

VEVOR L8

VEVOR Laser Engraver L8 Instruction Manual

Model: L8

1. INTRODUCTION

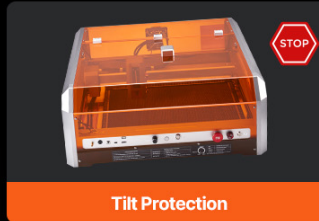
This manual provides essential information for the safe and efficient operation of your VEVOR Laser Engraver L8. This Class 1 laser engraving and cutting machine features a 20W laser output, a 15.7 x 15.7 inch (400 x 400 mm) working area, and a maximum engraving speed of 30,000 mm/min. It is designed for engraving and cutting various materials such as wood, leather, paper, and acrylic. Please read this manual thoroughly before using the device.

2. SAFETY INFORMATION

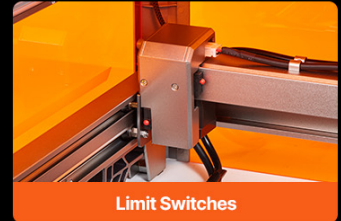
Your VEVOR Laser Engraver L8 is a Class 1 laser product, designed with comprehensive safety features. Adhering to these safety guidelines is crucial to prevent injury and damage.

- **Eye Protection:** The machine features a protective enclosure that filters laser light. Always ensure the enclosure is closed during operation. Never look directly at the laser beam.
- **Emergency Stop:** An emergency stop button is provided for immediate shutdown in case of an unexpected event. Familiarize yourself with its location.
- **Tilt Stop:** The machine is equipped with a tilt stop mechanism that automatically halts operation if the device is tilted beyond a safe angle.
- **Limit Switches:** Integrated limit switches prevent the laser head from exceeding the working area, enhancing operational safety.
- **Security Lock:** A security lock mechanism is included to prevent unauthorized use.
- **Smoke and Fumes:** The enclosure helps block smoke. Ensure adequate ventilation in your workspace.
- **Material Compatibility:** Only engrave or cut materials specified as safe. Avoid highly reflective or transparent materials without proper preparation (e.g., black coating). Do not attempt to cut metals or transparent/translucent acrylic.

Comprehensive Security Protection



Tilt Protection



Limit Switches



Security Lock



Emergency Stop Button

Image: Comprehensive security features of the VEVOR Laser Engraver L8, including tilt protection, limit switches, security lock, and emergency stop button.

Filter Laser Light, Shield Your Eyes

● Detachable Laser Filter Window



Image: The detachable laser filter window, designed to shield eyes from direct laser light.

3. SETUP

The VEVOR Laser Engraver L8 is designed for ease of use and comes largely pre-assembled, ready to use out of the box. Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the engraver and all accessories from the packaging. Inspect for any shipping damage.
2. **Placement:** Place the machine on a stable, level surface in a well-ventilated area. Ensure sufficient space around the unit for operation and maintenance.
3. **Power Connection:** Connect the power adapter to the machine's DC24V socket and then to a suitable power outlet.
4. **Software Installation:** Install the appropriate software on your computer. The engraver supports LaserGRBL (Windows, for low-speed devices only), LightBurn (Mac OS/Windows, paid license required), and CutLabX (Mac OS/Windows/App).
5. **Connectivity:** Connect the machine to your computer via USB or utilize Wi-Fi for CutLabX App (App only).

Item Model Number: **L8**
Laser Type: **Single Blue Light, Diode**
Laser Output Power: **20W**
Laser Class: **Class 1**
Laser Wavelength: **455 nm**
Laser Spot Size: **0.12 x 0.15 mm**
Effective Working Area: **15.7 x 15.7 in/400 x 400 mm**
Maximum Engraving Speed: **30000 mm/min**
Software Compatibility: **LaserGRBL (Windows), LightBurn (Mac OS/Windows, Paid License Required), CutLabX (Mac OS/Windows/APP)**
Net Weight: **33.7 lbs/15.3 kg**
Product Dimensions: **24.1 x 25.0 x 9.8 in/ 612 x 634 x 250 mm**



Image: The VEVOR Laser Engraver L8 shown with its various components and accessories, highlighting its pre-assembled state.

Multiple Interface Setup

Efficient Online & Offline Engraving



Image: Multiple interface options including intake pipe connector, air pump power socket, DC24V, Type-C, and TF card socket for efficient online and offline engraving.

4. OPERATING INSTRUCTIONS

Operating your VEVOR Laser Engraver L8 involves preparing your design, setting up the machine, and initiating the engraving or cutting process.

- Design Preparation:** Create or import your design using compatible software (LightBurn, LaserGRBL, CutLabX). Adjust settings such as power, speed, and passes according to the material and desired outcome.
- Material Placement:** Place your material securely on the honeycomb workbench within the 15.7 x 15.7 inch working area.
- Auto Positioning:** Utilize the built-in HD camera for precise auto-positioning of your design on the material, minimizing waste.
- Focus Adjustment:** Ensure the laser is properly focused on the material surface for optimal results.
- Start Operation:** Close the protective enclosure. Initiate the engraving or cutting process through your software. Monitor the process closely.

6. **Offline Engraving:** The machine supports offline engraving, allowing you to operate without a continuous computer connection once the file is loaded.

All-Around Security, Peace of Mind at Home



Class 1
Laser Safety



Smoke Exhaust



Eye
Protection



Auto Stop



Image: A user interacting with the VEVOR Laser Engraver L8, demonstrating typical operation with a laptop.

Built-in HD Camera Auto Positioning

● Precise Auto Positioning, Less Waste




Image: The built-in HD camera, crucial for precise auto-positioning and reducing material waste.

Engrave on Multiple Materials

Create Without Limits



Image: Demonstrates the versatility of the engraver on multiple materials, including wood, leather, glass, and paper.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR Laser Engraver L8.

- **Cleaning:** Regularly clean the lens of the laser module with a soft, lint-free cloth and appropriate cleaning solution. Keep the working area and internal components free of dust and debris.
- **Rail and Belt Inspection:** Periodically check the aluminum frame, optical axis rails, and drive belts for wear or damage. Ensure they are clean and move smoothly.
- **Exhaust System:** Ensure the smoke exhaust fan is clear of obstructions and functioning effectively to maintain proper ventilation.
- **Firmware Updates:** Check the VEVOR official website or software for any available firmware updates to ensure your machine operates with the latest features and improvements.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

- **Machine Not Powering On:** Check the power cable connection and ensure the power outlet is functional. Verify the power switch is in the 'ON' position.
- **Laser Not Firing:** Ensure the protective enclosure is fully closed. Check software settings for laser power and enable status. Verify the laser module is securely connected.
- **Poor Engraving/Cutting Quality:** Adjust laser focus. Verify material settings (power, speed, passes) in your software. Clean the laser lens. Ensure the material is flat and securely placed.
- **Machine Not Connecting to Computer:** Check USB cable connection or Wi-Fi settings. Ensure correct drivers are installed for your operating system. Restart both the machine and computer.
- **Unexpected Stops:** Check for error messages in the software. Ensure no safety features (e.g., tilt sensor, lid-open sensor) have been triggered.

If issues persist, refer to the software documentation or contact VEVOR customer support.

7. SPECIFICATIONS

Feature	Specification
Item Model Number	L8
Laser Type	Single Blue Light, Diode
Laser Output Power	20W
Laser Class	Class 1

Feature	Specification
Laser Wavelength	455 nm
Laser Spot Size	0.12 x 0.15 mm
Effective Working Area	15.7 x 15.7 in / 400 x 400 mm
Maximum Engraving Speed	30000 mm/min
Software Compatibility	LaserGRBL (Windows), LightBurn (Mac OS/Windows, Paid License Required), CutLabX (Mac OS/Windows/App)
Net Weight	33.7 lbs / 15.3 kg
Product Dimensions	24.1 x 25.0 x 9.8 in / 612 x 634 x 250 mm

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official VEVOR website or contact VEVOR customer service directly. Specific warranty terms and support procedures may vary and are typically provided with your purchase documentation.

VEVOR Official Website: www.vevor.com