



TS1 User Manual

Please read these instructions carefully before use Note: The picture is for reference only, and the actual product shall prevail

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USB Data Cable





Diagram for Installing the Filter Plate

1. Main View



2. rear view



3. Elevation View



Laser Head Focusing Instructions:

Place the object to be engraved flat on the workbench and place the supplied black focus card over it and ensure you wear goggles to protect your eyes. Adjust the focus of the laser head to the finest point, if the focus is not fine enough, engraving may not be possible or the result may be unsatisfactory.

1. Rotate the focuser left or right to minimise the focus/point of light, the smaller the focus the higher the accuracy and the better the result.

2. Optimal focal length: 25-65mm

3. The best effect is when the engraved object is 25-65mm away from the bottom end of the laser head.

4. Re-adjustment of the laser focus is required when engraving objects of different heights.



1. APP Download & Installation

Mode 1: APP download URL https://drive.google.com/drive/folders/ 137dsKVyxcw2bLARS2nsukShmJPHa1ype? usp=drive_link

Mode 2: Scan the QR code below to download



IOS

Android

2. APP connects to machine

2.1 Connect the device to the power supply

2.2 Enabling Bluetooth on mobile phones

2.3 Open the engraving app and click on the red numbers

(1→2→3→4) When 3 shows orange, the connection is successful.Note: (Laser-XXXXX) is the name of TS1 Bluetooth. Example: Laser-xxxxx



3. Language System Selection



1. Description of interface icons



2. Creation and Engraving

2.4 Click Next "

2.1 Return to the home page, click 'Create' to enter the creation interface.

2.2 Importing pictures by selecting the function of taking pictures/albums/drawing etc.

2.3 Use various filter functions, brightness and contrast adjustments for image beautification

", enter the parameter setting page, the name of the work, size, engraving rate and



Example (take a photo album as an example):





the patrol is correct

09

engraving settings.

1. PC Software Download Link:

https://drive.google.com/drive/folders/137dsKVyxcw2bLARS2nsukShmJPHa1ype?usp=drive_link

2. File extraction guide

2.1 Click on the pc file



2.3 Select the corresponding computer system to extract the installation file



🗟 Thumbs

2.2 Selection of required software

2.4 Importing configuration files after successful installation

	Linux	2024/10/26 11:17	文件央	
	MAC	2024/10/26 11:17	文件典	
	Windows	2024/10/26 14:33	文件央	
1		2024/10/26 11:17	文件 典	
11	Leie artes de usar	2024/8/20 17:21	文本文相	1 KB
	lightburn Operation Manual-EN	2024/7/24 16:49	WPS PDF 28	1,012 KB
	lightburn Operation Manual-PT	2024/8/20 16:19	WPS PDF 文相	1,488 108
	lightburn Инструкция по эксплуата	2024/10/26 15:53	PPTK 演示文概	1,413 KB
	LightBurn软件使用说明书	2024/10/26 14:18	PPTX 建示文稿	1,465 KB
18	Read it before use	2024/7/24 16:48	文本文档	1.80
	Thumbs	2024/7/24 16:49	Data Base File	14 108

3. Software Usage Instructions



For your convenience in reading and using, we have provided multilingual tutorials. Please extract and use them as needed.

1. No response when the machine is powered on

1.1 Check whether the power plug is energised or not

1.2 Check if the adapter plug is loose.

1.3 Check if the machine power switch is on.

2. Mobile APP connects to machine without response

2.1 Check that the machine is properly powered up and that the laser head is emitting a faint light.

(If the laser head does not emit light, please check whether the wires are loose.)

2.2 Check whether the mobile phone is normally open the Bluetooth function.

2.3 Check whether the mobile phone is normally connected to the machine

Bluetooth (Laser-XXXXX)

2.4 Restart the machine/mobile phone/APP have to restart the Bluetooth connection.

3. Failure to connect to a computer

3.1 Check that the machine is properly powered up and that the laser head is emitting a faint light.

(If the laser head does not emit light, please check whether the wires are loose.)

3.2 Check whether the USB cable is loosely connected to the machine/computer.

3.3 Whether the computer driver software is normally installed and used.

3.4 The computer side of the card needs to be refreshed software

to read the machine

4. Unsatisfactory engraving

4.1 Focusing problems: check that the laser head focus is already at the minimum point on the object

4.2 Whether there is any foreign matter in the laser head lens that affects the laser focus.

4.3 Check whether the machine and the engraving object is placed flat

(The flatter the machine and the engraving object, the better the engraving effect) 4.4 The ratio of engraving speed to laser power is not satisfactory.

(The higher the ignition point of the engraving object needs to burn the longer time).

5. Offline engraving issues

5.1 Operation process: place the engraved object, adjust the laser focus to the minimum to the engraved object, double-click the middle button to start the engraving preview, preview is correct, long press the middle button 3S to start repeat engraving. (After the machine is restarted, it is impossible to carve the engraving file offline before restarting, offline engraving only applies to the engraving file uploaded in the APP).

5.2 Engraving does not produce images or unclear: the picture is not clear or the colour of the picture line is too light or the parameters of engraving power and engraving speed are not set correctly. The carving process stops abnormally: the downloading of the picture file is not completed, reload the picture.



Avoid staring intently at the laser, which may damage your eyes.



Avoid touching the machine directly while it is working.



You can prevent your table from burning through by placing a metal plate underneath the object you are carving or cutting.



Avoid flammable objects or gases.



Keep away from children or pregnant women.



Do not disassemble the laser without instructions!



- Do not use on materials that reflect light.
- 6
- Anyone in the vicinity should wear protective eyewear when in use.



Switch off the power when not in use.



There is a risk of injury from crushing or crushing of nearby objects.



The laser head is a consumable product, it is recommended to switch off and disconnect the power for ten minutes after four hours of engraving, and switch off and disconnect the power for ten minutes after one hour of cutting operation.

Brand	TWO TREES	
Model	TS1	
Material	Injection Moulded Parts + Aluminium Alloy	
Support System	Windong/Android/IOS	
Compatible Materials	Plywood / Density Board / Solid Wood Board / Paper / Lacquered Metal / Leather / Plastic / Bamboo	
Port Type	Power Port: DC005 Data Port: USB type B	
Laser Wavelength	455±5nm	
Engraving Area	80X80MM	
Inner Cavity Engravng Height	0-30MM	
Input Power	24W	
Laser Head Power	3W	
Supply Voltage	12V 2A	
Optimal Focusing Range	25-65MM	
Maximum Focusing Distance	70MM	
Operating Software	Lightburn/lasergrbl/MKSLaser (Mobile APP)	
Package Weight	Estimated 1320g (±50g)	
Product Size	157X157X167mm	
Package Size	198x206x191mm	

FCC compliance statement

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.

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

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.

FCC Radiation Exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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(For more on the machine, check out the wiki.)

After-sales consultancy: service@twotrees3d.com