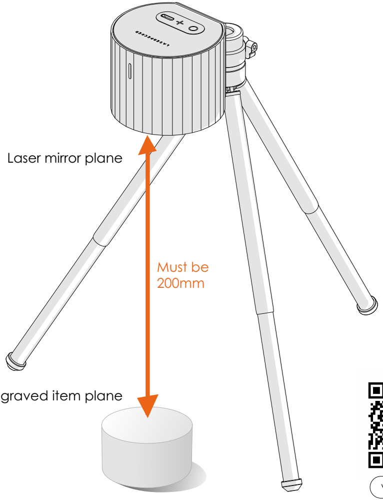
LASERPECKER

L1 Pro Instruction manual



video tutorials

Important notes: The tripod in the package is stretchable, please pull out enough length from the bottom of each foot, to ensure the distance from mirror plane of the laser to the surface of engraved item is 200mm. Otherwise the engraving may fail.

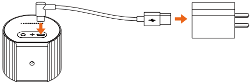
Operation instruction

1.Download app

- Option1:You can search "LaserPecker" in apple APP store, google play store and other app markets to get the APP.
- Option2:You can download the APP in a suitable way by using the following GR code.
- Option3:You can download APP application program at www.laserpecker.net.
- Attention: After downloading and installing the APP, please read the warnings and precautions in the APP carefully to make sure the normal use of this product.

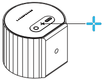
2.Connect the power

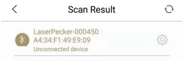
Supply and prepare a 5V/2A or more adapter with TYPE-C interface. It is recommended to use the power adapter provided with this product or charger with QC2.0 or more certification, mobile power supply or other forms of power supply, as shown in the following schematic diagram.



3.Connecting Bluetooth

After connecting Bluetooth to the power supply, the indicator light starts flashing blue, indicating that the device is in a Bluetooth pairing mode. Click Connect Bluetooth on app, and the indicator light turns into a constant bright blue, indicating successful pairing.




Scan Result

LaserPecker-000450
A4:34:F1:49:E9:09
Unconnected device

3.Select the etching content

Select the etching content and select the content to be etched on the app homepage to start etching.

Album Camera Creation Examples

Technical Support

We support global online technical support services for this product. If you encounter any problems in the use process,there are some ways you can get help form us: You can leave massages on our website :https://www.laserpecker.net

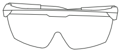
or contact us by Facebook Page : @laserpecker
or official supportive email : laserpecker@hingin.com

Email: support@laserpecker.com

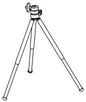
List of product and accessories (standard)

Main machine

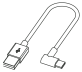
Goggles



Tripod



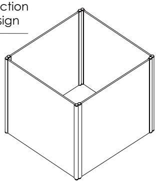
Type-C data line



Magnetic absorption foldable acrylic light shield (to be purchased separately)

Purchase address:www.laserpecker.net

Magnetic suction structure design



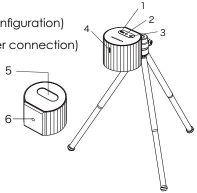
Open state

Product introduction

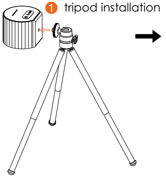
Basic

- Main machine + tripod (standard configuration)

1.Type-C connection (external power connection)
2.Blue connection light
3.Power switch
4.Blue connection light
5.Laser emission mirror
6.Tripod installation hole



Basic assembly operation diagram

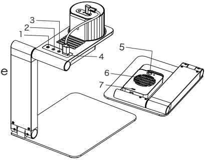


① tripod installation

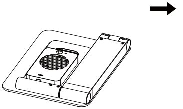
Pro

- Auto-focus electric stand (to be purchased separately)

1.On/off/auto-focus button
2.Manual adjustment of up button
3.Manual adjustment of down button
4.Main machine power supply interface
5.Infrared distance measuring window
6.fan (for blowing smoke)
7.type-c interface
(external power supply access)



Pro Assembly operation diagram

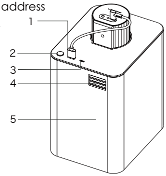


① folded state

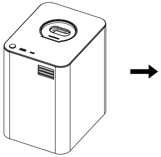
Deluxe

- Smoke filter system protective cover (to be purchased separately) purchase address

1.Main machine power supply interface
2.On/off key
3.Type-c interface
(external power supply access)
4. Fan exhaust port
5. Translucent protective cover capable of filtering blue light

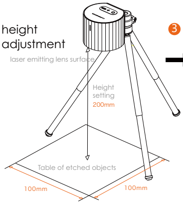


Deluxe Assembly operation diagram

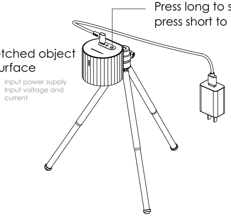


① put it in the vertical position

② height adjustment



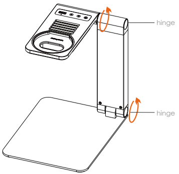
③ etched object surface



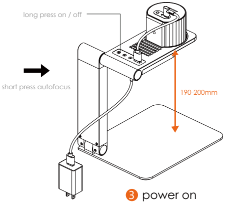
Press long to stop etching
press short to suspend etching

Important notes:

Pull out the tripod to adjust the height (focal length) to ensure that the distance between the laser emitting Mirror and the surface of the object to be etched is 200mm (measured with a free wooden ruler). Inaccurate distance will lead to uneven etching or no trace of etching.



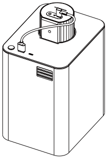
② unfolded state



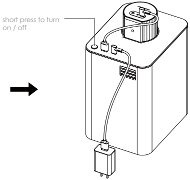
③ power on

Important notes:

Assembly operation diagram, folded state, unfolded state, hinge, long press on / off, short press autofocus, power on, this product adopts optical distance measurement scheme, influenced by factors such as the size of the area of the object to be measured and the reflectivity of the surface, there will be differences in distance measurement accuracy. In order to ensure a good etching effect, please use the official reflective distance measuring plate to assist distance measurement by covering the object in the following cases: 1. The measured area of the object is less than 100 * 100mm. 2. The surface of the measured object is uneven. 3. The surface of the measured object has a loose hole-like structure, similar to cloth, sponge and other materials. 4.Transparent material, highly reflective material, pure black material.



② put it in the main machine



③ connect to the power supply

Important notes:

1. The protective cover is suitable for putting articles with thickness less than 10mm.

2. Use a tripod to sculpt items with a thickness greater than 10mm.

Instruction manual

Size	65*61*53mm
Weight	190g
Laser source	500 mW SHARP 405 nm Blue- Violet Laser (The luminous power of focusing energy is 1500mw)
Laser source output power	Power output range can be set 1%-100%
Appearance	Anodizing of aluminum alloy
Space	gray
File transfer	Bluetooth 4.0
Supporting document formats	G-Gode and jpg
APP Connection mode	Bluetooth connection APP
operating system	Support iOS9.0 + / Android5.0 +
power input	type-c (5V, 2A)
operating temperature range	0℃~ 65℃O
safety certification:	ICE 60825-1 (laser level I safety specification), CE, ROHS, FCC, FDA CDRH registration, IEC 60825-1 (laser level IV), TELEC(MIC)
patent application	Seven patents

Laser Warning

1. Warning: Before operating LaserPecker, please read this operation manual carefully and strictly abide the operation specifications.

2. Warning: Class IV Laser (Intense Laser Radiation) is used in this equipment, which may cause the following accidents:

- Ignition of flammable materials in the surroundings

- Other radiation, harmful gas, toxic gas or odorous gas may be generated due to the different direct irradiation of the laser during the working process.

- Direct radiation of laser will cause human injury.

- Therefore, the operator must keep a distance from the equipment, and wear protective equipment (goggles, protective covers, protective clothing or fire fighting equipment, etc.). Stacking flammable and explosive objects around the workbench and equipment is strictly forbidden. Keep the working environment with good ventilation.

3. Warning: There may be some risks in the laser working process. Please consider that the engraved objects is suitable for laser operation.

4. Warning: The working voltage is 5V2A. Please power by a suitable adapter. Operating under overload or unstable voltage is strictly forbidden.
Please do not plug in if the ground wire of power supply (such as patch board) does not work effectively, otherwise there will be a dangerous risk of electric shock.

5. Warning: The product is equipped with precise and dangerous laser components. Please do not place the product near the electrical appliances with strong electromagnetic, which may cause electromagnetic interference to the product.
The laser will be flashed out when the laser source is turned on. Please avoid direct exposure to the laser beam.

6. Warning: Please do not place any irrelevant total reflection or diffuse reflection objects in the equipment, to avoid laser reflection on human bodies or flammable objects.

7. Warning: Please make sure that the emission caused by laser irradiation on the engraved objects meet local laws and regulations before using the product.

Guidelines for safe operation and attentio

1. Please check the equipment and make sure the laser mirror is clean and untainted before the installation of LaserPecker.

2. Installation specifications: Please fix the main unit with the reference of operation manual (using accessories or supporting objects with fixed functions such as protective covers, tripods, electric brackets, etc.) before the operation of LaserPecker, to avoid any damage due to unstable placement.

3. Please supply power to the equipment according to the power and power (5A2V adapter) indicated in the operation manual.

4. Please make sure to take safety protection measures before turning on the laser to engrave, such as wearing goggles to prevent laser from damaging eyes, wearing protective clothing to prevent laser from damaging skin, removing irrelevant objects to prevent unnecessary damage due to laser irradiation, especially removing flammable and explosive objects to prevent fire.

5. Please do not move the equipment after the laser is turned on and engraving is started to avoid stopping working due to self-protection, or even the final effect of the engraved work due to the displacement of the engraved object.

6. Please move the equipment or the engraved object before or after the engraving if it has to be removed. Do not move the equipment or object during the laser work.

7. Please do not allow minors, children or those who are not self-protective to approach the equipment at work because of the risk of laser.

8. Please exam the engraved object will not release toxic and harmful gases to avoid poisoning accidents during the engraving process.

9. Please use a fan to blow the odorous smoke away during the engraving or operate in a spacious and ventilated place.

10. Please exam the total reflection or diffuse reflection characteristics of the engraved object before engraving, and pay more attentions to the safety protection (it is recommended to blacken the engraved area with a whiteboard pen before engraving).

11. Do not use LaserPecker to directly irradiate the skins or eyes of people or pets to avoid irreversible damage.

12. Due to the limited power of LaserPecker laser components, it is not possible to engrave hard materials such as metals, glass, ceramics and stones (some materials can be engraved after being blackened with a whiteboard pen, heated with a transfer layer or processed with thermal transfer paper).

13. You have read the LaserPecker Operation Manual carefully and understand how to operate this product correctly, and agree the disclaimer.

Disclaimer

Thank you for purchasing the LaserPecker.

The contents mentioned is this article relate to your safety, legal rights and responsibilities.Please read this it carefully to ensure that you have the correct setting for the product before using.Any operation which is not abiding and following this manual and warning may cause injury to you or others around the product, or damage to Laser Pecker or other surrounding objects.

You are deemed to have read the disclaimer and warning carefully, understood and accepted all the terms and contents of this statement once you use the product.You will promise to undertake full responsibility for using this product and the possible consequences.You will promise to use this product for normal purpose, and agree the terms and any relevant regulations, policies and guidelines formulated by Hingin Technology.

LaserPecker is not responsible for any damage, injury or any legal liability caused by direct or indirect use of this product.Users should follow all safety guidelines including, but no limited to, this article.

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Please visit the official website https://www.laserpecker.net for the latest product information.

LaserPecker is a registered trademark of Hingin Tech. Any unauthorized use is strictly forbidden.Any falsifying and disseminating the contents of this operation manual for any purpose without our company's authorization is strictly forbidden, except the personal use of LaserPecker users. If there is a breach, Hingin Tech will reserve the right to take legal responsibility for its use.

Warranty terms - Notes

This product does not contain any user replaceable components. In any scenario, please do not attempt to disassemble or remove laserpacker by yourself or solve the problem.

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

This product meets the requirements of class I laser products. Under normal use, it operates in accordance with the specifications, otherwise it will cause damage to the skin or eyes. However, in the actual working state of laser pecker, for the sake of safety, it is still necessary to keep vigilance and avoid looking directly at the laser.

We support global online technical support services for this product. If you encounter any problems in the use process, please email LaserPecker@163.com and we will reply to you as soon as possible. Customer service time: 9:30-19:30 from Monday to week.

The information in this manual is subject to change without notice and does not constitute a commitment of the company.Please refer to our website (https://www.LaserPecker.net) for the most immediate updates.

The copyright of this manual belongs to the software and hardware involved in this product, and belongs to Shenzhen Hingin Technology Co., Ltd. (hereinafter referred to as "Hingin Technology").

Avoid children, minors, pets and mobile objects that may contact LaserPecker to approach or touch the product.

Email：support@laserpecker.com

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