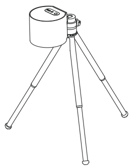
LaserPeck Engraving Machine Instruction Manual



Product And Accessories List

- The Standard Version

The Host

Goggles

The Tripod

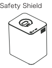
Type-C Cable

The Charger

- Accessories (To be purchased separately)

Ultrasonic Detector

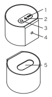
Safety Shield



Product Introduction

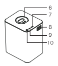
- The Host

1. Type-C Interface
2. Bluetooth Connection Indicator
3. Power Switch
4. Tripod Mounting Hole
5. Laser Window



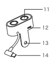
- Safety Shield

6. Host Location
7. USB Interface (Power Output Interface)
8. Fan Exhaust
9. Type-C Interface (External Power Interface)
10. Switch Button



- Ultrasonic Detector

11. Ultrasonic Outlet
12. Type-C Interface (External Power Interface)
13. Fixed Hole
14. USB Power Line (Power Supply To The Host)



Instructions Before Use

Eye Protection
Each Laserpecker is equipped with safety goggles, it is safer to wear it when operating.

Password Lock
When using the device for the first time, you need to enter the security code to start the work.

Ultrasonic Detector
In the process of engraving, the Laserpecker will suspend operation immediately when an object enters the engraving range to ensure user safety.

Motion Detection
Equipped with sensitive G-senser, the Laserpecker will suspend operation immediately when accidental movement during operation is detected.

Overheating Suspended
The Laserpecker will suspend operation if the detected internal temperature is close to the destructive threshold.

Safety Shield
With air purification module, purify the smoke from engraving. By weakening the light source, the work state can be observed with naked eyes.

APP Download Path

- You can search "LaserPecker" in apple APP store, google play store and other app markets to get the APP.
- You can download the APP in a suitable way by using the following GR code.

Note: after downloading and installing the APP, please read the warnings and precautions in the APP carefully to ensure normal use of the product.

Technical support

- This product we support the global online technical support services, if you encounter any problems in the use of the process,
- please Email to laserpecker@hingin.com and we will reply to you as soon as possible.
- Customer service time: 9:30-19:30 from Monday to Friday.
- If you use it for the first time, a prompt will pop up asking you to register first.Or click the menu icon in the upper right corner → account to register or modify the user account security code.
- Note: the safety code is 6 digits, which shall be input before printing preview and engraving. Please keep it properly.
- If you are not using a protective cover, please first open the free mode consent disclaimer, otherwise cannot carry on engraving.
- Specific APP operation steps can be referred to [APP user manual].
- After use, please press the power switch until the indicator is off, and then pull out the USB cable and power supply.

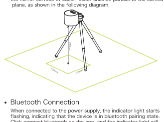
Operation Diagram

- Power On

Prepare an adapter with a type-c interface above 5V/2A. It is recommended to use the power adapter that comes with this product or a charger, power bank, other forms of power supply certified above QC2.0, as shown in the following diagram.

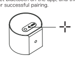
- Install Tripod

Without the safety shield, the tripod should be installed at the screw hole of the host machine, and adjust the height of the tripod to right position(200 (+/-5)mm is recommended), and the mirror surface of LaserPecker shall be parallel to the carved plane, as shown in the following diagram.



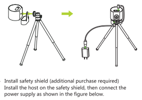
- Bluetooth Connection

When connected to the power supply, the indicator light starts flashing, indicating that the device is in bluetooth pairing state. Click connect bluetooth on the app, and the indicator light will stay on after successful pairing.

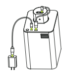


- Press the button to pause or continue the engraving.

- Install the ultrasonic detector (additional purchase is required). Install the tripod after aligning the installation holes of the host and the ultrasonic detector, as shown in the diagram below. After the ultrasonic detector is connected to the external power supply, the short line will be connected to the host and ultrasonic detector. Ranging parameters detected by ultrasonic detector can be viewed in the laser adjustment page of APP.



- Install safety shield (additional purchase required) Install the host on the safety shield, then connect the power supply as shown in the figure below.



Product Specification

Size	65*61*53mm
Weight	190g
The Laser Source	Blue laser, at least 10000 hours service life
Laser Source Output Power	Blue laser, power output range can be set at 5%-100%
Appearance	Anodized of aluminium alloy
Color	Red, Black, Gold, Green
Document Transmission	Bluetooth 4.0
Support Document Format	G-Code and JPG
APP Connection Mode	Bluetooth connection
APP Operating System	Support IOS 9.0+/Android 5.0+
The Power Input	type - c (5V、2A)
Operating Temperature Range	0℃ ~ 65℃
Operating Humidity Range	5° C ~ 80° C(Non-condensation)
Safety Certification	IEC 60825-1(Laser level 1 safety specification) CE,RoHS,FCC,FDA CDRH registration, IEC 60825-1(laser level 4)
Patent application	7 patents

Use Safety Guide

- Wear appropriate clothing and safety equipment (e.g. goggles, semi-transparent baffles, skin protective clothing, etc.) before operating the LaserPecker
- Be alert when the laser is emitted.
- Remove the power cord before moving the LaserPecker.
- To avoid possible damage caused by LaserPecker falling, please ensure that both the product and the carved object are placed firmly before use
- Make sure that a protective layer with high melting point (metal, ceramics, etc.) is placed behind the carved object in order to preventunnecessary loss caused by burning through the carved object due to excessive laser intensity during use.
- Avoid children, minors, pets and moving objects that may touch LaserPecker to approach or touch this product.
- Ensure that the engraved material you are using does not release toxic substances during carving.
- Do not place the product in high temperature or humidity environment.
- Do not place flammable or explosive materials around this product.
- Keep the environment ventilated, because the product will produce smoke or pungent smell during carving.
- Ensure that all parts of the machine appearance are intact, and the tripod connection part and the interface of all parts of the host machine are connected properly before starting up. In case of any defect, please stop using immediately.
- Be sure to supply power in strict accordance with the voltage and current specifications on the label.

Cautions

- Please read the use safety guide carefully and keep all the contents in mind for a standard operation.
- This product does not contain any replaceable components. Do not disassemble LaserPecker yourself for any scenario.
- While LaserPecker is working, a laser beam may be emitted, which may cause skin burns.In particular, it can cause serious damage to the eyes of humans or animals (pets).The damage to screens of devices such as phones and pads is also very serious.Proper use and maintenance of the product is extremely important for the safe operation of this product. For the operation and maintenance of this product, please strictly follow the instructions in this manual.
- When operating with LaserPecker, be sure to wear goggles at all times.

Disclaimer

You (including your authorized person) agree to exempt LaserPecker and its substantive owners, directors, employees, agents, distributors, retailers, contractors, or affiliated enterprises from any liability, loss, compensation(including but not limited to product liability, fault liability, liability for breach of contract, etc.) or liquidated damages arising from using LaserPecker in the present or future.

Warning

Please read this document carefully before using the product to understand your legal rights, responsibilities and Safety instructions.

There is a very dangerous laser source component in the shell of this product. When the laser source of LaserPecker is turned on and a beam is emitted, you must avoid direct exposure to the laser beam.

When using this product, if the grounding wire of the power supply (such as the terminal board) does not work effectively, itshall not be plugged into the power supply, otherwise a very dangerous electric shock accident will occur. When the power supply of the product is not connected to the safety ground wire, it may also cause uncertain impact on the laser system;Therefore, make sure the power supply includes a secure ground wire.

LaserPecker is designed for use in a specific place. You must warn and explain the danger of operating the product to anyone who has access to the place with your authorization, and at any time prevent any person without your authorization from approaching or touching LaserPecker without proper safety equipment.LaserPecker shall be kept within the operating area under your control at all times and must be accessed or used by special tools, keys (security codes), locks or other similar security control methods.

This product meets the requirements of class IV laser products. Please operate according to the specifications, otherwise, it will cause damage to skin or eyes. In the actual working state of LaserPecker, for safety, it is still necessary to be vigilant and avoid looking directly at the laser.

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

Copyright

- The copyright of this manual belongs to the software and hardware involved in this product, and all rights belong to Shenzhen Hingin technology Co., LTD. (hereinafter referred to as [Hingin technology]).
- LaserPecker is a registered trademark of Hingin technology.
- Information in this manual is subject to change without notice. And the information in this manual does not constitute a commitment by the company. Please visit our website (https://www.laserpecker.net) for the most timely updates.

Except for the use of the buyer of the product, without the written permission of the company, the contents of this Manual are not allowed to rewrite or forward in any form or for any purpose.

Engraving material limitation

1. Metal, stone, ceramic, glass, and other hard materials cannot be carved directly. Ceramic and glass materials only could be carved when adding a heat transfer layer on the surface.
2. The Laserpecker use a blue laser source with a wavelength of 450nm. Based on the physical characteristics of blue laser, reflective, transmittance, white and blue surfaces are difficult to engrave due to low absorption rate.

Except for the use of the buyer of the product, without the written permission of the company, the contents of this Manual are not allowed to rewrite or forward in any form or for any purpose.

Contact:

Email: laserpecker@hingin.com
Manufacturer: Shenzhen Hingin Technology Co., LTD
Telephone: + 86 0755-28913864

Warranty – Considerations

- To the extent permitted by law, this warranty is exclusive and supersedes all other warranties express or implied or statutory. I n addition, Hingin technology will not be responsible for any accidental, special, indirect or derivative damage (which may originate from use, misuse, non-use or product defects).
- When consumers apply for warranty services, they are obliged to backup all important personal data in advance. During the maintenance process, such as replacement of parts or update of product software version, data will disappear during the maintenance process. Hingin technology will not provide data backup or integrity of relevant data and set value.
- Products enjoy free shipping free maintenance warranty service only within 15 days of the shipment date , 15 days after the shipment date to the warranty period, the courier fee need to be paid.
- Any replacement or repair of the product will retain the remaining warranty period of the original product or the 30 days warranty after replacement.
- For products sold in non-China mainland regions, when the consumer apply for warranty service, due to local laws and regulations, safety standards, customs and maintenance technology and parts inventory, some sold products in some countries and regions cannot send back to Hingin technology for warranty service, the Hingin technology can only provide limited warranty service. Therefore, consumers not in China mainland, regardless of whether they are within the scope of warranty, need to first seek warranty services from the path authorized by the original country of purchase. Inspection and manual handling fees will be charged. If the recipient's country has additional tariffs during delivery, it will be borne by the consumer. Consumers apply for warranty service directly to Hingin technology, will be handled in a similar manner.
- Distributor may sell Hingin technology products to customers outside China mainland, and if any value-added services are provided that aredifferent from this warranty, such services are only valid for the area sold by distributor and have nothing to do with this warranty service.
- Engraving quality is highly correlated with user operation, processing material and processing environmentIt's not under warranty.

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