

Xinjia Laser Technology Co., Ltd.

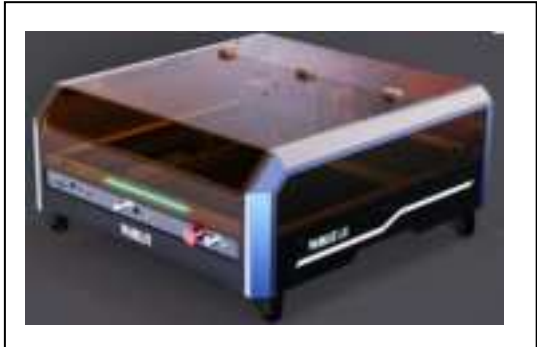
L8 Specifications—First Edition 2023.8.1

Product number:	Product name: Laser engraving	Drafted by : Luo Jianhua 20230801
Project start time:	Project Completion Time:	

1. Product renderings



L*W*H611.6*634*250mm

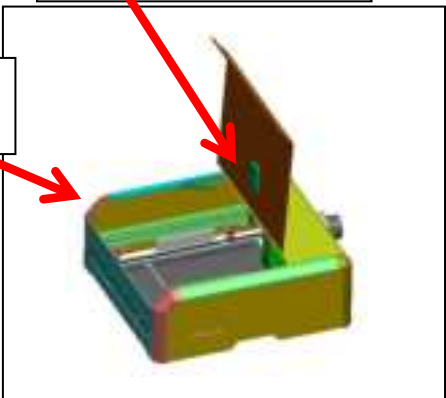


Increase feet height: 56mm

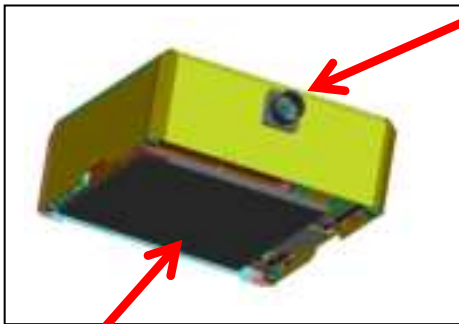
2. Product Structure Description :

Camera standard 200W pixel,
optional 500W, connected to PC

Closed transparent acrylic
protective cover

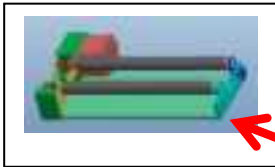


The air outlet can also be
connected to the company's
purifier (optional)



Honeycomb panel, standard

Air pump 40L/min, standard



Rotation axis (optional)

3. Function parameter:

3.1 Can be equipped with 20W and 40W lasers. Equipped with 20W engraving area 400*400mm, equipped with 40W engraving area (under testing).

3.2 Engraving accuracy: Default is 0.05mm, can be manually adjusted to be smaller.

3.4 Laser module focusing type: 20W, 40W spot compression.

3.5 Spot size: 20W—0.13*0.15, 40W— (0.2*0.2 under verification) .

3.6 Laser module life, about 10000h at 27℃ ambient temperature.

3.7 Engraving speed: The machine structure supports 60000mm/min. The maximum engraving speed is determined based on the laser power.

3.8 WIFI communication motherboard with tipping protection function,

3.9 With camera function, the camera is connected to the PC.

3.10 The machine is a Class 1 laser product. Open the acrylic cover and the machine will stop working. Close the cover and continue working.

3.11 Support software

Operating software	CutLabX (PC version + mobile APP) (The first order may not be able to keep up with the open source. When the self-developed software matures, it can be switched without flashing the firmware) laserGRBL PC version Lightburn PC version
Supported formats	CutLabX: PNG/BMP/JPG/NC/GIF/GCODE/cutlabx/DXF. GRBL platform: Common picture and vector formats, GCODE file formats, etc., such as BMP/PNG/JPG/GIF/SVG/NC/GCODE, etc., see the software official website -> LaserGRBL official website: https://lasergrbl.com/ - > LightBurn Official website: https://lightburnsoftware.com/
support system	CutLabX (windowsOS, macOS, Android, IOS) laserGRBL (windowsOS) Lightburn (windowsOS, macOS) Note: LaserGRBL software does not support macOS temporarily.

3.14 Machine packaging information

Bare metal weight	13.4 Kg (whole machine + acrylic cover + honeycomb panel + air pump + 20W laser)
Packing	Shipment of the whole machine
Product Size	Length*width*height 611.6*634*250mm (excluding the acrylic cover air outlet part)
Single box size	720*660*340mm
adapter	20W—24 V/ 8 A DC ; 40W—24 V/ 10 A DC
Kits	1 hexagonal wrench, one wrench (one each for openings 7 and 8), 1 marker pen, 1 pen swipe, card reader, 3 150*150*3mm plywood, 2 business cards (5 colors) each, 2 dog tags , 2 wooden stakes (Φ 10*10), 2 pieces of kraft paper A4T0.46mm

4. Laser:

4.1 With flame sensor,



4.2 Air flow detection (trachea hidden inside the laser)

4.3 Power indicator light bar , also an error light

4.4 with window mirror

4.5 three-level focal length adjustment: 7mm for engraving

Use 5mm gear for cutting 5-8mm wood board

3mm file for cutting boards larger than 8mm

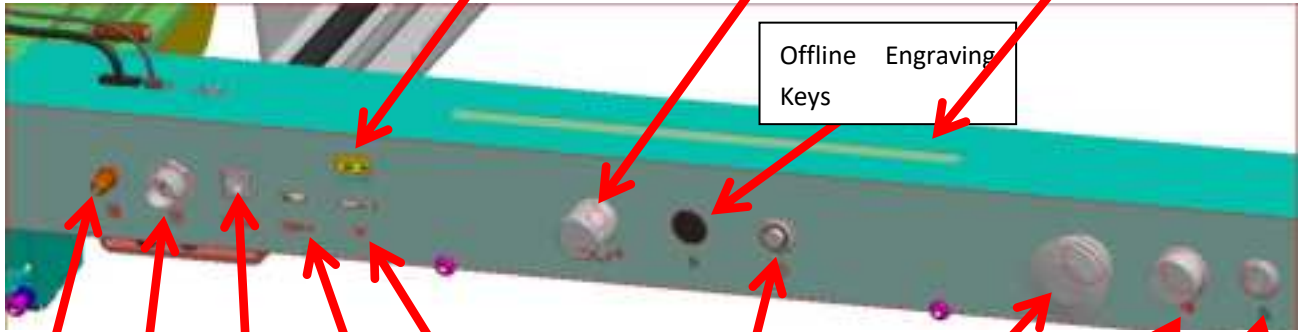
5. panel information

USB camera to computer cable

Air pump wind speed adjustment key

working status light

Offline Engraving Keys



Air pump air pipe interface

Power adapter power interface

TF

TYP-C

Air pump electrical

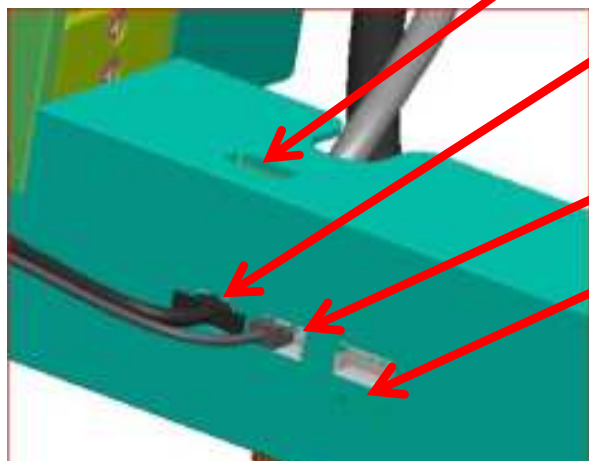
switch

Emergency stop switch

buzzer

Rotary key switch

Machine camera interface USB



Fan interface 3P2.54

Inductive open switch interface 2P2.54

Rotary axis interface 6P 2.54

6. Indication Status Description

6.1 The working status light bar of the whole machine : white light bar: white light is always on when power is on, white breathing light is engraving , and white light flashes quickly when the cover is opened. Other states do not respond ;

6.2 Inclination: exceeds the threshold , the laser flashes weak light , and the whole machine stops running;

6.3 Flame: when the abnormal threshold is exceeded, the alarm sounds and the alarm

light lights up, and the whole machine stops running;

Flame light mark on the laser: flame is detected, the red light is always on and stops working, no flame is detected, the white light is always on,

6.4 air pressure:

There is normal airflow: the white light is always on; no airflow: the red light is always on; the machine can work with or without airflow.

6.5 Laser power indicator light: Turn on the power, and the colored lights of the horse racing circle will go from bottom to top and then down.

Work: Light up the colored lights according to the actual power, 10%-100% corresponds to 1-10 lights.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled

environment. This equipment should be installed and operated with a minimum distance of 20cm

between the radiator & your body. This transmitter must not be co-located or operating in

conjunction with any other antenna or transmitter.