



Manuals.plus /

- › WAINLUXPRO /
- › WAINLUXPRO K10 3W Laser Engraver Machine User Manual

## WAINLUXPRO WAINLUX K10

# WAINLUXPRO K10 3W Laser Engraver Machine User Manual

Model: WAINLUX K10 | Brand: WAINLUXPRO

## 1. INTRODUCTION

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The WAINLUXPRO K10 3W Laser Engraver Machine is a compact and user-friendly device designed for precise engraving on a wide range of materials. Its enclosed design ensures safety and efficiency, making it suitable for both beginners and experienced users. This manual provides comprehensive instructions for setting up, operating, and maintaining your K10 laser engraver.



Figure 1: WAINLUXPRO K10 3W Laser Engraver Machine with examples of engraved items like a notebook, cap, phone case, keychains, and mug.

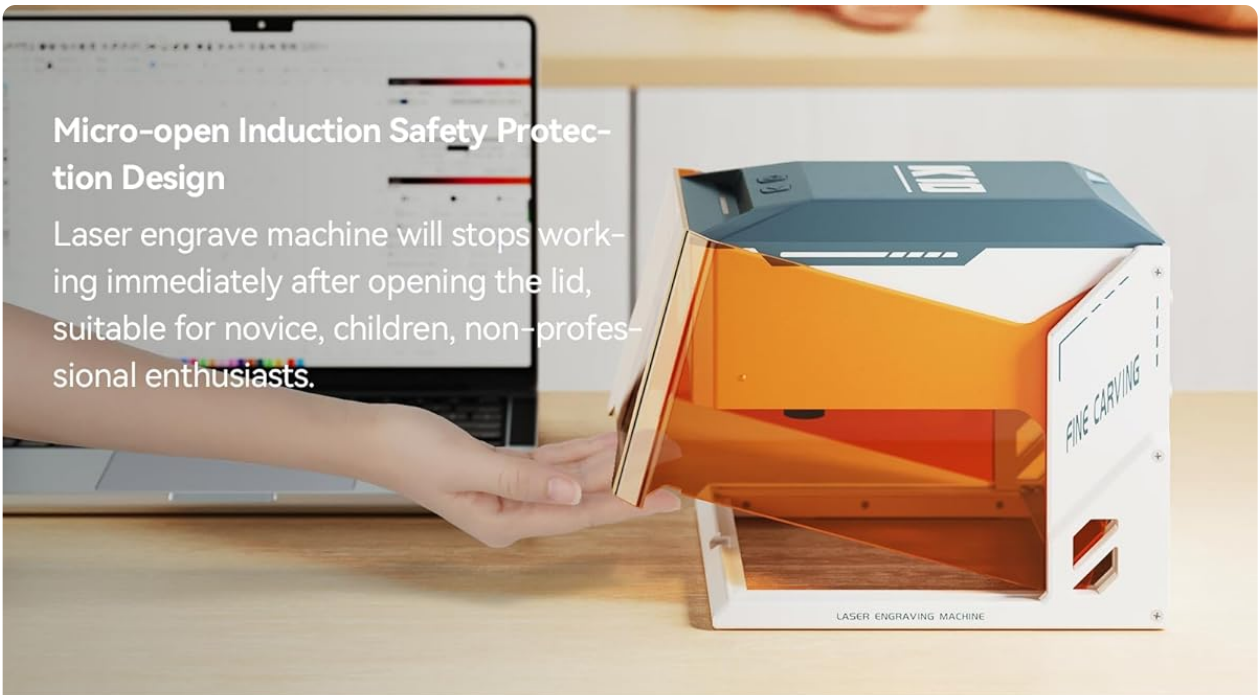
## 2. SAFETY INFORMATION

Your WAINLUXPRO K10 is classified as a Laser Class 1 product, designed with multiple safety features to ensure user protection. Adhering to these guidelines is crucial for safe operation.

- **Protective Cover:** The laser emission immediately ceases when the protective cover is opened, preventing potential leakage.
- **Tilt Induction:** If the inclination angle between the engraver and the horizontal plane exceeds 135 degrees and is maintained for more than 1 second, the machine will stop operation immediately.
- **Enclosed Design:** The high-definition transparent cover allows for safe observation of the engraving process without the need for additional goggles.
- **Ventilation:** A built-in fan helps manage fumes. For optimal air quality, consider connecting an external air purifier (not included).

### Micro-open Induction Safety Protection Design

Laser engrave machine will stop working immediately after opening the lid, suitable for novice, children, non-professional enthusiasts.



## World-Leading Safety Performance

Let you more immersed in creating without apprehensions.



### Tilt Induction Safety Protection Design

When the Angle between the laser engrave machine and horizontal plane is greater than  $13^{\circ}(\pm 5^{\circ})$  and maintained for more than 1 second, laser machine will stop working immediately.

$13^{\circ}(\pm 5^{\circ})$

Figure 2: Micro-open Induction Safety Protection Design, where opening the lid stops laser emission.



Figure 3: Tilt Induction Safety Protection Design, showing the machine stopping if tilted beyond a safe angle.

### 3. PRODUCT OVERVIEW

The WAINLUXPRO K10 is a compact and powerful laser engraver designed for ease of use and versatility.

#### Key Features:

- Engraving Area: 80x80mm

- **Accuracy:** Up to 0.01mm
- **Laser Speed:** 3000mm/min
- **Laser Wavelength:** 455nm
- **Minimum Spot Size:** 0.2x0.2mm
- **Focal Length:** Manual control, 20-120mm range (best at 50mm)
- **Offline Engraving:** Supports direct engraving from a TF card.
- **One-Button Operation:** Simple control for preview, start, pause, or stop.

## Easy Height Adjustment

After raised the engraving machine rotary (not included) can be easily placed.



*Figure 4: The fully enclosed design ensures safety, low noise operation, and supports offline engraving.*

# Compact & Capability

Laser accuracy 0.01mm for HD reprint



Figure 5: Easy Height Adjustment allows for engraving larger or circular items with an optional rotary attachment.

## 4. SETUP

Setting up your WAINLUXPRO K10 is straightforward. No assembly is required, making it ready to use quickly.

### 4.1 Initial Connection

You can connect the engraver to your computer or mobile device via USB or Wi-Fi.

- **USB Connection:** Connect the machine to your computer using the provided USB cable.
- **Wi-Fi Connection:** For wireless operation, ensure your computer or mobile device is connected to a 2.4G Wi-Fi network.

## 4.2 Software Installation

The K10 is compatible with CutLabX, Lightburn, and LaserGRBL. CutLabX is the self-developed APP with continuous updates.

- **For Mac/Windows:** Download the appropriate software and drivers from the official WAINLUXPRO website (refer to the user guide for the exact URL).
- **For Mobile (Android/iOS):** Search for "CutLabX" in your device's app store to download and install.

Your browser does not support the video tag.

*Video 1: Demonstrates the software usage for the K10, including installation and basic functions.*

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*Video 2: A full version operation tutorial for the K10, covering comprehensive setup and usage.*

## 5. OPERATING INSTRUCTIONS

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Operating the WAINLUXPRO K10 involves preparing your material, setting up the design in the software, and initiating the engraving process.

### 5.1 Material Preparation & Focusing

1. Place your desired material within the engraving area. The K10 can engrave on paper, cork, plastic, leather, cloth, cardboard, and other non-transparent materials. For transparent materials like acrylic or glass, colored paper (not included) must be used.
2. Manually control the focal length by rotating the laser knob until the laser beam is focused to the smallest spot on the material surface. The best focal length is 50mm.

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*Video 3: Guide on how to achieve the best laser focus for optimal engraving results.*

### 5.2 Software Interface & Design

The CutLabX software allows you to create and import designs for engraving.

- **Text Editor:** Input text, choose fonts, and adjust text arrangement (horizontal/vertical).
- **QR Code/Barcode:** Generate QR codes or barcodes from text/numbers.
- **Shapes:** Draw various shapes directly within the software.
- **Image Import:** Import images (e.g., JPG) for engraving.
- **Parameter Settings:** Adjust engraving parameters such as speed, power, and interval based on the material.
- **Color Layer Definition:** Define different color layers for complex engraving patterns.

- **Alignment Tools:** Use tools like Align Up, Align Down, Mirror Horizontal, Mirror Vertical to precisely position your designs.

### 5.3 Engraving Process

1. After setting up your design and parameters, use the preview function to observe the rectangular path of the laser and ensure correct carving position.
2. Initiate engraving using the one-button operation on the machine or the software interface.
3. The integrated LED indicator will display the signal once operation begins.
4. You can pause or stop the carving process at any time using the multifunction key.

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*Video 4: Detailed explanation of the K10 Multi-Function Keys and their use for both 3W and 5W machines.*

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your WAINLUXPRO K10.

- **Cleaning:** Keep the engraving area and laser lens clean from dust and debris. Use a soft, dry cloth for cleaning.
- **Fan:** The built-in fan helps dissipate heat and fumes. Ensure the fan vents are not obstructed.
- **Storage:** Store the engraver in a dry, dust-free environment when not in use.

## 7. TROUBLESHOOTING

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If you encounter issues with your WAINLUXPRO K10, refer to the following common solutions:

- **Software/App Issues:** If the mobile app or PC software crashes or experiences errors, try restarting the software and the machine. Ensure you have the latest version of the software installed.
- **Connection Problems:** Verify USB cable connection or Wi-Fi network stability. Ensure your device is connected to the correct 2.4G Wi-Fi network.
- **Engraving Quality:** Adjust laser power, speed, and focal length settings according to the material being engraved. Ensure the material is flat and properly positioned.
- **Safety Warnings:** If the machine displays