ENVI SPEAR Tools

EXELIS

Visual Information Solutions
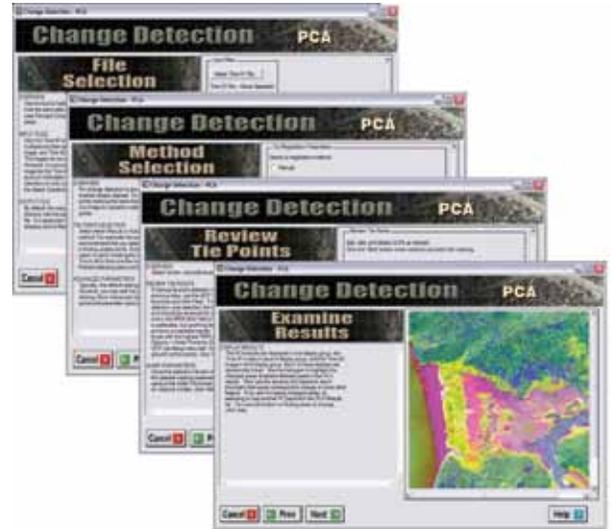
Your Image Processing and Analysis Workflows Just Got Easier.

In industries across disciplines, professionals are using geospatial imagery more and more for the information it provides about a geographic area of interest. From categorizing terrain for defense and intelligence operations, to detecting change over time along a shoreline, the uses for imagery continue to grow.

Previously, processing and analyzing geospatial imagery was considered complex, often these tasks were performed by experienced image scientists. Now, ENVI SPEAR Tools – included with your ENVI software – provides you with automated workflows to make the most commonly needed image processing and analysis routines easy, regardless of your image processing and analysis experience or professional background.

This unique set of wizard-based tools provides you with advanced, proven processes and procedures, so the results you get are scientifically accurate and precise, allowing you to achieve expert level results.

THE EASY-TO-USE ENVI SPEAR TOOLS INTERFACE INCLUDES STEP-BY-STEP INSTRUCTIONS AND INTEGRATED HELP DIALOGUES TO PERFORM IMAGE PROCESSING AND ANALYSIS PROCEDURES LIKE:

Perform Change Detection
Changed areas can be highlighted and compared to images from two datasets using band ratio techniques.

Detect Anomalies
Search an image for unique objects that are not native to the environment.

Browse Metadata
Browse NITF metadata for multiple images to assess exploitation suitability

Perform Terrain-based Orthorectification
Compensate for image distortion due to terrain differences.

Register Images to Maps
Improve the georeferencing of an image by tying it to an accurate base map.

Bridge to Google Earth™
Export and open data in Google Earth.

Pan-Sharpen Images
Panchromatic images can be fused with multispectral data to create colorized high resolution images.

Detect Lines of Communication
Roads and waterways can be highlighted and emphasized to aid in map generation.

Find Watercraft
Images can be searched for moving and non-moving water craft in open water environments.

Measure Relative Water Depth
Images of relative water depths can be generated and exported to graphic files for use in reports or briefings.

Conduct TERCAT (Terrain Categorization)
Terrain classifications can be automatically generated or created by user defined specifications.

Assess Vegetation Delineation and Stress Detection
Vegetation delineation and stress can be quickly identified and visualized to determine the level of vigor.

Find Similar Materials
Find all instances of a specific material based on its spectral response.

ENVI

Find resources and information or purchase ENVI at **www.exelisvis.com/ENVI** or call 303.786.9900, and ask for your ENVI representative.