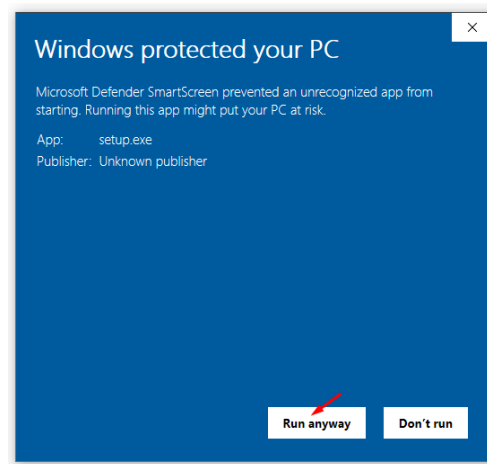
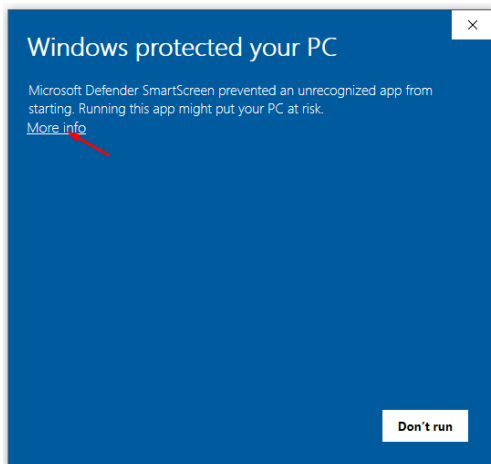


Laser Params Converter

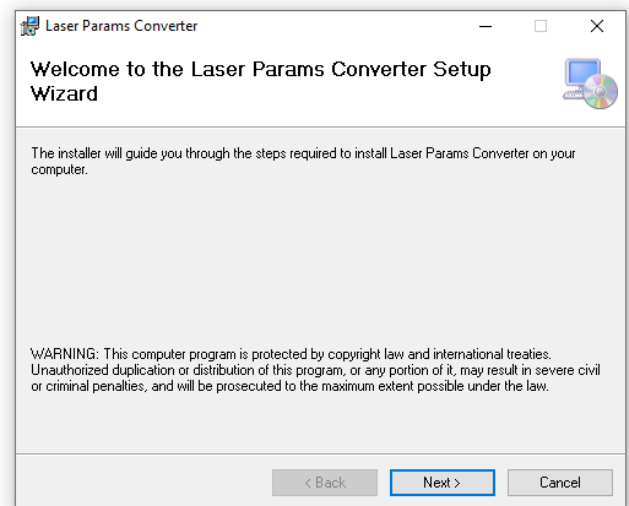
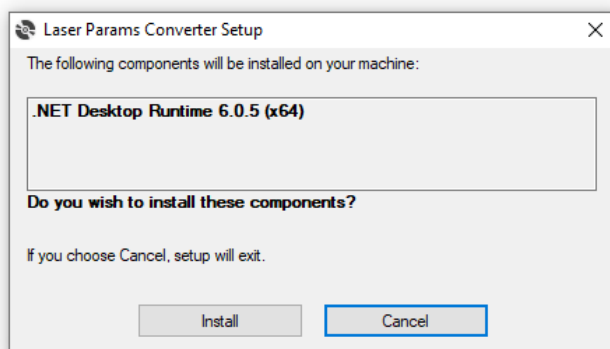
Getting Started

Installation

Copy the installation files into a folder and run **setup.exe**. This program is being offered for free, and therefore I did not purchase a code-signing trust certificate, which can cost a couple hundred dollars per year. Because of this, you may see the Windows SmartScreen warnings below. To continue with the installation, just click **More Info** and then **Run anyway** to continue the installation. You will just have to trust that this code is not malicious or else just don't install it on your system.



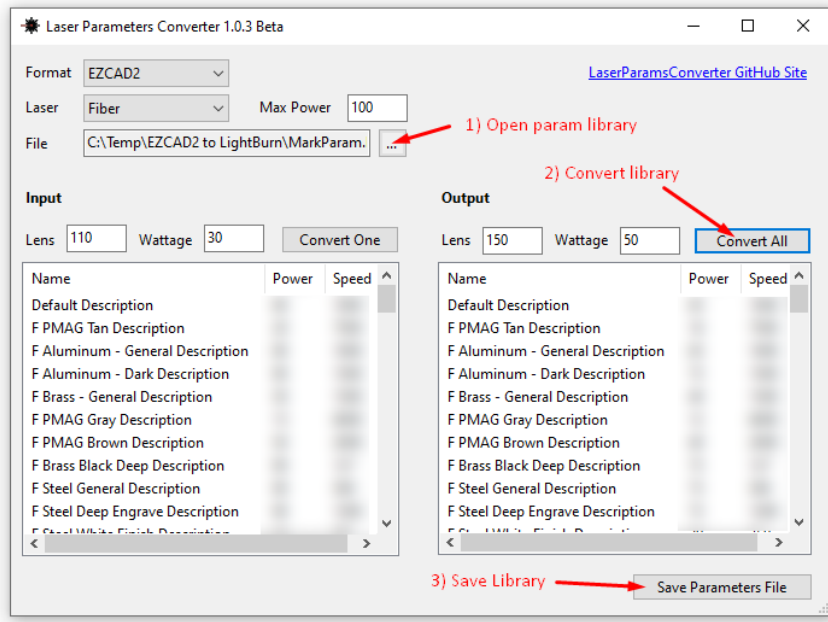
The software requires the Microsoft .NET runtime to be installed. If your computer does not have the required runtime installed, you will be presented with a screen to install the prerequisite. Just click **Install** to continue. Follow the steps to complete the installation.



Using Laser Params Converter

The basic operation of Laser Params Converter (LPC) consists of three steps:

1. Open a library file
2. Convert the library
3. Save the converted library



Note: The power and speed values in the screenshot above have been obscured to protect the proprietary status of the [Laser Everything](#) parameter library. Please join the [Laser Master Academy](#) if you would like access to the library.

Library Format

Select either **EZCAD2** or **LightBurn**. LPC has only been tested with EZCAD2. It *may* work with EZCAD3 parameter libraries, but that is untested.

Laser Type

Select either **Fiber** or **CO2** laser type. The laser type selection will set default **Max Power** values. Selecting CO2 laser will disable **Lens** size parameters.

Conversion Parameters

LPC will convert the library using the following parameters. Make sure these values are correct before you convert:

Max Power

Maximum power percentage for the laser. For CO2 lasers you should leave this at 90% as it is not recommended to run a CO2 at full power for an extended time. It is safe to run Fiber lasers at 100% power.

Input Lens and Wattage

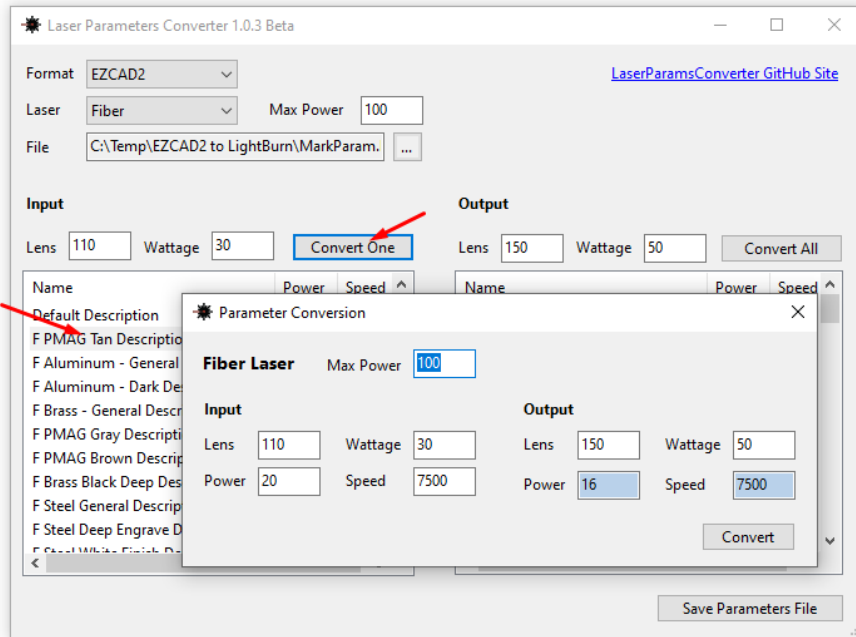
The lens size (for fiber) and wattage of the library being converted. This should match the laser used for the library being converted.

Output Lens and Wattage

The lens size and wattage of the laser the library is being converted to. Set this to match the laser the library is being converted for.

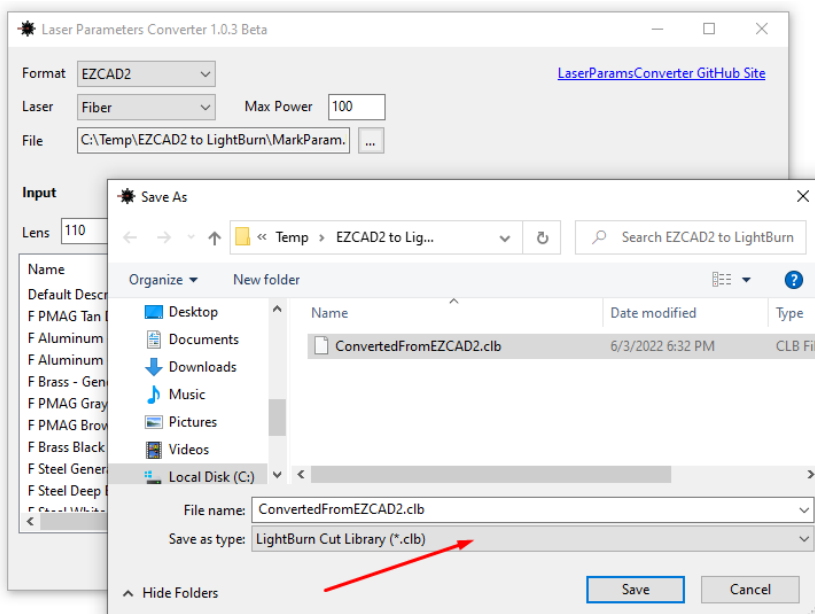
Conversion Calculator

Click **Convert One** to use the conversion calculator to perform a manual conversion for a single parameter. If you have an input parameter selected on the left, the calculator will default to those values for Power and Speed. You can enter any parameter values you like into this calculator and click **Convert** to see the output Power and Speed.



Converting an EZCAD2 library to LightBurn

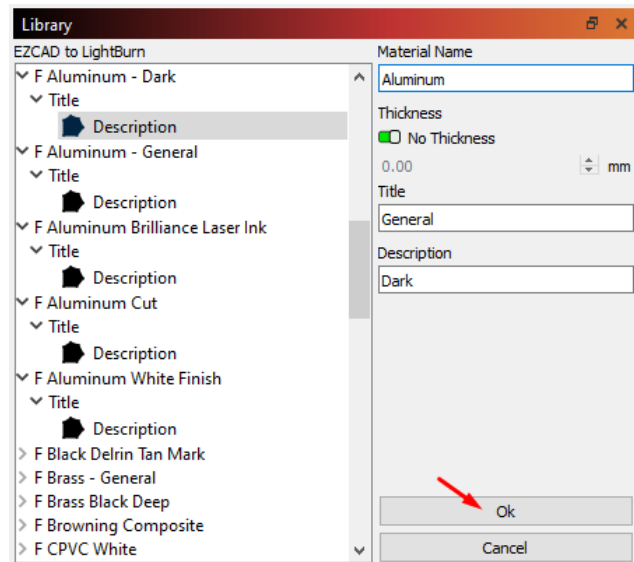
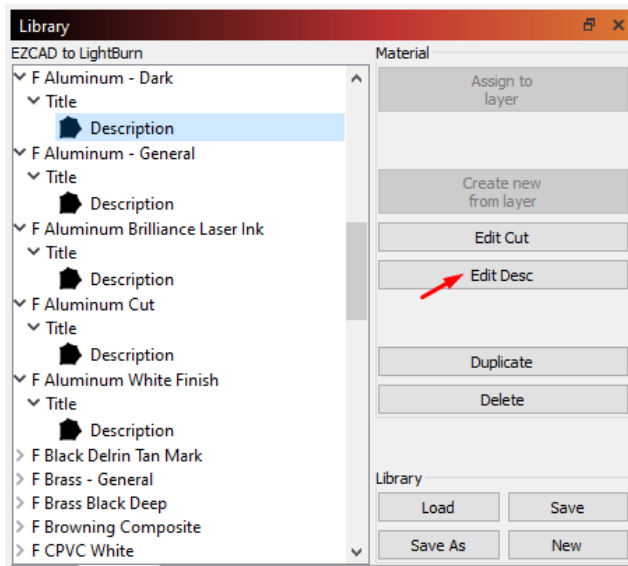
LPC can convert a library in EZCAD2 format into LightBurn format. Just select the Save as type to **LightBurn Cut Library (*.clb)** and then save. The converted library can then be opened in LightBurn. The converted library has been tested in the LightBurn beta version 1.2, which will have full support for Fiber lasers and is due to be released to the general public on June, 30th 2022.



Organizing a converted EZCAD2 library in LightBurn

EZCAD2 has a **flat** parameter library, which is displayed as a simple list. Different parameters for the same material are usually named in a similar manner so that the parameters are grouped and sorted together. LightBurn uses a more advanced **hierarchical** layout that is represented by a tree structure. To take advantage of the LightBurn organizational structure, you will need to edit your converted EZCAD2 library.

The LightBurn library is organized into three levels. The first level is the **Material** name, the second level is the **Title** (or Thickness for cutting material with CO2 lasers), and the third level is the **Description** of your parameter settings. The EZCAD2 library only has a single name for each parameter, so once imported into LightBurn those levels will have default values of **Title** and **Description**.



To organize and group your parameters for LightBurn, click on each parameter at the third level and click the **Edit Desc** button. Now enter meaningful values for **Material Name** (1st Level), **Title** (2nd Level), and **Description** (3rd Level).

LightBurn will automatically group items with the same Material and Title values. Just play around with the names here and you will get the hang of it. In the screenshot below you can see the results of organizing all **Aluminum** parameters into a logical organization.

