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- › [Aufero](#) /
- › [Aufero Laser 1.6W Diode Laser Engraver Instruction Manual](#)

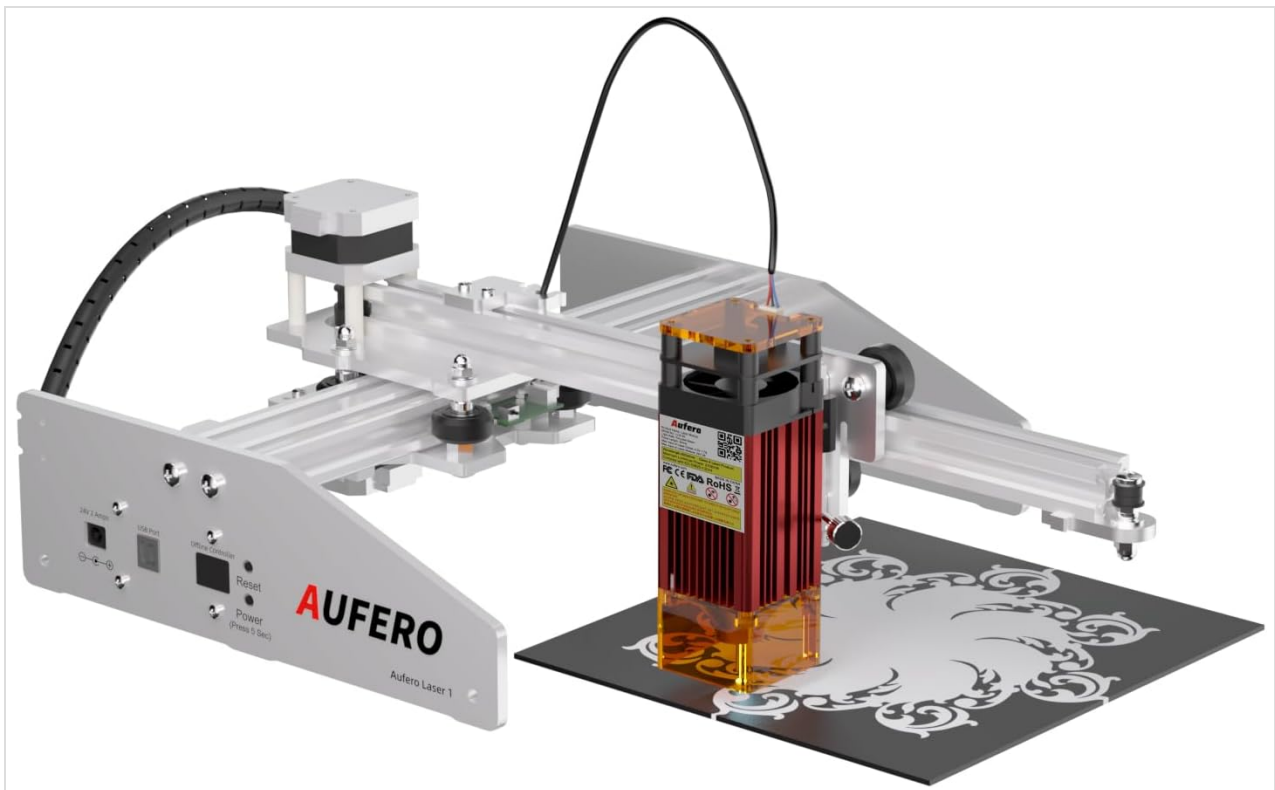
Aufero AL1-LU2-2A-1.6W

Aufero Laser 1.6W Diode Laser Engraver Instruction Manual

Model: AL1-LU2-2A-1.6W

INTRODUCTION

This manual provides essential information for the safe and effective operation of your Aufero Laser 1.6W Diode Laser Engraver. Designed for beginners and hobbyists, this machine offers precise engraving on various materials such as wood, bamboo, cardboard, leather, rubber, black acrylic, coated metal, and thin plastic.



The Aufero Laser 1.6W Diode Laser Engraver, a compact and pre-assembled unit, ready for use.

SETUP AND ASSEMBLY

The Aufero Laser 1 is designed for quick setup. Most components come pre-assembled, making it beginner-friendly. Simply insert the laser head into its designated bracket and connect the two wires.

Installing the Laser Module

Video: A step-by-step guide demonstrating how to correctly install the laser module onto the Aufero Laser 1 engraver.

Video: An overview of the pre-assembled Aufero Laser 1, highlighting its ease of setup for immediate use.

Packing List



Machine *1



USB Cable *1



Power Adapter *4



Angle Fasteners *4



Wrench *4



2mm Allen Key *1



Testing Aluminium Sheet *1



Testing Acrylic *1



Testing Woods *4



Laser Goggle *1



Brush *1



Cable Ties *4



LU2-2A Laser Module x1



Laser Shield x1



Focal Gauge Board x1



Focal Gauge x1

Image: Detailed packing list showing all included components for the Aufero Laser 1.

OPERATING INSTRUCTIONS

The Aufero Laser 1 is compatible with various software platforms for creating and executing engraving projects.

Software Compatibility

The engraver supports popular software: **LaserGRBL** (free, for Windows) and **LightBurn** (fee-paying, for Windows, macOS, and Linux).

Perfectly Compatible with LaserGRBL

LaserGRBL(Free): Supports Windows XP / 7 / 8 / 10

LightBurn(Paid): Supports Windows / Mac OS / Linux

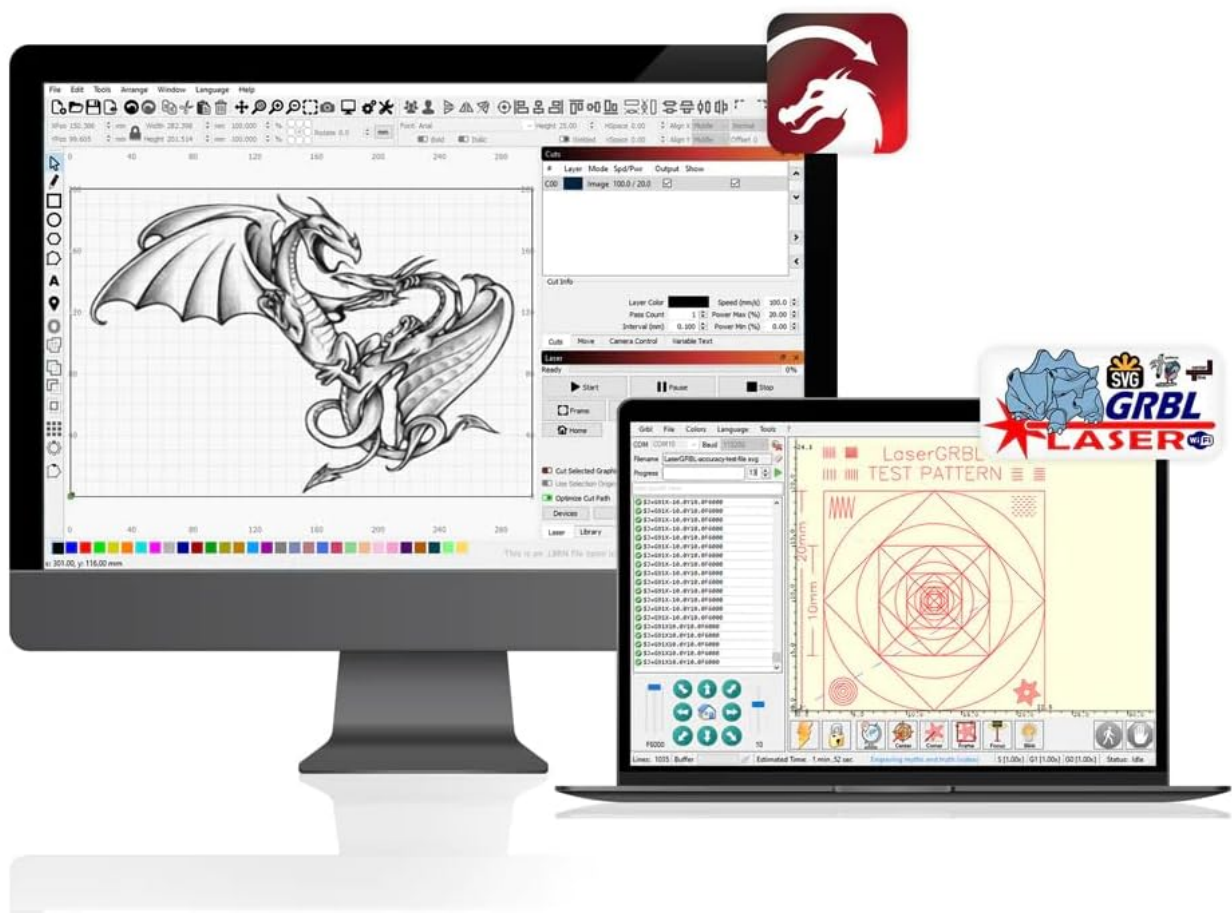


Image: Visual representation of the Aufero Laser 1's compatibility with LaserGRBL and LightBurn software.

Video: A user guide demonstrating the use of LightBurn software with the Aufero Laser 1.

Video: A user guide demonstrating the use of LaserGRBL software with the Aufero Laser 1.

Engraving Materials

The Aufero Laser 1 is capable of engraving on various materials. Ensure the material is compatible and properly secured before starting any project.

Video: Demonstration of the Aufero Laser 1 performing engraving on MDF material.

MAINTENANCE AND SAFETY

Proper maintenance and adherence to safety guidelines are crucial for the longevity of your device and user safety.

Safety Features

- **Active Position Protection:** Stops operation if the machine is moved or tilted.
- **Exposure Duration Detection and Limitation:** Prevents prolonged laser exposure if the machine is idle.
- **Laser Beam Safety Guard:** Monitors USB signal transmission to ensure safe operation.
- **Current Safety Control System:** Monitors voltage and current for stable and safe power delivery.



Image: Diagram illustrating the various safety features integrated into the Aufero Laser 1.

Eye Protection

Always wear the provided laser goggles during operation. The machine features a protective cover that effectively filters 97% UV light. Never stare directly into the laser beam. Minor children should only use the device under adult supervision.

TROUBLESHOOTING

If you encounter issues with your Aufero Laser 1, consider the following:

- Ensure all cables are securely connected.
- Verify that the correct software (LaserGRBL or LightBurn) is installed and configured according to its user guide.
- Check material settings (power, depth, passes) in your software for the specific material being used.
- Confirm that the laser module is properly focused.

For persistent problems, refer to the software documentation or the manufacturer's online resources. If issues remain unresolved, contact customer support.

PRODUCT SPECIFICATIONS

Feature	Detail
Model Number	AL1-LU2-2A-1.6W
Module Model	LU2-2A
Output Power	1.6-1.8W (2000 mW)
Motherboard	32-bit MCU
Baud Rate	Up to 921600
Engraving Area	15.7 x 15.7 inch (7.1 x 7.1 inch for this specific variant)
Engraving Speed	10000mm/min
Spot Size	0.07 x 0.06mm
Laser Class	Class 4
Product Dimensions	7.87 x 7.87 x 3.94 inches
Item Weight	6.59 pounds
Manufacturer	Aufero
Date First Available	November 20, 2023

WARRANTY AND SUPPORT

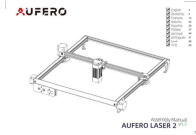
For warranty information, technical assistance, or to inquire about protection plans, please visit the official Aufero website or contact Aufero Technology customer support directly. Protection plans are available to provide extended coverage for your device.

Related Documents - AL1-LU2-2A-1.6W

	LU2-2	LU2-4F	LU2-4SF	Notes
Engraving Speed	10000	10000	10000	Engraving Speed
Cutting Speed	10000	10000	10000	Cutting Speed
Engraving Power	10000	10000	10000	Engraving Power
Cutting Power	10000	10000	10000	Cutting Power
Engraving Line	10000	10000	10000	Engraving Line
Cutting Line	10000	10000	10000	Cutting Line
Engraving Air Assist	10000	10000	10000	Engraving Air Assist
Cutting Air Assist	10000	10000	10000	Cutting Air Assist
Engraving Focus	10000	10000	10000	Engraving Focus
Cutting Focus	10000	10000	10000	Cutting Focus
Engraving Z-Offset	10000	10000	10000	Engraving Z-Offset
Cutting Z-Offset	10000	10000	10000	Cutting Z-Offset

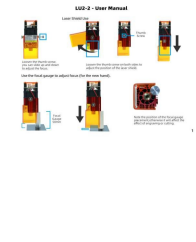
[Aufero Laser 2 Module Engraving and Cutting Parameters Guide](#)

Comprehensive guide detailing engraving and cutting parameters for various materials using Aufero Laser 2 modules (LU2-2, LU2-4-LF, LU2-4-SF), including speed, power, and line settings for optimal results.



[AUFERO LASER 2 Assembly Manual: Step-by-Step Guide](#)

Detailed assembly manual for the AUFERO LASER 2 laser engraving machine, covering setup, components, and multiple laser module options (LU2-2, LU2-4-LF, LU2-4-SF).



[AUFERO LU2-2 Laser Module: User Manual and Focus Adjustment Guide](#)

Comprehensive user manual for the AUFERO LU2-2 laser module, detailing focus adjustment methods using a focal gauge and aluminum plate, along with laser shield positioning. Includes product specifications and safety information.



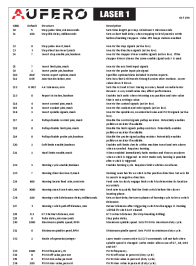
[AUFERO LU2-4-LF Laser Module User Manual - Focus and Air-Assist Installation Guide](#)

Comprehensive user manual for the AUFERO LU2-4-LF laser module. Learn how to adjust laser shield, set focus using focal gauge or aluminum plate, and install the optional air-assist system.



[Aufero YRR 2.0 Y-axis Rotating Roller Assembly Manual](#)

Assembly and usage guide for the Aufero YRR 2.0 Y-axis Rotating Roller Assembly, an accessory for laser engraving cylindrical objects. Includes parts list, installation steps, software setup for LaserGRBL and Lightburn, and connection instructions.



[AUFERO LASER 1 GRBL Settings Configuration Guide](#)

Comprehensive guide to GRBL settings for the AUFERO LASER 1, detailing each parameter, its default value, structure, and description for optimal laser engraver configuration. Includes settings for motion, homing, spindle control, and specific AUFERO features.