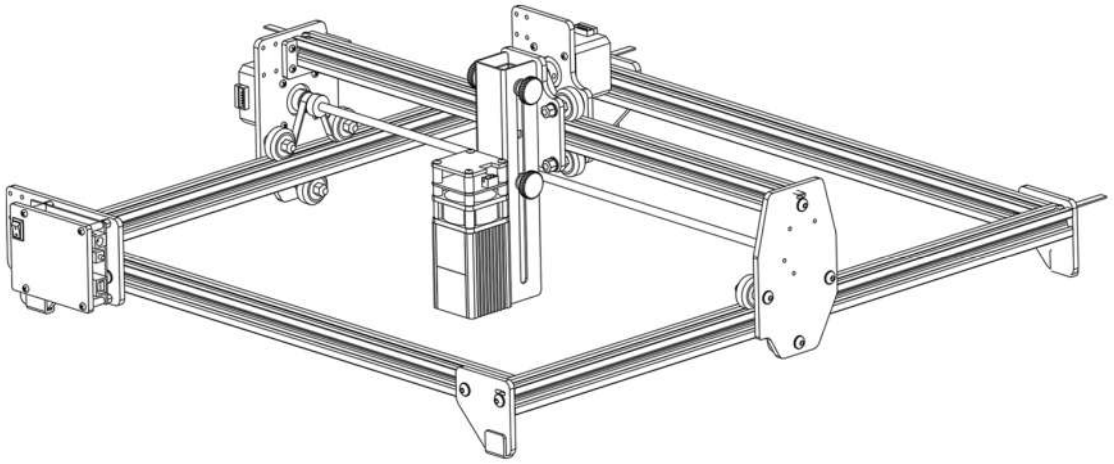
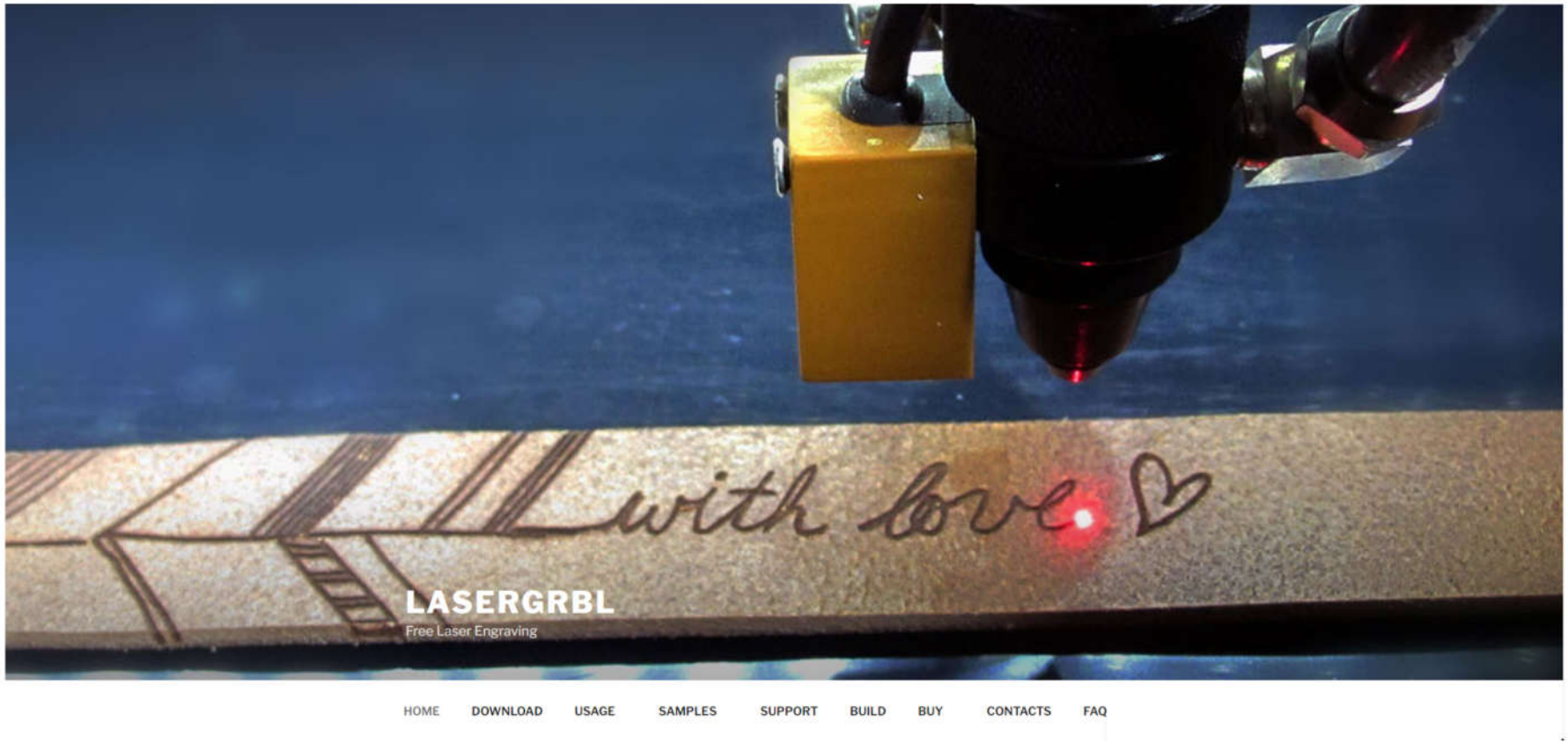
JL3GRBL Procedure



Please read this user manual carefully before use

Laser GRBL

GRBL website: https://lasergrbl.com/



Notice!

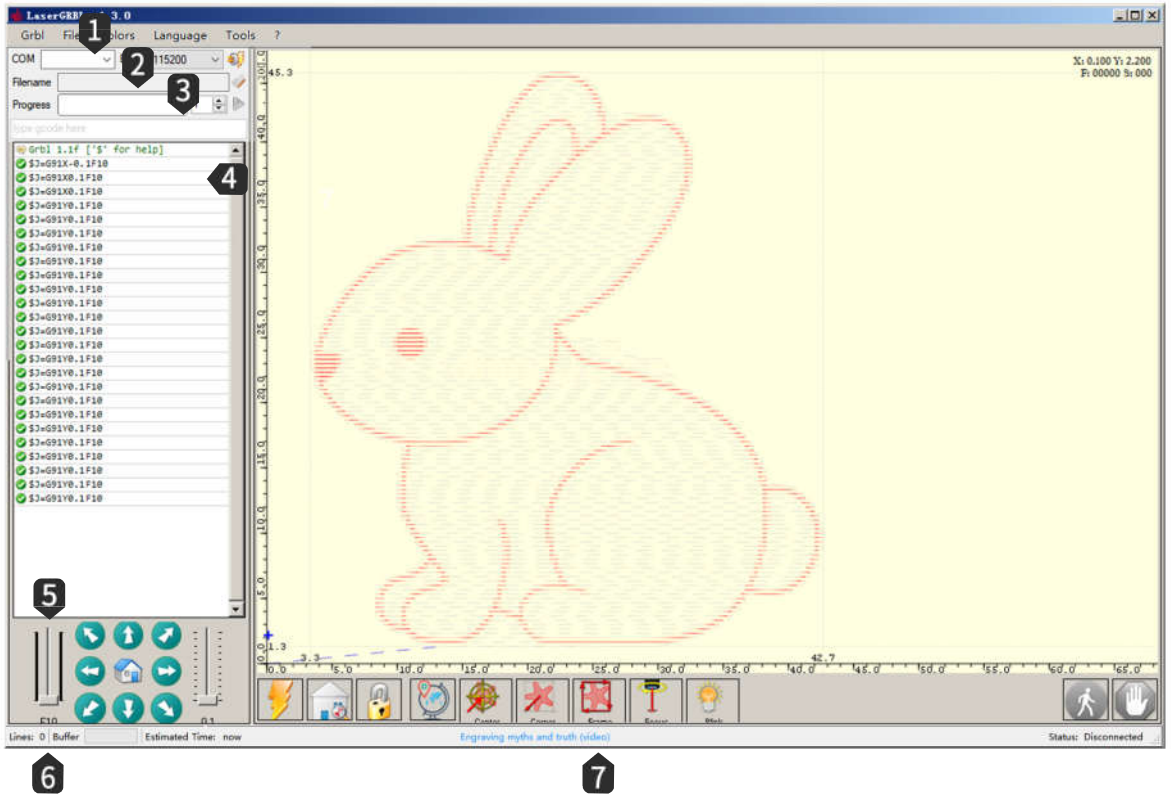
The product can support GRBL open source software by updating GRBL firmware. Once GRBL firmware is updated, this product will not support phone software, original PC software and the roller components any longer.

Path to install GRBL:

double click the USB memory disk to open folder /L3-USB memory disk data/L3 firmware update guide/For detailed steps, please watch the demo video in USB memory disk.

Video of GRBL installation and firmware updating

Introduction to LaserGRBL software interface icon functions:



❶Connection settings:

Select serial port and appropriate connection baud rate according to the grbl firmware configuration.

❷File control:

Display the loaded file name and the engraving process. Green "Play" button will start to execute the program.

❸ Manual command:

You can enter any G code line here then press the "input" button, the command will be placed in the queue.

❹ Command log and command return code:

Display the commands in queue as well as the execution status and errors

❺ Step control:

Allow manual laser positioning. The vertical slider on the left can control the speed of movement, while the slider on the right can control the step length.

❻ Prediction of line number and time:

LaserGRBL can estimate the program execution time based on actual speed and work progress.

❼ Engraving preview:

The final work will be previewed in this zone. During the engraving process, a small blue cross will display the current laser position during the machine operation.

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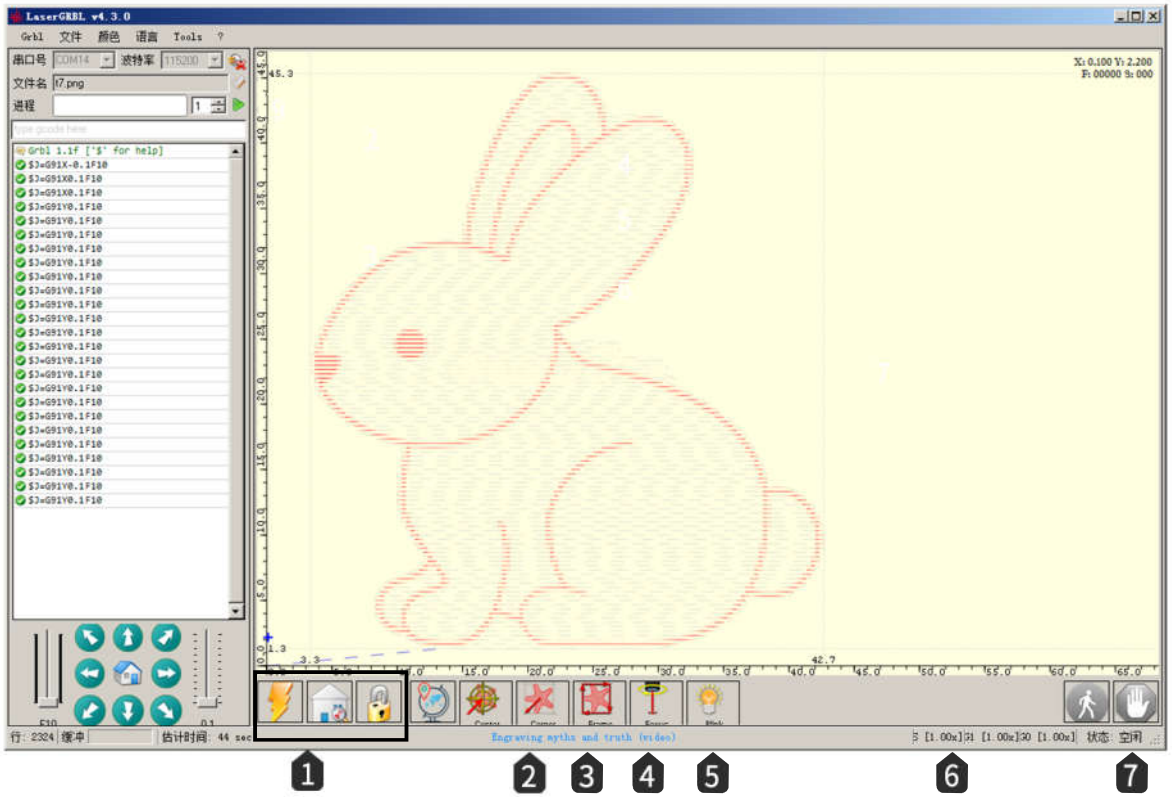


❶ **Grbl reset/home/unlock:**
These buttons submit soft reset, home and unlock commands to the grbl board. On the right side of the unlock button, you can add some user customized buttons.

❷ **Move to the lower left corner:**
Move the coordinate to the lower left corner of the frame.

❸ **Preview of engraving position:**
After the photo is loaded, click this icon to preview the engraving position.

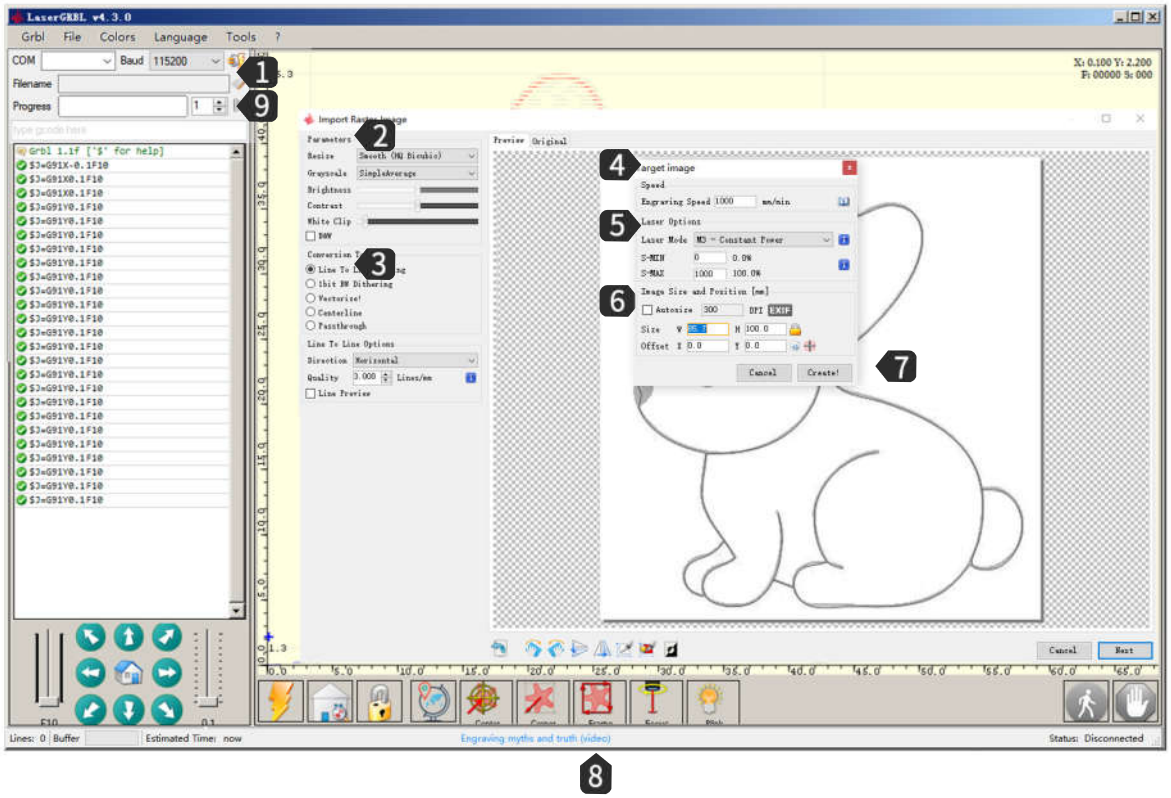
❹ **Activate laser focus:**
Active the laser and focus as required.

❺ **Laser:**
Click the button according to actual needs such as laser test.

❻ **Coverage status control:**
Display and change the actual speed and power coverage. Overrides is a new feature of grbl v1.1 which cannot be supported in the old version.

❼ **Pause and resume:**
Press the button to pause and resume program execution, send Pause or Resume commands to the grbl board.

Introduction to LaserGRBL software interface icon functions:



❶ **Open:**
Click the icon "Open" or drag the file directly to the software interface;

❷ **Parameters:**
Adjust engraving parameters

❸ **Conversion tools:**
Select engraving mode: line-to-line tracking, lbit BW jitter, vectorization, Centerline, Passthrough

❹ **Speed:**
Set the engraving speed

❺ **Laser:**
Set laser parameters

❻ **Image size and position:**
Adjust image size and engraving position.

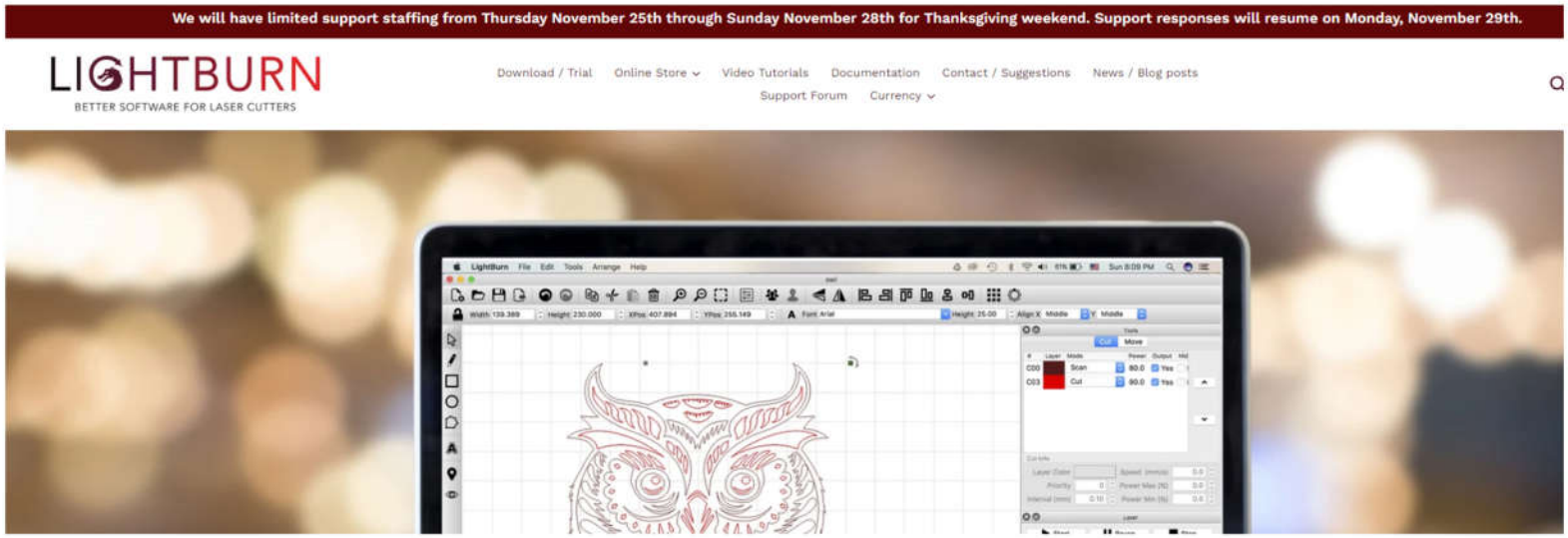
❼ **Create**
After settings have been completed, click Create.

❽ **Preview**
Click the "Preview" button to confirm the pre-view location;

❾ **Engraving:**
Click "engraving" button to start engraving.

LightBurn

LightBurn Website： https://lightburnsoftware.com/



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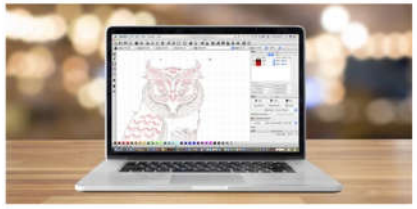

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