



SOCET GXP® v3.1

BAE Systems' SOCET GXP® v3.1 continues toward full integration of image analysis and geospatial analysis in one software application.

Analysts everywhere are experiencing the power of eXtreme Analysis™ (XA™) with SOCET GXP, adopting it as their tool of choice for advanced image analysis, mapping, geospatial production and photogrammetry, data sharing, and 3-D visualization.

SOCET GXP now includes additional photogrammetric tools and capabilities formerly available only in SOCET SET®. The intuitive interface makes advanced functionality accessible and easy to use — complex processes are automated and workflows are simplified.

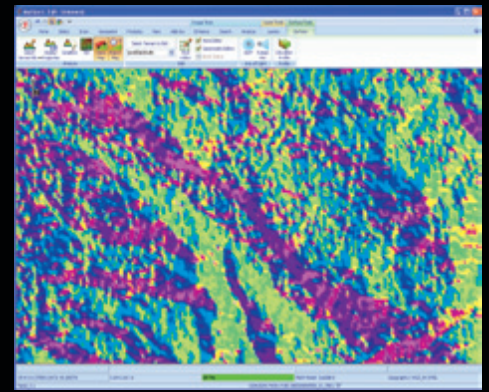
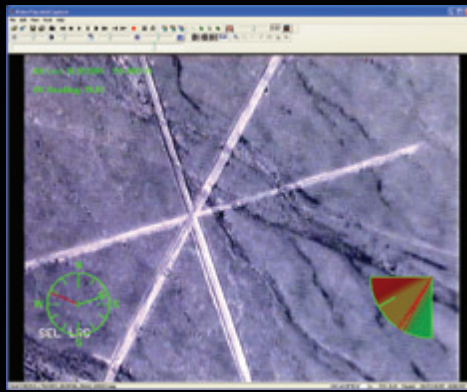
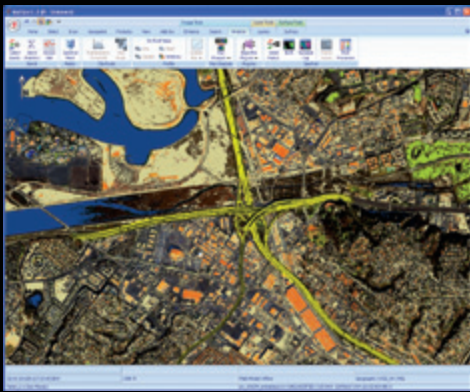
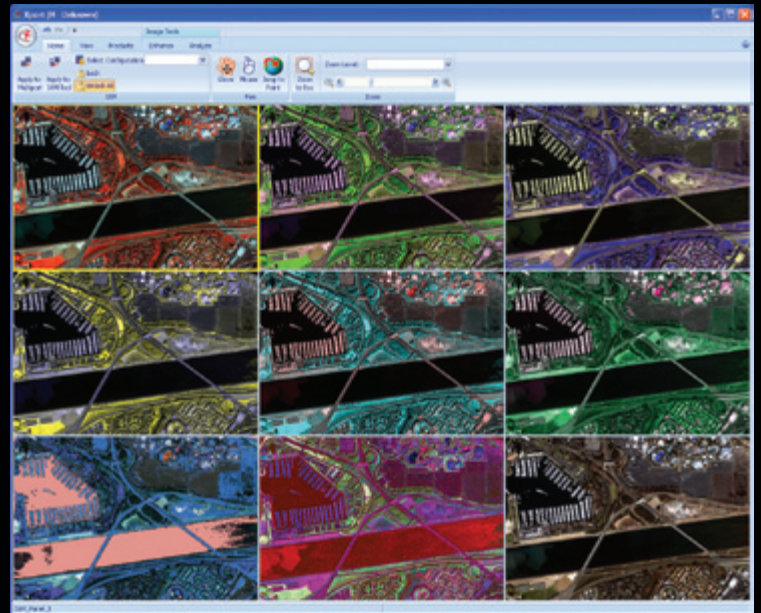
SOCET GXP v3.1 adds a suite of mid-range photogrammetry tools and processes — a majority of SOCET SET's functionality. Other new features are better graphic performance for easier point measurement, image display improvements, new terrain analysis tools, additional sensor models, and video analysis capabilities. The video component displays image metadata to provide feedback on georeferencing for precise geographic orientation.

New tools include: the flip tool, a quick visual way to dynamically access data; an Open Geospatial Consortium-compliant Web services tool; hyperspectral and multispectral (HSI and MSI) image processing; and the Xport™, a specialized Multiport™ with up to 16 linked preview panels for different processing chains.

The Xport offers a dynamic interface for in-depth analysis and quick visualization. Its viewing and exploitation window enables efficient, advanced image analysis using multiple image enhancements in real time. Each of the panels is linked; views change as the user roams in the main viewer and multiple enhancements are simultaneously shown on the same image.

Xport™

- Each preview panel shows a duplicate of the image in the Multiport™ parent reference panel with a custom processing chain applied.
- Processing chains include different band selections, band math, enhancements, analysis algorithms, or derived products.
- Each panel is dynamically linked for panning, zooming, and rotating with other panels and the parent reference panel.
- Users can create multiple configurations for the Xport™ and select the appropriate configuration for the data in the Multiport panel.



HSI and MSI

- Reflectance calibration
- Supervised classification, PCA, and ISODATA clustering algorithms
- Anomaly and spectral change detectors
- K-means clustering
- Dark current removal
- Destriping
- Pan sharpening
- Spectral unmixing
- Google Maps™ application programming interface for digitizing

Video analysis

- Live video mosaicking and stabilization
- Real-time geo-registration
- Resolution enhancement
- Storage and dissemination of video with synchronized metadata
- Dissemination and reporting
- Simultaneous multi-platform and heterogeneous exploitation
- Video displayed over a map with overlays
- Platform agnostic playback
- Extensive import and export of imagery and video formats
- Measurement and annotation tools

Terrain analysis and editing

- Use existing terrain for terrain tracking; generate terrain from imagery
- Analysis tools: slope, aspect, profile, line-of-sight
- Visualization tools: elevation profile, terrain shaded relief, on-the-fly analysis
- Transform tools: merge multiple models, transform format, post spacing, boundary, initialize a new terrain file

FOR MORE INFORMATION, CONTACT:

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