

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 rubber-sheeting, de-speckling and others, we can massage the data and make it convey the design intent accurately once again.

—Michael C. Johnson
CEO
Advanced Career Development

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AutoCAD®

Raster Design

Image is everything.



Autodesk®

Designs Enhanced

Helping design professionals across a broad range of industries – GIS/mapping; civil; 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 find and use our raster assets easily.”

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

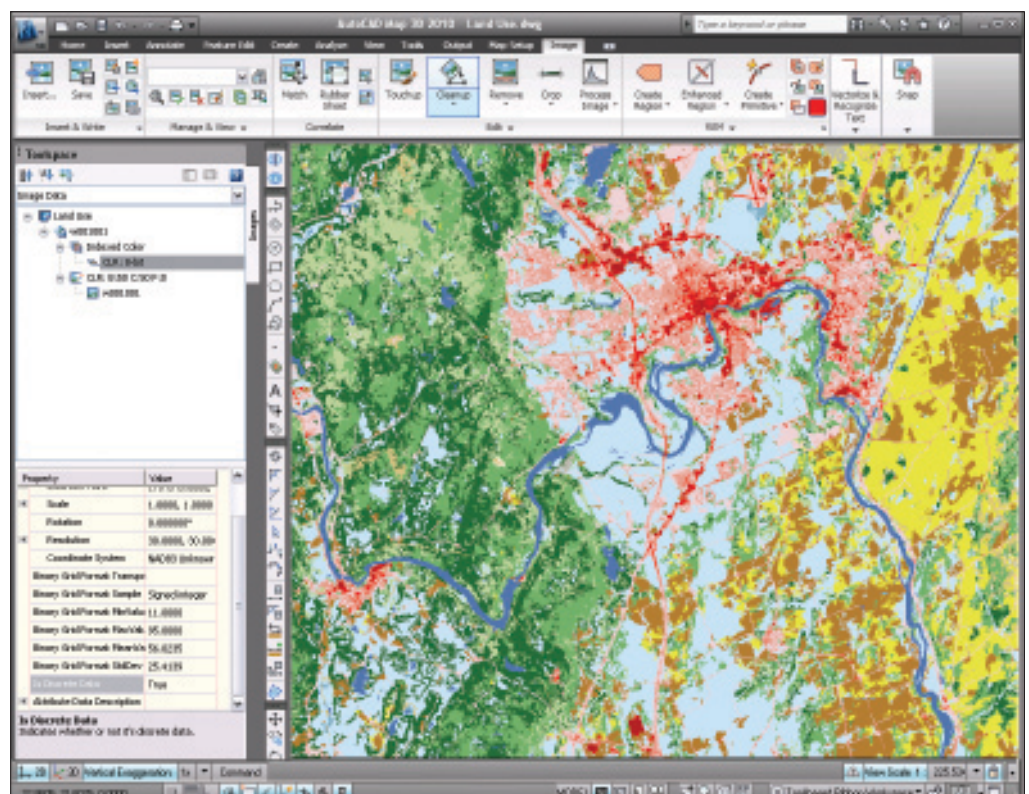
Make the most of rasterised scanned drawings, maps, aerial photos, satellite imagery and digital elevation models. Get more out of your raster data with AutoCAD® Raster Design software.

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 re-drafting time with powerful raster editing and raster-to-vector conversion tools.



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

Approvals Accelerated

Perform raster drawing clean-up, 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 utilise geospatial imagery to create colour elevation representations directly from DEM, DTED, and ESRI® GRID raster files. Visualise 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 multi-spectral 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 clean-up, processing and hybrid editing tools in a familiar AutoCAD environment.



Accurately vectorise partial or entire scanned sheets using the semi-automatic 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 multi-spectral 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 clean-up tools. De-speckle removes stray pixels that result from scanning dirty or faded drawings or blueprints. De-skew 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 improving maintenance of 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 equalise images, adjust brightness and contrast, convert greyscale or colour images to bi-tonal images, and perform non-linear tonal adjustments. The convolve feature has smoothing filters to reduce ruggedness and noise as well as sharpening filters to make differences in shading

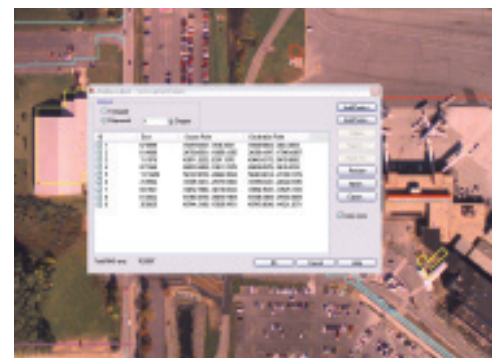
more distinct. The invert feature reverses the light and dark shades of binary, colour and greyscale images. These and other image-processing features in AutoCAD Raster Design can help improve the appearance of existing images, so you can get the full benefit from your investment in imagery.

Convert Raster Data to Vector

Do you want to be able to use scanned drawings and map content without having to re-draft? 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 vectorisation tools in AutoCAD Raster Design, you can convert raster to vector interactively to accelerate project turnarounds and improve efficiency.

Use Optical Character Recognition

Recognise machine and hand-printed text and tables on raster images to create AutoCAD text or multi-line 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 Rubber-sheet function to align aerial photos to drawings.