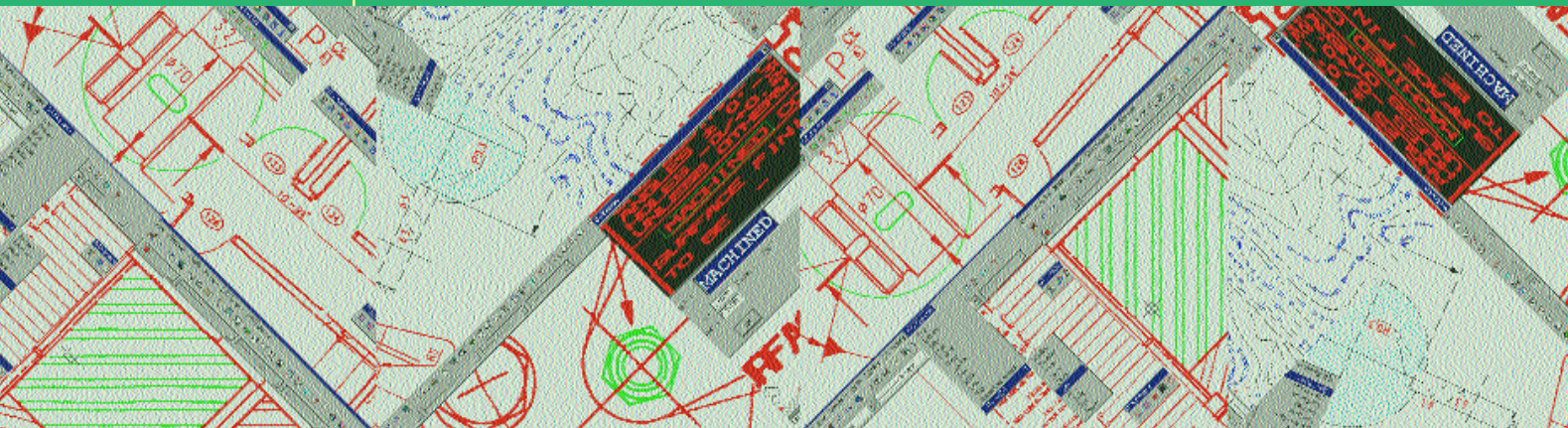




Where Paper and CAD Connect™

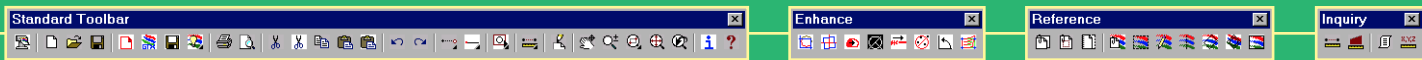
GTXImage CAD™ PLUS 2000



Increase design productivity and provide a rapid return on your investment with GTXImage CAD PLUS 2000.

If you use scanned paper drawings and CAD in your current engineering workflow, then GTXImage CAD PLUS 2000 is a unique, cost-effective solution for bringing legacy drawings into your design environment.

Modify and enhance scanned raster archives with the speed and flexibility of both raster and vector editing techniques. Whether your requirement is for raster cleanup, 2D CAD drafting, hybrid raster/vector editing or full automatic raster-to-vector conversion with intelligent text recognition, total flexibility is provided by this all-in-one product to suit your specific drawing engineering needs.



Improve your current design process by maximizing the use of your legacy paper drawings. GTXImage CAD PLUS 2000 is a total raster and vector drawing package that provides efficient raster enhancement and editing, professional CAD drafting and intelligent raster to vector conversion. This product offers a comprehensive hybrid solution for bridging the gap between paper archives and CAD.

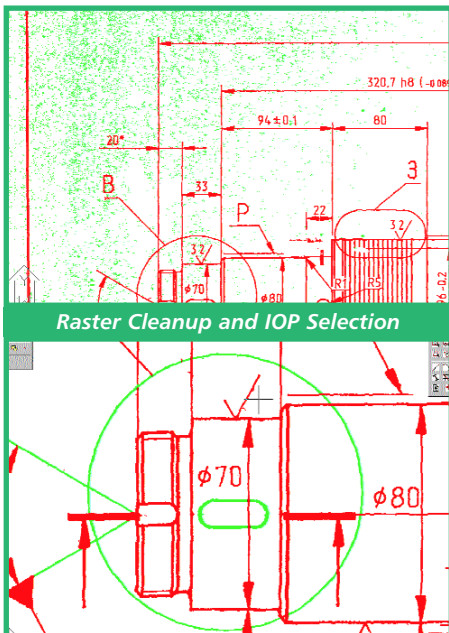
USER BENEFITS

MORE EFFECTIVE USE OF EXISTING DESIGN ASSETS

Restore, edit and cleanup your scanned images efficiently, using powerful raster manipulation commands. Then quickly and automatically convert selected or all text or geometry into intelligent entities.

REDUCE DESIGN COSTS

Merge critical legacy archives quickly and efficiently. Save up to 75% of labor costs compared to manual drafting or overlay conversion methods using the easy-to-use batch conversion utility.



INCREASE DESIGN PRODUCTIVITY

Work with multiple drawings in a single session with the new Multiple Drawing Environment (MDE). Powerful CAD drafting capabilities allow users to create new or modify existing drawings with a full-suite of 2D CAD geometry and annotations. Drawings can be saved as DXF or DWG CAD files, hybrid raster/vector files or burned into pure raster files for archiving purposes.

EASY TO LEARN - IT IS JUST LIKE AutoCAD with GTXRaster CAD PLUS!

Because GTXImage CAD PLUS 2000 has the AutoCAD 2000 OEM Engine built in, all menus and toolbars are consistent with standard AutoCAD 2000, providing a productive and very easy-to-learn user interface for both novice and existing AutoCAD users.

EASY TO USE

GTXImage CAD PLUS 2000 is intuitive and easy-to-use, providing professional hybrid solution for both new and expert CAD users.

PRODUCT HIGHLIGHTS

INDUSTRY-STANDARD 2D CAD DRAFTING

Complete two-dimensional CAD functionality is provided with support for multiple raster and vector layers, colors, linestyles and fonts. Anything from simple geometry such as lines, arcs, circles and text to complex CAD entities such as associative hatches, dimensions and multilines, can easily be created and/or modified assisted by vector "grip" editing and powerful object-snapping. Users can even modify existing DWG/DXF drawings.

DIRECT SCANNER SUPPORT

Launch your large format scanner to directly import your scanned images into your CAD environment. GTXImage CAD PLUS 2000 supports several of the industry's leading large format scanners such as Contex, Imtec, Océ, GTCO CalComp, Vidar and Widecom.

RASTER MANAGEMENT

Work across multiple drawings easily and simultaneously. Imported raster images can be turned on and off, made transparent or opaque, repositioned, scaled, used for editing or frozen for view-only purposes.

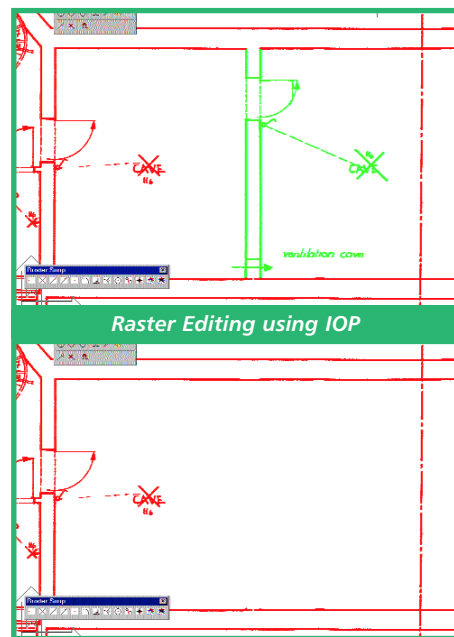


IMAGE CLEANUP

Quickly clean the scanned raster image with commands such as deskew, despeckle and crop. Erase any part of the raster image or draw CAD vectors over the top of the image. You can also convert entities into raster data for archival purposes.

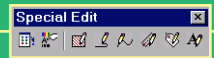
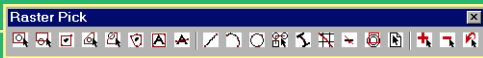
WIDE RANGE OF RASTER CLEANUP TOOLS

GTXImage CAD PLUS 2000 includes several efficient cleanup tools for drawing enhancement. These tools are especially beneficial for users with a high volume of scanned engineering drawings that require cleanup and restoration prior to modification in the engineering design process.

WARPING

Correct distortion and inaccuracies in the scanned raster file that result from humidity or extensive use of the originals drawings over time.





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Raster Smoothing

SMOOTHING ENHANCEMENTS

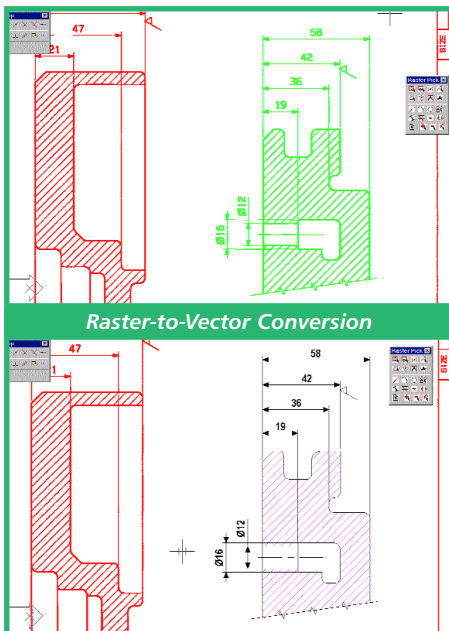
Improve drawing legibility and reduce storage requirements (by up to 30%) by smoothing the raster image using geometry rules like ortho, raster line-width definition and intersection snap.

COLOR AND GRAYSCALE IMAGES

Import color and grayscale images, such as aerial photographs for referencing or viewing.

INTELLIGENT OBJECT PICKING™

GTX's Intelligent Object Picking (IOP) technology allows you to work with raster entities as intelligent objects. Use this feature to select raster entities (line, arc, circle, text) even if touching other data. IOP even preserves underlying geometry during erase, cut and paste or other modifications.

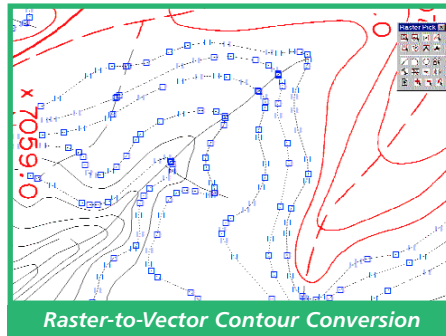


EDGE RASTERIZATION

Edge rasterization will automatically take the boundary of any solid-filled raster object, leaving an outline of the object in its place. This feature is especially beneficial for architectural plans, sign-making and logo art.

AUTOMATIC RASTER-TO-VECTOR CONVERSION

Quickly convert any or all selected raster into rectified and accurate CAD entities such as lines, arcs, circles, polylines, splines and true CAD text. Arrowhead recognition, line-style and cross-hatching separation and the ability to set a gap jump variable, further increase conversion accuracy.

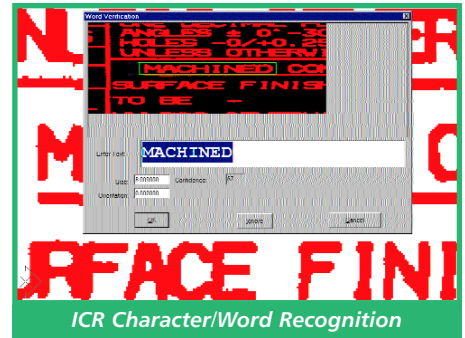


GTX OSR®

This batch conversion module recognizes and converts scanned raster data into lines, arcs, circles, polylines and arrowheads. It includes accurate decision-making at intersections and user-controlled rectification of line geometry to ensure lines are snapped orthogonally. It also provides fast and accurate conversion for GIS applications (such as contour maps and grid line extraction).

GTX® ICR™ TEXT RECOGNITION

Provides true Intelligent Character Recognition (ICR) based on hybrid neural-net technology. Train the software to automatically recognize text characters associated with individual or company drafting styles. This advanced technology even recognizes touching text and provides a dictionary and pattern matching to further improve your text conversion results.



VECTOR CLEANUP

These efficient vector cleanup tools enhance your converted raster drawings with commands that automatically trim or extend selected intersections or make all circles alike or concentric.

FLOATING NETWORK LICENSE OPTION

Supports multi-user implementation within the enterprise environment.

KEY FEATURES

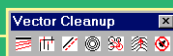
- AutoCAD 2000 DWG compatible
- AutoCAD 2000 OEM engine built in
- Industry standard 2D drafting
- Multiple Drawing Environment
- Enhanced raster manipulation performance

FILE MANAGEMENT

- Open a DWG drawing file
- Import a DXF drawing file
- Open a raster drawing file
- Save a raster drawing file
- Save hybrid raster/vector
- Save as DXF or DWG file
- Cut raster image to file or buffer
- Insert a block or vector symbol to current drawing
- Insert a raster image or symbol to current drawing
- Quick save of vector objects into current drawing
- Convert vector objects to raster data for saving
- Pan and Zoom the drawing window
- Create a new raster image

HYBRID EDITING

- Drawing registration
- CAD Overlay® translator
- Full hybrid snap



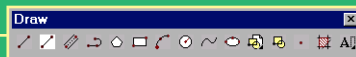


IMAGE CLEANUP

- Interactive despeckle
- Image cropping
- Turn image
- Correct distortion on warped images
- Move, copy, scale, mirror and rotate images
- Draw lines or erase raster
- Invert image
- Smoothing
- Auto-deskew

RASTER EDITING

- 19 raster picking (IOP) modes
- Seven raster snap modes
- Pick touching text
- Edge rasterization
- Raster symbols
- Cut-Paste between drawings
- Uses existing AutoCAD symbols
- Preserve intersections on edits
- Move, copy, scale, rotate and mirror parts of an image
- Change or stretch raster objects
- Convert raster entities into vector entities
- Convert vector entities into raster data

GEOMETRY RECOGNITION

- Selective or full conversion
- Dashed arc recognition
- True arc/circle recognition
- Boundary/Edge tracing
- Intersection cleanup
- Ortho and angle snap
- Contour/Polyline recognition
- "Z" value (elevation) option
- Polyline smoothing
- Edge recognition and snap
- Dashed line alignment
- Cross-hatch recognition and separation

TEXT RECOGNITION

- Character recognition
- Word recognition
- Size independent
- Font independent
- Orientation independent
- Combinations of training files
- Neural network engine
- Trainable character sets
- Trainable font recognition
- Training file editing
- Look-up dictionary
- Pattern matching

CAD DRAFTING

- Draw straight raster line segments
- Draw lines, arcs and circles
- Draw polylines, multilines and ellipses
- Draw quadratic or cubic splines (NURBS)
- Draw an equilateral closed polyline
- Draw a solid-filled polygon
- Fill in area with an associative hatch pattern
- Create single lines of text
- Create paragraphs of text
- Create geometric tolerances
- Create linear, radial and angular dimensions
- Create datum, ordinate and baseline dimensions
- Align dimension text
- Analyze selected objects
- Measure the distance and angle between two points
- Freehand polyline sketching

VECTOR EDITING

- Object "grip editing" (move, stretch, scale, rotate)
- Create a copy of any object(s)
- Erase any object(s)
- Copy or move objects
- Create mirror images, rectangular or polar vector arrays
- Move, enlarge or reduce objects about a base point
- Bevel, round or fillet edges of objects
- Break vector commands
- Special editing features (polylines, spline objects, multi-text)
- 15 vector object snap modes including AutoSnap™
- 11 vector object selection modes
- Vector object selection filters
- Create and modify ANSI, ISO and custom dimension styles
- Edit attribute definitions, text and multi-line text objects
- Change the size of drawing area and boundaries
- Control coordinate and angle display formats
- Create named text styles
- Toggle snap, grid or ortho on or off
- Set the automatic save interval
- Query drawing statistics, modes and extents
- Set object and raster colors

- Customize the user interface settings
- Check text spelling with user dictionary

ADDITIONAL PRODUCT FEATURES

- Automatic snap to raster or vector entities using AutoSnap™
- Direct scanner support
- Classic and
- Network installation feature
- Support for raster in paper space
- Multiple raster/vector undos
- GTX OSR batch conversion
- Vector cleanup commands
- Integrated "Save" commands
- Automatic color/grey reduction to bitonal
- GTXRastrans converts between supported raster formats

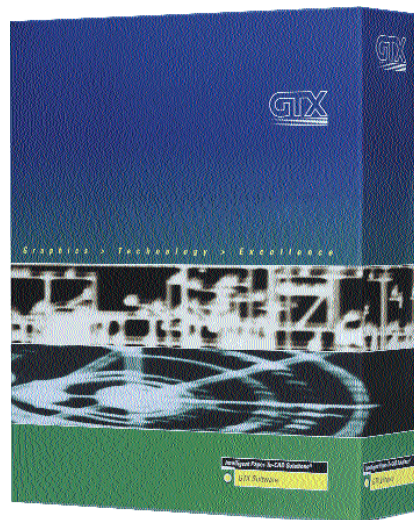
SYSTEM REQUIREMENTS

OPERATING ENVIRONMENT:

Windows® 95, 98, 2000 and NT 4.0

RECOMMENDED HARDWARE:

P300 MHz or better processor
128MB RAM, 256MB swap space
150MB free hard disc space,



Your GTX Reseller

Product Available from:
PRG, Inc. 1-800-774-7891

Intelligent Paper to CAD Solutions®

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AUTODESK
TECHNOLOGY