



ADVANCED CENTRIC SYSTEMS B.V

**MULTIPLE SOURCE TACTICAL COORDINATE  
EXTRACTION TOOL**  
**Product brochure**



## THE PROBLEM

Tactical operators often require the precise coordinates of ground targets and natural or man-made objects.

Such users will benefit from a hardware/software system enabling prompt extraction of accurate 3D coordinates from various imagery/photographic sources.

## THE SOLUTION

ACS presents MuSTCET – Multiple Source Tactical Coordinate Extraction Tool.

MuSTCET enables operational users to extract 3D coordinates from satellite imagery and aerial reconnaissance photographs. The actual extraction process may take place at a command post or in the field.

MuSTCET consists of a photogrammetric block calculation engine, a coordinate extraction server and a user interface with a matching application.

The MuSTCET system architecture enables integration with existing systems. The intuitive graphic user interface eliminates the need for specialized training.

MuSTCET utilizes satellite imagery (IKONOS, EROS, WorldView, GeoEye) and aerial reconnaissance photographs (high oblique, RMK, A3).

Multiple images are processed into a photogrammetric block, which may be kept up-to-date by adding newly-obtained imagery.

The coordinate extraction server of MuSTCET selects the images that cover the area of interest from accessible databases. Geo-registration algorithms enable accurate extraction of 3D location coordinates for any natural or man-made object. The server supports multiple sensors and photogrammetric blocks and calculates the accuracy of the extracted coordinates. It supports most standard image formats (TIF, JPEG, etc.) and requires no stereoscopic pairing.

A graphic user interface forms the link between the operational user and the coordinate extraction server. Utilizing an existing web-based application, the user interface may be customized according to the user's needs and requirements.

## KEY FEATURES & MAJOR ADVANTAGES

### **Key Features & Major Advantages**

- Cutting edge tool enables users to extract 3D coordinates from different imagery/photographic sources

- System consists of a photogrammetric block calculation engine, a coordinate extraction server and a user interface application
- Extraction of coordinates from multiple sources within minutes
- Desktop and field applications – support for mobile computers
- System architecture enables integration with existing systems
- Intuitive graphic user interface – no specialized training required
- Sources:
  - Satellite imagery (IKONOS, EROS, WorldView, GeoEye)
  - Aerial reconnaissance photographs (high oblique, RMK, A3)
- No stereoscopic pairing required
- Multiple images processed into a photogrammetric block
- Block may be updated by adding newly obtained imagery
- Geo-registration algorithms enable accurate extraction of 3D location for natural or man-made objects

