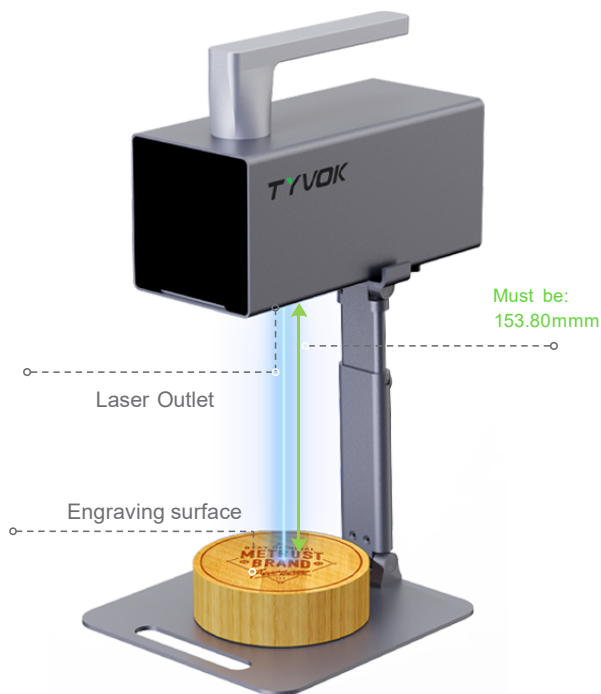




Operation Manual of Tyvok P2



Product Name : Laser Engraver
Model : P2
Version number : 2026-1A

Important notes

Distance from laser outlet to surface of engraved object must be 153.8mm

A Letter to Customer

Dear customers,

Thank you for choosing the Tyvok P2. Please read this manual carefully before use and follow all instructions to ensure safe and proper operation.

The Tyvok P2 team is committed to providing reliable service and support. If you encounter any issues, please contact us using the email address provided at the end of this manual.

For operation guides and additional product information, please visit the Tyvok official website at www.tyvok.com.

Best regards,
Tyvok Team

Download APP and Usage

- 1 Download the PC software from our official website: (LaserGRBL and LightBurn)

Download link:
<https://tyvok.com/pages/software>s

- 2 We have prepared simple tutorials for LaserGRBL / LightBurn / TyvokStudio on Wikipedia and provided assembly videos on YouTube.

Note: Our mobile application is currently in the development and testing phase and will be launched soon. Stay tuned for further updates.



LaserGRBL



LightBurn



TyvokStudio

Aft-sales service

- We offer global online technical support for this product. If you encounter any problems during your use, please feel free to contact us and we will respond to you as soon as possible
- Facebook : Tyvoklaser
- Youtube : @Tyvokspiderlaser
- Email : cs@tyvok.com
- Tel : +86 19926563401



Wiki.js



Youtube



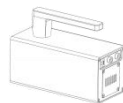
Facebook

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- 05 Product specification
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01 /List of product accessories

Laser unit



Power cord / power adapter



Protective cover



Hand-tightening screws



Mounting bracket



Goggles



Ruler



Wrenches



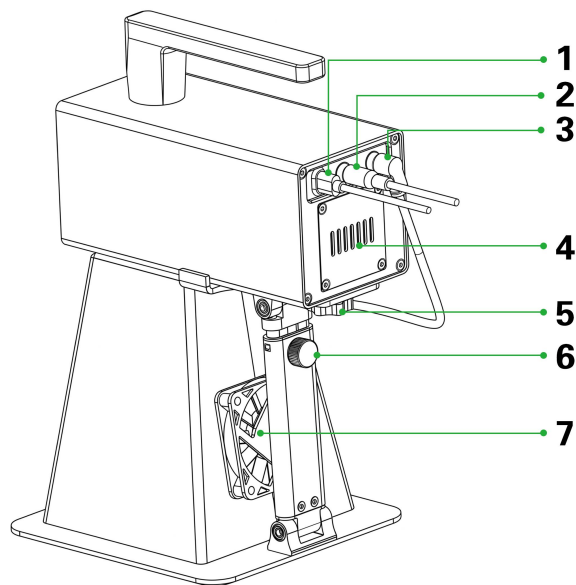
Consumables kit



Data cable



02/Interface indicator instructions

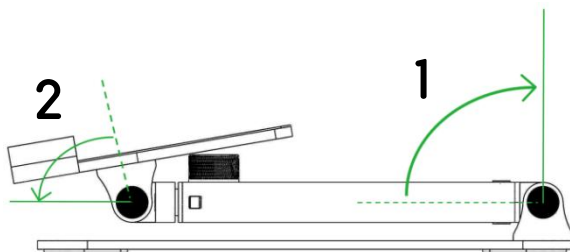


1. Computer connection port;
2. Main power supply port;
3. Exhaust fan power supply port;
4. Laser emitter compartment (replaceable);
5. Hand-tightening screws for securing the laser head;
6. Bracket height adjustment knob;
7. After powering on, the fan begins to operate.

03/Quick installation instructions

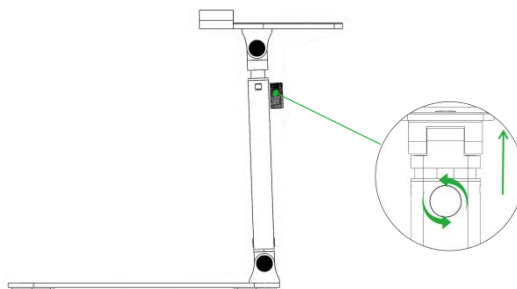
1

Expand the bracket



2

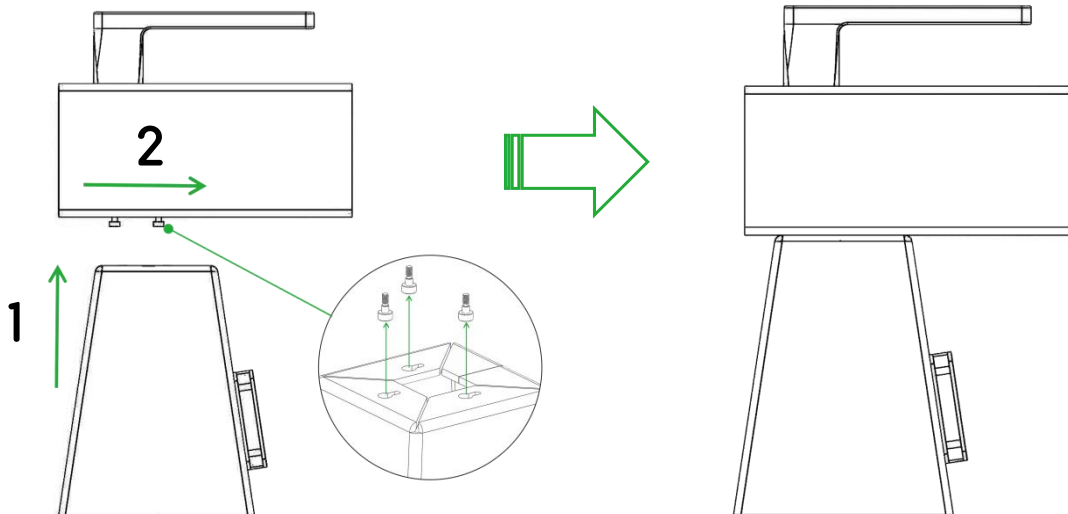
Turn the height adjustment knob counterclockwise (to loosen), then raise the adjustable rod by 20mm to 40mm. Next, turn the height adjustment knob clockwise to lock the adjustable rod in place.



3

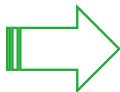
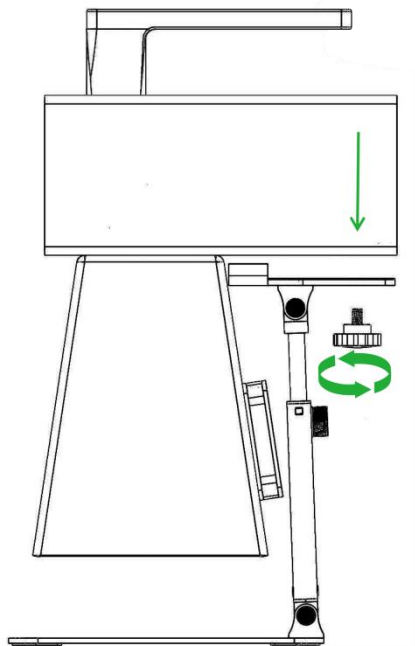
Installation of Protective Cover

1. Move upward to insert the protective cover.
2. Move rightward to lock the protective cover in place.

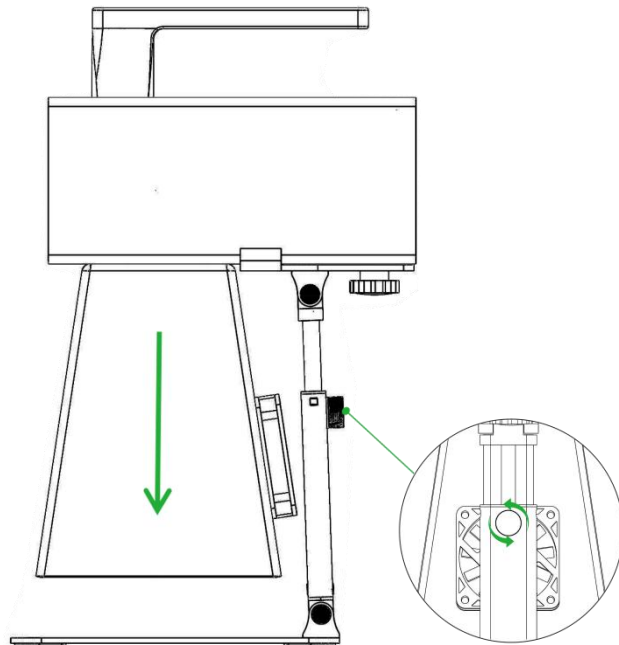


4

Place the laser head assembly onto the bracket and secure it with hand-tightened screws.



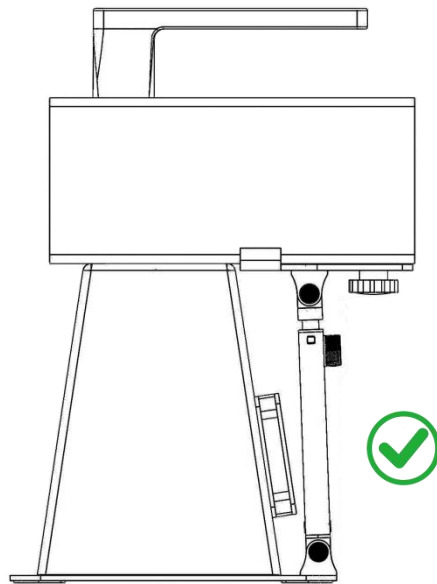
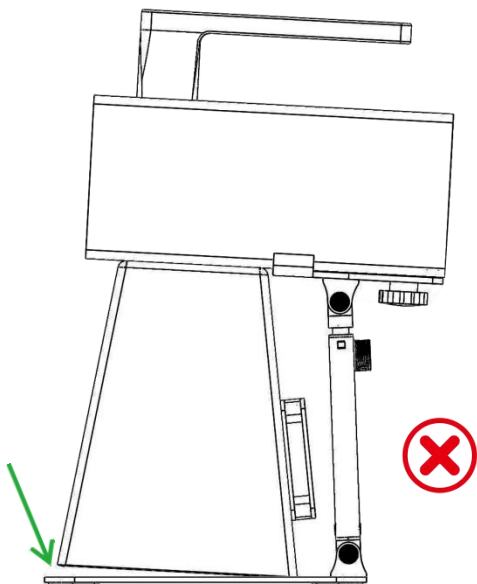
Turn the height adjustment knob counterclockwise to loosen lower the laser head until the bottom of the protective cover fully contacts the base plate of the bracket, then turn the height adjustment knob clockwise to secure it.



5

If the bottom of the protective cover does not fit snugly, please readjust it, or you may watch our instructional video before making adjustments

Video link: [youtube.com/@Tyvokspiderlaser](https://www.youtube.com/@Tyvokspiderlaser)

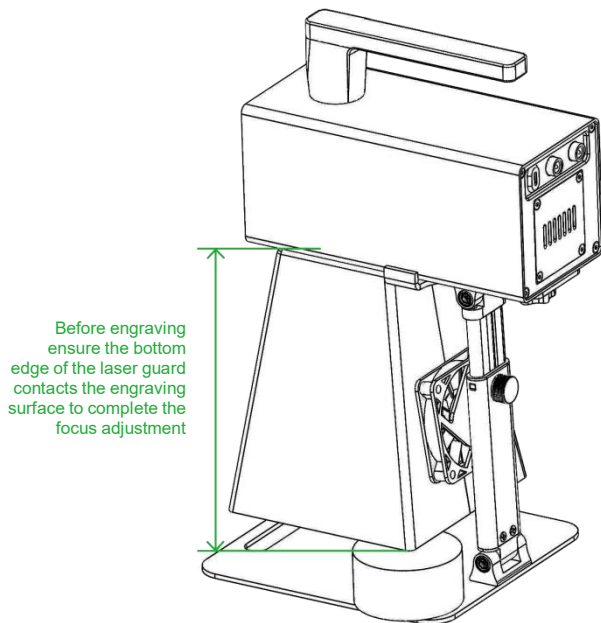


04/Three operating modes

1

Bracket + Protective Cover

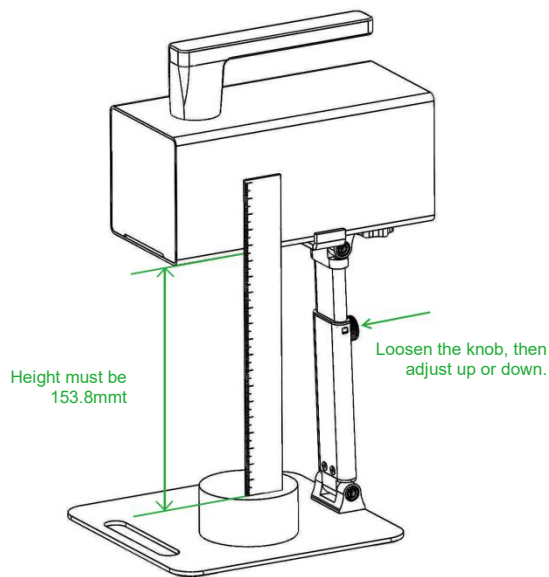
The height of the cover is 153.8 mm.



2

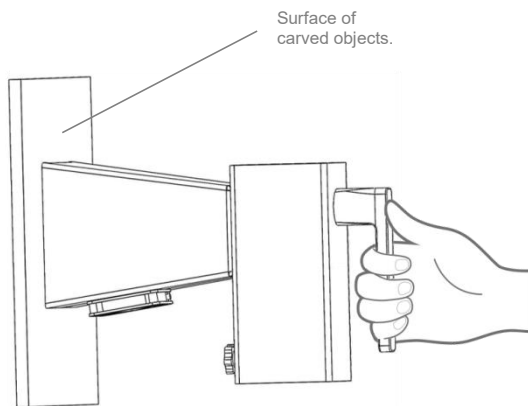
Bracket + Ruler

Place the engraved object, adjust the height of stand, and measure it with a ruler, so that the bottom of machine is 153.8mm from engraving surface.



3 Handheld engraving

Mount the laser shield into the machine bottom and connect to power supply without installing, Hold the handle aiming at the surface of engraved object.



05 / Product specification

Power Input	DC(18V,8A).AC(100-240V,50-60Hz)
Laser Output Power	2W/5W/10W
Data Connection	USB Cable
Laser	450nm Semiconductor Blue Light
Spot Size	0.05mm X 0.08mm
Engraving Speed	1-600mm/s
Supported File Formats	jpg /svg /png /bmp /dxf /Gcode etc
Software Support	LightBurn/LaserGRBL
Net Weight	1970g
Dimensions	210x512x282 mm
Working Area	60x60 mm
Operating Life	10000 cumulative hours
Focal Length	153.8 mm

06/Use safety guide

- Before starting the installation of P2, please first check that the equipment is intact and the laser mirror is clean.

Installation specifications: Before operating P2, please secure the host referring to the Operation Manual to avoid falling due to unstable placement.

- Please power the equipment with the power and type (adapter with 18V8A) as indicated in the operation manual.

Before starting the laser carving, please make sure to take safety protection measures, such as adding protective covers, wearing goggles to prevent eye or skin injury, removing irrelevant items to prevent unnecessary damage caused by laser irradiation, and especially removing flammable and explosive items to prevent fire.

- To move the equipment or carved objects, please operate before the carving or after the carving is done. Do not move the equipment or items during the laser work.
- Because of the risks of laser, do not bring minors, children, and people with close to the equipment at work.
- Before carving objects using this product, please check that the carved object will not release toxic or harmful gas during the laser burning process to avoid poisoning accidents.
- If odor or smoke is found during the carving, please use the fan to blow away or place it in a spacious and ventilated place.
- Before carving objects using this product, review whether the carved objects have total reflection or diffuse properties. Special attention should be paid to the safety protection of such objects (it is suggested to carving after blackening the carved area with the whiteboard pen).
- Do not use P2 to directly illuminate the human body or pet skin and eyes, so as not to cause irreversible damage.

07 / Precautions

- Please carefully read the [Use Safety Guide] and keep in mind for standard operation.
- The working P2 will emit laser. The beam is at risk of burns to the human skin; The damage is extremely serious for the eye parts of the human body or animal (pet). In addition, the screen damage to mobile phones and Pads is also extremely serious. The proper use and maintenance of this product are very important for the safe operation of this product. Please strictly follow the instructions in this manual for the operation and maintenance specifications of this product.
- Be sure to wear protective goggles throughout the operation of P2

08 / Disclaimer

Thank you for purchasing P2. What mentioned in this article refers to your security and legal interests and responsibilities. Before using this product, please carefully read this article to ensure the correct setting of the product. Failure to operate following the instructions and warnings described herein may cause injury to you and people around or cause damage to P2 or other surrounding items. Operating this product means that you have carefully read the disclaimer and warning information, understood, recognized and accepted all terms and contents of this statement. You promise to be fully responsible for the use of the product and possible consequences. You commit to use this product only for a normal purpose, and agree to this clause and any relevant regulations, policies and guidelines developed by P2 is not liable for damage, injury, and any legal liability arising from the direct or indirect use of the product. Users shall follow all safety guidelines referred to herein.

09 /Warning

- Before operating P2 equipment, please carefully read the operation contents and strictly observe the operating procedures.
- This equipment uses a Class 4 laser (intense laser radiation), which may cause the following accidents: 1) Light up the surrounding flammable materials; 2) During the laser operation, other radiation, harmful gases, toxic gases or smelly gases may be produced due to different laser radiation objects; 3) Direct exposure to laser emission may hurt human body. Therefore, the operator must keep a distance from the equipment, and wear protective equipment (such as goggles, protective covers, protective clothing or firefighting equipment, etc.). It is strictly prohibited to pile up flammable and explosive items around the workbench and equipment. The working environment must be kept well ventilated.
- There may be risks during the laser working process. The users should carefully consider whether the material of the carved object is suitable for laser operation.
- The working voltage of the equipment is 18V8A. It should be powered using the adapter of suitable specification. Operation during overload or voltage instability is strictly prohibited. Under the premise that the power supply (such as the patch board) used by the power plug of this product does not work effectively, the power supply cannot be connected, otherwise there will be a dangerous risk of electric shock.
- This product is internally equipped with precise and dangerous laser source components. The equipment is strictly prohibited to work near appliances with strong electromagnetic interference because this may cause electromagnetic interference. When the laser source is turned on, there will be laser emitted at the speed of light. The user must avoid direct exposure to the laser beam.
- It's strictly prohibited to place any irrelevant object of total reflection or diffuse reflection in the equipment, in case the laser may be reflected to human body or in flammables.
- Before carving objects using this product, please ensure that the emissions resulting from laser exposure to the carved objects meet the local laws and regulations.

10/ Warranty terms

Before returning the product and filling in a warranty, please contact after-sale person for going through after-sale formality. And attach this warranty card along with the returned machine.

Warranty Terms Link: <https://tyvok.com/pages/warranty-policy>

Repair ☐	Change ☐	Return ☐
Name: _____	Telephone: _____	
Address: _____		
Serial Number: _____	Order Number: _____	
Channel: _____	Date of Purchase Day: _____	
Manufacture Problem Description and Return Reasons/Suggestions: _____		
Repair Records: _____		

Note: Client needs to fill in basic info. and return reasons. Repair records

Note: Client needs to fill in basic info. and return reasons. Repair records shall be retained for technicians.

※ Users should abide by the laws and regulations of the country and region where the equipment is located (place of use), abide by professional ethics, and pay attention to safety obligations. It is strictly forbidden to use our products or equipment for any illegal purpose. Our company is not responsible for the relevant legal responsibilities that the violator should bear. Since each model is different, the actual product may be different from the picture. Please refer to the actual product. The final interpretation right belongs to Shenzhen Tyvok Technology Co., Ltd.



Shenzhen Tyvok Technology Co., Ltd.

We support global online technical support services for this product. If you have any problems during your use, please contact us.

Email: cs@Tyvok.com

Tel: +86 19926563401