

When our customers bring in their old drawings that might have been sitting in a drawer for 30 years, it's safe to say that the quality of the drawings may have degraded from age, water damage, or just plain old dirt. Scans that result from such damaged drawings aren't the highest quality; however, with the powerful suite of tools in Raster Design, including rubbersheeting, despeckling, and others, we can massage the data and make it accurately convey the design intent once again.

—Michael C. Johnson
CEO
Advanced Career Development

Learn More or Purchase

Access specialists worldwide who can provide product expertise, a deep understanding of your industry, and value that extends beyond your software purchase. To purchase AutoCAD Raster Design software, contact an Autodesk Premier Solutions Provider or Autodesk Authorized Reseller. Locate a reseller near you at www.autodesk.com/reseller.

To learn more about AutoCAD Raster Design, visit www.autodesk.com/rasterdesign.

Looking for high-resolution aerial and satellite imagery as well as vector data for your projects? Visit www.autodesk.com/geodata.

Autodesk Learning and Education

From instructor-led or self-paced classes to online training or education resources, Autodesk offers learning solutions to fit your needs. Get expert guidance at an Autodesk Authorized Training Center (ATC[®]) site, access learning tools online or at your local bookstore, and validate your experience with Autodesk certifications. Learn more at www.autodesk.com/learning.

Autodesk Services and Support

Accelerate return on investment and optimize productivity with innovative purchase methods, companion products, consulting services, and support from Autodesk and Autodesk authorized partners. Designed to get you up to speed and keep you ahead of the competition, these tools help you make the most of your software purchase—no matter what industry you are in. Learn more at www.autodesk.com/servicesandsupport.

Autodesk Subscription

Get the benefits of increased productivity, predictable budgeting, and simplified license management with Autodesk[®] Subscription. You get any new upgrades of your Autodesk software and any incremental product enhancements, if these are released during your subscription term. In addition, you get exclusive license terms available only to Subscription members. A range of community resources, including web support direct from Autodesk technical experts, self-paced training, and e-Learning, help extend your skills and make Autodesk Subscription the best way to optimize your investment. Learn more at www.autodesk.com/subscription.

Autodesk is committed to sustainability. This brochure is printed on 25 percent postconsumer waste recycled paper. Autodesk, AutoCAD, Civil 3D, and Topobase are registered trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document. © 2009 Autodesk, Inc. All rights reserved. 000000000000118289

AutoCAD[®]

Raster Design

Image is everything.



Designs Enhanced

Helping design professionals across a broad range of industries—civil; GIS/mapping; mechanical, electrical, and plumbing (MEP); architectural; and manufacturing.

“While we are working to create digital versions of our older paper maps, we use Raster Design to edit and maintain scanned maps digitally. The software helps us maintain our existing maps and lets us easily find and use our raster assets.”

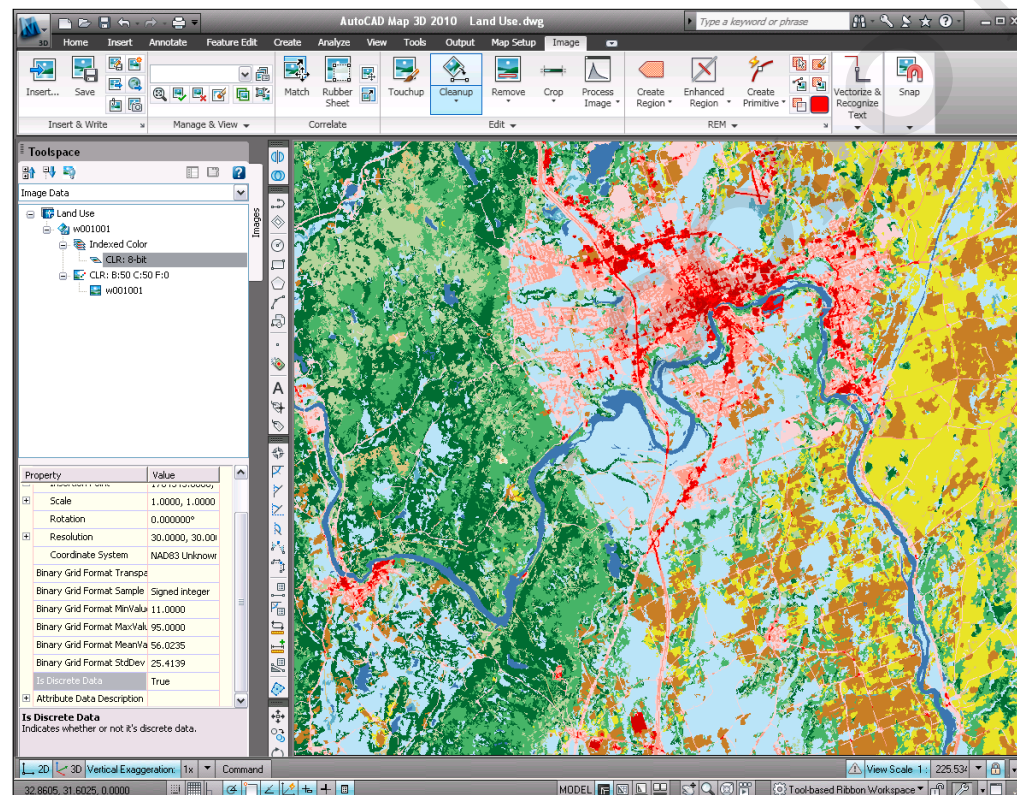
—Greg Ammon
Water GIS Systems Manager
Los Angeles Department of Water and Power

Make the most of rasterized scanned drawings, maps, aerial photos, satellite imagery, and digital elevation models. Get more out of your raster data with AutoCAD® Raster Design software.

Use AutoCAD Raster Design software with AutoCAD®, AutoCAD® Architecture, AutoCAD® Civil, AutoCAD® Civil 3D®, AutoCAD® Electrical, AutoCAD® Map 3D, AutoCAD® Mechanical, AutoCAD® MEP, AutoCAD® P&ID, and Autodesk® Topobase™ software to unlock and extend the value of existing design information.

AutoCAD Raster Design enables you to work in an AutoCAD environment, significantly reducing the need to purchase and learn multiple applications.

Extend the Value of Existing Information
Unlock and make the most of existing scanned engineering drawings, plans, and maps by using them in current projects. You can save redrafting time with powerful raster editing and raster-to-vector conversion tools.



Incorporate widely available geospatial raster data that can be used to visualize information such as land cover. Data used in image from USGS National Land Cover Database.

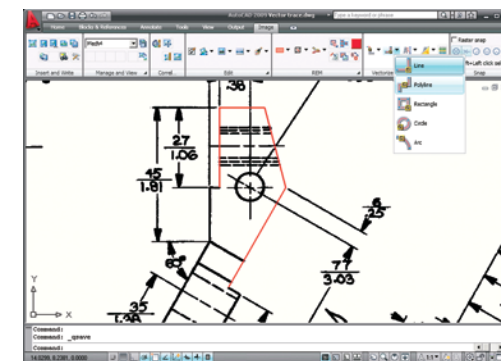
Approvals Accelerated

Perform raster drawing cleanup, editing and manipulation, raster-to-vector conversion, and image processing while working with a breadth of imagery.

Improve Decision Making
Get projects approved faster by creating drawings and presenting proposals that integrate information-rich plans, maps, aerial photos, and other forms of imagery that enhance communication and understanding of your design intent.

When used with AutoCAD Map 3D-based software, AutoCAD Raster Design provides additional functionality so you can better utilize geospatial imagery to create color elevation representations directly from DEM, DTED, and ESRI® GRID raster files. Visualize the slope and aspect information you need to help make better design and policy decisions. Show vegetation, land cover, and environmental information using readily available multispectral satellite imagery.

Enhance, Preserve, and Maintain Valuable Raster Assets
AutoCAD Raster Design software enables you to easily clean up, edit, enhance, and maintain your archive of scanned drawings and plans with image cleanup, processing, and hybrid editing tools in a familiar AutoCAD environment.



Accurately vectorize partial or entire scanned sheets using the semiautomatic and interactive raster-to-vector conversion utilities.

Use Industry-Standard Image Formats
AutoCAD Raster Design supports numerous image formats so designers can easily integrate and use imagery within their projects. Supported image formats include MrSID®, ECW, and JPEG 2000, DigitalGlobe® Quickbird TIFF, Landsat FAST-L7A format multispectral imagery, and the National Imagery Transmission Format (NITF), which is an important tool for the U.S. Department of Defense and the federal intelligence community.

Other supported formats include the following:

| | | |
|---------|-----------|------|
| BMP | CALS | DEM |
| DOQ | ESRI GRID | FLIC |
| GeoSPOT | GeoTIFF | GIF |
| IG4 | JPEG/JFIF | DTED |
| PCX | PICT | PNG |
| RLC | TGA | TIFF |

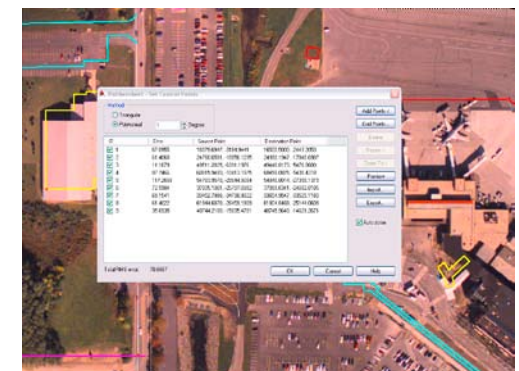
Clean Raster Drawings and Images
Improve usability and legibility of scanned drawings with powerful image cleanup tools. Despeckle removes stray pixels that result from scanning dirty or faded drawings or blueprints. Deskew corrects drawings that were crooked as they were fed through a scanner. Bias corrects distortion in an image's aspect ratio. Mirror can correct transparencies that have been scanned upside down. By using these and other tools, you can reduce the time and effort necessary to clean up scanned drawings and maps while better maintaining your image archives.

Enhance Images with Intuitive Image-Processing Tools
Several image-processing features are available to help designers get the most from existing imagery. The histogram feature includes functions to equalize images, adjust brightness and contrast, convert grayscale or color images to bitonal images, and perform nonlinear tonal adjustments. The convolve feature has smoothing filters to reduce ruggedness and noise as well as sharpening filters to make differences in shading more distinct. The invert feature reverses the light and dark shades of binary, color, and grayscale images. These and

other image-processing features in AutoCAD Raster Design can help improve the appearance of existing images, so you can get the full benefit from your investment in imagery.

Convert Raster Data to Vector
Do you want to be able to use scanned drawings and map content without having to redraft? Would you like to convert raster lines, arcs, and text to vector for use in AutoCAD-based products as part of your drawing, model, or design? With vectorization tools in AutoCAD Raster Design, you can interactively convert raster to vector to accelerate project turnarounds and improve efficiency.

Use Optical Character Recognition
Recognize machine and hand-printed text and tables on raster images to create AutoCAD text or multiline text (mtext) automatically. Use interactive verification to correct results with dictionary matching. Save manual data entry time and improve accuracy when converting scanned documents with a lot of text.



Use correlation tools such as the unlimited point rubbersheet function to align aerial photos to drawings.