



WeCreat Lumos Flex

USER MANUAL



Please review the entire guide before operating the device

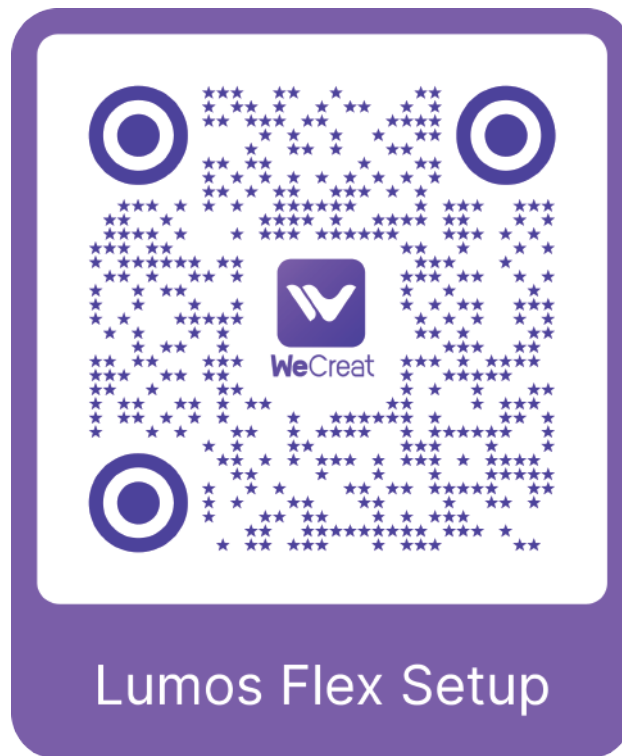
Safety Notice: Do not connect to the power supply until installation is complete.

www.wecreat.com

Welcome

Thank you for choosing WeCreat Lumos Flex. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us at support@wecreat.com. Or visit <https://wecreat.com/pages/contact-us> and submit a request.

Please scan the QR code to watch the installation tutorials



Let's Create with WeCreat!
www.wecreat.com

Contents

Declaration	1
Laser Safety	2
Meet WeCreat Lumos Flex	5
What's In the Box	6
Using WeCreat Lumos Flex	7
Using Rotary Attachment	15
Maintenance	17
After-Sales Services	19
Warranty	19

Declaration

The User's Manual (hereinafter referred to as the "Manual") is intended to provide detailed instructions for installing and operating the WeCreat Lumos Ultra. Through this manual, users will understand how to operate the laser safely and effectively to ensure optimal use.

Users must install and use according to the guidance of this Manual. WeCreat does not assume responsibility for any damage or malfunction caused by not following the Manual's guidelines. WeCreat is not responsible for any loss caused by unauthorized repair, modification, or improper use.

The compilation of this Manual aims to provide users with clear and accurate installation and usage guidance to promote the correct use of the laser machine, ensuring user safety and effective operation of the device.

WeCreat is committed to continuously optimizing products and improving services. For any questions about the content of this Manual or any issues encountered during the use of the laser, please feel free to contact us for feedback: support@wecreat.com

The copyright of this Manual belongs to WeCreat. This Manual and the information, diagrams, and logos contained herein are protected by copyright law. Without WeCreat's explicit written authorization, no unit or individual may copy, reprint, excerpt, or utilize this Manual in any other form.

WeCreat reserves the right to update this declaration and the content of the Manual at any time without further notice. If there are changes, please refer to the latest information published by WeCreat.

Laser Safety

Review and familiarize with all safety rules and steps before use; comply strictly and confirm the machine is correctly assembled and in proper working order

Please follow the operating principles:

1. Prior to each use, inspect the machine for any damage. Do not operate the machine if any damage or defects are detected.
2. Ensure that the workspace is clean and level.
3. Unauthorized disassembly or alteration of the machine's structure is strictly prohibited. Do not modify or decompile its operating system.
4. Maintain cleanliness inside the machine. Residues and debris accumulated during cutting and engraving can be hazardous and may cause a fire. Regularly remove chip-pings and residues.
5. The machine operates normally between 0°C and 35°C. Do not run it when the temperature is below 0°C.



Warning: Do not leave the device unattended when in operation.



Turn OFF device before plugging/unplugging.



If the machine operates with setting errors and is left unattended for an extended period of time, or if a mechanical or electrical fault occurs, it may lead to a fire.



Keep explosive and flammable materials away from the device. Do not stack materials (such as paper) around the machine. They may cause the spread of flames and increase the risk of material ignition.



Avoid eye or skin exposure to direct or scattered radiation, visible and invisible laser radiation.

Electrical safety

1. Never open any access panels while the device is connected to a power supply. Accidental contact with electrical components could result in personal injury.
2. No touching of electronic areas with hands or other tools when the machine is powered on.

Laser Safety

Warning and instruction signs

WeCreat Lumos Flex is marked with warning and instruction labels in locations where physical injury or product damage may occur prior to or during operation. Should any label become damaged or lost, replace it immediately. The template provided below can be used to print the labels you require.



Caution! Use of controls or adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure.

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, 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.

Laser Safety

RF exposure statement

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of $d=20$ cm between the device and the human body. To maintain compliance with RF exposure requirements, use product that maintain a 20cm distance between the device and the human body.

This device may be used in each member state.

Wireless Specifications

Bluetooth

Wireless Technology: BLE 5.0
Operating Frequency: 2402-2480MHz
Transmit Output Power: ≤ 5 dBm

2.4GHz Wi-Fi

Wireless Connectivity: IEEE 802.11b/g/n, up to 40MHz
Operating Frequency: 2412-2452MHz
Transmit Output Power: ≤ 15 dBm

Main Specifications

Product name	WeCreat Lumos Flex
Size (W × D × H)	242mm*269mm*337mm
Voltage	100-240V DC24V 7A
Connection mode	WiFi, USB, IP, Bluetooth
Laser module	15W blue-light diode laser 15W Fiber laser
Laser power	Blue-light laser: 450 ± 5 nm Fiber laser: 1064 ± 1 nm
Internal working area	116mm x 116mm
Maximum processing speed	10,000mm/s

The dual-laser WeCreat Lumos Flex includes a 15W blue-light diode laser and a 15W fiber laser. You can switch between them easily with one click in the WeCreat MakeIt! software.

Meet WeCreat Lumos Flex

Start Button

Quick press **Start** button to begin processing.
Press and hold **Start** button to cancel the current task.



Protective Enclosure

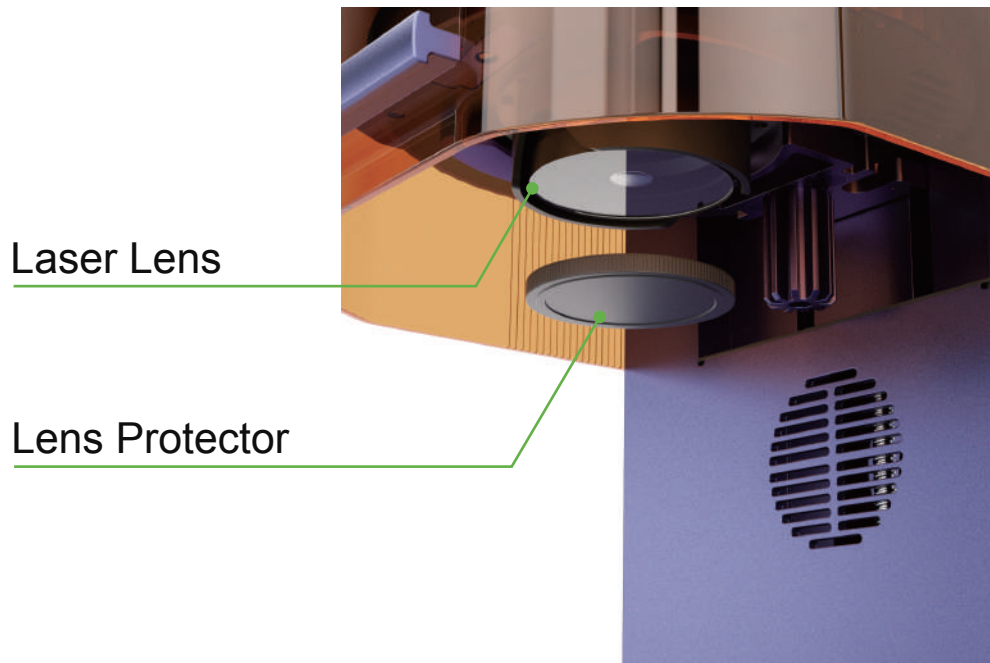
Handle



Exhaust Fan

Removable Working Panel

Meet WeCreat Lumos Flex



Manual Focus Knob

Auto Focus Button

Long Press to do it

Aux Port

Rotary Port

USB Port

Power Port

Exhaust Port

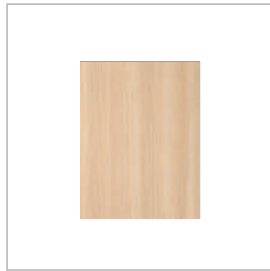
On/Off Switch



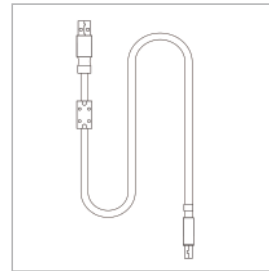
What's In the Box



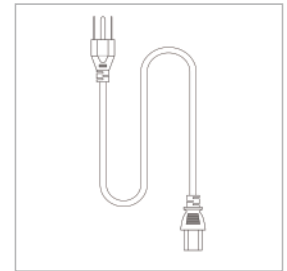
User Manual *1



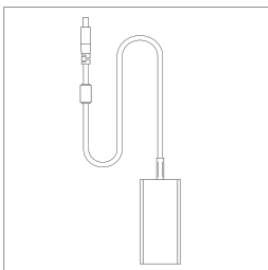
Basswood *1



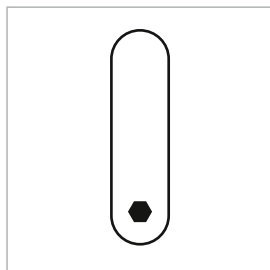
USB Cord*1



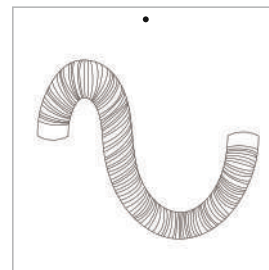
Power Cord *1



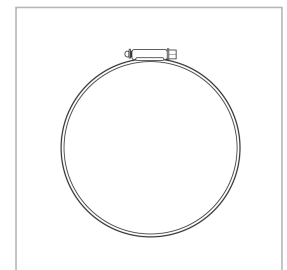
Power Adapter *1



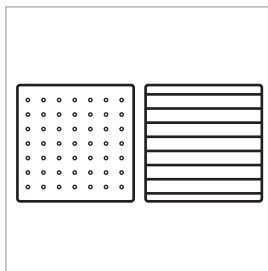
Wrench *1



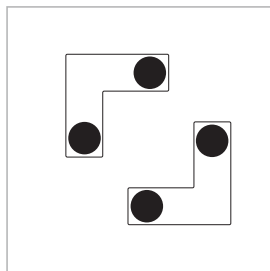
Exhaust Hose *1



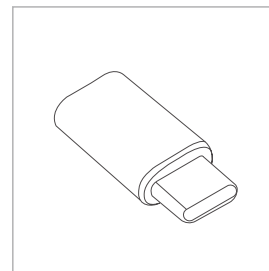
Exhaust Hose
Clamp *1



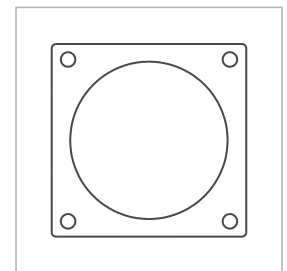
Working Panel*2



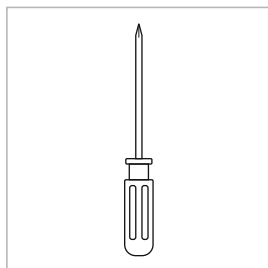
Positioning Piece *2




USB type-c Converter*1



Exhaust Hose
Connector *1



Screwdriver *1

 Save the packaging! If you would like to move your Lumos Flex, or ship it (for example, for gift or warranty purpose), check this manual or our unboxing video to learn how to pack it in the right way. Only the original boxes and foams can ensure a safe transportation.

Using WeCreat Lumos Flex

Preparations

- 1 Connect the exhaust hose. Remove the screws, then install the exhaust clamp to secure the hose.

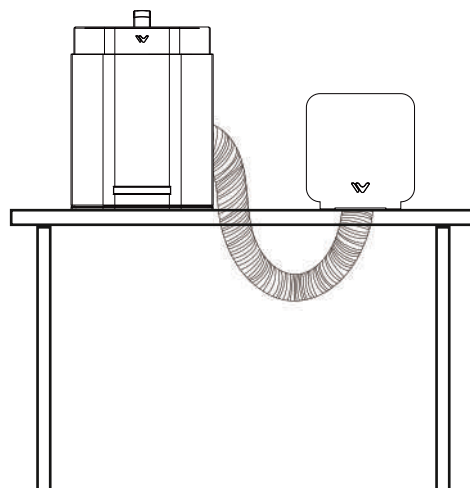
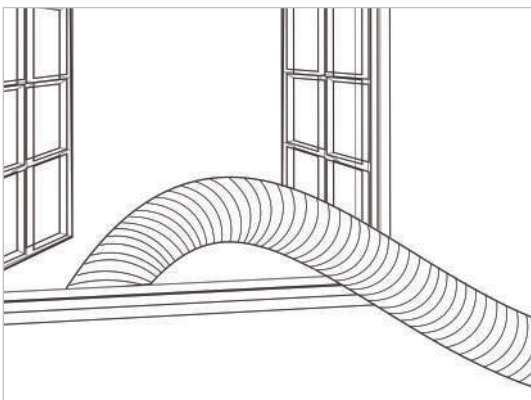


- 2 Put the other end of the hose outside the window, or connect to the WeCreat Fume Extractor (sold separately).

Note: When the WeCreat Lumos is not in use, disconnect the hose from the machine or remove it from the window to avoid moisture/dust come into the machine and cause damage.



Using an exhaust hose extension may weaken the exhausting capacity of the machine, resulting in smoke leakage.

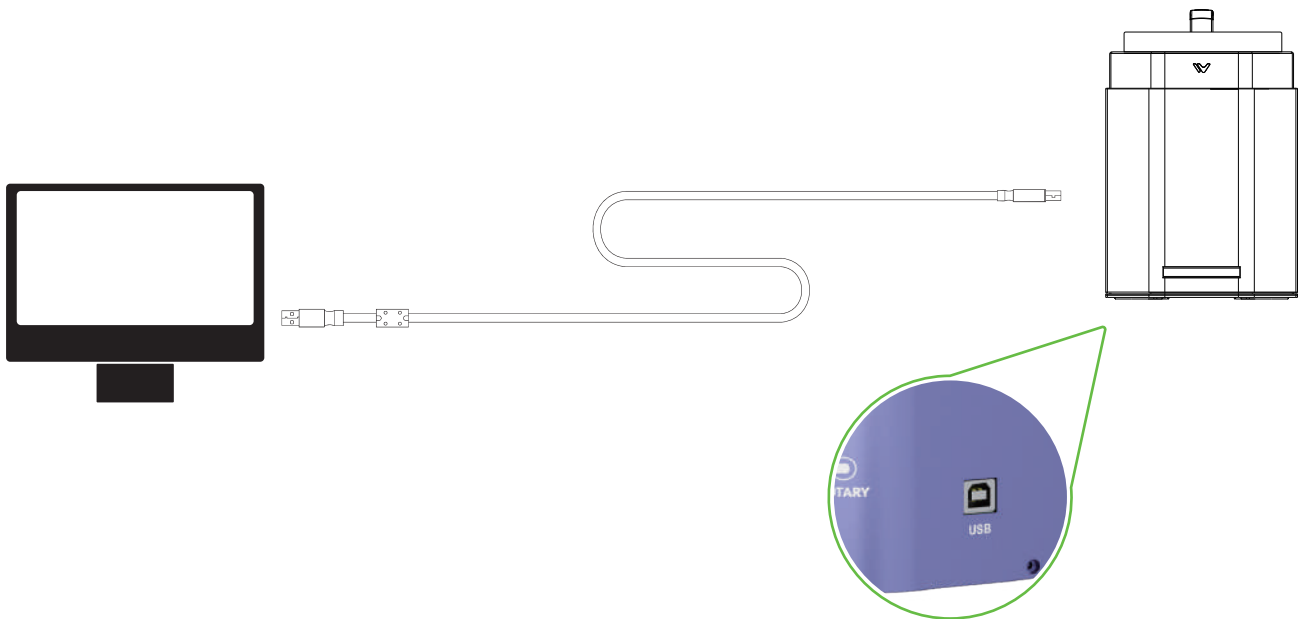


Using WeCreat Lumos Flex

3 — Connect power supply.

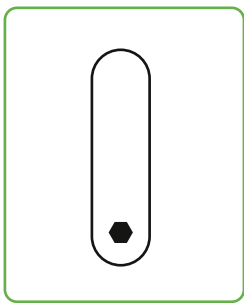
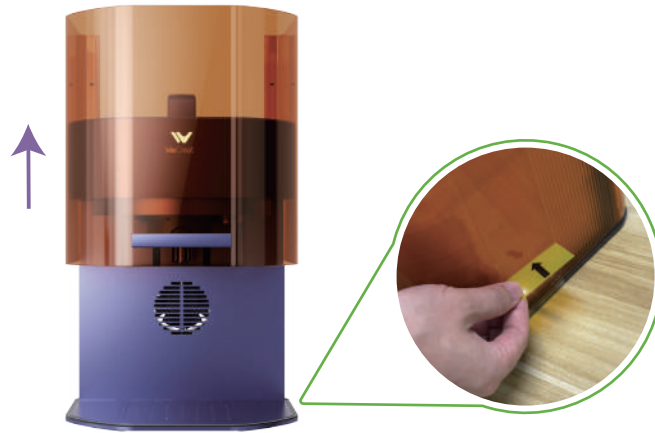


4 — Connect the USB cable.

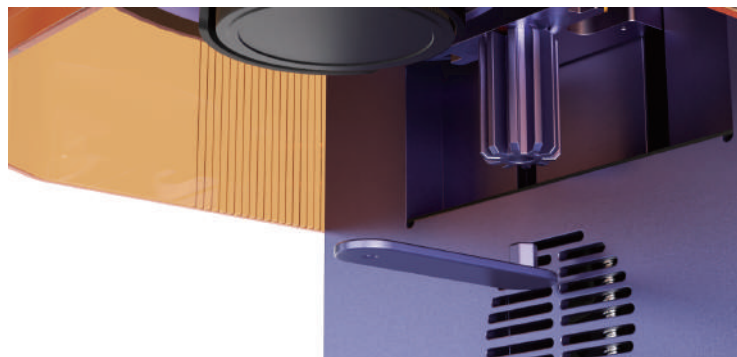


Using WeCreat Lumos Flex

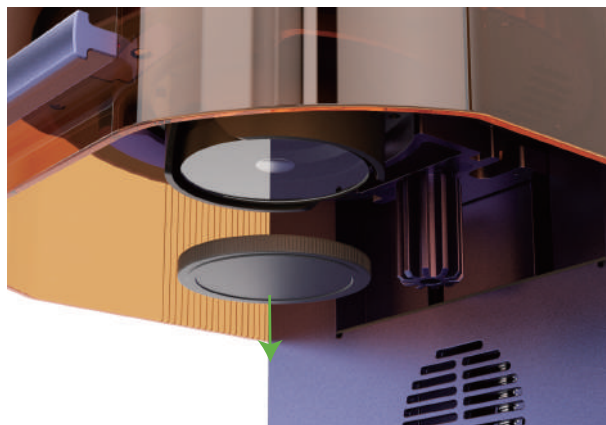
- 5 → Use the included wrench to fasten the laser module.



Wrench



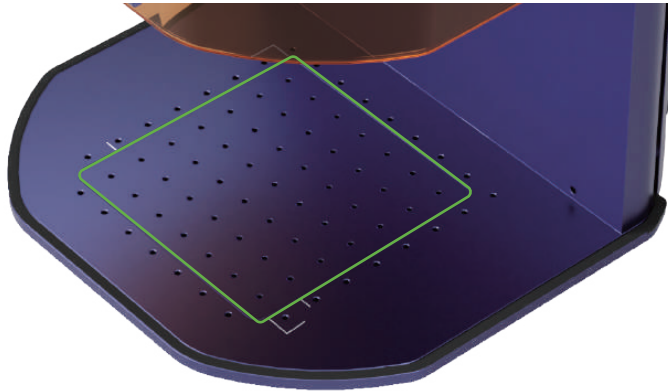
- 6 → Remove the laser lens protective cover.



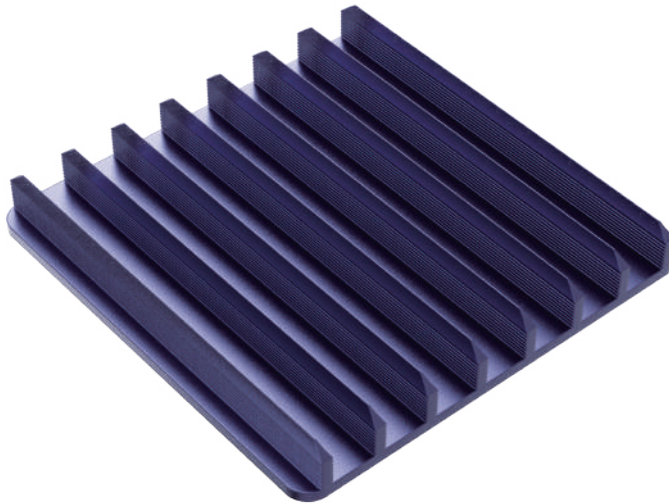
Note: Inspect the lens itself for looseness and tighten if necessary.

Using WeCreat Lumos Flex

- 7 — Place the working panel.



Note: for cutting, please install the triangle prism panel.

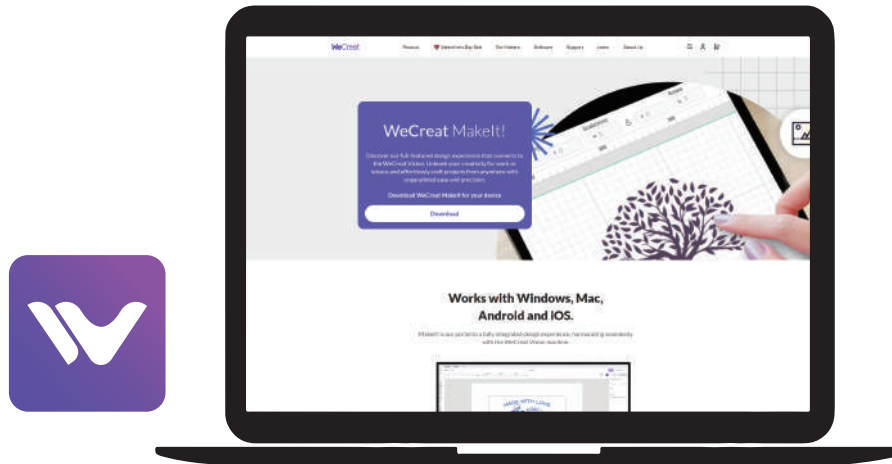


At this point, the hardware setup is now complete and ready for operation.

Using WeCreat Lumos Flex

Using software to operate WeCreat Lumos Flex

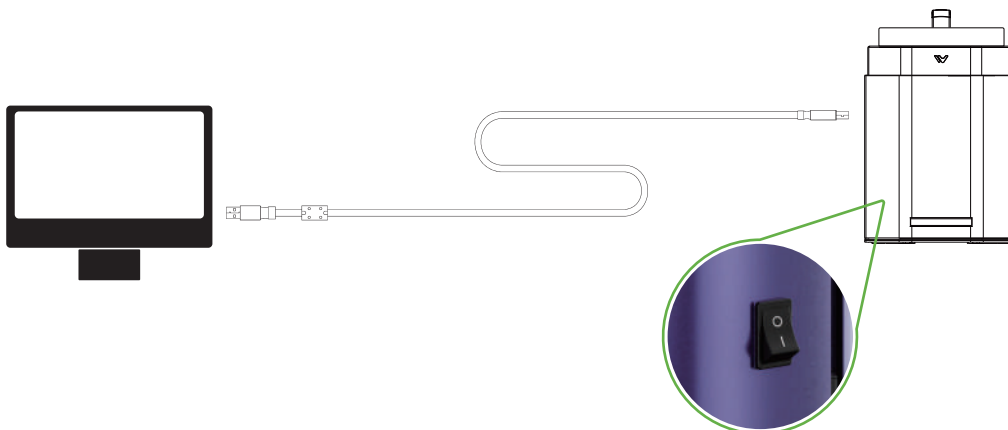
1. Visit <https://wecreat.com/pages/software> to download and install WeCreat Makelt! software.



You can click the link below to view the minimum system requirements for running the WeCreat Makelt! software.

<https://wecreat.com/pages/minimum-and-recommended-computer-configuration-requirements>

2. Insert the USB cable into a USB port on a PC, Turn on Lumos Flex and connect it to the Makelt software.



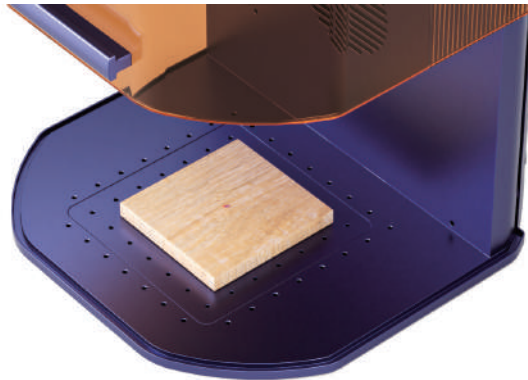
You can begin creating once you have connected the Lumos Flex to the WeCreat Makelt software. Visit support.wecreat.com for details on how to use Makelt to operate the Lumos Flex for material processing.

Using WeCreat Lumos Flex

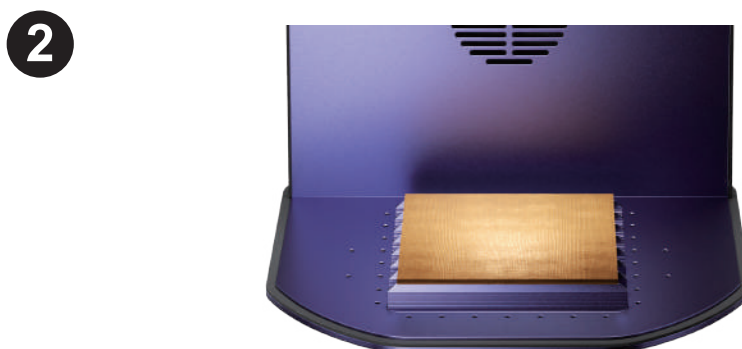
Multiple application scenarios

Processing small-size materials

1. Place the working panel. Place a wooden board on the working panel.



2. When cutting materials, it is recommended that you use the triangular prism working panel. This reduces the area burned during processing and protects the baseplate.

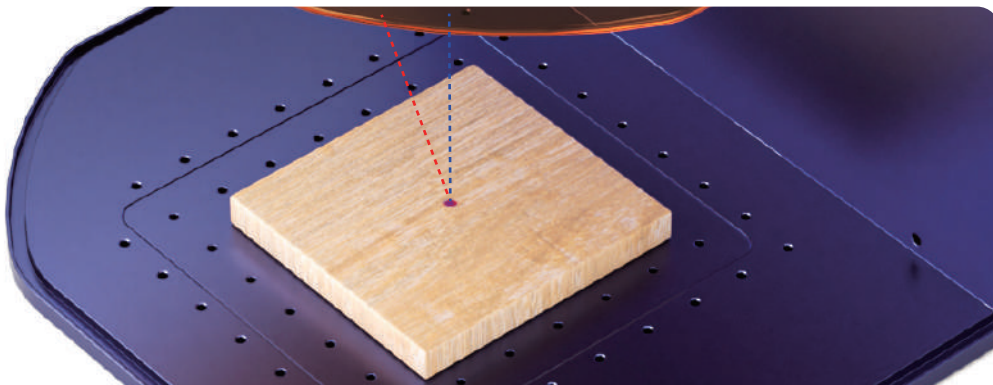
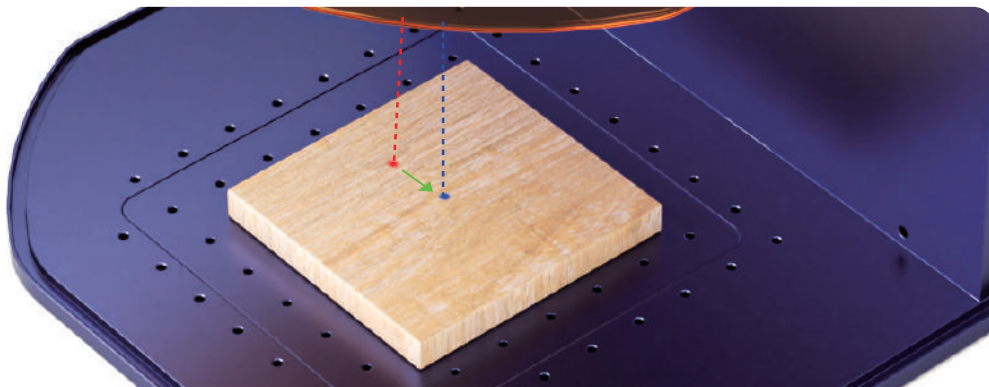


Using WeCreat Lumos Flex

Manual focus setting

Turn the knob to move the laser module up and down. The focus is successfully set when the red light and the blue light dots overlap.

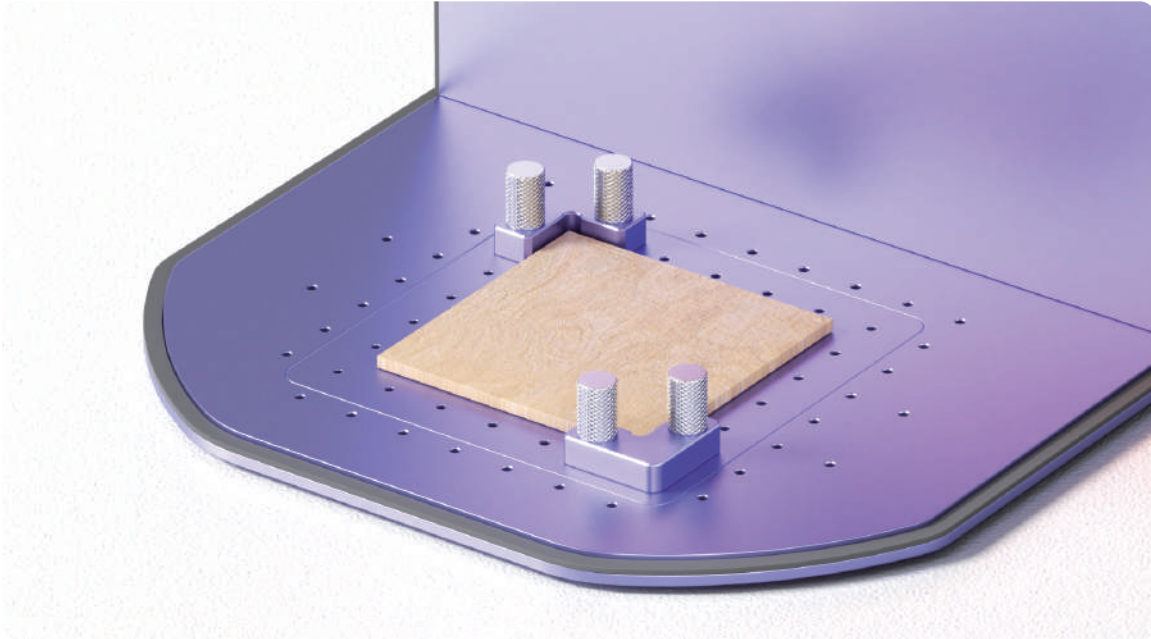
Manual Focus Knob



Using WeCreat Lumos Flex

Batch processing

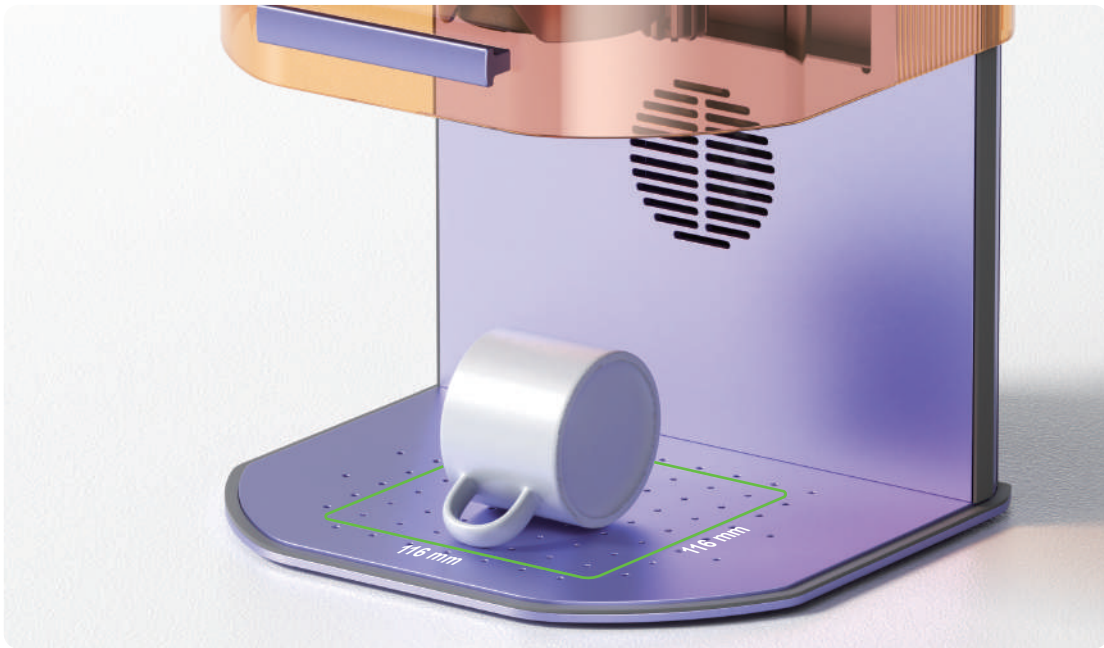
The L-shaped positioning piece assists you in placing materials in the same exact position every time during batch processing.



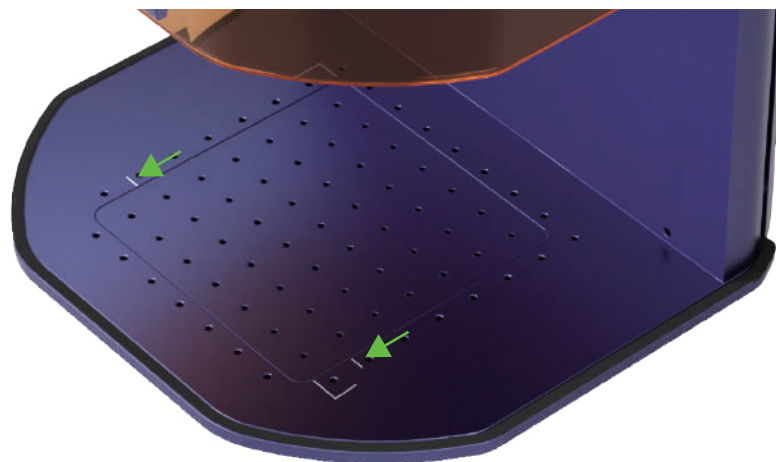
Using Rotary Attachment

💡 No rotary attachment is included with the machine and must be purchased separately.

1. Place a tumbler on the working panel.
2. Confirm that the engraving area on the tumbler is within the working area of Lumos Flex (116 mm x 116 mm).

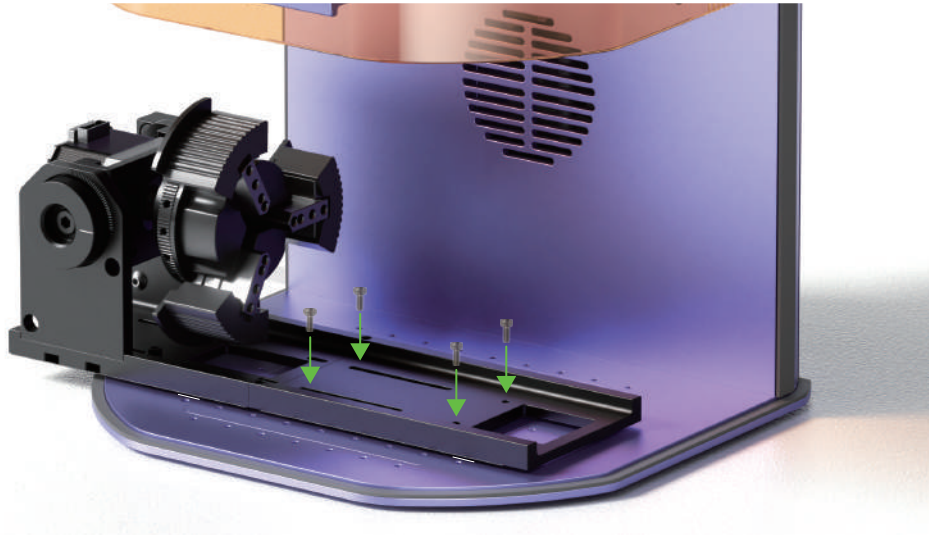


3. Position the rotary attachment according to the current tumbler position, ensuring that its edge is aligned with the white guide lines on both sides.

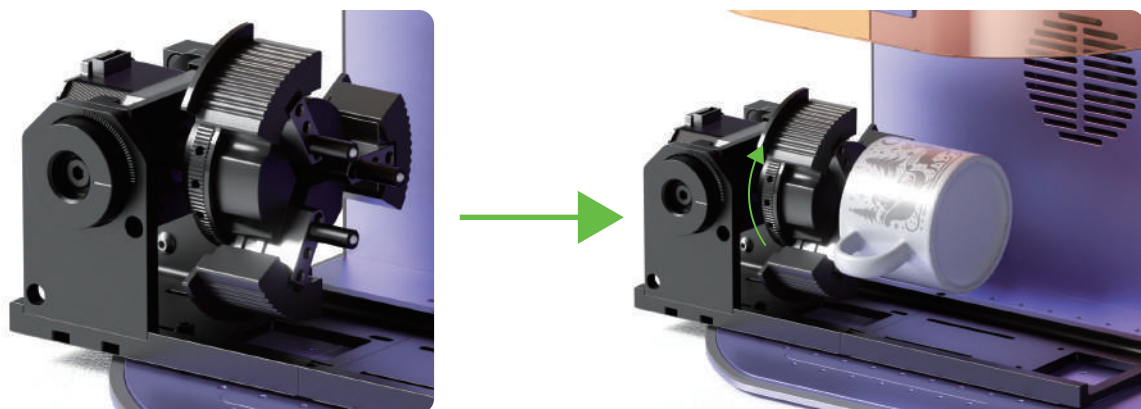


Using Rotary Attachment

4. Secure the rotary attachment with screws.



5. Select the appropriate jaws to hold the tumbler. Rotate the gear to secure it firmly in place.



💡 For full-wrap engraving on a 40oz Stanley tumbler, the Rotary Attachment and Slider Extension are required.

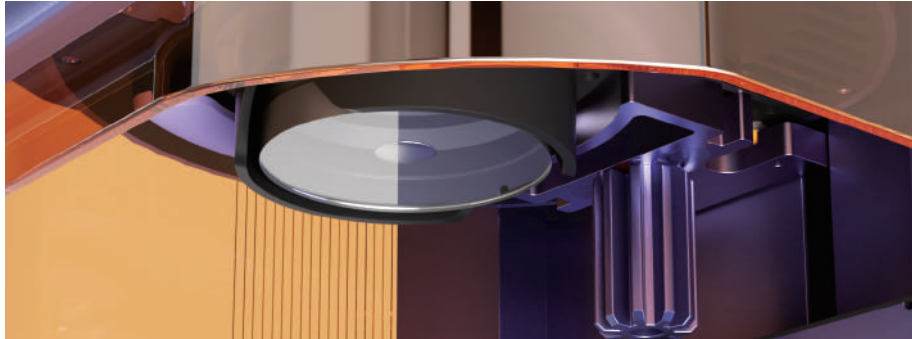
Using Rotary Attachment

6. Connect the rotary cable to the Rotary Port on the rear of the Lumos Flex.



Maintenance

1. If you notice reduced cutting/engraving performance (e.g., faint patterns or incomplete cuts), the field lens may need cleaning. Gently wipe the lens with an alcohol-moistened, lint-free cloth.



2. If you notice dust accumulation on interior surfaces or viewing windows, please clean it with the lint-free cloth moistened with alcohol.



3. If you notice smoke lingering in the workspace or weakened airflow from the exhaust port, the fan may be blocked, please use a cotton swab or a compressed air blower to clean it.



Appendix

After-Sales Services

On a mission to make laser engraving easier to everyone, WeCreat group is here to help.

For after-sales services, WeCreat can be reached via

Telephone: +1 425-939-3933 Mon- Fri, 9 am - 6 pm EST, 10 am - 7 pm EDT

Email: support@wecreat.com

Website: www.wecreat.com

Warranty

Within the initial one-year warranty period, we offer comprehensive technical support for any issues you may encounter.

Please click on the link below for more details. This limited manufacture's warranty does not affect any statutory warranty provided by law.

<https://wecreat.com/pages/warranty-policy>

Customer Support

Please visit the WeCreat Support Center for more setup, maintenance and application tutorials and questions.

<https://support.wecreat.com>

If you need more support, please try one of the following two options. We will get in touch with you as soon as possible.

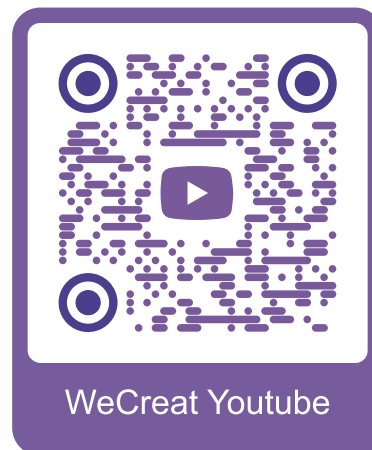
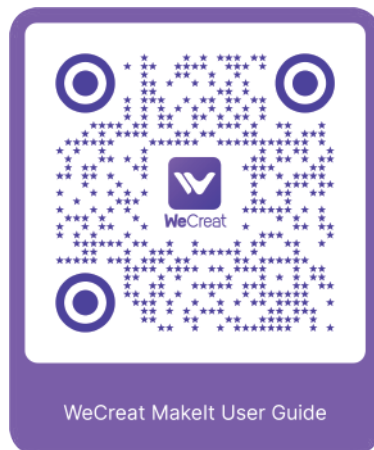
1. Submit a support ticket at <https://support.wecreat.com>.
2. Directly send us an email: support@wecreat.com

Join Our Community.



WeCreat Makeit! User Guide

Video Quick Start Guide



Let's Create with WeCreat!
www.wecreat.com