

2D DESIGN V2

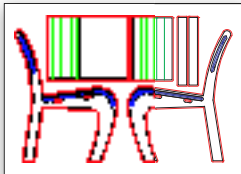
PRODUCT CODE: 2DV2 OR 2DSL (SITE LICENCE)

Graphic Design, Draughting and CAD/CAM for Windows



What is 2D Design?

With over 5000 schools and colleges using 2D DESIGN, it is firmly established as the standard for graphic design, technical draughting and CAD/CAM in schools. It is the one "must have" package that can be the core element of design and manufacture in the vast majority of D & T departments.



Typical work produced using 2D DESIGN V2 software

What's New in Version 2?

Version 2 has had a significant makeover, with many new features added, and many old features enhanced. Whilst much work has been done behind the scenes we have preserved continuity with older versions by being careful to maintain a familiar look and feel. So then, the best of both worlds, lots of new stuff, but no need for teachers and pupils to re-learn everything from scratch.

The main thrust of the Version 2 development has been to enhance and extend the graphics capabilities into new and exciting areas. Some of the more significant features are outlined below.

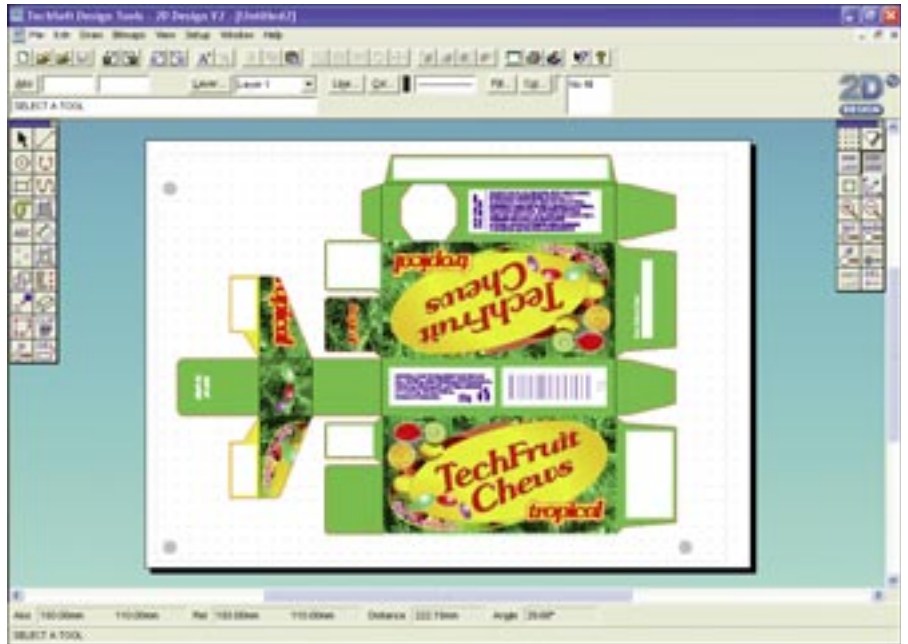
Bitmap Support

Bitmap data such as JPEG and BMP images can be imported directly into 2D Design V2. Graphic products can now be made even more exciting by integrating bitmap images with vector artwork and text.



Bitmap to Vector Conversion

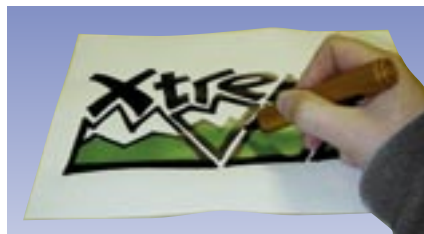
Convert bitmap images (clipart, scans of printed or hand drawn images, etc.) into vector paths (see



below). The vector paths can then be used as clip paths, or as cut paths for knife cutting machines, milling machines, lasers, etc.

Clip Paths

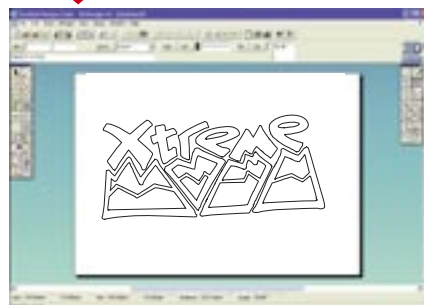
Create clip paths to mask (ie., make invisible) or delete parts of a photograph or drawing.



Scan the drawing and import the file



Vectorise the Bitmap & remove fills



A clip path is a drawing outline that can be combined with another image such as a bitmap, or vector clip art. The image inside or outside of the outline can be masked or deleted. Any closed outline can be used as a clip path. Existing shapes or text can be used or clip paths can be drawn around objects to pick them out of the background.

Examples of Clipping:

Graphic images can be built up by placing one clipped image over another, and then vector artwork or text can be added. Clip paths can also be created from text allowing you to create some interesting fills.



Import the photograph into 2D Design V2

Draw a clip path around the mini and mask the outside



Import the second photo and put the clipped photo and some text on top





An imported photograph in 2D Design V2

SUNSET

A clip path created from text

SUNSET

Text filled with your original photograph

A clip path can also be used to fill a defined outline, such as the panel of a packaging net, with a photograph or graphic image (see main image left).

Graduated, Texture & Pattern Fills

Add an extra dimension to coloured fills, with the comprehensive range of fill tools.



Single Line Fonts

With Windows fonts, all characters are outlines. These fonts are not ideal for many engraving applications where single line (or "stick") fonts are often much quicker to reproduce. V2 has a range of single line fonts ideal for engraving.



Font Designer

Design your own fonts (including single line fonts), for use within the software. OK, you may not want to design a whole font yourself, but you may wish to add special characters or symbols to an existing Windows font. In either case V2 will make the process child's play.



One of the key features of 2D Design has been the high level of integration with many CAD/CAM devices, including all Roland CNC systems (STIKA, CAMM 1, MODELA, RotoCAMM, etc.) and the LaserCAM range of laser cutters. This integration allows easy control of all the devices' key features and allows simple accurate control over exactly where the image is reproduced on the machine (something that can be a nightmare when relying on standard windows drivers).

TechSoft have continued to enhance this device support by covering the new features of the latest CNC devices such as Optical Print Alignment for vinyl/card cutters like the CAMM 1.

EVALUATION SOFTWARE

Above all, 2D DESIGN V2 is powerful, yet simple to learn and use. Although it offers far more features than many alternatives, it does so in a way that is intuitive, not intimidating. The care and attention to detail that have gone into the program can only become apparent in use. If in doubt, we strongly recommend that you download a FREE evaluation copy. You will then be able to judge the software at your leisure. (How many other software companies have such faith in their own software?)

FEATURES (V2)

- | Exhaustive geometrical constructions, including circles, arcs, tangents, normals, etc. Essential for all constructional work.
- | Comprehensive text facilities, even exceeding those on many sign-writing packages. TrueType fonts may be used, either as outlines or filled in colour, even hatched. Editable text blocks may contain different heights and angles, even different fonts.
- | Single line fonts and an in-built font editor/designer.
- | Powerful tools such as fully "tuneable" bezier curve drawing, text flow along paths, etc.
- | Import/Export Bitmap data such as BMP, JPEG, PNG and TIFF.
- | Import/Export WMF, EMF, DXF, HPGL, Acorn Draw and Designer V3 files.
- | Convert appropriate bitmap images to vector paths with a user friendly conversion utility.
- | Clip path tools, essential for creating professional high end graphic images.
- | Comprehensive graduated fills.
- | Comprehensive transformation commands include move/copy, rotate, mirror image, alter size, 3D effects, etc.
- | Automatic or manual dimensioning.
- | Contour routine provides either a powerful graphical tool, or the means to generate a cutter diameter compensated tool path - ideal for RotoCAMM, MODELA users.
- | Powerful editing and delete facilities. Unlimited user named drawing layers.
- | Cut and paste facilities allow links to many other packages, eg., put your drawing into a document on your word processor.
- | Unique customisation feature allows layout and menus to be simplified to suit any age/ability.



Typical work produced using 2D DESIGN V2 software

MINIMUM HARDWARE REQUIREMENTS

Windows 2000 / XP / 2003 / Vista.
Microsoft recommended minimum hardware specification advised.
Network compatible (site license only).

ORDERING

In order to avoid software theft, the software is encrypted with the name of the licensed user, typically the name of a person, or the name of an individual establishment.

When ordering please state:

- a) Name of licensed user/site (max 28 characters, including spaces).
- b) Address for site license if appropriate.