



Pixels add up. Make MrSID imagery with LizardTech's GeoExpress software and save on storage costs by reducing the size of your geospatial data. Compress raster imagery to the MrSID and JPEG 2000 formats, or compress LiDAR data to the MrSID and LAZ formats. Then, make your imagery better with powerful tools for mosaicking, reprojection, and more.

GeoExpress Benefits

Your Go-To Image Compression and Manipulation Software—Now for Raster and LiDAR

Reduce Storage Costs

Compress images to less than five percent of their original size using either the industry-standard MrSID image compression format, or the ISO standard JPEG 2000 format, all while retaining the visual quality of the originals. Alternatively, maintain pixel-for-pixel image fidelity while still reducing image sizes to 50 percent of their original sizes. Not only are compressed images easier to store, they are also perfect for mobile devices and low-bandwidth environments.

Make Images Better

Make existing imagery more visually appealing and more useful with the powerful suite of editing and manipulation tools in GeoExpress. Take advantage of cropping, color balancing, reprojection, and more. Combine multiple images into mosaics, create custom image tiles easily, and export just the sections of imagery that you want at exactly the resolution that you want.

Compress LiDAR Point Clouds

GeoExpress 9.5 now supports LiDAR point clouds stored as ASCII files, LAS files, LAZ files, and MrSID Generation 4 (MG4) files. Reduce the size of your LiDAR files by 75 percent or more while retaining all of your points and all the accuracy of your point data. You can even explore your point clouds in 3-D mode directly from GeoExpress.

Create Seamless Mosaics

Traditionally, enormous images have been slow to open and slow to display, necessitating complex tiling schemes to facilitate interacting with the images. No more. With the MrSID and JPEG 2000 image formats, you can create mosaics of all your images while keeping image sizes low. Moreover, because the formats provide advanced selective decompression functionality, even very large image mosaics remain snappy and responsive. GeoExpress does more than make mosaics convenient though—it makes mosaics better. Use simple color balancing tools to remove seam lines between images, correct color distortions, and more.

GeoExpress Benefits Continued

Color Balance All Your Imagery

The color balancing tools in GeoExpress aren't just for mosaics. You can manually or automatically adjust brightness, contrast, gamma and more for one image or for many images. When working with a large numbers of images, you can adjust and preview one image quickly, then apply the same adjustments to all your other images in one fell swoop.

Ensure Interoperability with Geospatial Applications

In the 20 years that the MrSID image format has existed, it has become an industry-standard. You can rest assured knowing that your MrSID imagery is widely supported across the widest range of geospatial applications, including ArcGIS, Autodesk, Intergraph, MapInfo, and Bentley, just to name a few.

Enjoy Powerful Crop and Export Features

Create images that are exactly the right size and resolution for you. Whether you want to create image tiles with specific dimensions or just extract a particular scene from an image, GeoExpress has all the tools you'll need. You can select from convenient preset options for web and print, or enter custom dimensions and tiling options. For even more control, you can crop images that match a single polygon or multiple polygon shapefile that you select.

Customize Multispectral Imagery

Compressing multispectral and hyperspectral imagery is a breeze with GeoExpress. You can copy your image bands exactly knowing that

MrSID Generation 4 (MG4) images support up to 255 image bands, or you can select any subset of output bands. What's more, you can change the order of your image bands easily and even set different compression ratios for each band.

Reproject Imagery

GeoExpress maintains an extensive list of coordinate reference systems so that you can change the projection of your images with just a couple of clicks. Alternatively, you can specify custom coordinate reference systems with Well Known Text (WKT), and you can save time by accessing a list of the coordinate reference systems that you have used recently.

Use Alpha Bands for Transparency

The MrSID format supports alpha bands so that you can add true transparency to your geospatial imagery. Make portions of your image transparent or opaque without resorting to the use of no-data values. You can also create alpha bands for existing images to remove compression artifacts known as speckling. Images with alpha bands will seamlessly combine into artifact-free mosaics for accurate analysis and visualization in your favorite GIS applications.

Integrate with Express Server

Export images to the web directly from the GeoExpress interface. GeoExpress integrates with LizardTech's Express Server software so that you can get your MrSID and JPEG 2000 images to the people who need them as quickly as possible. Out of the box, Express Server includes a full-featured web tool that makes it easier than ever for your

users to browse, view, and export imagery straight from their web browsers.

Take Advantage of Flexible Licensing

Share image compression and editing tools across your organization. Any version of GeoExpress that you install can be used with floating licenses so that you can maximize value from your organization's application budget and still increase productivity both in the office and out in the field. Switching between versions of GeoExpress is just as painless. For example, all you have to do to move from the trial version to the standard version is enter another license code and serial number.

Try it for Free

Install a trial of GeoExpress in minutes. Learn more and download the free trial at the following URL:

www.lizardtech.com/products/geoexpress

System Recommendations

Windows

- Windows Server 2012
- Windows 8
- Windows 7
- Windows Server 2008 R2
- Windows Server 2008 Service Pack 2
- Windows Vista Service Pack 2

Linux

- Red Hat Enterprise Linux 6
- Red Hat Enterprise Linux 5

All Platforms

- 2.5 GHz Quad Core CPU
- 4 GB RAM
- 200 MB of disk space for installation and additional space for images

Purchase Options

GeoExpress 9.5 Standard Edition

- Level 1 - 100 GB of annual encoding
- Level 2 - 500 GB of annual encoding
- Level 3 - 1 TB of annual encoding

GeoExpress 9.5 Unlimited Edition

- Unlimited MrSID and JPEG 2000 encoding and

powerful image manipulation tools

GeoExpress 9.5 Tools Edition

- Unlimited manipulation of MrSID and JPEG 2000 images

GeoExpress 9.5 Remote Edition

- Unlimited MrSID and JPEG 2000 encoding and manipulation in a Terminal Services or Citrix environment

Floating Licenses

LizardTech's optional Floating License System allows you to deploy GeoExpress on workstations throughout your organization with a flexible, token-based licensing system. The "commuter license" now enables you to work offline.