

New features in version 7.1

# ER Mapper Professional

Many features have been added to ER Mapper Professional 7.1 to help you perform your imagery tasks even more effectively.

ER Mapper 7.1 will be released Quarter 2, 2006. If your software renewal maintenance is up-to-date, you will get this upgrade for free.

## GeoTIFF Enhancement

- Read and write files larger than 2GB
- Support for 32 bit TIFFs
- Support for JPEG compressed TIFFs

## JPEG 2000 files with alpha channel support

Null values are handled as 'true-null' values in JPEG 2000. Totally distinct image edges. No compression artifacts in your image edges!

## New Supported formats

- ERDAS Imagine (IMG) 8.x
- ArcInfo ASCII grid
- SDTS
- CGRA DEM format
- PNG 24 bit (direct read)

## Enhanced printing support from Image Web Server

You can now print larger than 4,000 x 4,000 images! Ideal for when you are printing large plots from Image Web Server.

## Toggle "reprojection-on-the-fly"

Being able to reproject images automatically is a huge productivity boost.

For those occasions when you would prefer not to use this function, you can now switch "reprojection-on-the-fly" on/off via your preferences.

## IRS-P6 Indian Satellite format

New import module for this format

## New projections / datums

### Datums

NAD83 High Accuracy Reference Network (HARN) PETROLEUM DEVELOPMENT OMAN SURVEY DATUM 1993 (PSD93)

### Projections

- HARN Arizona Central (Feet)
- HARN Arizona Central (Meters)
- Idaho Transverse Mercator for NAD83 (IDTM83) Mississippi Transverse Mercator (MSTM)

## Engine enhancements

Numerous enhancements and improvements to the ER Mapper engine.

www.ermapper.com

**ER Mapper**  
Geospatial Imagery Solutions



Please contact your nearest ER Mapper office for more details.

# ER Mapper Professional features

## Access imagery

- Directly read any ER Mapper, ECW, JPEG 2000, BMP, JPEG, HDF, TIFF, GeoTIFF, ESRI defined BIL, DOQQ, SpotView image and 100's of other image formats
- Customizable to include your own translators
- Comprehensive list of satellite, seismic and airborne data imports
- Link to common GIS and database data without importing
- Vector and GIS imports include ARC/INFO, AutoCAD DXF, DGN and shapefile
- Print to 100's of printer formats

## 3d Presentations

- Multi-surface
- Quality printed output
- Transparency
- Flythrough and perspective
- Combine images and vectors

## Classify

- ISOCCLASS unsupervised classification
- Supervised classification using regions. Posterior probability and typicality index and thresholding
- Define regions interactively using scattergrams
- Detailed statistics and reports
- Display classes over imagery
- Spectral Angle Mapper Formula

## Produce maps

- Include multiple images on a map
- High quality printing
- Smart map objects
- WYSIWYG map layout
- Create your own map items

## Annotate

- Edit ARC/INFO coverages
- Do image analysis while annotating
- Fast and powerful
- Surface gridding wizard
- Create multi-band gridded images from multiple input sources.
- DEM generation from point data

## Analyze images

- RGB/HSI/greyscale/colordrape images
- 2D or 3D views
- Any number of image windows and any data size
- Integrated raster and vector and maps
- Transforms and filters
- Filters and convolutions
- Powerful what-if formula with arithmetic, geometric, statistical, logical operators and special functions
- User extendable image formulae
- Linked and overview windows

## Batch script engine

- Create interactive guided wizards scripts
- Complex tasks are reduced by easy steps

## Create contours

- Datasets, algorithms and virtual datasets can all be contoured
- Automatically creates the contours
- Let ER Mapper set the parameters or specify them yourself
- Set the contour start value and interval, contour labels and contour color, line style and line width
- Save the contours out to a vector (.erv) file

## Orthorectification wizard

- Fully bundled in ER Mapper; no add-ons
- Reprojection-on-the-fly
- Intuitive easy to use wizard interface
- Easily make images for precision
- Create orthos in any map projection, even if different from the DEM

## Mosaic wizard

- Mosaic 100's or 1000's of images automatically
- Any type of data format and resolution
- Feathering across image borders
- User control over stitching

## Airphoto Balance wizard

- Automatically color balance airphoto mosaics
- Automatically remove hot spots and visible edges
- Detect and compensate for variations
- Detect and remove hot spots (sun glint)
- Create seamless mosaics

## ECW and JPEG 2000

### Compression wizard

- Compress image mosaics quickly
- Compress images at very high quality and high compression speeds Supports multi-band images
- Adjustable compression rates depending on your desired results
- Faster compression and viewing of ECW images than other compression formats
- Save compressed images ready for use in ArcView®, MapInfo®, Autocad MAP®, Microsoft® Word, Photoshop® and many other applications

## Geocoding wizard

- Warp image to vectors, image to image, image to map coordinates
- Accepts points from GPS and digitizers

## HDF Import Wizard

- Convert various HDF products into ER Mapper raster datasets (.ers) and/or ECW or JPEG 2000 images.
- Quick and simple way to prepare HDF data for display via Image Web Server
- Provides users with a simple way to prepare HDF data for viewing/processing the internet

www.ermapper.com

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