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Edit Multi-Resolution Files—NEW



Edit multiresolution image files such as LizardTech's MrSID and ER Mapper's ECW, and save them in the industry-standard JPEG 2000 format.

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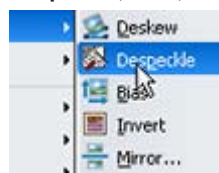
Interoperability with Autodesk Map 3D and Autodesk Civil 3D—IMPROVED



The Image Capture functionality has been enhanced to provide better interoperability with AutoCAD Map 3D and AutoCAD Civil 3D. Raster Design can retrieve and edit imagery accessed by the AutoCAD Map 3D 2008 and Civil 3D 2008 FDO raster providers serving as the raster data preparation and editing tool for these software users. Typical data preparation tasks include performing true coordinate transformations, cropping unwanted regions, merging multiple images together, and performing image processing operations.

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Despeckle, Bias, and Mirror Commands—IMPROVED



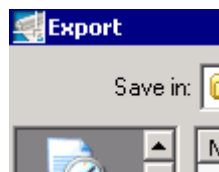
Despeckle removes stray pixels in images resulting from scanning of imperfect drawings or blueprints. This functionality has been enhanced and streamlined to remove unnecessary steps and increase efficiency and productivity. Bias corrects distortions in an image's aspect ratio. Mirror reflects an image along the horizontal or vertical axis to correct reversed-image problems in scanned drawings. Improve usability and legibility of your scanned images with powerful image cleanup tools.

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Touchup Tool

A Paint-style drawing tool with multiple resizable brushes that paints in either foreground or background image color. Reduce your time and effort in cleaning up scanned drawings and maps.

Edit and Save Multispectral Imagery and DEMs

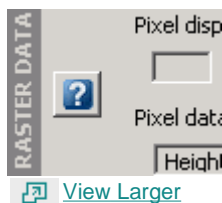


Transform multispectral and DEM data from their native coordinate systems to yours when you use a AutoCAD Map 3D-based platform. Crop these images to conform to your project area. Merge images to cover larger areas with a single image. Change image density to handle images more efficiently. Save time by adapting multispectral and DEM data to match your coordinate system. Make easier use of large multispectral images by reducing them to cover just the area you need for your project.

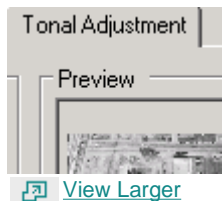
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Raster Data Point Query feature

Retrieve pixel values from multispectral imagery, DEMs, and other image types. Use the data contained in your raster images to determine underlying data values for such things as reflectance, elevation, slope, aspect, and current display color values. Avoid multiple trips to the field by getting the answers you need from the imagery. Dynamically "see" raster data values as you draw AutoCAD geometry over an image.

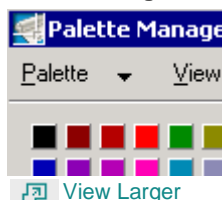


Tonal Adjustment



Use a nonlinear contrast curve to improve the appearance of scanned photos and satellite imagery. The software provides single-exponent (gamma) value, fitted-curve, or piecewise linear curve adjustment. Improve the clarity and usefulness of scanned imagery by bringing detail out of the shadows without affecting highlights.

Palette Manager

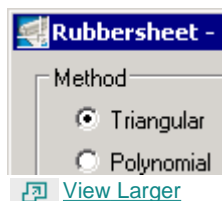


With the Palette Manager tool you can do the following:

- Determine the number of colors an image can contain
- Determine which colors are actually used
- Change existing color entry (or entries) to map to a different color
- Combine several color indexes into a single mapped color
- Compress the palette
- Import and export palettes
- Change or rearrange image colors

Standardize the use of color images, improve efficiency of color usage in images, and improve control of transparency color selection.

Rubbersheeting



Transform or stretch an image so that specified control points in the image match corresponding points in the drawing as closely as possible. Automate control point selection for grid points. Use the triangulation algorithm that is more compatible with global positioning system (GPS) and surveyed control points. Improve accuracy and get more predictable results. Save costs by using readily available aerial photography and scanned maps instead of expensive orthorectified imagery.

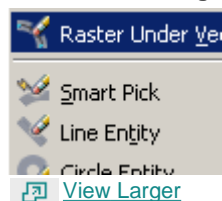
Clean up Scanned Drawings by Smoothing Raster Geometry

Use the bitonal filters to clean up raster images. Use these filters with other cleanup commands such as Despeckle and Deskew. Get the full value from scanned drawings. Transform old, illegible data into an understandable, working part of your design information.

Change Color Depth and Image Density

Create smaller files by decreasing the number of colors displayed. Control image density to reduce the file size of the image or drawing. Standardize image formats for your organization. Adjust and improve images. Save time, money, and disk space and reduce transmission time with smaller files.

Erase Raster Using Existing Geometry



Use existing vector geometry to remove portions of the underlying raster image. For instance, trace a complex spline in your image and then remove the traced raster. Save time and reduce confusion during vectorization of raster images. Crop raster data in an image or across multiple images. Rub or erase raster data in an image or across multiple images.

Match Images to AutoCAD Scale and Rotation

Align an image to existing vector line work by specifying control points on the image and drawing. The Match command rotates, scales, and moves the image. One-step image registration saves time and improves accuracy when working in raster or hybrid files.

Preserve Image Correlation Information

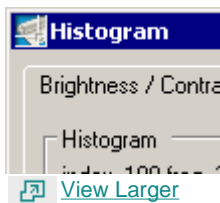
Civil, mapping, and GIS projects require correlated imagery to enhance presentations. Use powerful options to save the correlation information to a resource file, a Geotiff file, or the image file. Save processing time and file storage space by exporting a correlation as a world file without the associated image.

Save Images to Different File Formats

Read in any image format and then save in your standard image format. Use images in other software applications. Saving your images to JPG 2000 format decreases the size of your files without compromising visual image quality by taking advantage of the high compression ratio of the JPG 2000 image format. Share and use data in other applications. Standardize your image formats for consistency within your organization.

Enhance Images

The Histogram command equalizes images, adjusts brightness and contrast, converts grayscale or color images to binary images, and converts color images to grayscale. Convolve uses smoothing filters to reduce ruggedness



and noise and sharpening filters to make differences in shading more distinct. Invert reverses the light and dark shades of binary, color, and grayscale images. Improve and adjust the appearance of images. Take full advantage of your investment in existing imagery.

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