LaserPecker L2-KDR88

LaserPecker LP2 Laser Engraver User Manual

Model: L2-KDR88 | Brand: LaserPecker

Introduction

The LaserPecker LP2 is a portable and versatile laser engraving machine designed for a wide range of materials. Utilizing advanced galvo technology, it offers high-speed engraving and precise detailing, making it suitable for both hobbyists and professionals. Its compact design and multiple operating modes provide flexibility for various engraving projects.

Package Contents

- Laser Unit
- Versatile Electric Roller (3rd Axis)
- Electric Stand
- Conical Protective Cover
- Adapter
- Laser Safety Glasses
- 2 x Type-C Cables
- English Manual

Setup

Before operating your LaserPecker LP2, ensure all components are present and correctly assembled. Always wear the provided laser safety glasses during operation to protect your eyes. Operate the device in a well-ventilated area to disperse any fumes generated during engraving.

Figure 1: LaserPecker LP2 Laser Engraver with included accessories.

Initial Assembly

1. Attach the laser unit to the electric stand. Ensure it is securely fastened.
2. Connect the power adapter to the laser unit and a power outlet.
3. Install the LaserPecker app on your smartphone or PC. The app provides intuitive controls and design features.

Figure 2: Simple plug-and-play assembly of the LaserPecker LP2.

Operating Modes

The LaserPecker LP2 offers multiple operating modes to accommodate diverse engraving needs and materials.

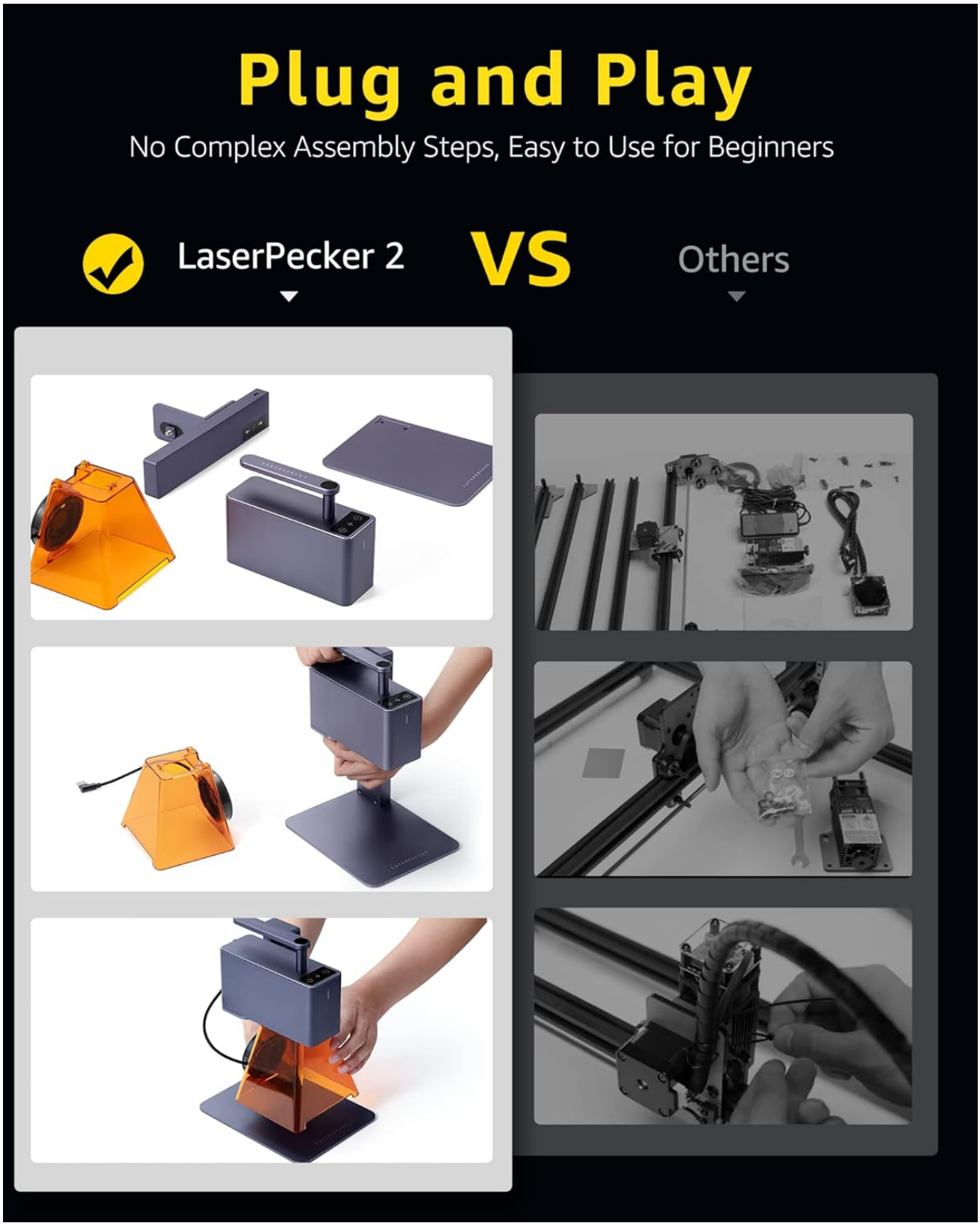


Figure 3: Overview of the four primary engraving modes.

1. Desktop Engraving

For flat surfaces, place the material directly under the laser unit on the base. Adjust the laser height to 11 cm (4.33 inches) for optimal focus. The included conical protective cover helps filter laser light for safety.

2. Rotary Engraving (Cylinder Mode)

Utilize the versatile electric roller for engraving cylindrical objects like tumblers or pencils. The roller rotates the object, allowing for seamless 360° engraving. This mode is ideal for personalized drinkware or pens.

Video 1: Demonstrates the LaserPecker LP2's capabilities, including rotary engraving on cylindrical objects.

3. Trolley Mode (Slab Mode)

For extended engraving lengths on flat surfaces, the laser unit can be mounted onto the versatile electric roller (acting as a trolley). The unit moves along the surface, allowing for engraving lengths up to 196 inches (width remains 4 inches). This is suitable for long planks or large signs.

4. Handheld Engraving

The innovative handle design allows the laser unit to be used handheld for engraving larger or irregularly shaped objects that cannot fit on the stand. This mode provides flexibility for creative projects on various surfaces, such as furniture or large art pieces.

Video 2: Showcases the portability and handheld functionality of the LaserPecker LP2.

Supported Materials

- **Can Engrave:** Paper, Cardboard, Wood, Leather, Coated Metal, Brushed Stainless Steel, Acrylic.
- **Can Cut:** Wood, Paper (thickness within 0.2 inches).
- **Cannot Engrave:** Pure Metal, Shiny Metal (e.g., gold, silver, copper), Transparent Materials (e.g., clear glass, clear acrylic). For light-colored or transparent materials, paint/spray the surface black before engraving and wipe clean after the job is done.

Engraving Quality & Speed

The LP2 utilizes advanced galvo technology for superior performance:

- **High Speed:** Max engraving speed of 1417 inches/min (36000 mm/min) and frame/graphic preview speed of 8858 inches/min (225000 mm/min).
- **Precision:** A 0.05 mm compressed laser spot ensures fine details and high accuracy.
- **Resolution Options:** Choose from 1K, 1.3K, or 2K resolution for perfect detail levels, allowing for realistic and intricate designs.

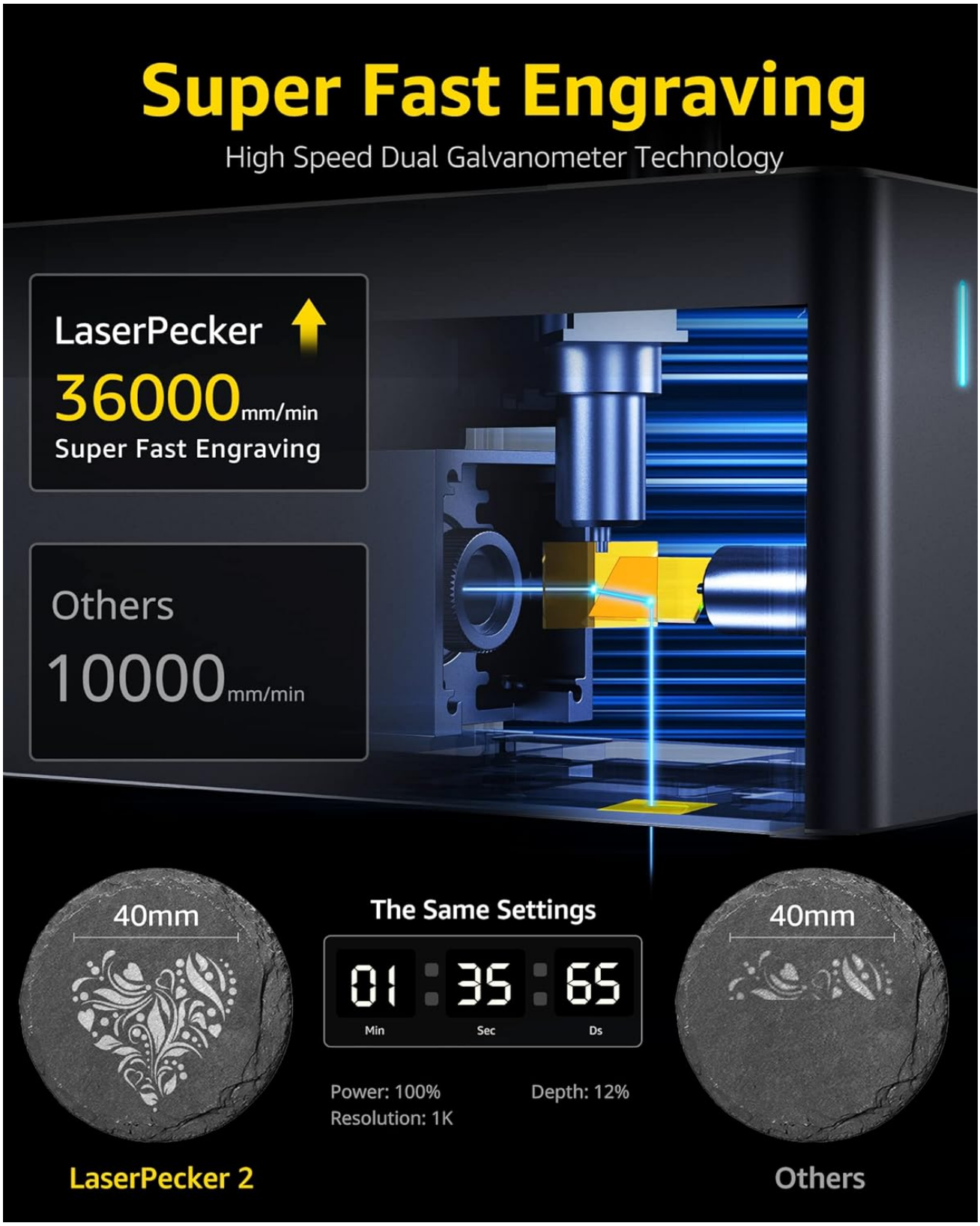


Figure 4: Speed comparison highlighting the LP2's fast engraving capabilities.

Figure 5: Dual lens focusing technology ensures high resolution and fine detail.

Maintenance

To ensure the longevity and optimal performance of your LaserPecker LP2, regular maintenance is recommended:

- Keep the laser lens clean using a soft, lint-free cloth.
- Store the device in a dry, dust-free environment when not in use.
- Avoid exposing the device to extreme temperatures or direct sunlight.

Troubleshooting

If you encounter issues with your LaserPecker LP2, consider the following common solutions:

- **Connection Issues:** Ensure the device is properly connected to power and your smartphone/PC via Bluetooth or cable. Restart the app and the device.
- **Engraving Quality:** Verify the laser distance is 11 cm (4.33 inches). Check material settings in the app (power, depth, passes) and adjust as needed.
- **Fumes/Odor:** Ensure adequate ventilation. Use the conical protective cover to direct fumes towards an exhaust fan or open window.

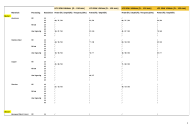
Specifications

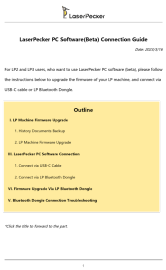
Feature	Detail
Product Dimensions	5.91 x 5.91 x 8.66 inches
Item Model Number	L2-KDR88
Item Weight	10.43 pounds
Manufacturer	LaserPecker
Country of Origin	China
Date First Available	March 2, 2022

Warranty & Support

The LaserPecker LP2 Laser Engraver comes with a 12-month warranty from the date of purchase. For detailed instructions, troubleshooting, or warranty claims, please refer to the official User Manual (PDF) available online or contact LaserPecker customer support.
User Guide (PDF): Download Here
User Manual (PDF): Download Here

Related Documents - L2-KDR88

	LaserPecker 3 FAQ and Parameter Suggestions Frequently asked questions and parameter suggestions for the LaserPecker 3 laser engraver, covering materials, connection, troubleshooting, and engraving settings. Available in English, German, French, and Italian.
	LaserPecker LP5 Material Settings Guide | Engraving & Cutting Parameters Comprehensive material settings for LaserPecker LP5 laser engraver, providing detailed power, depth, and frequency parameters for various materials including metals, wood, paper, plastic, and leather across different processing types and resolutions.

	[LaserPecker LP5 User Manual: Safety, Operation, and Maintenance Guide] Comprehensive user manual for the LaserPecker LP5 laser engraver and cutter. This guide covers essential safety precautions, software setup for app and PC, detailed operation instructions, maintenance procedures, and technical specifications for optimal use.
	[LaserPecker 4 User Manual - Your Guide to Precision Laser Engraving] Explore the LaserPecker 4 User Manual for comprehensive instructions on setup, operation, and maintenance of this advanced laser engraving device. Learn about its features, safety guidelines, and specifications.
	[Operating LaserPecker LX1 with LightBurn Software Guide] A comprehensive guide on how to operate the LaserPecker LX1 laser engraver using LightBurn software, covering firmware updates, software installation, device connection, and parameter settings.
	[LaserPecker PC Software Connection Guide] A comprehensive guide for LaserPecker LP2 and LP3 users on how to connect the PC software (beta). It covers firmware upgrades for both the LP machine and the Bluetooth dongle, as well as connection methods via USB-C cable and Bluetooth.