GTXRaster CAD® 2021 Series

for AutoCAD® 2021

GTXRaster CAD® Plus

- *Drawing Management*
- *PDF Support*
- *Color Tools*
- *Image Cleanup*
- *Automatic Image Cleanup*
- *Raster Editing*
- *Hybrid Editing*
- *Raster to Vector Conversion*
- *Geometry Recognition*
- *Text Recognition*
- *Vector Cleanup*

GTXRaster CAD ®

- *Drawing Management*
- *PDF Support*
- *Color Tools*
- *Image Cleanup*
- *Automatic Image Cleanup*
- *Raster Editing*
- *Hybrid Editing*

If you use scanned paper drawings, either black and white or color, and AutoCAD 2021* in your current engineering workflow, then the GTXRaster CAD ® 2021 Series 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 2021, providing a productive and very easy-to-learn user interface, including the NEW customized GTX ribbon.

"Just like AutoCAD"
GTXRaster CAD Series is integrated with AutoCAD's Image Support Module (ISM), all commands, menus and toolbars are consistent with AutoCAD 2021, providing a productive and very easy-to-learn user interface includes new, intuitive (making them easy to remember) menu and toolbar icons.

* Other versions are available for previous AutoCAD releases.

- **Windows® 10 and Windows® 8/8.1 64 bit Compatible Only.**

- **Fully AutoCAD 2021 Compatible (Not LT).**

- **PDF Support for your scanned images, with this new feature you can open your PDF image, and edit it within AutoCAD, and save it as a Tiff or back to a PDF.**

- **Automatic Raster to Vector conversion for all your scanned images, including Geometry recognition and text recognition.**

- **Automatic and semi-automatic image cleanup, despeckle and deskew your image using the intuitive GTX Noise removal commands.**

- **Improved licensing, now includes Package and Borrow license options.**

- **Full Raster Editing, edit your scanned images using the powerful GTX raster manipulation commands.**

GTX
Intelligent Paper-To-CAD Solutions®

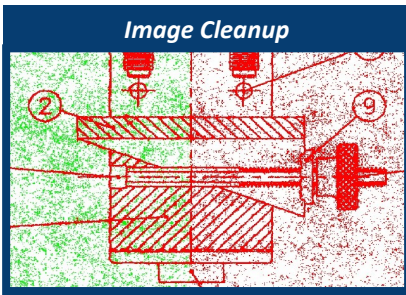Windows 10 Compatible   Windows 8 Compatible

Image Cleanup

IMAGE CLEANUP

Quickly clean the scanned raster image using automatic image cleanup tools, or manually deskew, despeckle, and crop. You can also erase any part of the image, with raster erase and raster outline. Then draw AutoCAD vectors over the top of the image. *Picture to the left shows the selection of raster to be removed highlighted in green.*

Raster IOP Selection

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.

Before Raster Editing—After Raster
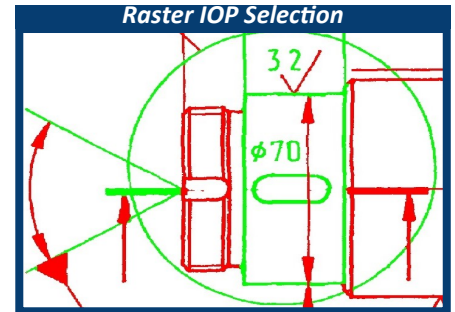
EFFICIENT RASTER EDITING

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.
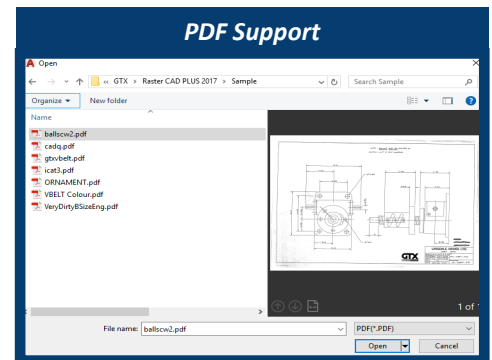
PDF Support

You can now load a black and white or color scanned PDF into GTXRaster CAD Series 2021 buy using the NEW gPDFATTACH command. This gives you the ability to convert your PDF scans into Tiff and you can also save from Tiff to PDF. By using the NEW gPDFSAVE command.
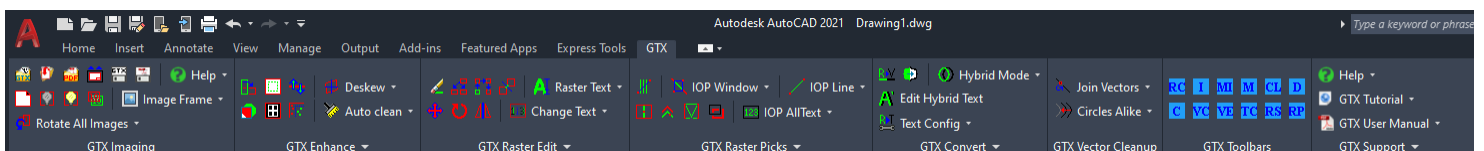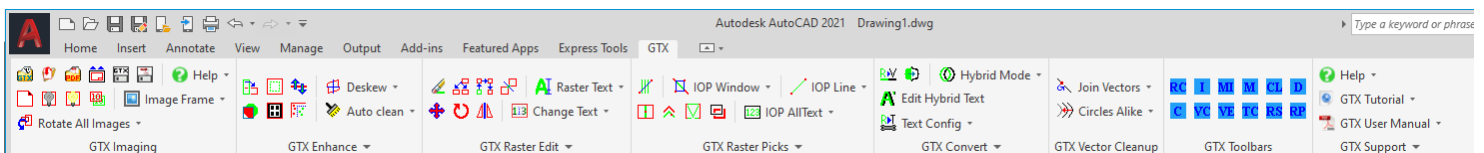

*PDF Support*

gPDFATTACH Command Icon.

gPDFSAVE Command Icon.

GTX has improved the user interface for AutoCAD 2021. New and Updated GTX icons and Ribbons now support the New "Light" and "Dark" color schemes.

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.

Raster To Vector Conversion

*ICR Character/Word Recognition*
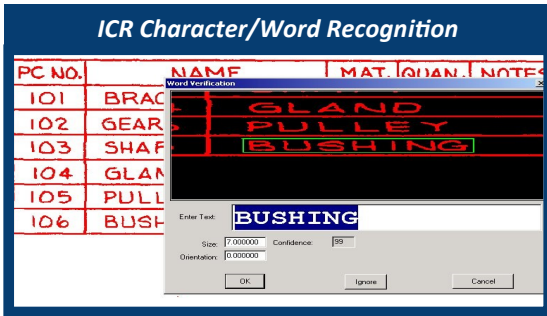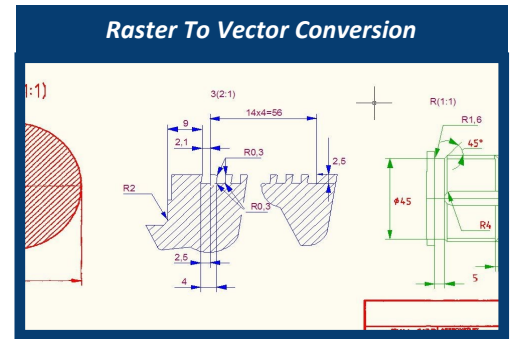
GTX®ICR™ TEXT RECOGNITION

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 2021 include the gReduce, gSeparate & gBitonal commands.

Before Color Reduction—After Color Reduction

Before Color Separation—After Color Separation
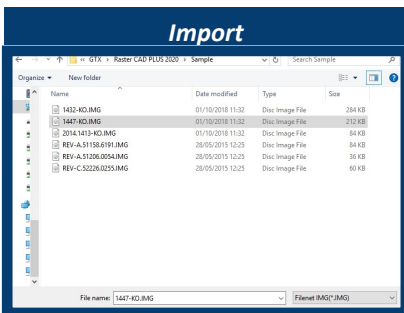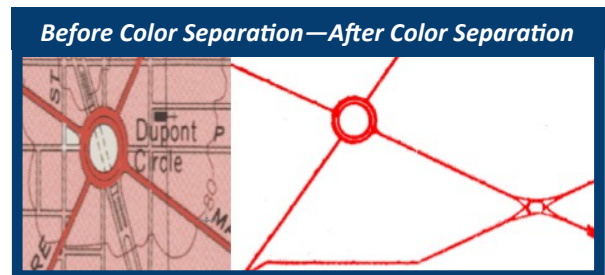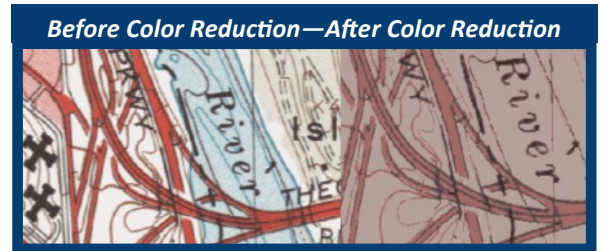
Import

IMPORT

The New gIMPORT command will allow users to import .IMG, .CAL, .CG4, and other supported file formats.

 gIMPORT Command Icon.

FILE ASSOCIATION

GTXRaster CAD will associate your .CG4, .CALS, .TIFF and .dwg files so all you need to do is double click on the image file or select "Open With" and your will get the option to select GTXRaster CAD 2021.

 GTXRcad2021Viewer - View raster files with GTXRaster CAD Series V24.0
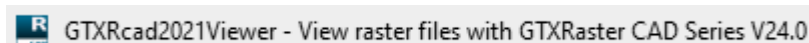
KEY FEATURES

- Fully Compatible and Optimized to run in the AutoCAD 2021 environment

DRAWING MANAGEMENT
- Enhanced PDF image support, Import PDF files, Save PDF to Tiff and Tiff to PDF
- 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

IMAGE CLEANUP
- Interactive despeckle
- Image cropping
- Manual Despeckle and Noise Removal
- 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
- Enhanced Multiple Copy command for raster objects
- Enhanced Raster Text Commands: Type and Edit Raster Text Enhanced Hybrid Text Editor
- Enhanced IOP Commands, IOP Rotated Window, Rotated Inside Window & Rotated Crossing Window
- Raster Editing Commands
- Change Raster Line, Arc & Circle
- Raster Slice Command
- 22 raster selection methods (IOP), Including 7 raster snap modes ensure precise editing
- Preserve intersections on edits
- Pick touching text
- Edge rasterization
- Raster symbols
- Turn, Move, Copy, Scale, Rotate, Array and Mirror selected raster data
- Cut-Paste between drawings
- Change or stretch raster objects
- Convert raster entities into vector entities
- Convert vector entities into raster data
- Raster drafting commands text, lines, arcs, circles, rectangles
- True Type Font rasterization

HYBRID EDITING
- Enhanced Hybrid Drawing Mode: Allows simultaneous creation of both vector and raster entities, including text.
- Drawing registration
- Migrate Raster Design /CAD Overlay® legacy data
- Full hybrid snap
- Import viewer redlines

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

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
- Line, arc, circle & 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

VECTOR CLEANUP
- Post vectorizing cleanup tools
- Line deskewing
- Line relimiting
- Line joining
- Circle concentric function
- Circle alike function
- Layer control

ADDITIONAL PRODUCT FEATURES
- New Borrow License option for Network FlexLM licensing
- 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 Flexera™ FLEX Net® technology

Note:
The HASP Hardware Lock license option is no longer available for this new version of GTXRaster CAD 2021 Series , if you are using a 64 bit PC / OS then you will need to use the Flexera™ FLEX Net® Software License option, for more details please contact your Local GTX Reseller.

This comparison chart shows an extract of the different functions in each module.	GTXRaster CAD	GTXRaster CAD PLUS
Color Management	●	●
Color Separation	●	●
Color Reduction	●	●
Raster Management	●	●
Raster Cleanup	●	●
Raster Warping	●	●
Raster Editing	●	●
PDF Support	●	●
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		●
MDE Enabled	●	●
True Type Rasterization	●	●
GTXRastrans Raster Translator	●	●
AutoLisp® Support	●	●

MINIMUM SYSTEM REQUIREMENTS

AutoCAD Requirements:

Full AutoCAD ® 2021 (64 Bit Only)
Not AutoCAD LT

Operating System

Microsoft® Windows 10™ (64 Bit)
Microsoft® Windows 8/8.1™ (64 Bit)

RECOMMENDED HARDWARE:

CPU:

Intel® Pentium® 4 processor, 2.2 GHz , with SSE2 technology Recommended

Drive space:

350 MB free hard disk space for installation

Virtual memory:

1 GB swap file, or greater

Memory:

2 GB RAM (Minimum)

Display:

1024 X 768 VGA with True Color