

Image Compressor Datasheet

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Feature	Feature Description
Input / output formats	
Read file formats	<ul style="list-style-type: none"> • ER Mapper Algorithm (.alg) • ER Mapper Raster Dataset (.ers) • ESRI BIL and GeoSPOT (.hdr) • Windows BMP (.bmp) • RESTEC/NASDA CEOS (.dat) • USGS Digital Ortho Quad (.doq) • ER Mapper Compressed Wavelet (.ecw) • JPEG 2000 (.jpf, .jpx, .jpc, .j2c, .j2k, .jp2) • Landsat 7 FastL7A (.fst) • National Imagery Transmission Format (.ntf) • ArcInfo ASCII Grid (.asc) • ERDAS Imagine (.img) • GeoTIFF/TIFF (.tif, .tiff) • Portable Network Graphics (.png) • USGS ASCII DEM (.dem) • USGS SDTS DEM (.ddf) • Military Elevation Data (.dt1, .dt0) • Aster/Modis/Landsat7/EODIS/Spot Vegetation (.l1g, .l1r, .met, .hdf) • JPEG (.jpg)
ECWP support	Reads imagery from Image Web Server
output file formats	<ul style="list-style-type: none"> • ER Mapper Raster Dataset (.ers) • ER Mapper Virtual Dataset (.ers) • ER Mapper Compressed Wavelet (.ecw) • JPEG 2000 (.jpf, .jpx, .jpc, .j2c, .j2k, .jp2) • GeoTIFF/TIFF (.tif, .tiff) • National Imagery Transmission Format (.ntf) • ER Mapper Algorithm (.alg) • ESRI BIL and GeoSPOT (.hdr) • Windows BMP (.bmp) • JPEG (.jpg) • World files (.<xx>w)

JPEG 2000

Lossless compression	Reduce file size to approx 0.5 to 0.25 of the original size.
Up to 28 bit-depth support	User specifiable. Good for compressing 16bit dems to lossless jp2.
Opacity/NULL support	Allows distinct edges without artefacts.
Multiband output	Output in various band combinations.
GmJP2 / GeoJP2	Store additional geographical information image file.

Image viewing

Smart open	Detects format of image and automatically opens to proper view. Bands etc are automatically adjusted so the image looks right. Smart open works well for rgb, satellite imagery, height data and most imagery data.
Mosaicing wizard	Mosaic image titles (including but not limited to 2D or 3D display, Sunshade or ColorDrape display).
Region display	View polygons (attribute data) over raster imagery.
Geoposition window / extents dialogs	Sets the window size and data extents, including zooming and panning. Provides overview zooming and roaming.
Geolinking between image windows	Link two or more images together so that a zoom in one image window will result in a zoom in the other image window. There are a number of different ways to geolink – windows, screen, overview zoom and overview roam.
Smooth image on load	Stops blocks / steps from appearing when zooming close to or beyond an image's resolution. Often used when a background image is low resolution and the foreground image is high resolution.
Overview roam	Use an overview image for navigating (roaming) the image.
Overview zoom	Use an overview image for navigating (zooming) the image.
Multiple image windows	
Rotation	Rotate an image whilst still retaining georeference integrity.
Quick Copy window	Clones the current window.

High performance / easy to use

Algorithm	Store image processing steps in a separate file – no need to render the whole raster image at each stage of processing.
ER Mapper Pro wizard capability	Wizard driven operations.
Super fast display	Even very large, high resolution images load quickly.
Super fast mosaics	Open and intelligently mosaic thousands of files in a very short time.

Coordinate systems

EPSG text descriptions	Choose coordinate systems based on common EPSG text descriptions instead of datum/projection pairs.
US projection systems	<ul style="list-style-type: none">• US projection systems.• HARN projection.

Easy coordinate selection	Standard dialogs for coordinate system choosing, editing and defining.
Coordinate system definition straight from TAB or PRJ files	
Compatibility with all major GIS and industry standard organizations	
OGC standards support	Support for the latest well-known text (WKT) coordinate system definitions as per the Open GIS Consortium specifications.
Datum / projections	<ul style="list-style-type: none"> • Over 3200 predefined coordinate systems. • Over 1100 datum shifts. • 50+ mathematical projections, local and global vertical datums.

Preparation / processing

Define Clip Regions wizard	Cut out a segment of an image.
Create Rotated Clip Regions wizard	Get rid of the black edges on rotated air photos.
Edit / create customized clip regions	Remove an area from the image (e.g. edges of a map sheet).
Vector to region conversion	Turn a shape (or other vector file) to a region.
Clip Regions wizard	For manipulating clip regions in an image window.
Balance wizard	Color balance images to create seamless mosaics.
Reprojection on the fly (different coordinate systems/rotations)	Change an image projection / datum.
Batch compression	Script compression operations.
Batch map to map reprojection*	*not in free version

Miscellaneous

OLE support	(via ER Viewer) – can open up imagery inside word documents/ power points etc).
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