



Where Paper and CAD Connect™

www.gtx.com

GTXImage CAD™ Series, Version 8.8



**NEW!!
Version 8.8
FOR
YOUR
COLOR
AND YOUR
BLACK &
WHITE
SCAN
FILES!**

Professionals want to use the best in the Technical Imaging industry - and the best is now provided by the new GTXImage CAD™ Series, Version 8.8. Increase design productivity and provide a rapid return on your investment with this significant update to the GTXImage CAD™ Series of products.

Incorporating many new features, including new, powerful, color reduction and separation tools, automatic image enhancement and clean-up tools, the new GTXImage CAD™ Series, Version 8.8 is a WINDOWS® based solution for bringing raster files into a modern CAD, EDM or GIS environment.

If you use scanned paper drawings, either black and white or color, in your current workflow, then the GTXImage CAD™ Series, Version 8.8 is a unique, cost-effective solution for bringing legacy drawings into your on-line 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 stand-alone product series.



**The GTXImage CAD™ Series,
Version 8.8 consists of 2 modules:**

GTXImage CAD V8.8

&

GTXImage CAD PLUS V8.8

**USER BENEFITS &
PRODUCT HIGHLIGHTS**

**MORE EFFECTIVE USE OF
EXISTING DRAWINGS & DESIGN
ASSETS**

Restore, clean-up and update your scanned images efficiently, using powerful raster manipulation and editing commands. Then, if required, quickly and automatically convert selected geometry and text 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.

EASY TO LEARN, EASY TO USE

The GTXImage CAD Series V8.8 Products contain the AutoCAD® OEM Engine. All menus and toolbars are consistent with AutoCAD. This easy to learn interface allows novice and existing AutoCAD users to be immediately productive. The GTXImage CAD Series V8.8 products are intuitive and easy-to-use, providing a professional hybrid solution for both new and expert CAD, EDM and GIS users.

IMAGE CLEANUP

Quickly clean the scanned raster image with commands such as deskew, despeckle and crop. Or, erase any part of the image, with raster erase and raster outline. Then draw CAD vectors over the top of the image.

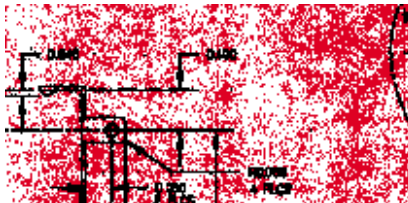
Operating either in fully automatic or manual modes, it is now possible to rapidly deskew & intelligently de-speckle your scanned drawings. These functions are

capable of zoning a scanned file intelligently and applying different noise removal algorithms depending on the presence of text and other graphical elements.

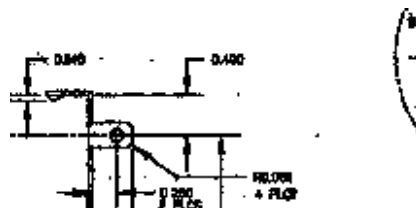
- Before



- During



- After



**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. Users can even modify existing DWG/DXF drawing files, including those created in the AutoCAD 2004 format.

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) even if touching other data. Use the All Text IOP to select all raster text entities. IOP preserves underlying geometry during erase and raster to vector conversion.

EFFICIENT RASTER EDITING

Raster editing features include both efficient cleanup and image restoration capability with powerful raster manipulation commands, allowing you to edit and save the raster data. Raster data can also be traced using AutoCAD design tools and stored or plotted as hybrid files. Or, convert vector entities into raster objects for archival purposes.

**AUTOMATIC RASTER-TO-VECTOR
CONVERSION**

(GTXImage CAD PLUS V8.8 Only)

Quickly convert any or all selected raster into rectified and accurate AutoCAD entities. Convert selected raster objects into intelligent AutoCAD entities such as lines, arcs, circles, polylines and true AutoCAD text. Its ability to recognize line styles, splines, cross-hatching, arrowheads, and also the ability to set a gap jump variable, further increase conversion accuracy.

GTX® ICR™ TEXT RECOGNITION

(GTXImage CAD PLUS V8.8 Only)

GTX ICR 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. 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.





GTXImage CAD Version 8.8

is a Windows based solution for bringing legacy paper drawings into a modern CAD, EDM or GIS environment. Comprehensive hybrid raster and vector capabilities are fully supported by industry standard two-dimensional CAD functionality.

The New Version 8.8 GTXImage CAD product contains many enhancements that help the user to handle both black and white and color scanned raster archives with the speed and flexibility of the latest and best vector and raster editing techniques.

KEY FEATURES

See back page for full listings within category.

- Drawing Management
- **Color Tools**
- Image Cleanup
- Automatic Image Cleanup
- Raster Editing
- Hybrid Editing
- CAD Drafting
- Additional Product Features - see back page.

GTXImage CAD™ PLUS V8.8

The ultimate tool to help you maximize the use of your legacy paper drawings in CAD, EDM & GIS environments.

GTXImage CAD™ PLUS has all the raster editing and manipulation capabilities of GTXImage CAD™, with the added functionality of automatic raster to vector conversion and text recognition.

KEY FEATURES

See back page for full listings within category

- Drawing Management
- **Color Tools**
- Image Cleanup
- Automatic Image Cleanup
- Raster Editing
- Hybrid Editing
- CAD Drafting
- Geometry Recognition
- Text Recognition
- GTX OSR Batch Conversion
- Vector Cleanup
- Additional Product Features - see back page.

New for the GTXImage CAD™ Series, Version 8.8 -

Easy to use Color Reduction functionality to enable full color scan files to be reduced from up to 16 million colors down to between 256 & 4 colors, or even bitonal (black and white) images.

Before Color Reduction:-



After Color Reduction:-



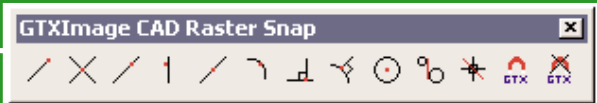
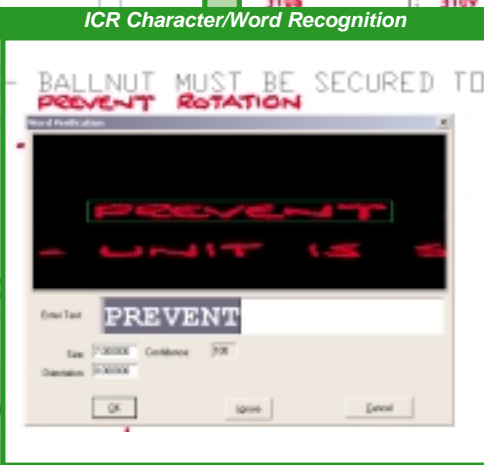
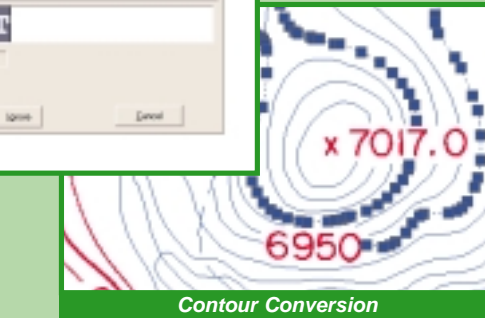
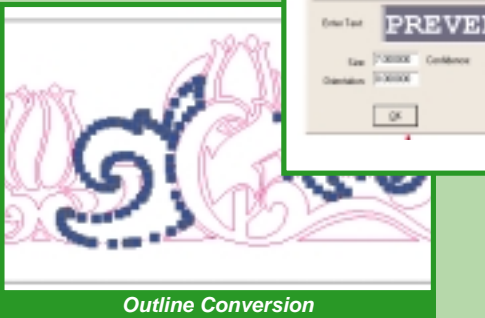
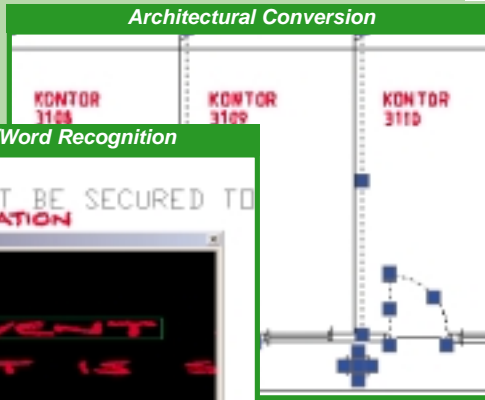
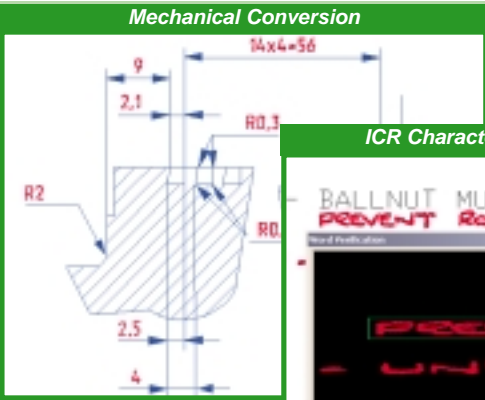
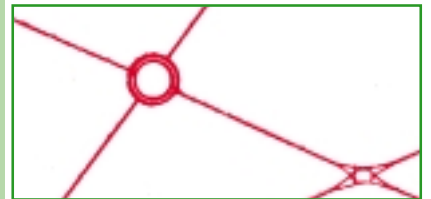
A powerful Color Separation facility to enable selected colors to be grouped together and separated into new layers and assigned an appropriate color of the user's choosing.

Using the latest available color processing algorithms, both GTXImage CAD™V8.8 & GTXImage CAD PLUS Version 8.8 include the new gReduce, gSeparate & gBitonal commands.

Before Color Separation:-



After Color Separation:-



KEY FEATURES

- The GTXImage CAD Series, V8.8 Products are based on the AutoCAD 2004 OEM engine

DRAWING MANAGEMENT

- Multiple Drawing Environment
- Cut raster image to file or buffer
- Insert a raster image or symbol into the current drawing
- Quick save of vector objects into the current drawing
- Convert vector objects to raster data for saving
- Create a new raster image

COLOR TOOLS

- Color Separation
- Color Reduction
- Bitonal/Grey Scale Conversion

IMAGE CLEANUP

- Interactive despeckle
- Image cropping
- Manual Despeckle and Noise Removal
- Turn image
- Correct distortion on warped images
- Move, copy, scale, mirror and rotate images
- Draw lines or erase raster
- Smoothing

AUTOMATIC IMAGE CLEANUP

- AutoDeskew
- AutoClean
- Auto Deskew and Noise Removal

RASTER EDITING

- 20 raster selection methods (IOP), Including AllText IOP and 7 raster snap modes ensure precise editing
- Preserve intersections on edits
- Pick touching text
- Edge rasterization
- Raster symbols
- Cut-Paste between drawings
- Move, copy, scale, rotate, array and mirror selected raster data
- Change or stretch raster objects
- Convert raster entities into vector entities
- Convert vector entities into raster data
- Raster drafting commands lines, arcs, circles
- True Type Font rasterization

HYBRID EDITING

- Drawing registration
- Migrate Raster Design 3/CAD Overlay® legacy data

- Full hybrid snap
- Import viewer redlines

CAD DRAFTING

- Draw lines, arcs, circles
- Draw polylines, multilines & ellipses
- Draw quadratic, cubic splines NURBS
- Draw an equilateral closed polyline
- Draw a solid-filled polygon
- Fill an area with an associative hatch pattern
- Create single lines of text
- Create paragraphs of text
- Create geometric tolerances
- Create datum, ordinate & baseline dimensions
- Create linear, radial & angular dimensions
- Align dimension text
- Analyse selected objects
- Freehand polyline sketching

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

ARROWHEAD RECOGNITION

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
- Open Format / Plain Text dictionary
- Pattern matching

GTX OSR BATCH CONVERSION

- Automatic vectorization of raster files
- Full range of raster formats supported on input
- DXF, IGES, CGM & MTF output
- User specified filters for speckles, line widths, character sizes
- Line, arc, circle & arrowhead recognition
- Contour/Polyline recognition

- Rectification option
- Smoothness option

VECTOR CLEANUP

- Post vectorizing clean up tools
- Line deskewing
- Line relimiting
- Line joining
- Circle concentric function
- Circle alike function
- Layer control

ADDITIONAL PRODUCT FEATURES

- Automatic snap to raster or vector entities using AutoSnap™
- Seamless hybrid plotting
- Floating Network License Option
- Support for raster in paper space
- Multiple raster/vector undos
- Integrated "Save" commands
- Automatic color/grey reduction to bitonal
- GTXRastrans converts between supported raster formats.
- AutoLISP® support for all GTX commands

RECOMMENDED HARDWARE:

Pentium II or equivalent processor
256MB RAM, 30MB free hard disc space
and 512MB swap space



Your GTX Reseller

Intelligent Paper to CAD Solutions®

GTX Corporation - A 15333 North Pima Road, Suite 116, Scottsdale, Arizona 85260 P (480) 889 8600 F (480) 889 8610 E info@gtx.com W www.gtx.com
GTX Europe Ltd. - A The Estate Office, Chineham Park, Crockford Lane, Basingstoke, Hampshire RG24 8QZ, United Kingdom P +44 (0)1256.708706 F +44 (0)1256.708304 E info@gtx.co.uk

GTX®, GTXRaster CAD®, GTXRaster CAD® PLUS and Intelligent Paper to CAD Solutions® are registered trademarks of GTX. GTXImage CAD™ Series, GTXImage CAD™, GTXImage CAD™ PLUS, Intelligent Object Picking™ are trademarks of GTX. Windows® is a registered trademark of Microsoft Corp. AutoCAD®, Autodesk®, AutoLISP® are registered trademarks of Autodesk, Inc. AutoSNAP™ is a trademark of Autodesk, Inc. All other brand names, product names or trademarks belong to their respective holders. Copyright 2006 GTX Corporation. All rights reserved.

