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› WAINLUX K8 10W Mini Laser Engraver, Laser Engraving Machine, 10000mW Fully Enclosed with Viewable Window, Laser Engraver and Cutter Machine for Wood Metal Leather, Grabadora Láser, Laser Class 1

WAINLUXPRO K8-10

WAINLUX K8 10W Mini Laser Engraver User Manual

Model: K8-10 | Brand: WAINLUXPRO

1. INTRODUCTION

The WAINLUX K8 is a compact, fully enclosed 10W laser engraver and cutter, designed for both hobbyists and small businesses. It offers high precision and speed, capable of engraving on a wide range of materials including wood, metal, leather, and acrylic. Its intelligent features, such as the built-in 2MP smart camera, simplify the engraving process, allowing for precise positioning and batch production. The K8 prioritizes user safety with its Class 1 laser rating and integrated protective mechanisms.



Figure 1: The WAINLUX K8 10W Mini Laser Engraver, a compact and fully enclosed unit.

2. SAFETY INFORMATION

The WAINLUX K8 is designed with multiple safety features to ensure user protection. It is a Class 1 laser product, meaning it is safe under all conditions of normal use. Always adhere to the following safety guidelines:

- **Fully Enclosed Design:** The K8 features a fully enclosed structure with a Hall induction door safety protection. The laser operation will automatically stop if the door is opened, preventing accidental laser exposure.
- **Viewable Window:** Both the front and back doors are equipped with anti-laser see-through windows that filter 99.7% of blue light, allowing safe observation of the engraving process.
- **Fireproof Material:** The machine incorporates fireproof engineering plastic to enhance safety during operation.
- **Ventilation System:** A built-in efficient ventilation system helps to blow away smoke, dust, and sparks. For optimal air quality, consider connecting an external air purifier.

The World's First Fully Enclosed Visual Engraving Machine



Laser level **CLASS1**



Anti-laser see-through window



Hall induction door auto Pause Design



Fireproof material

Figure 2: The K8's enclosed design with a blue light filtering window for safe operation.

3. PRODUCT OVERVIEW

The WAINLUX K8 is engineered for precision and ease of use. Key components and features include:

- **2MP Smart Camera:** Allows for visual processing, autofocus, and precise editing of engraving positions directly within the software. This feature is particularly useful for batch production.
- **High Precision Laser:** Utilizes advanced laser compression technology for ultra-fine 0.01mm engraving precision.
- **Fast Engraving Speed:** Achieves speeds up to 15000mm/min, significantly reducing project completion times.
- **Adjustable Platform:** The stage height can be manually adjusted up to 100mm, accommodating objects of various thicknesses.
- **Slag Collecting Tray:** A convenient sliding tray automatically collects debris, simplifying cleanup.

Smart Camera Easy locate & Engrave

Intelligent Real-time Batch Adjusting



Figure 3: The K8's smart camera feature for precise object placement and engraving.

WAINLUX Fast, Portable and Long-lasting

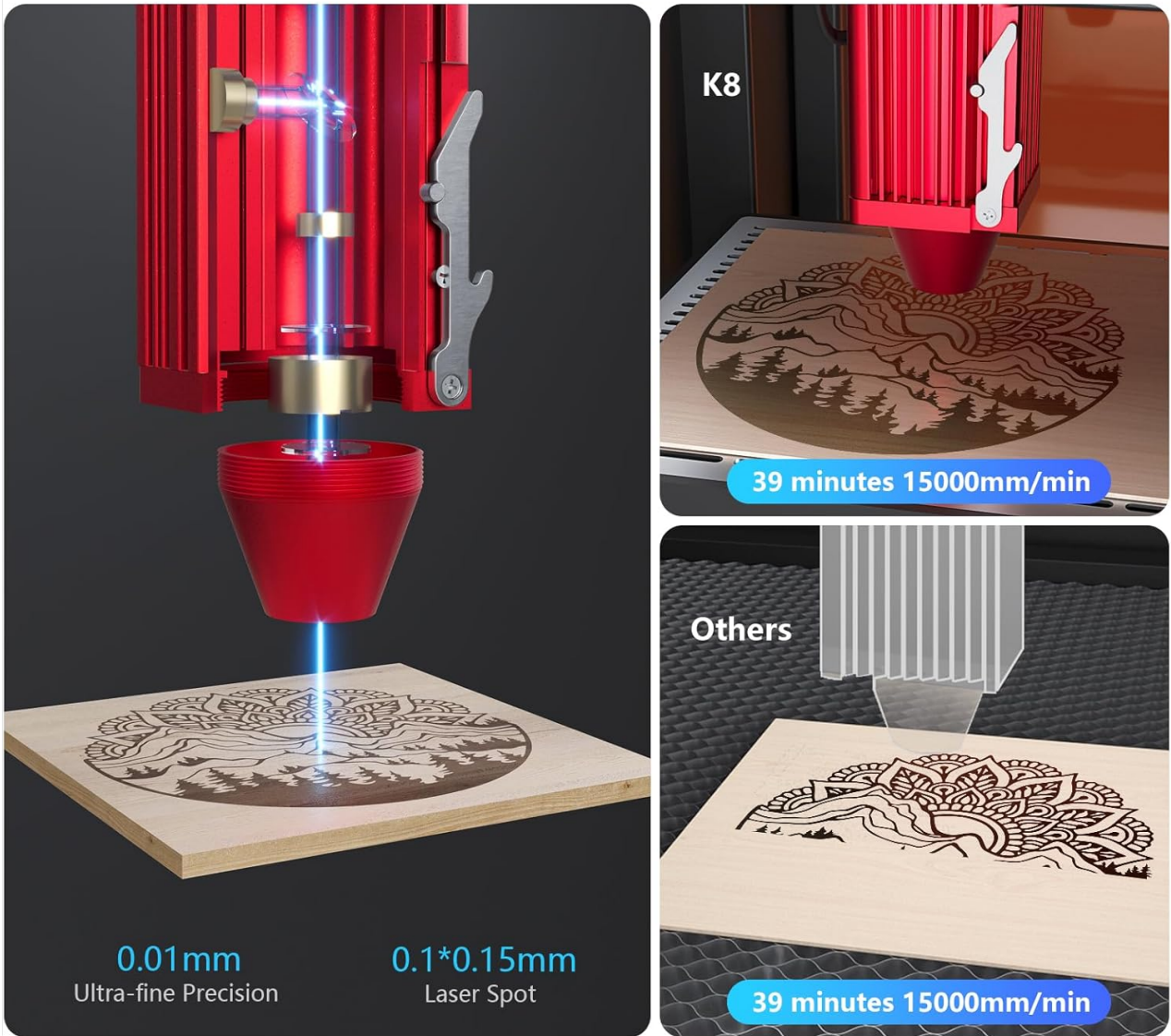


Figure 4: Illustration of the K8's ultra-fine precision and fast engraving capabilities.

4. SETUP

Setting up your WAINLUX K8 is a straightforward process. Follow these steps for initial setup and connection:

1. **Unboxing:** Carefully remove the engraver and all accessories from the packaging. Inspect for any damage.
2. **Power Connection:** Connect the power supply to the K8 and plug it into a suitable power outlet.
3. **Software Installation:** Install the recommended software (CutLabX, LightBurn, or LaserGRBL) on your computer. Ensure your computer meets the software's system requirements.
4. **Initial Connection:** Connect the K8 to your computer via USB or Wi-Fi as per the software's instructions. The indicator light will change from flashing to solid once the machine has loaded its program and is ready for connection.

Video 1: This video demonstrates the unboxing process of the WAINLUX K8 laser engraver, showing how to safely remove the unit and its components from the packaging.

Video 2: This video provides a guide on connecting the WAINLUX K8 to LightBurn software for the first time, covering the

necessary steps for successful communication between the engraver and your computer.

5. OPERATING INSTRUCTIONS

Operating the WAINLUX K8 involves preparing your material, setting up your design in the software, and initiating the engraving process. The smart camera feature in CutLabX software greatly assists with precise positioning.

5.1 Material Placement and Focus

1. Place your material flat on the engraving platform.
2. Use the manual adjustment knob to set the laser head to the correct focus height for your material.

5.2 Software Usage (CutLabX Example)

The camera calibration function is only supported by CutLabX PC software. Before using this function, the engraving machine must be configured with WiFi and connected using WiFi mode.

1. Open CutLabX software and ensure the K8 is connected (Wi-Fi recommended for camera features).
2. Find the camera calibration icon at the top of the software and click it.
3. The software will display alignment lines. Adjust the X and Y axis alignment lines and rotation angle within the software to match the physical alignment lines engraved on a test piece of kraft paper. Take photos with the camera icon to verify alignment.
4. Once calibrated, find a carved object for testing. Click the camera icon to take photos, and the carved object image will be displayed on the canvas.
5. Draw a simple shape in the software and move it to the surface of the carved object image on the canvas.
6. Set engraving parameters (speed, power, engraving times) for your material.
7. Click 'Start' to begin the engraving process.

Support Multiple Platform and File Formats

CutLabX/LaserGRBL/LightBurn



LightBurn
Supports Windows
Mac OS/Linux



LaserGRBL
Supports Windows
XP / 7 / 8 / 10



CutLabX
Supports Mac OS 10.0
Windows



Support Multiple Formats



GIF



DXF



PLT



HPGL



JPEG



BMP



PNG



SVG

Note: LaserGRBL Software Does Not Support Macos Temporarily.

Figure 5: The K8 supports multiple engraving software platforms and file formats.

Suitable For Many Types Of Materials



Cardboard



Solid wood



Canvas



Medium density fibreboard



Acrylic



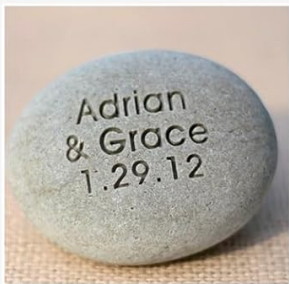
Leather



Sperrholz



Cake desserts



Cobblestones



Coated metal



Pottery



Plywood

Figure 6: Examples of materials suitable for engraving with the WAINLUX K8.

Video 3: This video illustrates how to use the WAINLUX K8 for batch engraving, optimizing the process for multiple items.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your WAINLUX K8.

- **Cleaning:** The K8 features a detachable cleaning structure exhaust fan and a slag collecting tray for easy removal of debris. Regularly clean these components to prevent buildup.
- **Air Purifier:** For enhanced air quality and to minimize smoke/odor, connect an external air purifier to the K8.
- **Laser Module Care:** The laser module has an impressive lifespan of up to 10,000 hours. Avoid touching the laser lens directly.

Video 4: This video demonstrates the setup and function of the WAINLUX K8 with an external air purifier, highlighting its benefits for a cleaner workspace.

6.1 Advanced Maintenance

For advanced maintenance or component replacement, refer to the official guides:

Video 5: This video provides a detailed guide on how to replace the motherboard of the K8 laser engraver, intended for experienced users or under professional guidance.

7. TROUBLESHOOTING

Here are some common questions and solutions for the WAINLUX K8:

- **Q: Can it be engraved on curved surface materials?**

A: Yes, but the radius of the material and the engraved graphic area should not be too large, otherwise there will be slight deformation.

- **Q: How to deal with a lot of smoke and dust on the cut material?**

A: Please reduce the laser power and increase the speed appropriately. Ensure the ventilation system is clean and functioning, and consider using an external air purifier.

- **Q: The camera image is split or misaligned.**

A: This may require recalibrating the camera within the CutLabX software. Follow the camera calibration steps in the operating instructions, ensuring the alignment lines on the kraft paper match the software's display. Adjust X and Y axis values and rotation as needed.

- **Q: The machine randomly shuts off during operation.**

A: Check all power connections and ensure the power supply is stable. Verify that the internal wiring harness is not damaged. If the issue persists, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	10.7 x 10.7 x 11.57 inches
Item Model Number	K8-10
Item Weight	14.97 pounds
Manufacturer	WAINLUXPRO
Country of Origin	China
Laser Power Output	10000mW
Laser Class	Class 1
Wavelength	455nm ± 5nm
Engraving Precision	0.01mm
Engraving Speed	Up to 15000mm/min
Max Material Height	100mm (adjustable stage)
Compatibility	CutLabX, LaserGRBL, LightBurn (Windows, Mac)
Supported Image Formats	JPEG/BMP/PNG/JPG/GIF
Supported Vector Formats	DXF/PLT/HPGL
Connectivity	SD Card/USB/Wi-Fi APP/Access Point Offline Work

9. WARRANTY AND SUPPORT

WAINLUXPRO is committed to providing high-quality products and comprehensive pre-sales and after-sales services. For any inquiries, technical assistance, or warranty claims, please contact WAINLUXPRO Official customer support. Refer to your purchase documentation for specific warranty terms and contact information.