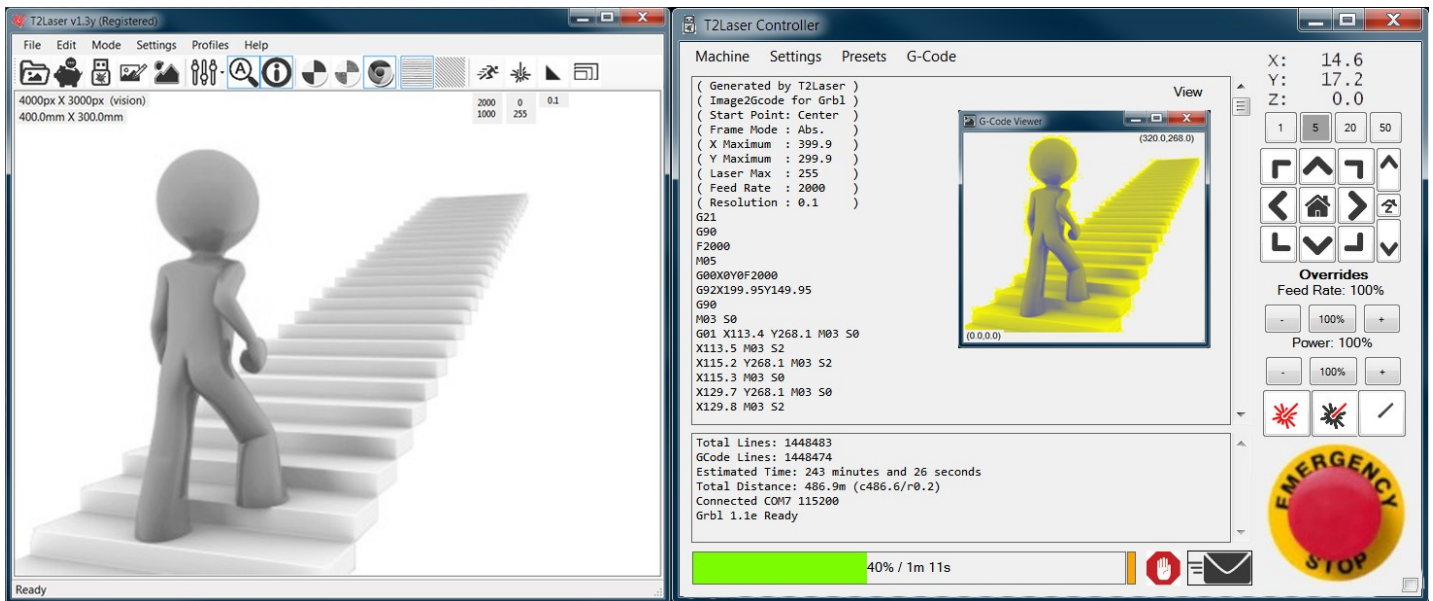


T2Laser



Key Features

- True Greyscale Images
 - » Fully supports PWM/TTL mode
 - » Skip “white” space at rapid feed rate to reduce engraving time
- Velocity Mode
 - » Advanced power control for non-TTL lasers, excellent grey scale results
- Advanced Laser Control
 - » Supports Dynamic Laser Power to prevent over burning due to acceleration
 - » Real-time laser and feed rate overrides (adjust setting on-the-fly)
- Raster-to-Vector Conversion
 - » Supports both manual (selective) and automatic modes
 - » Hatch Fill options (horizontal, vertical, diagonal and cross hatch)
- Combine Raster and Vector
 - » Contour cut-out after engraving or enhance edges, in a single file
- 3-Axis CNC, Laser with Z-axis and Rotary axis
 - » Full 3D image carving (depth based on greyscale or vector color)
- Advanced Cutting
 - » Multi-pass with optional cool down
 - » Automatically adjust for wood grain (adjust power or feed rate by angle)
 - » Translate DXF colors to laser power or feed rate
- DXF Optimizer
 - » Path optimization reduces time and improves efficiency
 - » Resize, rotate and flip vector files
 - » Use DXF colors to determine cutting sequence

Full Features

- Image to G-Code Conversion

- » Supports JPEG, BMP, PNG and GIF import
- » Greyscale (PWM) and 1-Bit (dithered or threshold) conversion
- » Velocity mode uses variable feed rates to produce greyscale
- » Contour cut-out (combine raster engraving and vector cutting in a single job)
- » CNC mode for 3D milling (Z-axis) or Laser Z-axis focusing
- » Advanced raster-to-vector conversion with optional automatic hatch fill
- » Resolution is user configurable
- » Horizontal or diagonal engraving (45° engraving makes lines less visible)
- » Skip “blank” lines (improves engraving speed by eliminating unnecessary moves)
- » Image resize (uses an optimized algorithm to improve quality)
- » Provides image adjustments (brightness, contrast, flip and rotation)
- » G-Code can be saved (registered users only)
- » Profiles are available to store and recall common settings
- » Greyscale, Dithered (not shown), Black/White and Simulation



- DXF and PLT Import

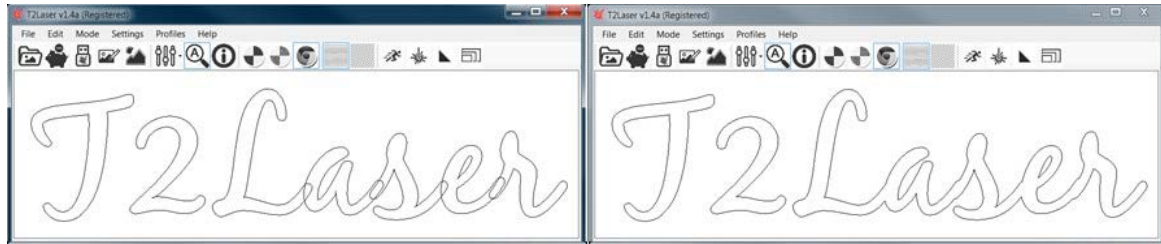
- » Supports DXF/PLT import with colors translated to laser power or feed rates
- » Multi-pass cutting for thicker materials (with optional cool down between repeats)
- » Path optimization to reduce time and improve efficiency
- » Adjust power or feed rate by angle (improves cuts across wood grain)
- » Vector resize, rotate and flip
- » Use DXF colors to determine cutting sequence
- » Optional PDF conversion using an open source 3rd party utility

- Gerber Import

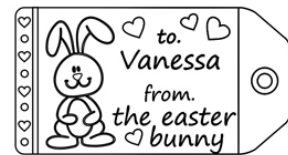
- » Load Standard (RS-274-D) and Extended (RS-274-X) Gerber files
- » Aperture, Region and Drill Files are supported

- Sketch and Trace (Raster to Vector)

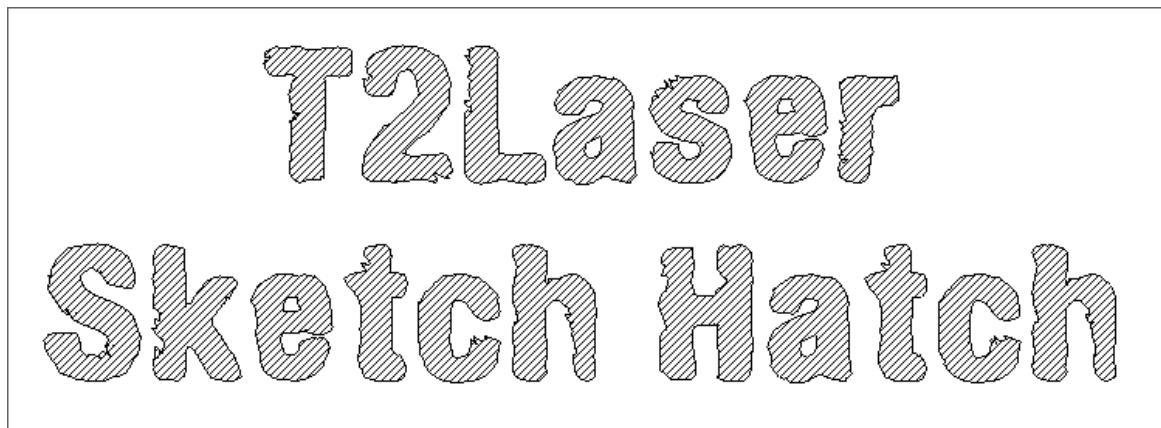
- » Create quick sketches using basic drawing tools and text (includes arc text)
- » Combine Sketch with image (add raster text or a vector path)
- » Combine Trace vector (contour cut) with image
- » Join paths – advanced feature which automatically combines overlapping paths



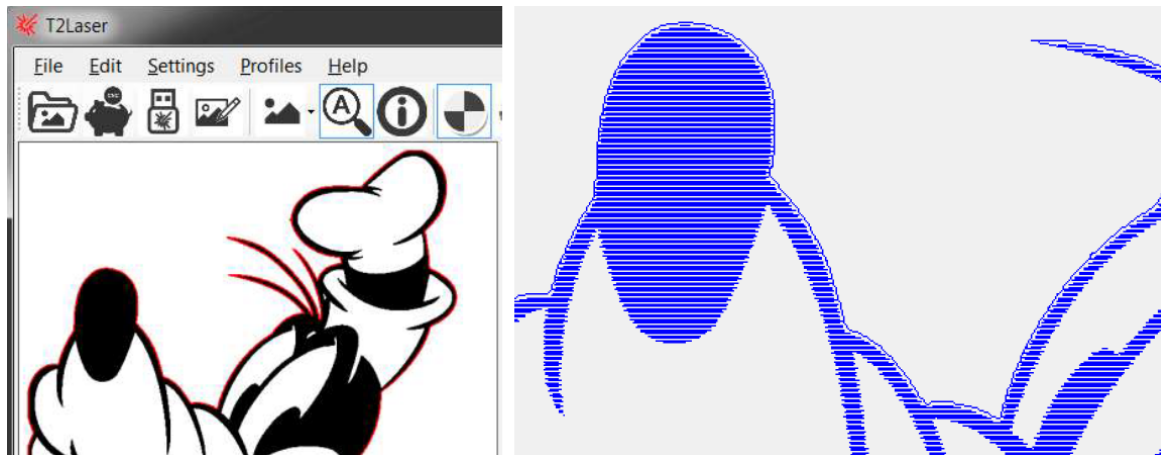
- » Free editable design packs (great for beginners)



- » Hatch and solid fill options



- » Trace Outline (Contour Cut), raster and vector files are combined in a single job



- Laser Control

- » Supports Grbl or Benbox firmware (S, L or P values can be used for laser power)
- » Post Processors and firmware for various systems (e.g. EleksMaker, LaserAxe and Woodpecker)
- » PWM available with Grbl 0.9 or higher firmware and compatible hardware
- » Rotary axis support (provides simple integration of a rotational axis)
- » Upload firmware and default settings (no additional files or programs required)
- » Load and edit G-Code files - supports raster and vector formats (registered users only)
- » User interface for jogging (8-way) with step distance and set / return home
- » Homing is supported with appropriate hardware
- » Machine and workpiece position readouts, position presets for loading or jig positions
- » Estimated time is displayed and progress bar / buffer state is shown when sending
- » Laser on, off and pulse (using user configured power and time)
- » Real-time laser and feed rate overrides available in Grbl 1.1 and higher
- » Supports Dynamic Laser Power to prevent over burning due to acceleration
- » Debug and Check modes are supported to verify G-Code before sending
- » Emergency stop and fail safe error handling
- » G-Code sender is optimized for small segments and constant power / feed adjustment
- » Tested with files containing >7,000,000 lines of G-Code (trial is limited to 10,000 lines)

- G-Code Viewer and Simulation

- » Supports laser power and variable feed rates for true representation of result
- » Run the engraving or cutting in the simulation to detect any problems
- » Visually see the home point, frame and extents to ensure correct placement on the laser
- » Identify problems before sending to the laser; saving you material, time and money

- Multiple License Options

- » Economical single PC license with additional PC's optional
- » Laser license using a genuine Arduino Nano
- » USB-Key "dongle" license
- » All licenses include free updates for 1 year and US based support

Trial is for evaluation only, limited to 30 minutes per session, G-Code saving disabled and conversion restricted to 10,000 lines.

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