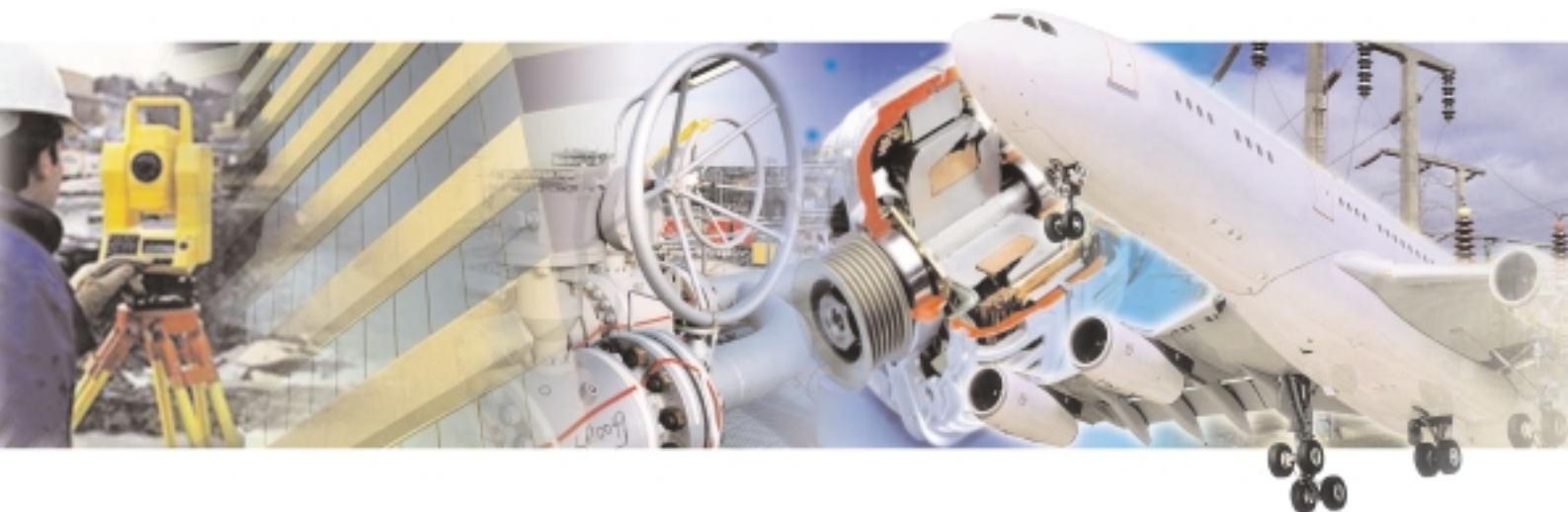


GTXRaster CAD® Series, Version 12.0 for AutoCAD® 2009



For real world applications, use the software that has been providing real world solutions in the Technical Imaging industry for over two decades - GTXRaster CAD® Series, Version 12.0. When it comes to raster cleanup, raster editing, or raster-to-vector conversion, increase your design productivity and provide a rapid return on your investment. Incorporating powerful, color reduction and separation tools the GTXRaster CAD® Series, Version 12.0 products are fully compatible and optimized to run in the AutoCAD® 2009 environment.

If you use scanned paper drawings, either black and white or color, and AutoCAD 2009* in your current engineering workflow, then the GTXRaster CAD® Series, Version 12.0 is a unique, cost-effective solution for bringing legacy drawings into your design environment. All commands, menus, and toolbars are consistent with the new AutoCAD 2009, providing a productive and very easy-to-learn user interface, including the NEW customized GTX ribbon.

Modify and enhance scanned raster archives with the speed and flexibility of both raster and vector editing techniques. Whether your requirement is for color reduction and separation, 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.

Version 12.0 now includes the option of software licensing based on the new Macrovision® FLEXENABLED™ technology.

* Other versions are available for previous AutoCAD releases.



The GTXRaster CAD® Series, Version 12.0 consists of 4 modules:

- **GTXRaster Tools™** is very cost-effective, yet a powerful and easy-to-use solution for cleaning and enhancing scanned raster images. Bring your legacy paper drawings into your AutoCAD® environment and realize an immediate increase in production!
- **GTXRaster CAD®**, the industry-acclaimed "AutoCAD for Raster" is the most productive raster clean up and editing software available for AutoCAD users. Modify and enhance your legacy paper drawings in your AutoCAD environment for use in your current design process.
- **GTXRaster CAD® PLUS** contains all the raster editing and manipulation capabilities of GTXRaster CAD with the added functionality of automatic raster to vector conversion, powerful batch conversion technology and advanced text recognition for the AutoCAD environment.
- **GTXRaster R2V™** enhances your existing Raster Design or other raster editor with the powerful GTX conversion functionality in a product that was developed to complement your existing application! Expand your existing AutoCAD environment with efficient raster cleanup tools, text and geometry conversion from raster to AutoCAD objects.

JUST LIKE AutoCAD

Because the GTXRaster CAD Series is integrated with AutoCAD's Image Support Module (ISM), all commands, menus and toolbars are consistent with AutoCAD 2009, providing a productive and very easy-to-learn user interface. **The Version 12.0 GTXRaster CAD Series products include new, intuitive (making them easy to remember) menu and toolbar icons.**

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 AutoCAD vectors over the top of the image.

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 AllText 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

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

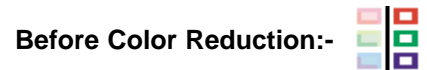
GTX ICR provides true Intelligent Character Recognition (ICR), based on hybrid neural-net technology. Train the software to automatically recognize text characters associated with individual or company drafting styles.

COLOR TOOLS

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.

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, ALL the products in the GTXRaster CAD® Series, Version 12.0 include the gReduce, gSeparate & gBitonal commands.



After Color Reduction:-



After Color Separation:-





GTXRaster CAD®

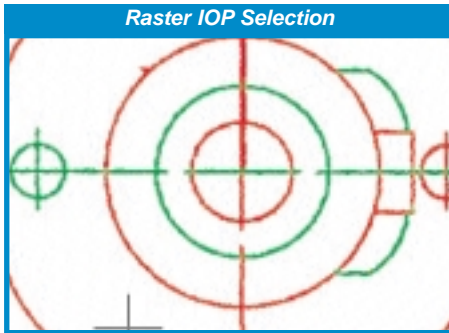
Improve your current design process. Modify and enhance legacy paper drawings in your AutoCAD® environment.

GTXRaster CAD® is the industry-acclaimed "AutoCAD for Raster" and is the most productive raster cleanup and editing software available for AutoCAD users.

KEY FEATURES

See back page for full listings within category.

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



GTXRaster Tools™

Increase productivity in your engineering and design process by working with legacy paper drawings in your AutoCAD® environment.

A very cost-effective, yet powerful and easy-to-use solution providing entry-level raster cleanup and enhancement of scanned engineering drawings.

KEY FEATURES

- Drawing Management
- Color Tools
- Image Cleanup
- Additional Product Features - see back page

GTXRaster CAD® PLUS

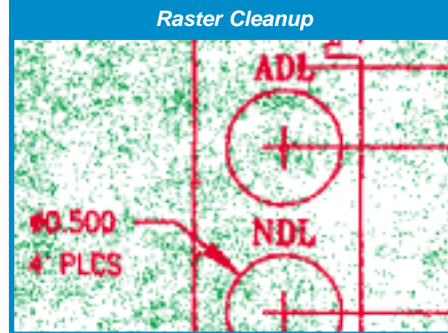
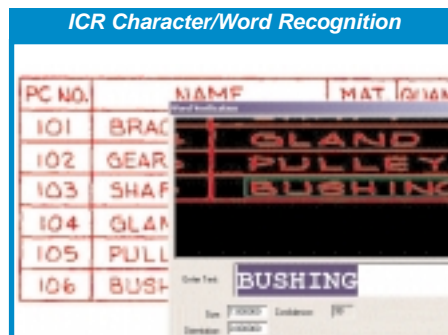
The ultimate tool to help you maximize the use of your legacy paper drawings in your AutoCAD environment.

GTXRaster CAD® PLUS has all the raster editing and manipulation capabilities of GTXRaster CAD®, with the added functionality of automatic raster to vector conversion for your AutoCAD® environment.

KEY FEATURES

See back page for full listings within category.

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



GTXRaster R2V™

Enhance your AutoCAD imaging environment with the efficient raster cleanup tools, advanced text recognition and geometry conversion from raster to AutoCAD objects.

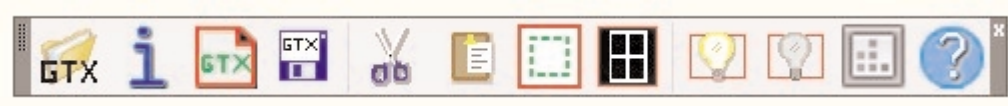
If you already have a raster editor, GTXRaster R2V™ provides a complementary add-on solution with features that complement raster editors such as Autodesk Raster Design 3/CAD Overlay®.

KEY FEATURES

- Drawing Management
- Color Tools
- Image Cleanup
- Automatic Image Cleanup
- Geometry Recognition
- Text Recognition
- Vector Cleanup
- GTX OSR Batch conversion
- Additional Product Features - see back page.

This comparison chart shows an extract of the different functions in each module.

	GTXRaster Tools	GTXRaster CAD	GTXRaster CAD PLUS	GTXRaster R2V
Color Management	●	●	●	●
Color Separation	●	●	●	●
Color Reduction	●	●	●	●
Raster Management	●	●	●	●
Raster Cleanup	●	●	●	●
Raster Warping	●	●	●	●
Raster Editing	●	●	●	●
IOP (Intelligent Object Picking)	●	●	●	●
Multiple Raster Undos	●	●	●	●
Raster Smoothing	●	●	●	●
Raster Snap	●	●	●	●
Hybrid Snap	●	●	●	●
Raster-To-Vector Conversion	●	●	●	●
Vector-To-Raster Conversion	●	●	●	●
Vector Cleanup	●	●	●	●
GTX ICR Text Recognition	●	●	●	●
GTXOSR® Batch Conversion	●	●	●	●
MDE Enabled	●	●	●	●
True Type Rasterization	●	●	●	●
GTXRastrans Raster Translator	●	●	●	●
AutoLisp® Support	●	●	●	●



KEY FEATURES

- Fully Compatible and Optimized to run in the AutoCAD 2009 environment.

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

- New Raster Draw Commands
 - Draw Raster Rectangle
 - Draw Raster Line
- New Raster Slice Command
- New IOP Outside Raster selection
- 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

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
- Software licensing option based on the new Macrovision® FLEXENABLED™ technology.

SYSTEM REQUIREMENTS

OPERATING ENVIRONMENT:

Windows® 2000, XP & Vista 32 Bit

RECOMMENDED HARDWARE:

Pentium III or equivalent processor
512MB RAM, 80MB 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 Unit 8 Cedarwood, Chineham Park, Crockford Lane, Basingstoke, Hampshire RG24 8WD, United Kingdom P +44 (0)1256.814444 F +44 (0)1256.364887 E info@gtx.co.uk

GTX®, GTXRaster CAD®, GTXRaster CAD® PLUS and Intelligent Paper to CAD Solutions® are registered trademarks of GTX. GTXRaster Tools™, GTXRaster R2V™, GTXICR™ & Intelligent Object Picking™ are trademarks of GTX. GTXScanClean™ is protected by US Patent No 7,016,536. Windows® is a registered trademark of Microsoft Corp. AutoCAD®, Autodesk®, AutoLISP® are registered trademarks of Autodesk, Inc. AutoSNAP™ is a trademark of Autodesk, Inc. Macrovision® is a registered trademark of Macrovision Corp. FLEXENABLED™ is a trademark of Macrovision Corp. All other brand names, product names or trademarks belong to their respective holders. Copyright 2008 GTX Corporation. All rights reserved.

AutoCAD
2009
Compatible

Autodesk