Warning
Physical injuries or damage to the machine may be caused if you do not follow the instructions or principles.

Warning
Physical injuries or damage to the machine may be caused by laser light if you do not follow the instructions or principles.

DECLARATION OF CONFORMITY

As a result, Matatalab Co., Ltd, declares that this product complies with the essential requirements and other relevant provisions of Directive 2011/65/EU and the RoHS directive 2015/863/EU & (EU) 2015/863

CE

FCC 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.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, according 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 by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful interference to radio or television reception, which can determine by turning the equipment off and on. In such cases, 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 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 a minimum distance of 20 cm between the radiator and your body.

Safety first (significant)

1. General safety

Read and get familiar with all safety precautions and procedures before using the machine. Strictly follow all safety precautions and ensure that the device is assembled correctly and is working correctly.

Follow the operating principles:

- Check the machine for damage every time before you use it. If you find any damage or defect, do not operate in any way.
- Ensure that the compartment is clean and flat. Note that the laser tube is made of glass and is very fragile. If it breaks, the machine fails to work.
- Do not disassemble, modify or remodel the machine structure in any way without authorization.
- Please do not modify or decompile its operating system.
- Keep the operating area of the machine clean. Residues and chippings accumulated during cutting and engraving are dangerous and may cause a fire. Clean the machine regularly.
- The machine works appropriately at the temperature of 5°C to 35°C and can appropriate stored at the temperature of 0°C to 45°C. Do not operate it at a temperature lower than 0°C.

2. Laser safety

xTool D1 has no protective cover. Do not touch the laser when operating the machine.

Follow the safety precautions:

- Do not operate the machine when it removes any part of it.
- Removing any part may cause damage to the machine.
- Do not engrave or cut any material that contains PVC or vinyl (plastic materials recommended). These materials (and other materials containing chlorine/chloride) may generate corrosive gas/vapor. Do not cut any material you do not know the properties of. Do not attempt to cut, engrave or cut any material containing PVC or vinyl causing any damage. Matatalab's warranty isn't cover it.
- Do not engrave or cut any unknown materials. Vaporization/melting of many materials, which include but are not limited to PVC and polycarbonate, may release harmful smoke.

3. Fire safety

When the machine cuts or engraves a material, use a high-density laser beam to irradiate it. Temperature of the irradiated spot can reach 300°C. The machine can operate inherently flammable and may be ignited to form an open flame that may burn down the machine. Learn to make a flame-retardant material and its surroundings. From our experience, using the laser to perform vector cutting (on acrylic, in particular) is most likely to produce an open flame.

Read the following warnings and suggestions carefully:

- Make sure well the position the workpiece so that flames can escape properly.
- Do not stack materials (especially organic ones, such as paper) around the machine. They may cause the spread of flames and increase the risk of material ignition.
- Please do not leave the machine unattended when it is working if the machine works with combustible materials. Do not allow for an extended period. If a mechanical or electrical failure occurs, it may cause a fire.
- Clean the machine regularly. Excessive accumulation of residues and chippings from cutting and engraving may cause a fire. Clean it.
- Ensure that the area around the machine is clean without any (inflamed flammable materials, explosives, or volatile solvents, such as acetone, alcohol, or gasoline. Keep a fire extinguisher and perform regular maintenance and inspection of it.

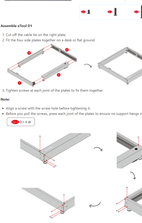
4. Electrical safety

Read the following warnings and suggestions carefully:

- Do not open any access panels when the machine connects a power supply.
- Do not touch electronic areas with your hands or other tools when the machine connects to a power supply.

5. Warning and instruction signs

On the xTool D1, we mark warnings and signs in areas where bodily injury or machine damage may occur before or during operation. If a sign is damaged or lost, replace it immediately. You can use the following template to print the sign you need.



Packing list

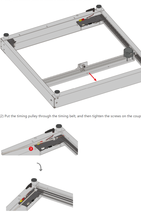
Assemble xTool D1

1. Cut off the cable tie on the right plate
2. Fit the four side plates together on a desk or flat ground.

3. Tighten screws at each joint of the plates to fix them together.

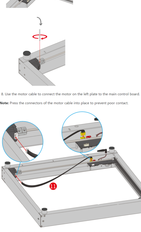
Note:

- Align a screw with the screw hole before tightening it.
- Before you put the screws, press each joint of the plates to ensure no support hangs in the air.

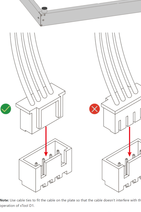


4. Use screws to set the tightness of the timing belts on the left and proper plates.

Note:



- The purpose of the most extended extension screw is to set the tension of the timing belt. Do not fully tighten the most extended extension. Otherwise, the timing belts may be damaged.
- Make sure that you set the timing belts on the left and proper plates with the same tightness. Otherwise, the material can't zero adequately.



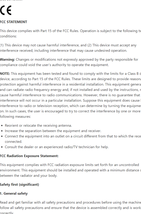
5. Fit the middle plate.

6. Use the screw to set the tightness of the timing belt on the middle plate.

Note: The purpose of the most extended extension screw is to set the tension of the timing belt. Do not fully tighten the most extended extension. Otherwise, the timing belts may be damaged.

7. Install the optical shaft components.

① Drag the middle plate to make it close to the rear plate.



② Put the timing pulley through the timing belt, and then tighten the screws on the coupling.

③ Use the motor cable to connect the motor on the left plate to the main control board.

Note: Press the connectors of the motor cable into place to prevent poor contact.

Note: Use cable ties to fit the cable on the plate so that the cable doesn't interfere with the operation of xTool D1.

8. Insert the motor & laser cables into the ports on the main control board.

Wiring tips

10. Connect the motor on the mobile plate to the main control board:

11. Use cable ties to fix the cables on the plate

12. Connect the laser head to the main control board

Stick the cable into the slot of the fan baffle, and then insert the connector into the port.

13. Fit the laser head.

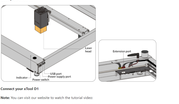
Insert the laser head along the guide rail, and then lock it in a required position by using the thumbscrew on the side.

14. Use cable ties to fix the cables on the mobile plates.

Note: Before using the cable ties, reserve a sufficient cable length to allow the laser head to slide between the left and proper zones.

15. Insert the TF card into the card slot

Meet your xTool D1



Connect your xTool D1

Note: You can visit our website to watch the tutorial video:

https://support.xtool.com/hc/en-us/sections/4406613338999-Video-Tutorials

Power on xTool D1

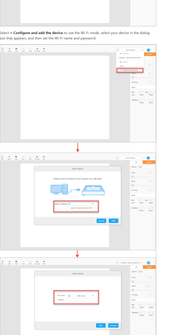
1. Connect xTool D1 to a power supply.
2. Turn on the power switch and wait till the annular indicator usually is on in white.

Connect xTool D1 to your PC

1. Visit our website to download the software on your PC:
https://support.xtool.com/hc/en-us/sections/4406699118001-Software-Download
2. Use the USB cable to connect xTool D1 to your PC.
3. Open the software, click the **Not Connected** button drown list box to select a connection mode.

To use the USB connection mode, select your device.

Select a **Configure and add the device** to use the Wi-Fi mode, select your device in the dialog box that appears, and then set the Wi-Fi name and password.



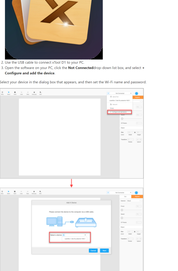
Note: Make sure that xTool D1 and your PC work on the same LAN. After Wi-Fi mode connects in xTool D1, you can remove the USB cable to control it wirelessly.

Connect xTool D1 to the laserbox app

1. Search for **laserbox** in an app store to download the laserbox app.

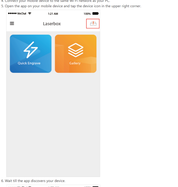
2. Use the USB cable to connect xTool D1 to your PC.
3. Open the software on your PC, click the **Not Connected** drop-down list box, and select **Configure and add the device**.

Select your device in the dialog box that appears, and then set the Wi-Fi name and password.

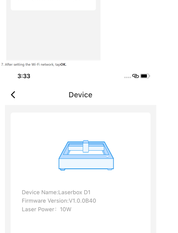


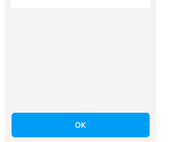
4. Connect your mobile device to the same Wi-Fi network as your PC.
5. Open the app on your mobile device and tap the device icon in the upper right corner.

6. Wait till the app discovers your device.



7. After setting the Wi-Fi network, tap **OK**.

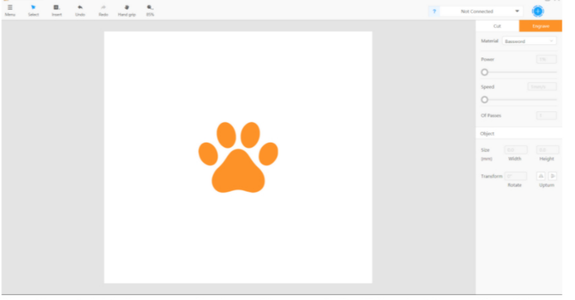




8. After xTool D1 is successfully connected, the device icon in the upper right corner turns green.

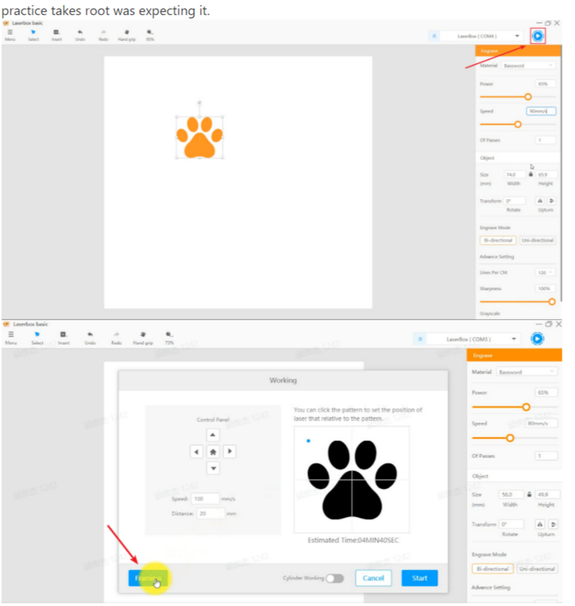
Engraving for the first time

1. Import the pattern into the engrave and set the pattern size and laser parameters.

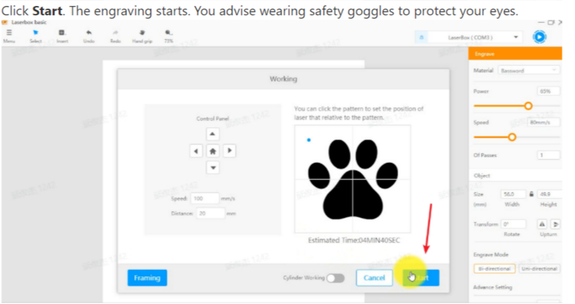


2. Place the material to be engraved in the working area of xTool D1 and set the position of the laser head based on the focus ruler.

3. Click the start button in the upper right corner, and then click **Framing** to preview the pattern's position to be engraved on the material. You can adjust the material section to ensure that the practice takes root was expecting it.



4. Click **Start**. The engraving starts. You advise wearing safety goggles to protect your eyes.



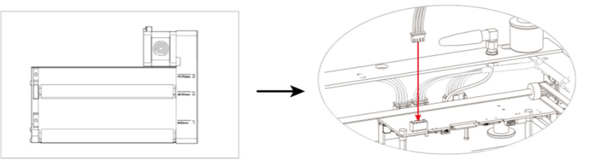
Now, you can start your creation!

Function extension

You can add the rotary roller engraving module to engrave cylindrical items.

Place the module parallel to and in the working area of xTool D1 and connect it to xTool D1 through the extension port.

For details, see the tutorial for the rotary roller engraving module.



Note: To extend the functions of xTool D1, you need to purchase the required parts and components.

After-sales services

Scope	Name	Warranty period
Main parts	PCB, motor, laser head, guide rail	12 months
Wearing parts	Power adapter, conveyor belt	3 months
Consumables and accessories	Power cord, USB cable, consumable parts, user guide card, package, etc.	No covered in the warranty

Note:

1. The **warranty period** in the preceding table is as defined from the date of purchase on the receipt. The invoice date will appear as a reference. Please retain your purchase invoice. If you can't provide a valid invoice, the warranty period will calculate from the factory date.
2. For more information about after-sales services, visit https://support.xtool.com.