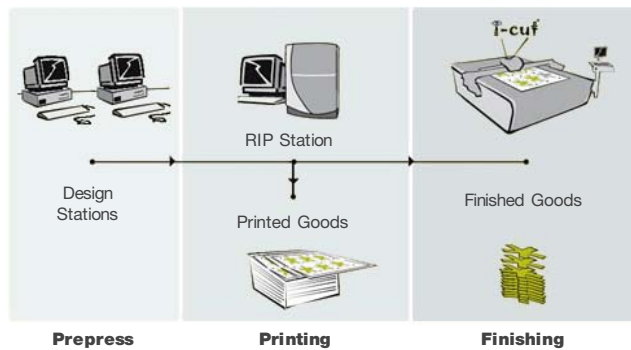


# i-cut® Vision

for graphics finishing with CAM / CNC systems



- 1 **Prepress:** the file is prepared using virtually any design software. Register marks can be manually added in the application, or by using the ai-cut plug-in for Adobe Illustrator, or automatically added if an i-script compatible RIP is used.
- 2 **Printing:** the file is printed using digital or traditional means and mounted to substrates if required. This is where image distortion occurs, either in x, y, or in non-uniform directions. All prints have distortion!
- 3 **Finishing:** the i-cut camera reads register marks and the i-cut software calculates the actual image offset, rotation and distortion. i-cut produces a "best-fit" cutting file for each piece and runs the CAM/CNC device to produce optimal results with minimal waste.

## IT WORKS, SIMPLY

Offering the most powerful calculations, yet the simplest user interface, making your CAM/CNC solution more productive is our mission.

## SOPHISTICATED MATHEMATICS

Using exclusive patented technology, i-cut corrects the die-line for distortion in the printed or mounted graphics, even the most difficult non-linear distortion produced by today's piezo printers.

## RELIABLE CUTTING RESULTS

Operators with limited or no computer skills are able to produce precision-cut graphics after only a few hours of training.

**W**hy has i-cut earned the reputation as the premiere software solution for vision based registration in graphics finishing? It works, simply.

Only i-cut offers the power of proven full non-linear distortion correction, a simple, intuitive user interface, and full prepress and RIP integration so that jobs are quickly prepared and sent to the cutting device without error or miscalculation.

Operators with limited or no computer skills are able to produce precision-cut graphics after only a few hours of training. Owners and managers can rely on razor sharp reliability and efficiency - without spending time worrying about costly mistakes or missed deadlines.

Print runs from just one sheet to hundreds or even thousands are contour-cut in the most reliable, precise and economical manner. Setup times are minimal - or in many cases virtually eliminated - with the latest workflow integration software pioneered by i-cut, such as the revolutionary i-script® RIP-to-cut interface language, and the ai-cut® register mark insertion plug-in developed for Adobe Illustrator.

The result is the perfect solution for the CAM or CNC manufacturer requiring vision control for their products. With i-cut as your vision solution, your customers will produce fast, accurate and efficient graphics finishing.



# Key Features

## INTEGRATION

Our i-cut team provides knowledgeable, fast and accurate custom integration to your CAM/CNC solution. Using standard HPGL or G-Code plus a customizable DLL, fast and accurate implementation i-cut into the CNC equipment is obtained.

## SUPPORT

OEM support is provided through product training and ongoing technical support, i-cut salesmanship training, trade show and demonstration assistance, and much more. Your customers will be confident you've chosen the most open and capable vision-based workflow available.

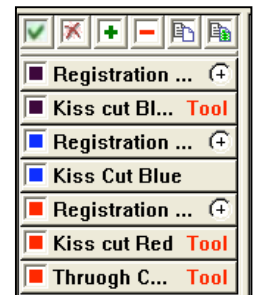
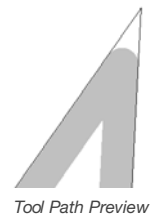
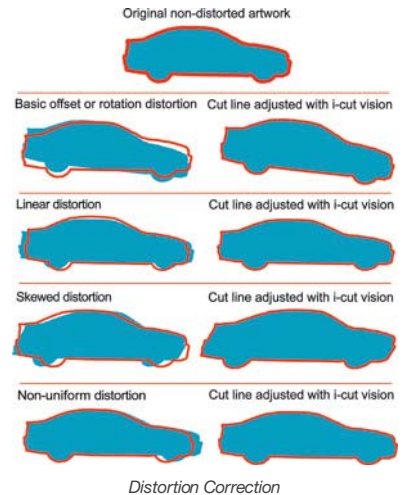
## JOIN THE LEADERS

Our integration list includes some of the best recognized names in the industry. We would be proud to add your name as an i-cut OEM partner:

Anderson Industrial  
 XYZ Automation  
 Cielle s.r.l.  
 Color-Dec Italy Srl.  
 Demak s.r.l.  
 DYSS  
 EskoArtwork Kongsberg  
 Gerber Scientific Products  
 Mécanuméric SA  
 Microsystems World CNC  
 Mimaki Engineering Company MultiCam  
 Shanghai TeckWin Development  
 Trotec Laser  
 Universal Laser Systems  
 VyTek  
 Zund Systemtechnik  
 ... and more in development!

- **User Friendly:** an intuitive user interface, multi language support for eleven languages, unit measurement in English or metric, simple installation Setup Wizard plus a complete help system are available.
- **Register Mark Insertion:** insert marks directly in the design application, or use the ai-cut Adobe Illustrator toolbar. Marks may be automatically inserted using when using an i-script compatible RIP.
- **Edge Recognition:** register cut paths to the edges of the material when register marks are not used.
- **Distortion Correction:** allows users to select one of five different of registration correct methods dictating how i-cut will correct the cut paths based on the information it collects from reading the register marks. Supports "position", "rotation", "linear" and "non-linear" distortion correction, plus combination corrections on a single job. Displays distortion statistics from recently production runs so that operators can monitor the effectiveness of the i-cut vision system upon the live work.
- **Layer Control:** i-cut separates data into layers and recognizes layer names in the import files. Common layer assignments include register marks, kiss cut, through cut, pen plot, crease, score, router cut and laser cut. The user can edit, copy, duplicate and remove layers as required.
- **Curve Control:** curve editing includes functions such as invert direction, remove, mirror, rotate and move curves. Open curves can be automatically connected, and small curves and be rejected in order to optimize cutting productivity. Individual point editing is also possible.
- **Milling & Routing Control:** i-cut excels in milling and routing functions. Milling controls include tool velocity in X&Y plus Z, tool acceleration and Z axis up/down limits. Control is provided for tools offset, tool diameter, multiple-pass finishing depth, finishing pass offset, web thickness, drill holes and milling lead-in, lead-out, offset and radius.
- **Tool Path Preview:** for determining how the router bit will cut inside or outside corners. Allows the operator to preview the actual cutting path in order to determine if the proper tool has been selected for the graphic shape, eliminating wasted time and materials.
- **Automated Materials Handling Support:** interface support is provided for automatic conveyors, feeders and robotic loading and off-loading units are available. Barcode reading using the i-cut camera is supported so that the proper cutting file is selected on automated systems.
- **Long Jobs:** jobs longer than the physical cutting table are possible though an automatic job splicing feature. The operator can preview the job layout using the Long Job preview window.
- **Camera:** a high quality CCD camera, lighting, optics and integrated housing with adjustable f-stop, zoom and focus settings. Fast video capture board reads a register mark in less than 1/8th of a second. Reads accurately regardless of the ambient lighting, print quality or number of register marks to be read.

i-cut supports the **i-script** protocol that interfaces between printing and cutting components to share design, scale, rotation, layout, registration marks and materials information that are passed directly from the prepress RIP station to i-cut. The benefits are automatic register mark insertion, object boundary nesting support, and more. Many i-script compatible rips are available with more in development.



Layers Palette



i-cut Camera System



**i-cut, inc.**

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