

Top 10 Reasons to Choose AutoCAD Raster Design 2009 Software

The Power of AutoCAD Raster Design

AutoCAD® Raster Design extends the power of AutoCAD® software and AutoCAD-based applications to help you perform raster drawing cleanup, editing and manipulation, raster-to-vector conversion, and image processing. The software helps you work with imagery in a broad range of industry formats, analyze DEMs (digital elevation models) and multi-spectral images, and much more. Enabling you to work in the AutoCAD environment, Raster Design significantly reduces the need to purchase and learn multiple applications.

Now Is the Time

Want to get unparalleled productivity from your design process? Then now is the time to take a look and discover why so many engineers, designers, and drafters are adding AutoCAD Raster Design to their AutoCAD-based design application.

For more information about AutoCAD Raster Design, go to www.autodesk.com/rasterdesign.

To locate the reseller nearest you, visit www.autodesk.com/reseller.

Discover why so many engineers, designers, and drafters use AutoCAD Raster Design software.

- 1 Minimize Costly Redrafting and Data-Entry Time**
Convert your scanned paper drawings to vector with interactive and semiautomatic conversion tools. Use dynamic dimensioning and grip editing with vectorization tools to speed up the conversion and verification of raster primitives such as lines, arcs, and circles. Easily convert continuous raster entities into AutoCAD® software polylines, 3D polylines, or AutoCAD® Land Desktop contour objects with vectorization following tools. Create and effectively manage hybrid drawings by converting only the necessary raster geometry, thereby speeding document and drawing revisions and updates. In addition, use optical character recognition (OCR) functionality to recognize machine- and hand-printed text and tables on raster images to create AutoCAD text or multiline text (mtext).

RESULT: Speed project completion by unlocking and making the most of existing scanned engineering drawings, plans, and maps.

- 2 Use the Imagery You Require**
AutoCAD Raster Design software supports a wide variety of industry-standard file formats, including single-image and multispectral file formats such as CALS, digital elevation models (DEMs), DOQ, U.S. National Geospatial Agency DTED (level 0, 1, and 2), ER Mapper ECW, ESRI® GRID, GeoTIFF, GIF, JPEG, JPEG 2000, Landsat FAST-L7A, DigitalGlobe® QuickBird, National Transmission Imagery Format (NITF) version 2.0 and 2.1 satellite imagery, LizardTech™ MrSID®, TIFF, and more.

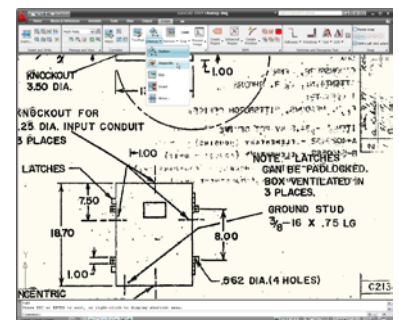
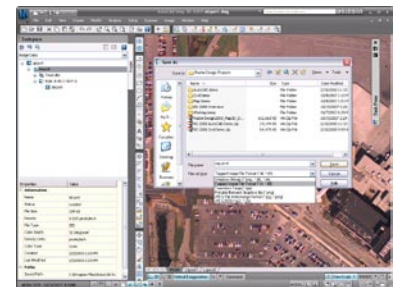
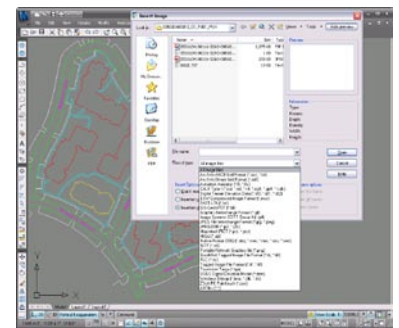
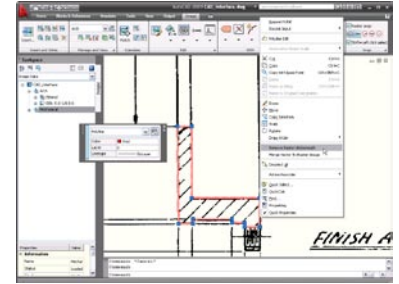
RESULT: You can choose from a wider range of image data for use in projects—saving time.

- 3 Convert and Save Images to Different File Formats**
Insert images into your AutoCAD-based application in virtually any format and then save the image to your standard format of choice. For example, convert MrSID files to JPEG 2000 format to decrease the size of your files without compromising visual image quality. Standardize your image formats for consistency within your organization.

RESULT: Extend the use of imagery to other applications such as Microsoft® Word and PowerPoint® software.

- 4 Edit and Clean Scanned Paper Drawings**
Maintain your scanned drawings with easy-to-use raster editing and cleanup tools. Use the Microsoft® Paint-like Touchup tool to fill gaps and erase fragments in raster drawings, and use powerful REM (raster entity manipulation) tools, including extend, trim, fillet, and offset, to edit and create raster geometry. Use despeckling, deskewing, and bias correction tools to clean, straighten, and improve the legibility and quality of scanned drawings.

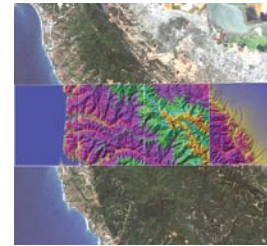
RESULT: Improved usability and legibility help to ensure that scanned drawings can be used in future projects.



5 Create High-Quality, Eye-Popping Visuals

Integrate imagery to improve your project's appearance. Apply hill-shading and blending effects and create color elevation representations directly from DEM files. Create image snapshots and capture color mapping results from DEMs, multispectral imagery, and other images for publishing, word processing, and presentation purposes to improve the visual quality of your work.

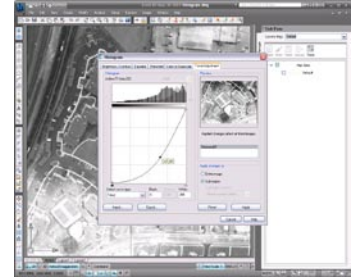
RESULT: Your plans and presentations come to life with visuals that have a lasting effect on project decision makers—and your reputation.



6 Enhance Your Existing Image Archive

Get the most out of your raster data with powerful image processing. Make nonlinear adjustments for brightness and contrast to enhance darker tones while preserving the appearance of mid-tones and lighter colors, and vice versa. Use the Palette Manager to manipulate individual colors and entire palettes for color images. Select and change a color, combine several color indexes, compress the palette, import and export palettes, and isolate features, such as contours within maps, by turning everything else to the background color.

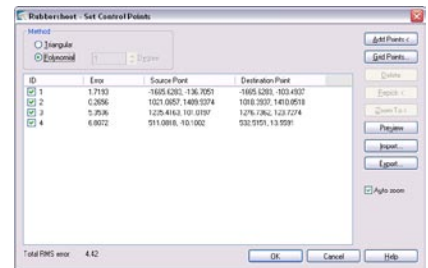
RESULT: Improve the overall quality of your image archives, so you can get the full benefit from your investment in imagery across the organization.



7 Match Imagery to Your Project

Get the most out of inexpensive imagery that does not contain georeferencing information by rubbersheeting to align aerial photography with your project. Use new or reuse existing imagery with a coordinate system different from that of your current project. Perform coordinate transformations to adapt available imagery to your project requirements, thereby avoiding the need to acquire new imagery. Do this with all forms of images, including DEMs and multispectral satellite imagery.

RESULT: Save time and reduce project expenditures by matching existing and low-cost imagery to your project coordinate system.



8 Send Complete Drawings Including Images

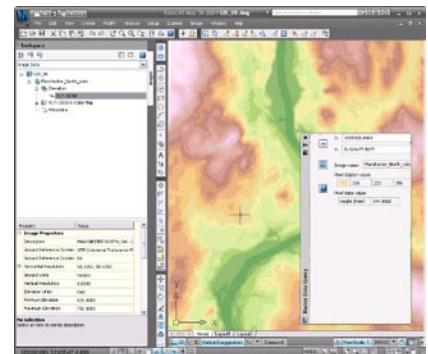
Save bitonal raster images within the DWG™ file instead of maintaining the image as an external reference. Simplify your document management tasks by maintaining and transporting only one file, avoiding the need to track external image references. The ability to embed or extract images at any point in the process gives you increased flexibility. Note: The receiving AutoCAD-based software needs to have AutoCAD Raster Design or the free* Raster Design object enabler installed to view embedded images.

RESULT: Easily and reliably send drawings containing images to clients, partners, and agencies.

9 Analyze Raster Data

Create color elevation representations directly from DEM, DTED (digital terrain elevation model), and ESRI GRID raster files. 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. Show vegetation, land cover, and environmental information using readily available multispectral satellite imagery.

RESULT: Design and policy decisions can be improved by using low-cost and widely available raster data.



10 Reap the Benefits of Multiresolution Image Technology

Directly edit multiresolution files such as LizardTech MrSID, ER Mapper ECW, and industry-standard JPEG 2000 formats. Merge images to cover larger areas with a single image. Change image density to handle images more efficiently. Make easier use of large multispectral images by reducing them to cover just the area you need for your project. Save changes or edits to JPEG 2000 format and retain multiresolution advantages of small file size and fast performance while retaining high visual image quality.

RESULT: Maximize the value of your geospatial imagery investment beyond the geographic information system (GIS) department by using and adapting high-resolution imagery in AutoCAD-based design applications.

* Free products subject to the terms and conditions of the end-user license agreement that accompanies download of the software.