



# LaserPecker LP5

使用说明书 | User Manual | 使用説明書  
取扱説明書 | 사용자매뉴얼

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# Safety Information

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## 1 General Safety Information

- Only use this machine in accordance with these instructions and all applicable local and national laws and regulations.
- Read and get familiar with all safety precautions and procedures before using the machine. Strictly follow all safety precautions. Ensure that the machine is properly assembled and is working properly.
- DO NOT allow use by minors, by untrained personnel, or by any personnel suffering from any physical or mental limitation that might affect their ability to use the machine safely and properly.
- Ensure that the workspace is clean and flat.
- Keep the area around the machine dry, well ventilated, and environmentally controlled to 50–95°F (10–35°C) and 10–95% humidity.
- DO NOT leave the machine unattended during operation.

In the event of the following situations, please stop using the machine and cut off the power immediately:

- A burning smell is detected coming from the machine.
- Open flames or sparks are observed being generated from the engraving material.
- Any components of the machine appear to be damaged or malfunctioning.
- Unexpected cessation of machine operation for no clear reason.
- Abnormal sounds, smoke, or unusual lighting are emitted from the machine.

# Safety Information

## 2 Laser Safety

- The LP5 Basic is a Class 4 laser system. When assembled and locked with a safety enclosure, the laser system is Class 1.
- The active laser and its reflections can rapidly cause fires, burns, and permanent vision damage. Under normal circumstances, the laser is blocked by the protective cover or safety enclosure during operation. Before using the machine, ensure that the protective cover or safety enclosure is installed properly. If it cannot fully cover the object, you need to wear safety goggles that can shield your eyes from the laser beams.
- During operation, the materials being engraved or cut may release toxic and harmful gases or fumes. Depending on the type and composition of the engraving/cutting materials, these emissions can pose health and environmental risks. To ensure safe use, it is recommended to use this machine with an air purifier to effectively absorb and filter any toxic or harmful gases and fumes generated.
- DO NOT use this laser in dewy, dusty, or high-EMI conditions where the active laser might easily be deflected or reflected.

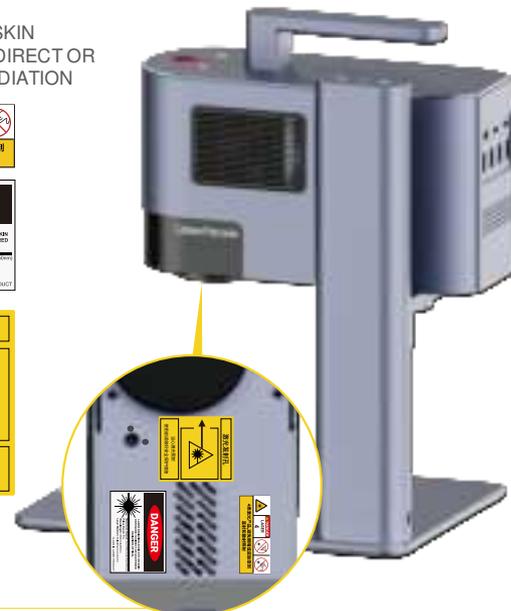
## 3 Emergency Measures

- Only use the machine with stable and compatible power sources. This machine requires a 24V/7.5A power adapter. Failure to use the compatible power adapter can result in machine malfunction.
- Do not allow any electronic component to become wet and always fully disconnect the machine from power before undertaking cleaning, adjustment, maintenance, or repair.

## Warning Labels

Warning and instruction labels are put on places that may pose a risk before or during operation. If the label is broken or lost, you can use the following templates to print and apply the label you need to instruct others' operations.

AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION



## Software Download

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### Download App

Scan the QR code below to download and install the **LaserPecker Design Space** App.

Please follow the operation guide and read the warnings and precautions in the App carefully.



LaserPecker Design Space

### Download PC Software

Please visit <https://www.laserpecker.net/pages/software> to download the PC software.



## Getting Help

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### Contact Us

If you encounter any issues, please do not hesitate to reach out to our customer support team at [support@laserpecker.com](mailto:support@laserpecker.com)

YouTube: [@LaserPecker](#)

Facebook Group: [@LP5 Official Group](#)

### Video Tutorials

Scan the QR code below to learn how to use the machine.



## Package List

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Laser Unit x 1



Electric Stand x 1



Base Plate x 1



Hex Key H1.5 x 1 H2 x 1 H2.5 x 1  
M2.5 Screws x 4



Conical Protective Cover x 1



Power Cable x 1/ Power Adapter x 1



Cable Organizer x 1



Security Key x 2



Cable 1.5m x 1 & 1.0m x 1

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Listed below are free gifts. Items are subject to change without notice.



Safety Goggles x 1



L-shaped Positioner x 2



Material Pack x 1



USB Flash Drive x 1



Pipe x 1

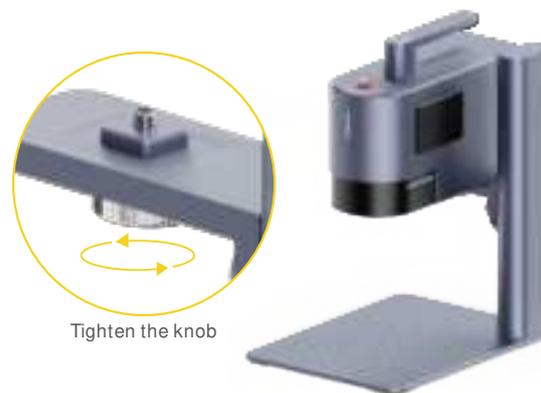
## Quick Assembly

### Electric Stand Assembly

- 1 Use the Hex key H2.5 to install the 4 M2.5 screws at the bottom of the Base plate to secure the Electric stand.



- 2 Attach the Laser unit to the Electric stand by turning the knob counter-clockwise.



可通过旋紧悬臂下方的螺丝调节主机平衡

## Quick Assembly

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### Conical Protective Cover Installation

1 Place the Conical protective cover below the Laser unit. Secure the cover to the Laser unit by tightening the 2 screws on top of the cover.

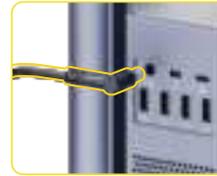
2 Attach the Front light filter.



## Quick Assembly

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### Cable Connection



Connect the power cable and power adapter to a power supply.



Connect the Conical protective cover to the port.

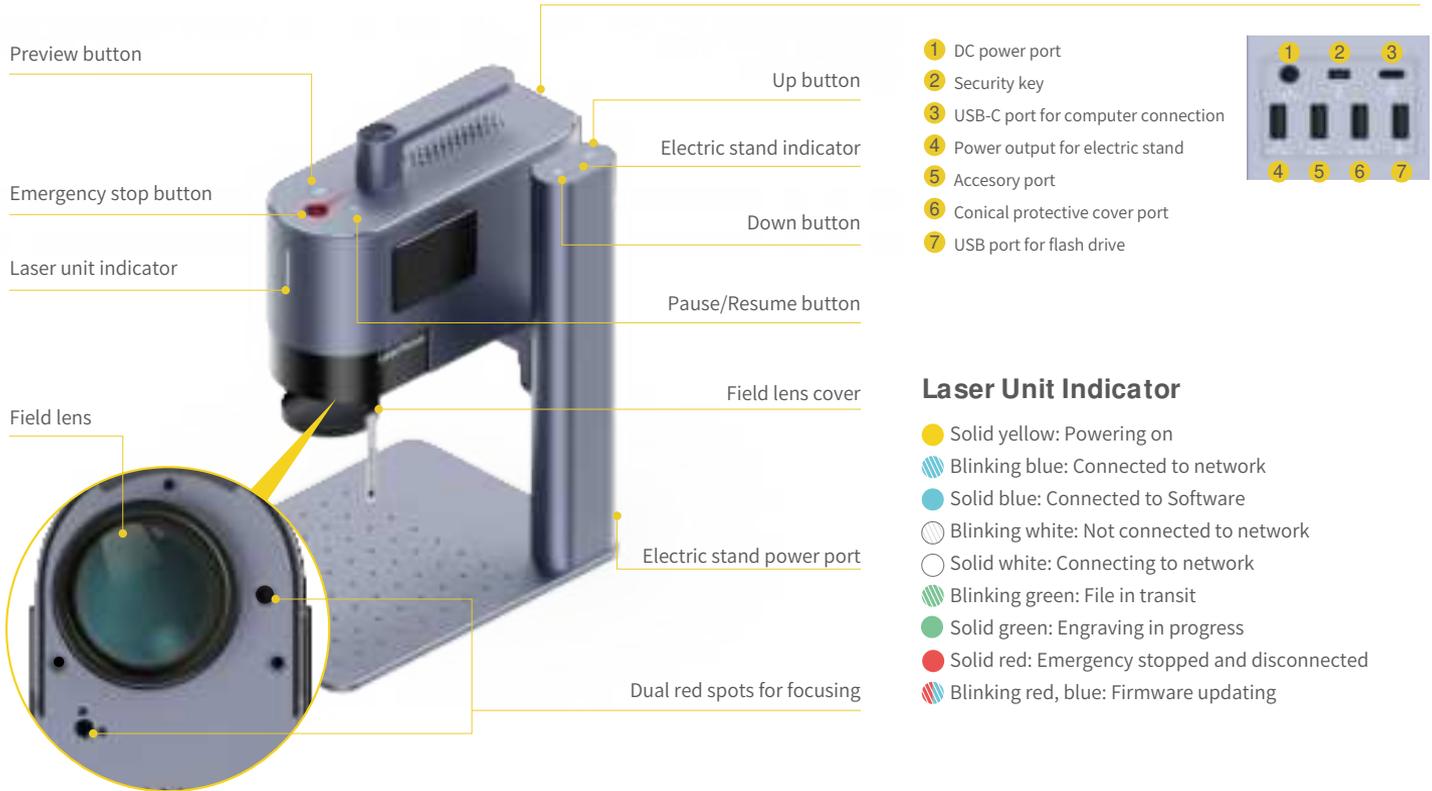


Connect one end of the 1.0m cable to the power port on the Electric stand.



the other end to the power output on the Laser Unit.

# Component Introduction



## Before using the product

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### Check the Security Key

Ensure the Security key is inserted properly before use.

Please note the machine will not work if the Security key is not inserted. An error prompt will pop up in the App.



### Install the Pipe

The Protective cover has a built-in exhaust fan, which can be connected to a pipe or used with an air purifier.

\*The air purifier is not included in the package. Purchase one separately if needed.



## Connect to App

### Connect to App through Wi-Fi (First time WiFi setup or changing the network)

Open the LaserPecker Design Space App, click the "+" in the upper right corner, select the machine model 'LP5' and follow the instructions to configure the WiFi network for the machine.

Both the machine and the phone must be under the same 2.4GHz WiFi network.

**The Laser unit indicator is in solid blue if the connection is successful.**

-  Blinking blue: Connected to network
-  Solid blue: Connected to App
-  Blinking white: Not connected to network
-  Solid white: Connecting to network



## Connect to PC Software

### Option 1: Connect directly via a USB cable



### Option 2: Connect to PC Software through WiFi(First-time WiFi setup or changing the network)

- 1 Before setting up the wireless connection, you must first connect the machine to a computer using a USB cable. This USB connection allows you to configure the WiFi settings on the machine.



- 2 After connected, entering the machine setting page on the upper right corner in the software. Select 'WiFi setting' and follow the instructions to configure the WiFi network for the machine.

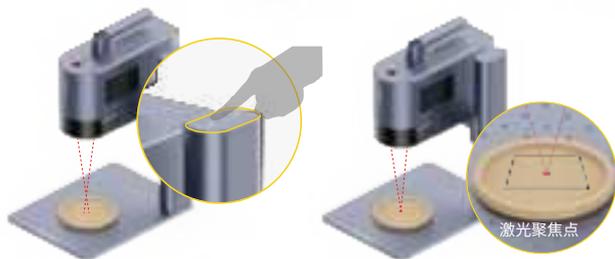


Both the machine and the computer must be under the same 2.4GHz WiFi network.

## Using the product

### Dual Red Spots Focusing (Manual Focusing)

Place the material on the Base plate. Initiate the preview Mode through APP or PC software to observe the two spots. Adjust the height of the Electric stand until the two red spots coincide, and the focus is successfully set.



### Emergency Stop

If errors or machine faults occur during material processing, press the emergency stop button to disconnect and stop the processing.



### Engrave using USB Flash Drive

After inserting the flash drive into the machine, the Gcode files (.Jpb) on the drive can be selected using the PC software or mobile App to preview and engrave.



### Operation access control

To prevent others from using the machine, remove the security key to lock the processing and related functions. Insert the key to unlock the processing and related functions.

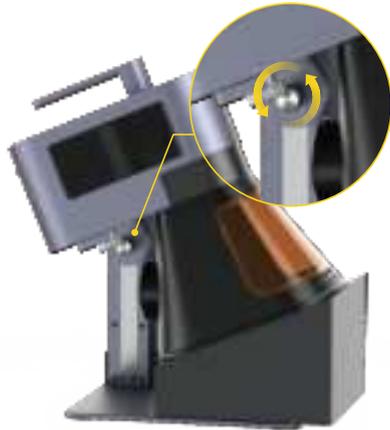


# Multiple application scenarios

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## Bevel Engraving

Loosen the electric stand knob clockwise to adjust the angle of the Laser unit.  
Tighten the knob counterclockwise to fix the laser unit at the desired angle for bevel engraving.



## Using Accessories

If accessories are needed, purchase them separately and refer to the accessory instructions for installation.

Rotary Extension

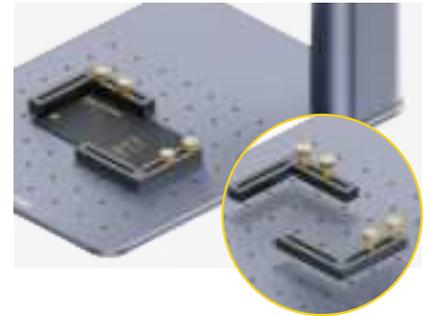


Slide Extension



## Batch Processing

During batch processing, the L-shaped positioner can fix materials in the same position every time. Secure the positioners to the base plate by tightening the screws.



# Maintenance

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## Field Lens Maintenance

If laser power attenuation occurs, for example, engraved patterns are shallow or uneven, the Field Lens may get dirty. Clean it with the lint-free cloth moistened with alcohol.



## Dust Filter Cleaning

Remove the cover on the left side of the Laser unit to clean the dust filter if there is dust buildup.

\*The filter on the right side of the Laser unit is an air intake filter and cannot be removed.



## Conical Protective Cover Exhaust Fan Cleaning

If smoke runs out of the protective cover, the exhaust fan and smoke outlet may be blocked due to dust. Unscrew the fan from the cover using a screwdriver and clean them to ensure proper smoke exhausting.



## Technical Specifications

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<b>Size</b>	Laser Unit: 255 x 98 x 183 mm   Electric Stand: 198 x 286 x 323 mm   Conical Protective Cover: 167 x 231 x 160 mm
<b>Net Weight</b>	Laser Unit: 3.36 kg   Electric Stand: 2.28 kg   Conical Protective Cover: 0.38 kg   Total Weight: 6.02kg
<b>Laser Source &amp; Power</b>	20W 450nm Blue Diode Laser   20W 1064nm Fiber Laser
<b>Working Area</b>	160 x 120 mm (Ellipse)   100 x 100 mm (Square)
<b>Shell</b>	Aluminum Alloy
<b>Preview Mode</b>	Outline Preview / Center Point Preview
<b>Supported File Formats</b>	PC Software: G-code / JPG / PNG / BMP / SVG / DXF etc.   Mobile App: G-code / JPG / PNG / SVG
<b>Connectivity</b>	USB, Wi-Fi
<b>Supported OS</b>	Support iOS 9.0+, Android 7.0+, MacOS 10+, Windows 10+, Compatible with LightBurn
<b>Input Power</b>	DC(24V, 7.5A)   AC(100-240V, 50-60Hz) 180W
<b>Environmental Temperature</b>	Temperature Range: 10°C - 35°C   Humidity Range: 10% - 95%RH (Non-condensing)
<b>Cooling System</b>	Semiconductor Cooling + Air Cooling
<b>Safety Certification</b>	CE / ROHS / FCC / FDA / NCC / KC / UKCA / TELEC / SRRC

# Statements and After-Sales Services

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## Disclaimer

Thank you for choosing LaserPecker LP5! This manual relates to your safety, legal responsibilities and rights. Please read and get familiar with all safety precautions and procedures before using the product. If you do not use the product according to the instructions and requirements of the manual, or mis-operate the product due to misunderstanding, etc., LaserPecker (Hingin Technology Co., Ltd.) shall bear no responsibility for any loss resulting therefrom.

Given the conditions and methods of use of this product are beyond the control of LaserPecker, LaserPecker shall not be liable for any of the following consequences, which shall be borne by the user:

- Personal injury, property loss, and product damage caused by improper operation, failure to follow the manual or other uncertainties.
- The work that user created using the LaserPecker product infringes intellectual property rights of the third party or violates relevant laws and regulations.
- Personal injury, property loss, and product damage that may arise during the installation, transportation, storage, use, maintenance, and disposal of this product.
- All official LaserPecker materials have undergone safety testing and are compatible with this product. LaserPecker shall not be liable for material safety or engraving quality if the user uses non-LaserPecker official materials.

## Copyright

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## FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

**LaserPecker**