



## VizEx Transform™

Transform common file formats to quality CGM files

**VizEx Transform** is a truly unique application enabling the transformation of multiple graphical data formats into CGM in one simple to use interface. The application also has the ability to add hotspot information to the CGM graphics during the transformation process. This is all done using a batch process saving time and money.

### Transform Image files

Common image formats such as JPEG, PNG, TIFF and BMP are transformed into the CGM format. CGM is commonly thought of as a vector format, but CGM V3 onwards includes the support for raster files.

- Supports Raster to Raster CGM conversion
- Options for file compressions, image quality, grayscale, size (pixels, inches, metric)
- Advanced features include color swapping, convert to monochrome.

### Transform DWG and DXF files

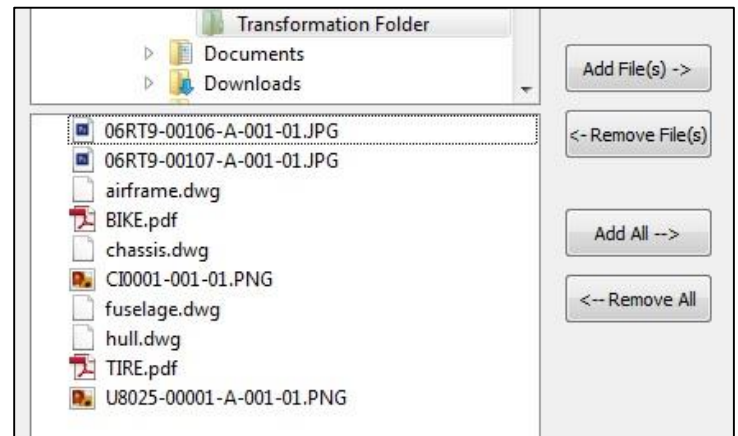
Transform CAD files from the engineering department and successfully reuse of existing data without the loss of graphics quality.

- Supports "Model" and "Paper" space options.
- Pen weight values are supported and mapped to the CGM file.
- Options for arcs, ellipses, polylines, and scaling control.
- Control individual layers by turning off selected layers. For example turn off title block, extract desired text for specific languages.
- Convert colors to monochrome

### Transform PDF files

This graphics transformation eliminates the requirement to re-author or redraw existing illustrations in the PDF format. The same technology can also be used to convert from popular graphics software that do not output CGM but do output in PDF or EPS, for example Adobe Illustrator.

- Convert a multiple page PDF document into separate CGM files.
- Choose individual pages of a PDF document to be converted.
- Scale line widths



(continued on back)

## Automatically create intelligent CGM graphics

Larson's VizEx Transform automates the creation of hotspot information in CGM files during the conversion process.

- Identify text based on characteristics including minimum and maximum digits, minimum and maximum height. For more powerful text filtering specify characteristics with regular expression (regex).
- Option to output hotspot information to a file in CSV format

so you can add user application, which refer to databases, or add screen tip text and URL links.

- Raster option allows you to take TIFF, JPEG, PNG, and CALS raster files and automatically recognize callouts and then convert them to CGM Version 4 with hotspots. *"Smart raster text recognition"* algorithm that separates text from graphics so the text strings can be OCR identified for hotspotting.

The screenshot displays the configuration window for the HotSpot feature. On the left, a sidebar lists options: HotSpot (selected), PDF/EPS/AI, DWG/DXF, and Output (CGM/CSV). The main area is divided into several sections:

- General:** Includes fields for 'Sub-string separator(s)', 'String terminator', and 'Margin (mm)'. There are checkboxes for 'Whitespace' and 'Exclude Tables'. A text box is provided for 'Use CSV for hotspot locations for file types:'.
- Qualifiers:** Contains checkboxes for 'All characters are numeric, maximum 0 digits', 'All characters are alpha, maximum 0 characters', and a 'Regex:' field. There are also checkboxes for 'Validate alpha items contained in circle' and 'Validate alpha items contained in rectangle'.
- Raster specific:** Includes a 'Character limits' section with 'Maximum width' and 'height' (set to 0.00) and a unit dropdown (set to 'pixels'). It also has 'Minimum width' and 'height' (set to 0.00).
- OCR:** Features a 'Character chopping' checkbox and a 'Confidence factor (0-100):' set to 75.
- Crop:** Includes 'AutoCrop Top' and 'AutoCrop Bottom' dropdowns (both set to 'Do not auto-crop top/bottom'). It also has 'Crop Top', 'Crop Left', 'Crop Right', and 'Crop Bottom' fields (all set to 0.00) and a unit dropdown (set to 'inches').
- Auto rotate:** A checkbox at the bottom right.

## Specifications:

Platforms: Windows XP, Vista, 7, 8.

Input Formats: CGM V1-V3, BMP, CALS-G4, EMF, GIF, JPEG, PNG, TIFF

Optional Input: DWG, DXF

PDF, AI, EPS

Output: CGM V4, WebCGM, SVG