

SOCET SET[®]

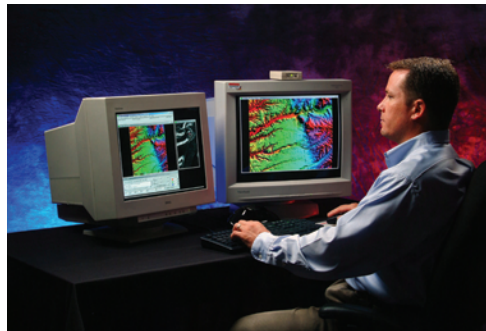
SOCET SET's solid architecture, numerous data formats and sensor models, unmatched algorithms, and rich feature set are the product of more than 25 years of development. This versatile, industry-leading photogrammetry tool tackles large projects with ease, allowing users to streamline tedious, routine digital mapping tasks and optimize their workflows.

SOCET SET, BAE Systems' digital photogrammetry software application, enables customers worldwide to make digital terrain and surface models, image maps, visualizations, GIS databases, and more from a wide range of airborne and satellite imagery. SOCET SET v5.3 works with the latest airborne digital sensors and includes innovative point-matching algorithms for multi-sensor triangulation.

New back-matching and multiple-image-matching strategies provide significant improvements to terrain extraction. The SOCET for ArcGIS[®] module allows the ArcGIS community to exploit stereo imagery for the collection and editing of features and attributes, all in the user's familiar ArcMap[®] environment.

SOCET SET's incomparable accuracy comes from the image sensor modeling process, which uses rigorous mathematical models to associate points on an image with their real-world locations. In addition, users can batch-process operations to increase productivity — letting the software do all the work.

Customers have made SOCET SET the premier photogrammetric tool for generating a broad range of deliverables. The data collected and produced by SOCET SET can be exported in various formats for end-users, or for input to other applications. These raster and vector products, derived from many different image sources, are widely used throughout the mapping, GIS, remote sensing, visualization and simulation communities.



BENEFITS

SOCET for ArcGIS module works with geodatabases to facilitate versioning and topology

DTMs are generated automatically for use with orthophotos, mosaics, and visualization databases

Robust, well established functionality for terrain extraction offers enhanced performance through continuous innovation

Powerful multi-sensor triangulation functionality reduces production cycles

Unprecedented number of sensor and math models provides unmatched accuracy

Mosaic Manager automates the mosaicking process to create orthomosaics, ortho sheets, and true orthos

VrOne[®] 3D graphic capabilities prepare vector data for accurate translation to GIS and other CAD systems

BINGO functionality saves editing time with automatic blunder detection capabilities

Superb pedigree, with thousands of labor hours of investment and experience

KEY CAPABILITIES

Software

The base software includes: frame and close-range image import; multi-image viewing; real-time image shaping and rectification; and automatic interior orientation. Additionally, the “Core” bundle includes Model Setup, Image Map, Line of Sight Analysis, CIB® Import, CADRG, OpenFlight™, and Simple Sensor Models. Additional functionality, such as triangulation, DTM generation, orthorectification, and feature collection, is available in optional modules. The user purchases only what is needed.

Additional features available

SOCET for ArcGIS

Feature collection and editing in the ESRI® environment. Since SOCET for ArcGIS utilizes the rigorous photogrammetry of SOCET SET in conjunction with ESRI's ArcMap application, operators can follow their ordinary GIS workflows in a familiar environment while collecting accurate geospatial data in stereo.

ClearFlite®

SOCET SET's vertical obstruction identification software application uses

stereo imagery for identifying and collecting vertical obstructions in and around airfields. It automatically creates the FAA, NGA, and ICAO PANS-OPS obstruction identification surfaces for military and civilian airfields.

VrOne®

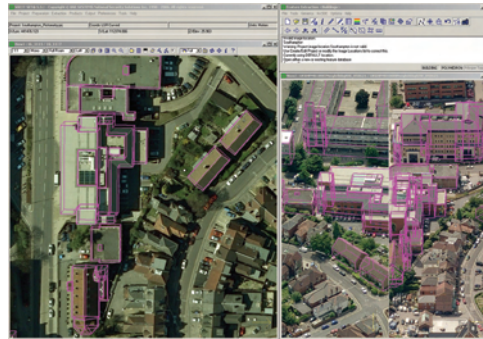
Developed by Cardinal Systems and designed by photogrammetrists, VrOne is a powerful package for feature collection and editing. Its integration with SOCET SET provides a system that is easy to learn, and offers fast data collection, straightforward editing, and specialized mapping applications for the commercial market.

BINGO

BINGO, from GIP Geoinformatics and Photogrammetric Engineering, is a state-of-the-art bundle adjustment package for rapid triangulation of large blocks of airborne film imagery, terrestrial imagery and geodetic observations.

System requirements

See www.baesystems.com/gxp for a list of hardware requirements for both Sun® Solaris® workstations and Windows® PCs.



Images courtesy of Simmons Aerofilms/Pictometry

Software supports multiple image sources with unrivaled range of data formats

Simultaneous use of multiple sensors within the same project

Flexible batch processing to facilitate automated workflows tuned to customer requirements

Capability to produce orthophotos efficiently and broad area mosaics automatically from multiple images

Extensive automation throughout, using algorithms derived from years of evolution

Extensive application programmer's interface used by many developers

Designed to handle the largest image data volumes

Permits users to edit geodatabases without photogrammetric expertise

Exports 3D databases in standard formats such as OpenFlight

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