

C R E A S O

ENVI

Get the information you need from imagery.



CREASO - your partner for visual information solutions

Easy to Use Tools. Proven Functionality. Fast Results.



The growing reliance on geospatial imagery makes it increasingly important for you to get the critical information you need from your imagery. Tools and processes that help you easily and accurately extract information are essential, whether you need information for intelligence, scientific or GIS applications.

Today's imagery analysts, scientists, and GIS professionals in a wide variety of disciplines choose products from the ENVI® line of premier software solutions for extracting information from geospatial imagery. ENVI provides advanced, user-friendly tools to read, explore, prepare, analyze all types of imagery and to share the extracted information.

Read



Prepare



Explore



Analyze



Share



Customize

Developed by the experts in image processing and data visualization, ENVI software products are built on an extensible platform that allows you to easily expand and customize ENVI to suit your needs. A robust suite of add-on modules also allows you to expand your image processing capabilities to address your specific needs. And, with its broad cross platform support, ENVI is your solution regardless of whether you are in a Windows®, Macintosh, Linux or UNIX environment.

Learn more about how ENVI can be your solution for extracting information from geospatial imagery.



Read Virtually Any Imagery Type and Format

ENVI supports imagery types gathered from numerous satellite and airborne sensors including panchromatic, multispectral, hyperspectral, radar, thermal, lidar, and more. ENVI can read over 70 data formats and includes HDF, GeoTIFF and JITC certified NITF support. And, ENVI also delivers enterprise capabilities that allow you to quickly and easily access imagery from OGC and JPIP compliant servers within your organization or over the internet.



Prepare Your Imagery

ENVI provides automated pre-processing tools that allow you to quickly and easily prepare your imagery for viewing or additional analysis. With ENVI you can:

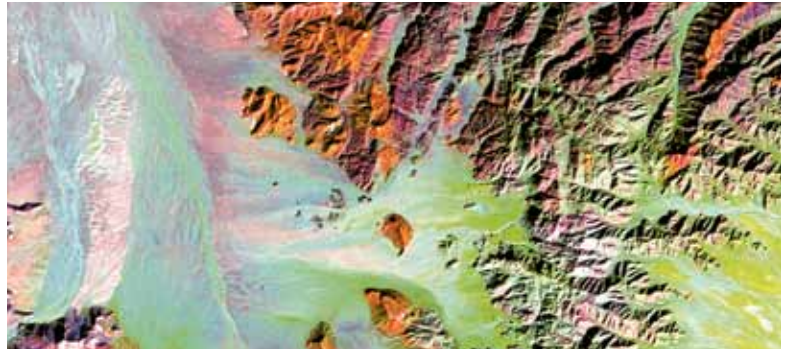
- Orthorectify imagery
- Register two or more images
- Calibrate imagery
- Correct imagery for atmospheric distortions
- Create vector overlays
- Identify regions of interest (ROIs)
- Create digital elevation models (DEMs)
- Perform pan sharpening, masking, and mosaicking
- Resize, rotate, or convert the data type

Explore Your Imagery

ENVI gives you an intuitive user interface and easy-to-use tools that allow you to quickly and easily view and explore your imagery. You can use ENVI to view large datasets and metadata, visually compare imagery, create powerful 3D visualizations, create scatter plots, explore pixel signatures, and more.

Process & Analyze Your Imagery

ENVI provides the industry-leading image processing functionality you need to extract information for your research, intelligence or planning purposes. ENVI provides a complete suite of tools based on proven scientific methods to help you analyze your imagery. And, ENVI provides unique, automated processes and procedures to make processing and analyzing your imagery easier than ever.



Data Analysis Tools

Understanding your imagery often involves discerning information about your image. ENVI includes a comprehensive suite of data analysis tools that allow you to access proven algorithms to quickly, easily and accurately analyze imagery.

- Detect change
- Extract and measure features
- Create geospatial statistics such as autocorrelation and semi-variance
- Calculate image statistics such as mean, min/max, standard deviation
- Synthesize radar imagery
- Calculate principal components
- Model topographic characteristics
- Apply common and user-defined filters
- Perform custom band and spectral math functions

Spectral Analysis Tools

Spectral analysis allows you to use pixel responses at different wavelengths to obtain information about the materials within each pixel. ENVI has the most advanced, easy-to-use spectral analysis tools that give you access to established scientific methods for imagery analyses.

- Classify your imagery using supervised and unsupervised methods
- Identify spectral signatures using robust libraries
- Detect and identify targets
- Identify features of interest
- Analyze & map materials of interest
- Perform whole-pixel and sub-pixel analyses
- Use a suite of post classification tools to refine your results
- Calculate forest health with vegetation analysis tools

Automated Workflows

ENVI saves you time and effort and steps you through today's popular image processing functions with automated workflows that are easy to use, regardless of your level of experience. This unique automation makes even advanced processing and analysis capabilities available to anyone who needs to get information from imagery.

Easily achieve the results you're looking for as the software walks you through any one of several popular image processing routines. The processes provide easy to interpret dialog boxes with default parameters based on solid scientific results, and they automatically adjust for subsequent steps while prompting you for required information as needed.

Share Your Information

ENVI easily integrates into your existing workflow, regardless of your environment or application. Output to GIS layers, files, maps, and PowerPoint easily, and share your information with colleagues. ENVI also has versatile "save as" options, allowing you to save your results as image files, ENVI files, ShapeFiles, and more. You can even save data and files directly to a geodatabase thanks to ENVI's seamless integration with ArcGIS. This unique data and layer level integration between the two products allows you to easily add imagery to your GIS workflow, move easily between environments, and output annotated maps and presentations.

Customize Your Geospatial Image Application

ENVI is built on a powerful development language, IDL, allowing its features and functionality to be easily extended or customized to fit your specific application. This powerful and flexible platform allows you to create batch processes, customize menus, add your own algorithms and tools, integrate C++ and Java code into your tools, and much more.

Extend Your ENVI Functionality

ENVI's image processing and analysis functionality is robust, and can be even further extended by adding any one of these modules to expand its core capabilities:

SARscape® for ENVI

Provide a unique set of functionality to read, process, analyze and output increasingly popular SAR data and integrate results with other remotely sensed data and geospatial tools.

ENVI Orthorectification Module

Provides geospatial imagery users with simple but robust tools to accurately register imagery to ground coordinates and remove geometric distortions.

ENVI DEM Extraction Module

Improves the image analysis workflow by allowing you to create spatially accurate 3-D data representations directly within ENVI.

ENVI Atmospheric Correction Module

Removes challenging atmospheric conditions from imagery using both the time proven FLAASH and trusted QUAC algorithms for flexibility in getting to final results.

ENVI NITF Module

Allows you to access, read, write, process, and share imagery in the government standard NITF file format.



Easy-to-use tools.
Proven functionality.
Fast Results.

ENVI provides all this in a comprehensive solution.

Get started using ENVI at
www.creaso.com/ENVI.htm





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Our Job Doesn't End with Great Software

Support, training, and consulting are important cornerstones for reaching our mutual goal - your success.

We advise you in all questions related to data analysis and visualization, in trainings courses at your site or in our training center, in the scope of projects we initialize together with you or carry out completely. Our team of trained engineers and scientists is looking forward to you and your tasks.

Let us get into conversation!

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