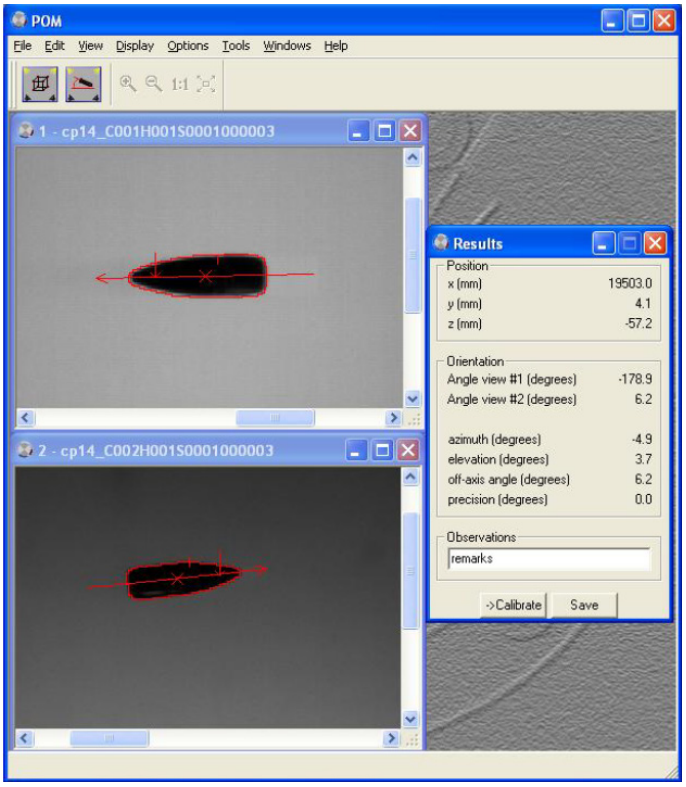


IMAGE SYSTEMS
Ågatan 40 ı SE-582 22 Linköping ı Sweden
info@imagesystems.se
www.imagesystems.se