

Fully integrated workflows to streamline image processing.

ENVI – the premier solution to extract information from geospatial imagery – delivers innovative ways to streamline your image processing and analysis workflows. Recent releases have introduced new workflow innovations including integration with ArcGIS®, and automation of essential image processing tasks.

Now, ENVI 4.7 delivers the next level of workflow innovation by introducing powerful new integration between ENVI and ArcGIS. This release allows you to easily drag and drop any data file to ENVI, to display vector layers with your imagery with consistent styling and symbology, and to easily output results as map products. In addition, ENVI 4.7 includes support for more file formats, continuing a longstanding ENVI tradition of helping you get information from the newest imagery and data types as they become available.



Integration with ArcGIS for an End-to-end Image Processing Workflow

Today there is a growing convergence of imagery and Geographic Information Systems (GIS) applications in the fields of government, commercial, and research. As image scientists and analysts, you need to be able to move seamlessly between GIS and image processing applications, with the ability to share files and data – not just to improve workflow efficiencies, but to get the most information you can about a geographic area of interest.

ENVI 4.7 makes it easy to incorporate GIS data and layers with your image processing workflow. Now you can seamlessly drag and drop ArcGIS files from Microsoft® Internet Explorer®, from your desktop, or from the ArcGIS interface directly into the dynamic ENVI Zoom display while maintaining the robust native symbology and styling that ArcGIS is known for. Once vector layers are available in ENVI, you can display and visualize the layers along with your imagery, perform further analysis on your imagery, and output processed results to a map, a printer, or a report to share with colleagues.

Easily Create Maps and Print Your Results

ENVI 4.7 integrates native ArcGIS mapping tools and templates, making it easy to create and edit maps and other types of output directly within ENVI. To create a map, simply choose print preview, open any of the ArcGIS template files that offer different layout choices, then apply that template to the data you want to map. Data is easily accessible via the ENVI Zoom layout manager. Titles, textboxes, and the layout of the map are all easily editable and can be printed or exported to a variety of file formats, including geoenabled PDFs, Microsoft® PowerPoint® slides, and more. A screenshot of your work at any step can easily be sent to a printer or PowerPoint slide using new “chip to” capabilities.

Quickly Edit Features

Frequently, vector data needs to be edited to make features appear more true to life. Editing vector data in ENVI is easy. ENVI 4.7 has a set of feature editing tools available both in a highly visible toolbox, or by simply right clicking your mouse for a context menu. Feature editing tools included with ENVI 4.7 include:

- **A Rectangulator Tool** that allows you to select one or more polygons and run an algorithm that will make shapes more rectangular. This option is great for identifying rooftops as well as larger polygons, such as fields, and smaller ones, like cars.
- **A Smoothing Tool** that allows you to select one or more polygons and make the outline smoother by removing vertices. This produces a rounder, less jagged shape.

All feature editing tools, including these two are easily accessible during vector editing. Simply select one or more polygons and right click to bring up a context menu of all your feature editing tools.

Image Processing Support for More File Formats

In addition to workflow improvements, ENVI 4.7 also introduces additional file format support to help you get the information you need from new data formats as they are introduced to the marketplace. ENVI now supports:

- **Landsat GeoTIFF with Metadata (MTL)**
Open, process, and analyze Landsat Geotiff MTL files using a more powerful calibration tool that will allow you to open and calibrate Landsat files quickly
- **COSMO-SkyMed**
Access data collected from the COSMO SkyMed satellite system using ENVI 4.7, and geocode it using the add-on SARscape® Modules for ENVI, which allows you to create a high precision product without the need for ground control points
- **RapidEYE**
Data from the RapidEye satellite is now supported in ENVI in both GeoTIFF and NITF formats
- **ERDAS Imagine®**
ERDAS Imagine image files are now supported in ENVI. Both compressed and non-compressed formats are available for viewing and for use in processing and analysis routines

Fully integrated with ArcGIS to streamline image processing and analysis. An end-to-end workflow that allows you to output print quality maps. And support for the file formats you use for information. To purchase or learn more about ENVI 4.7, go to www.ittvis.com/ENVI. To find a representative, call 303.786.9900.

ENVI 4.7 – The Next Step in Workflow Integration

