

[Manuals.plus](#) /

› [LaserPecker](#) /

› LaserPecker LP5 Dual Laser Engraver Instruction Manual

LaserPecker LP5

LaserPecker LP5 Dual Laser Engraver Instruction Manual

Model: LP5

1. INTRODUCTION

Welcome to the LaserPecker LP5 instruction manual. This document provides essential information for the safe and effective operation, setup, and maintenance of your LaserPecker LP5 dual laser engraver. The LP5 features a 20W Fiber and Diode dual laser system, an auto-alignment camera, and Class 1 safety certification, making it suitable for various engraving and cutting tasks on a wide range of materials.



Image 1.1: The LaserPecker LP5 Dual Laser Engraver with its safety enclosure. This image shows the compact and enclosed design of the engraver, highlighting its integrated safety features.

2. SAFETY INFORMATION

The LaserPecker LP5 is designed with Class 1 laser safety, ensuring a fully enclosed operation with zero exposed laser beams. This design makes it safe for use in various environments, including homes and workspaces, even with children and pets present. Always adhere to the following safety guidelines:

- Ensure the safety enclosure is properly closed during operation.

- Do not attempt to bypass or modify any safety features.
- Operate the device in a well-ventilated area to manage fumes from certain materials.
- Keep flammable materials away from the engraving area.
- Unplug the device when not in use or during maintenance.

When Safety Matters Most

Rigorously tested and certified, the LP5 enclosure system fully complies Class 1 safety, safe with kids and pets around

Class 1



Image 2.1: The LaserPecker LP5 highlighting its Class 1 safety certification. This image emphasizes the secure, enclosed design that prevents laser exposure during operation.

3. SETUP

3.1 Unboxing and Initial Placement

1. Carefully remove all components from the packaging.
2. Place the LP5 on a stable, level surface. Ensure adequate space around the unit for ventilation and operation.

3.2 Power Connection

1. Connect the power adapter to the LP5 and then to a suitable power outlet.
2. Press the power button to turn on the device.

3.3 Software Installation and Connection

1. Download the official LaserPecker LDS software from the manufacturer's website or app store.
2. Install the software on your computer or mobile device.
3. Follow the on-screen instructions within the software to connect your device to the LP5 via Bluetooth or USB.

3.4 Auto-Alignment Camera Setup

The LP5 features a 5MP auto-alignment camera for precise material detection. This system automatically detects the edges of your material with 0.1mm precision, simplifying project setup.

1. Place your material on the engraving plate inside the enclosure.
2. The camera will automatically detect the material's position and size within the software interface.
3. Adjust the material or the design within the software as needed.

Smart Camera Makes Engraving Easier

Place materials on the plate and let the smart system handle the rest.



Image 3.1: Close-up view of the LaserPecker LP5's smart camera system. This image illustrates the camera's function in automatically detecting material edges for precise engraving.

4. OPERATING INSTRUCTIONS

4.1 Material Preparation and Placement

1. Ensure your material is clean and free of debris.

2. Place the material securely on the engraving plate. For irregular shapes, use the auto-alignment camera to confirm placement.
3. Close the safety enclosure door before starting any operation.

4.2 Using the LDS Software

The LDS software provides comprehensive control over your engraving and cutting projects.

- **Design Import:** Import your designs (images, vectors, text) into the software.
- **Parameter Adjustment:** Adjust laser power, speed (up to 10,000mm/s), and passes based on your material and desired effect.
- **Grayscale Embossing:** Utilize depth control features to create 3D relief art.
- **Smart Filling:** Optimize engraving paths for efficiency.
- **Material Test Array:** Use this feature to test different parameters on a small area of your material to achieve optimal results and reduce waste.

4.3 Dual Laser Operation

The LP5 integrates two distinct 20W lasers for versatility:

- **20W Fiber Laser:** Ideal for engraving and cutting metals (e.g., gold, steel) and certain plastics.
- **20W Diode Laser:** Suitable for engraving and cutting non-metals such as wood, acrylic, leather, glass, and stone.

Select the appropriate laser type within the LDS software based on your material.

More Powerful



Deep Engraving



Grayscale Embossing



Metal Cutting

The Smart Dual-Laser

20W
Fiber Laser

20W
Diode Laser



Portable Design



For Almost All Materials



The Power of

Variable Text



**User-friendly
Software & App**

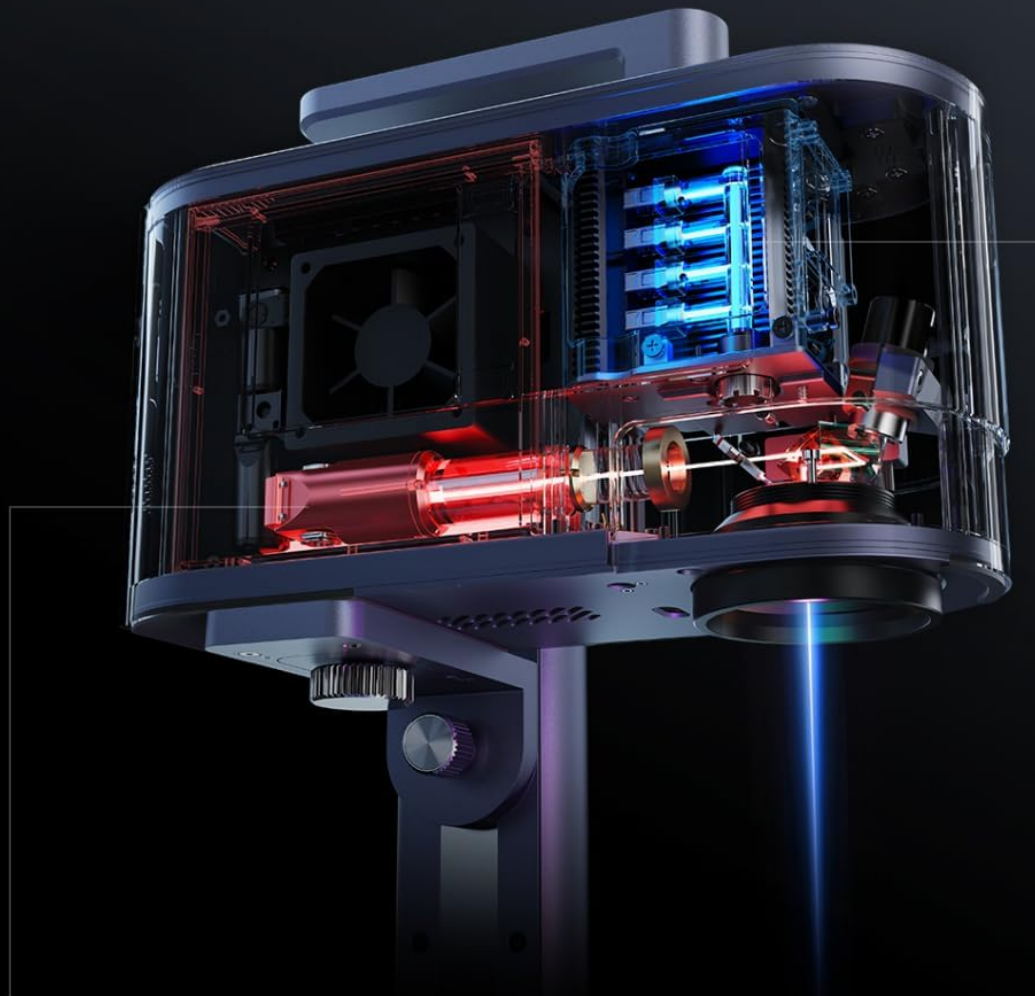
10000mm/s



**Plug. Tap.
Engrave.**

Image 4.1: An overview of the LaserPecker LP5's capabilities, including deep engraving, grayscale embossing, and metal cutting. It also highlights the dual laser system and portability.

Dual 20W Lasers The Game-changing Engraver



20W Fiber

For Metals & Plastics

20W Diode

For Wood, Acrylic, Leather,
Glass, Stone, etc.

Image 4.2: Diagram illustrating the dual 20W laser system of the LaserPecker LP5, showing the fiber laser for metals/plastics and the diode laser for various non-metals.

More Powerful Engraving Abilities



Deep Engraving



3D Grayscale Embossing



Metal Cutting

Image 4.3: The LaserPecker LP5 demonstrating its powerful engraving abilities, including deep engraving, 3D grayscale embossing, and metal cutting on various materials.

5. MAINTENANCE

5.1 Cleaning the Exhaust System

The LP5 features a powerful dual exhaust system designed to remove smoke and fumes generated during engraving. Regular

cleaning is essential for optimal performance and air quality.

1. Ensure the device is powered off and unplugged before cleaning.
2. Locate the exhaust vents and filters.
3. Gently clean any accumulated dust or debris from the vents and filters using a soft brush or a vacuum cleaner with a brush attachment.
4. Replace filters as recommended by the manufacturer.

5.2 General Cleaning

- Wipe the exterior of the device with a soft, dry cloth.
- Avoid using abrasive cleaners or solvents that could damage the surface.
- Keep the engraving area clear of material scraps and dust.

Powerful Dual Exhaust System

Effectively removes smoke generated during engraving to ensure a safe environment and achieve optimal engraving effects.



Image 5.1: Close-up view of the LaserPecker LP5's powerful dual exhaust system. This image highlights the fans responsible for smoke removal during engraving.

6. TROUBLESHOOTING

If you encounter issues with your LaserPecker LP5, refer to the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the power adapter is securely connected to both the device and a working power outlet.

- **Connection Issues:** Verify that Bluetooth is enabled on your device and the LP5, or that the USB cable is properly connected. Restart both the LP5 and your control device.
- **Engraving Quality Issues:**
 - Check that the material is correctly positioned and flat.
 - Adjust laser power and speed settings in the software. Refer to the Material Test Array feature for optimal parameters.
 - Ensure the laser lens is clean.
- **Software Malfunction:** Close and restart the LDS software. If the issue persists, reinstall the software.
- **Unusual Noises/Smells:** Immediately power off and unplug the device. Contact customer support.

For persistent issues or problems not listed here, please contact LaserPecker customer support.

7. SPECIFICATIONS

Feature	Detail
Model	LaserPecker LP5
Laser Type	20W Fiber & Diode Dual Laser
Laser Safety Class	Class 1
Engraving Speed	Up to 10,000mm/s
Engraving Precision	0.0027mm
Camera	5MP Auto-Alignment Camera
Software	LDS Software
Weight	6.02 kg
Materials (Fiber Laser)	Metals (gold, steel), certain plastics
Materials (Diode Laser)	Wood, acrylic, leather, glass, stone, etc.
Cutting Capacity	20mm wood, 15mm acrylic, 0.5mm metal sheets
Material	Acrylic, Acrylonitrile Butadiene Styrene, Plastic

8. WARRANTY INFORMATION

For detailed warranty information regarding your LaserPecker LP5, please refer to the official LaserPecker website or the warranty card included with your product. Warranty terms and conditions may vary by region and purchase date. It is recommended to register your product upon purchase to ensure full warranty coverage.

9. CUSTOMER SUPPORT

If you require technical assistance, have questions about operation, or need to report a problem, please contact LaserPecker customer support through the following channels:

- **Official Website:** Visit the LaserPecker official website for FAQs, support resources, and contact forms.
- **Email Support:** Refer to your product documentation for the specific support email address.
- **In-App Support:** The LDS software may include direct support options.

When contacting support, please have your product model (LP5) and serial number ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question