

XTOOL | F2 Ultra UV

Quick Start Guide



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* The English version is the original instructions verified by the manufacturer.

Models by laser safety class

Lasers are categorized into several different classes depending on the extent of the potential hazard associated with the laser, with Class 1 being the least dangerous and Class 4 the most dangerous.

The differences between Class 1 and Class 4 models of xTool F2 Ultra UV are as follows:

Model	Item	Product structure	Assembly	Safety information
Class 1 laser model (Model: MXF-K007-001)	Key and inner engraving pack not included	Without the emergency stop button	Key insertion and emergency stop button check not required	During operation, the protective enclosure remains closed to prevent human access to laser radiation beyond Class 1.
Class 4 laser model (Model: MXF-K007-002)	Key and inner engraving pack included	With the emergency stop button	Key insertion and emergency stop button check required	During operation, if the protective enclosure is open, you may be exposed to Class 4 laser radiation. The Class 4 laser machine is intended for use by trained professionals only.

List of items



xTool F2 Ultra UV



Touchscreen controller



Pipe



Power adapter



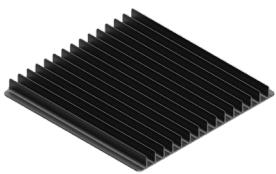
Power cable



USB cable



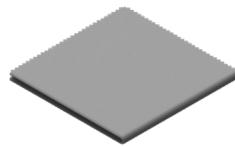
Key



Slatted panel



L-shaped positioning piece



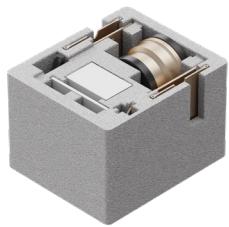
Lint-free cloth



Screwdriver 2.5 mm



Surface engraving material pack



Inner engraving pack



Quick Start Guide



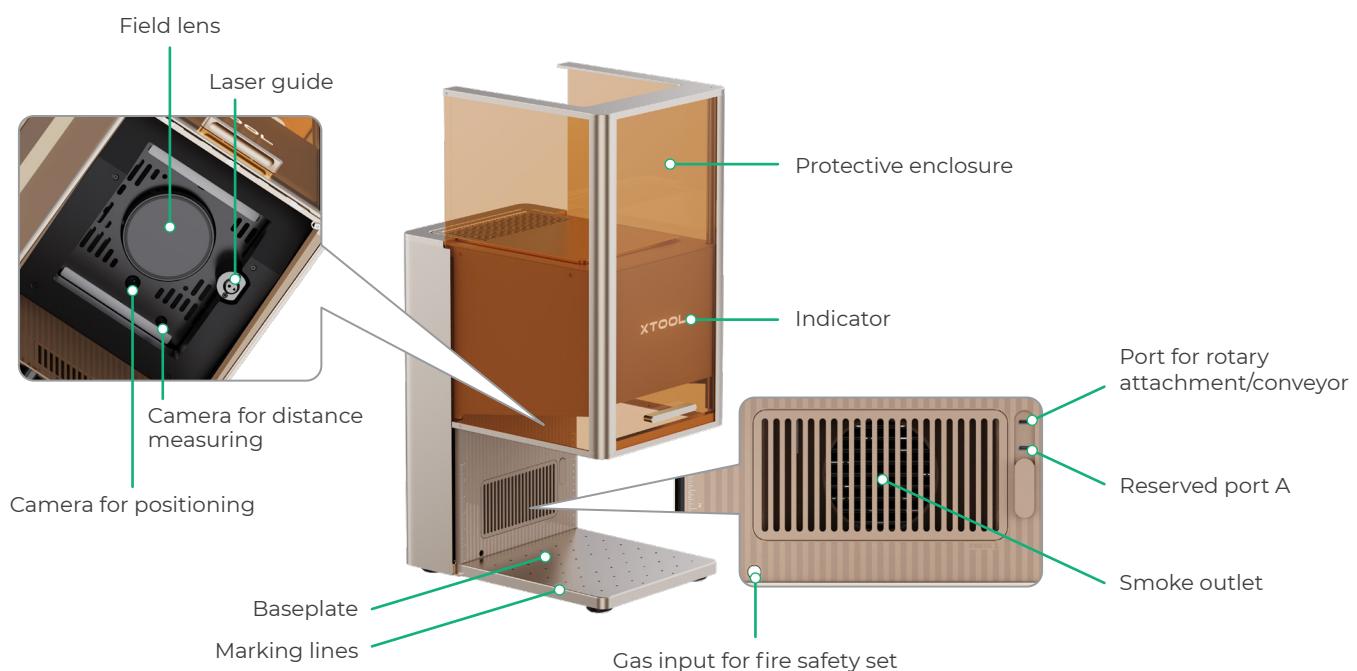
Safety Instructions

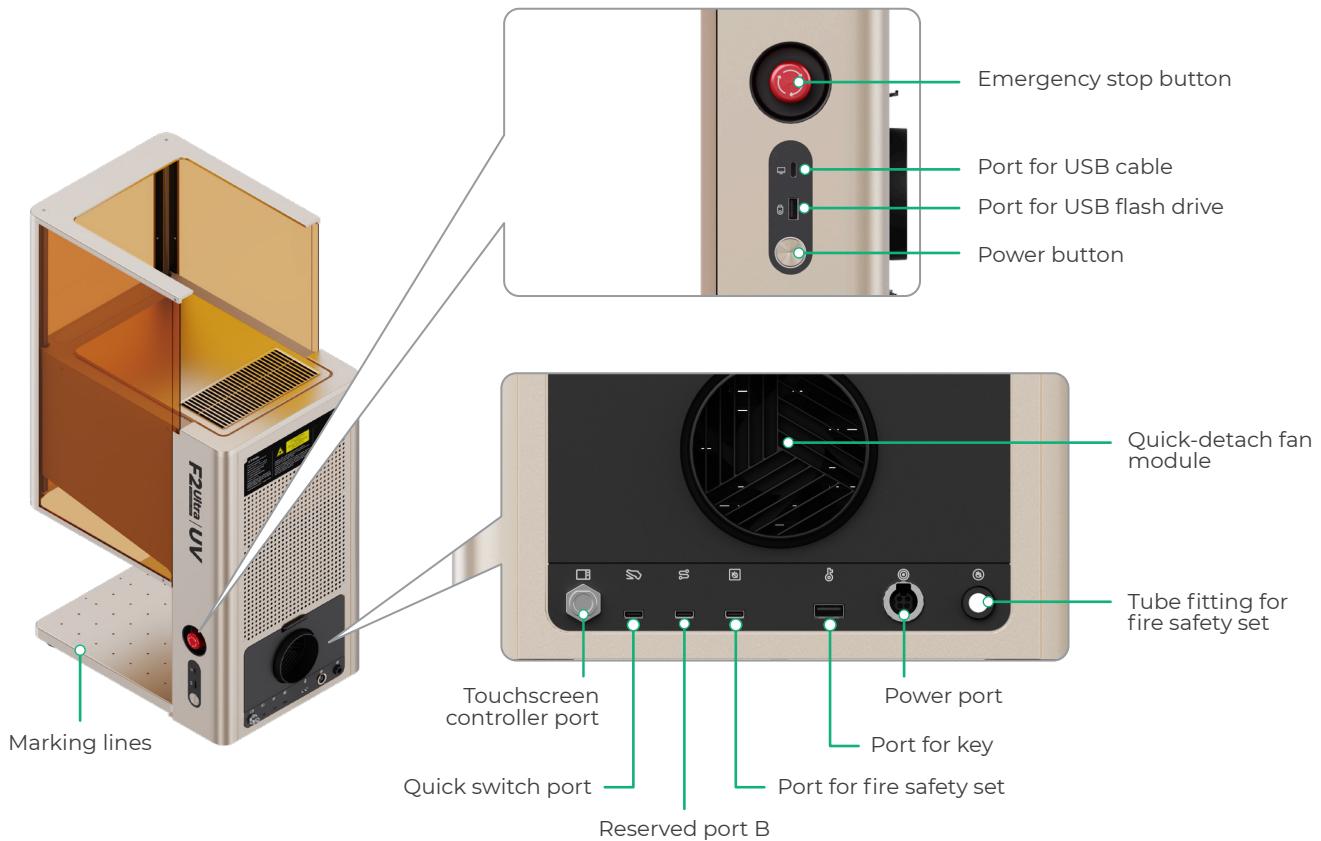


The key and inner engraving pack are not included with Class 1 laser machines.
The power cable may vary according to kits. The illustration is for reference only.

Meet xTool F2 Ultra UV

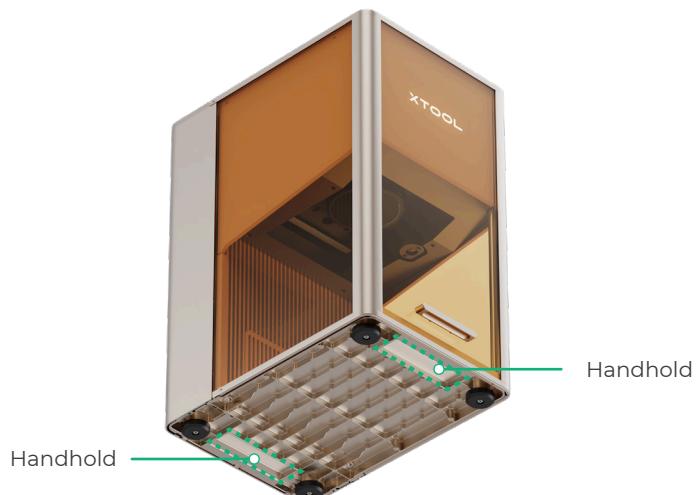
Product structure





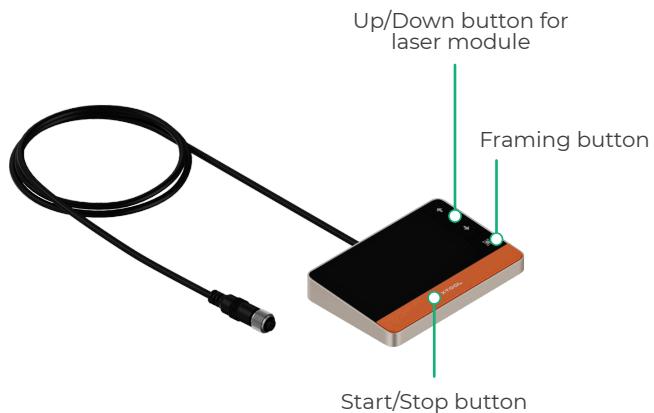
 Reserved port A and reserved port B function differently and can not be used interchangeably.

 Class 1 laser machines do not include an emergency stop button.



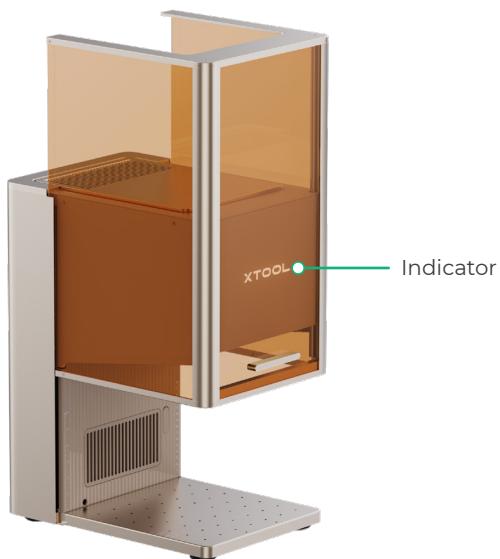
 By gripping on the handholds, you can easily move the machine.

Touchscreen controller



- **Up/Down button for laser module:** Lifts or lowers the laser module during manual focusing.
- **Framing button:** Press it once to start or stop framing.
- **Start/Stop button:** Press it once to start or stop material processing; press it twice consecutively to repeat the last processing task.

Common machine states and indicator display



Indicator display	Machine state
xTOOL Solid on	Powered on
-xTOOL- Blinking slowly	Processing
-xTOOL- Blinking rapidly	Setting network / Upgrading firmware
xTOOL Going off	Sleeping / Powered off

Specifications

Product name	xTool F2 Ultra UV
Voltage	110 V / 220 V
Surface engraving work area	200 mm × 200 mm
Connection mode	Wi-Fi, USB, IP
Size (W × D × H)	294 mm × 429 mm × 520 mm

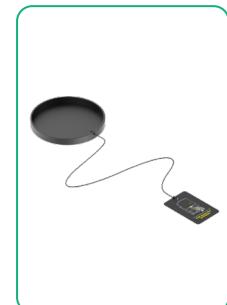
Working laser	5 W UV laser
Working laser wavelength	355 ± 5 nm
Inner engraving work area	70 mm × 70 mm
Maximum processing speed	15,000 mm/s
/	/

Install xTool F2 Ultra UV

1 Detach the field lens protector.



Ensure that the protector is removed every time before you use the machine. If you won't use the machine for a long period of time, you can install the protector back to prevent the field lens from getting dusty.



2 Connect the touchscreen controller.



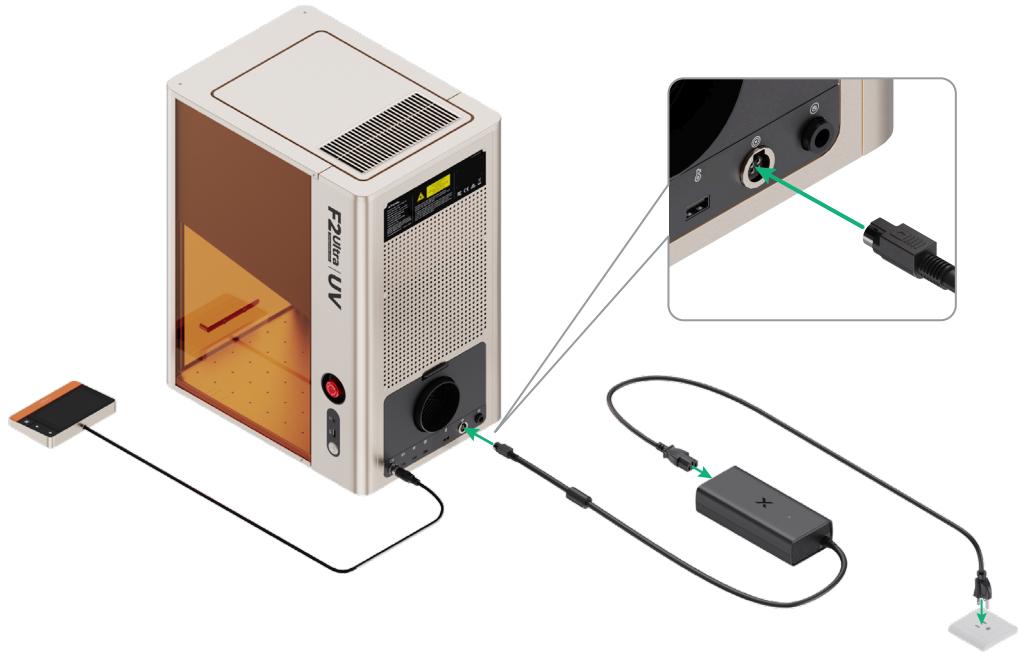
Touchscreen controller



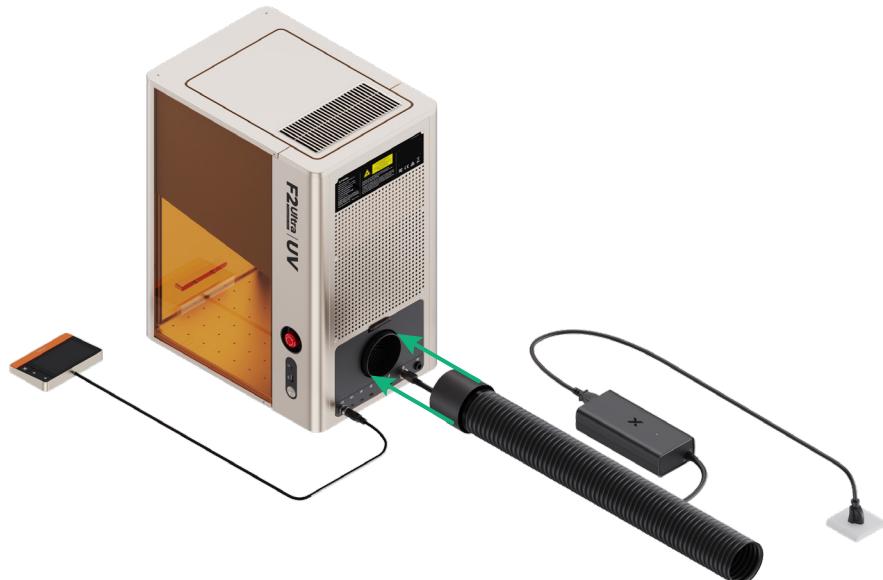
Ensure that the side with the notch faces upward.



3 Connect to a power supply.



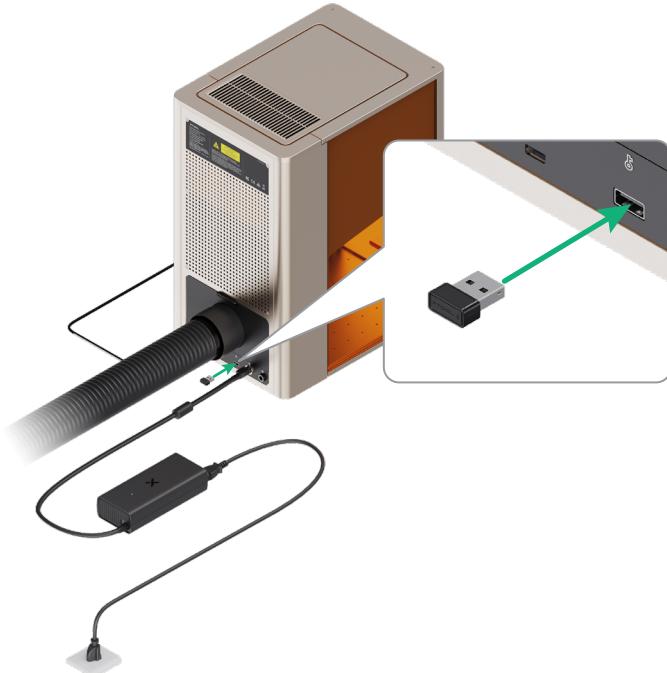
4 Install the pipe.





Steps 5 and 6 do not apply to Class 1 laser machines.

5 Insert the key.



You can use the key either as an access-control key or a remote interlock connector.

Access-control key

Removing the key can disable the machine's processing and related functions.

Remote interlock connector

For detailed instructions, scan the QR code or visit the link.

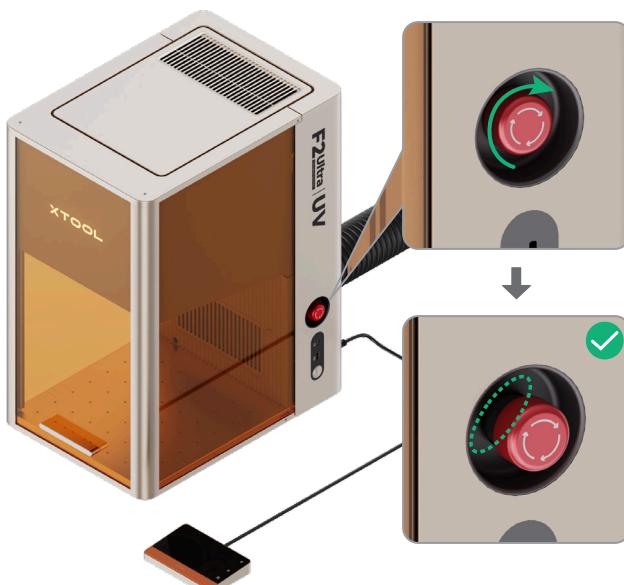


support.xtool.com/article/1367

6 Check the emergency stop button.



Ensure that the emergency stop button is released. If it is pressed, rotate to release it.



Emergency stop button

If an emergency occurs, press the emergency stop button to shut off the machine.

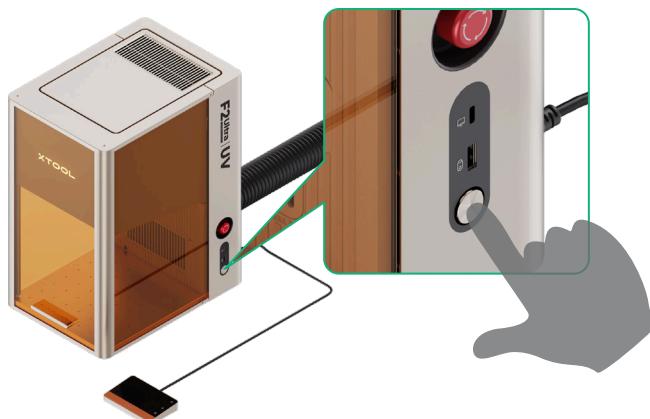


After dealing with the emergency, rotate the emergency stop button to release it.

Use xTool F2 Ultra UV

Power on

Press the power button to turn on xTool F2 Ultra UV.



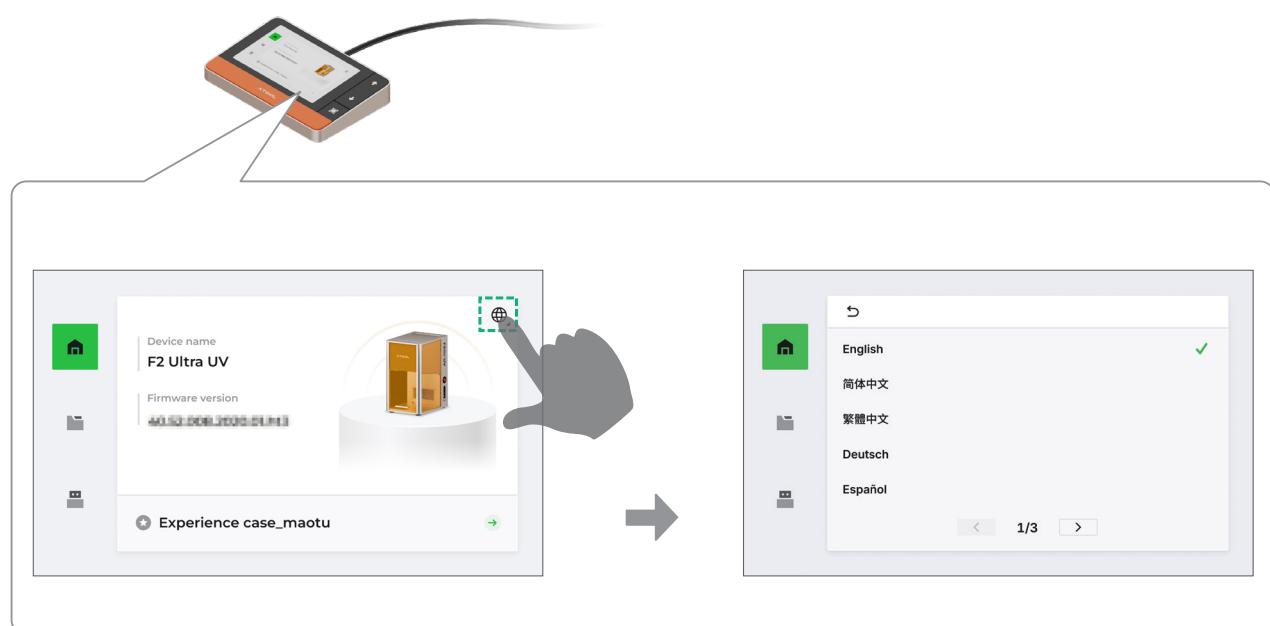
 **For Class 4 laser machines, never use the emergency stop button as a power button.**
Use the emergency stop button only when an emergency occurs. Using it as a power button to turn the machine on or off may cause damage.



 To extend the machine's lifespan, run it at least once every three months.

Set the language

Set the UI language on the touchscreen controller.

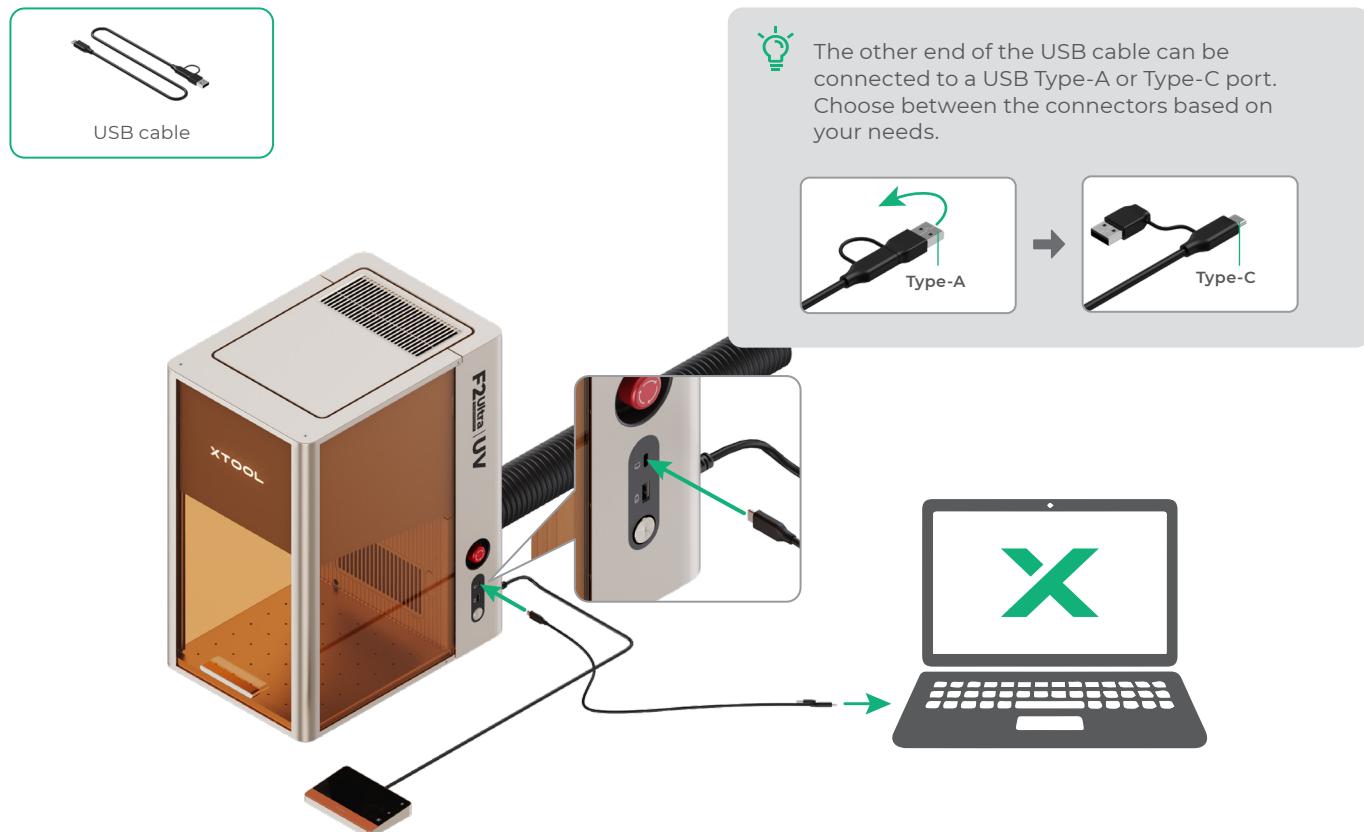


Operate xTool F2 Ultra UV with the software

(1) Visit s.xtool.com/software to download and install the software developed by xTool.



(2) Use the USB cable to connect xTool F2 Ultra UV to your computer, and then connect xTool F2 Ultra UV in the software.



For details about how to use the software to operate xTool F2 Ultra UV to process materials, scan the QR code or visit the link.



support.xtool.com/product/70

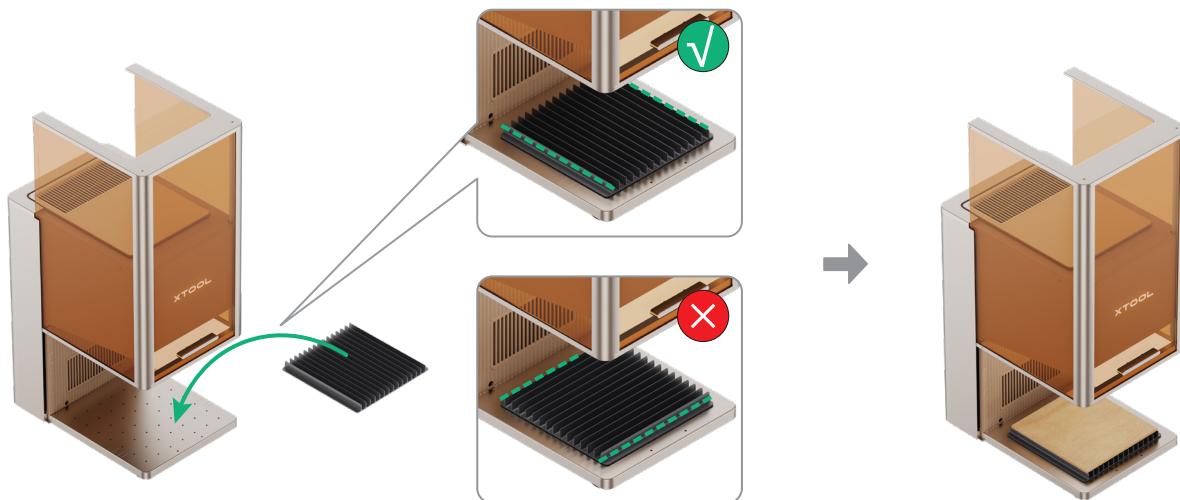
Use accessories

Slatted panel

To cut a material, you are advised to use the slatted panel. It helps reduce burn marks and protects the baseplate during material processing.



Slatted panel

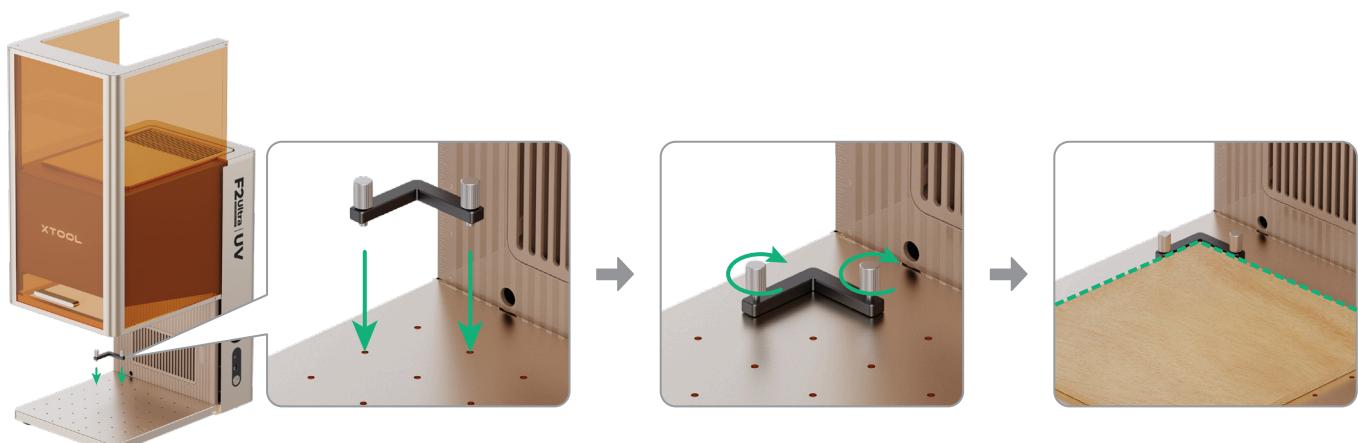


L-shaped positioning piece

You can use the L-shaped positioning piece for batch processing. It helps you place materials in the same position for each processing task.



L-shaped positioning piece



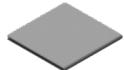
Maintenance



Disconnect power before maintaining the product.

Clean the field lens

When laser power attenuation occurs, for example, engraved patterns are shallow or materials can't be cut as expected, the field lens may get dirty. Clean it with the lint-free cloth moistened with alcohol.



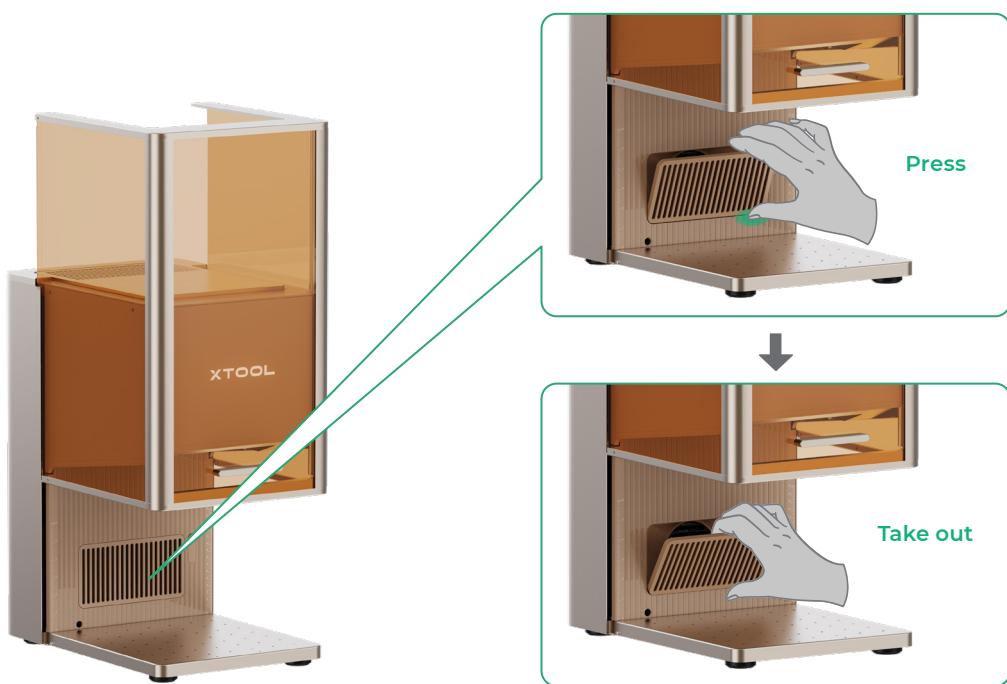
Lint-free cloth



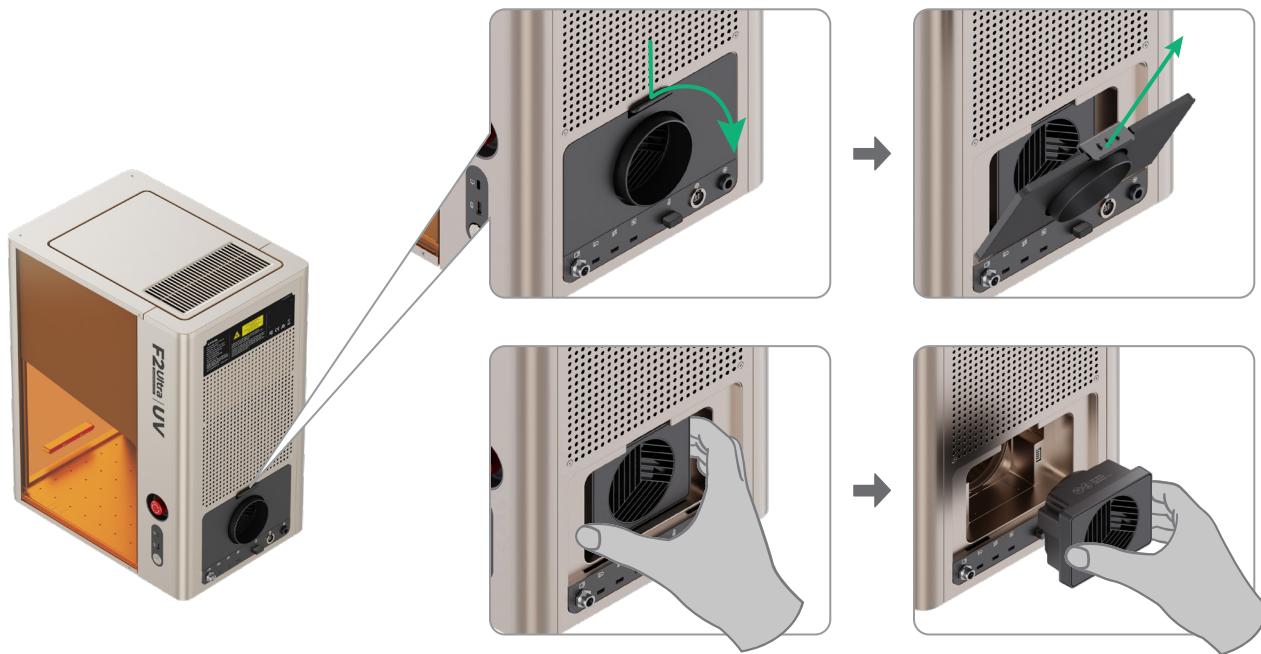
Clean the fan module

When smoke runs out of the protective enclosure, the fan module may be blocked by dust. Clean it to ensure proper smoke exhausting.

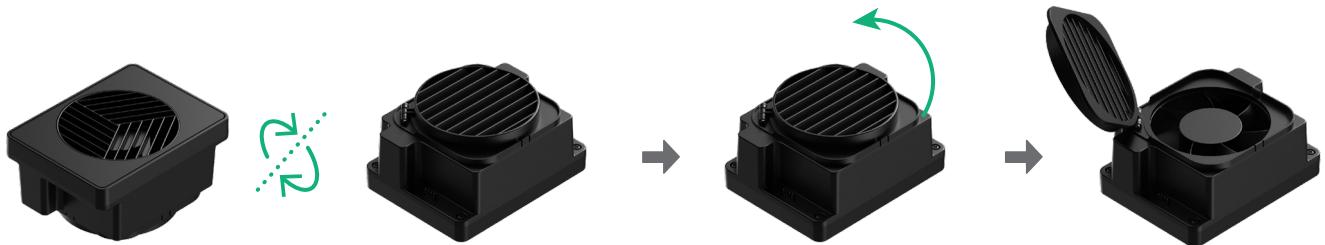
(1) Remove the magnetic fan guard from the smoke outlet.



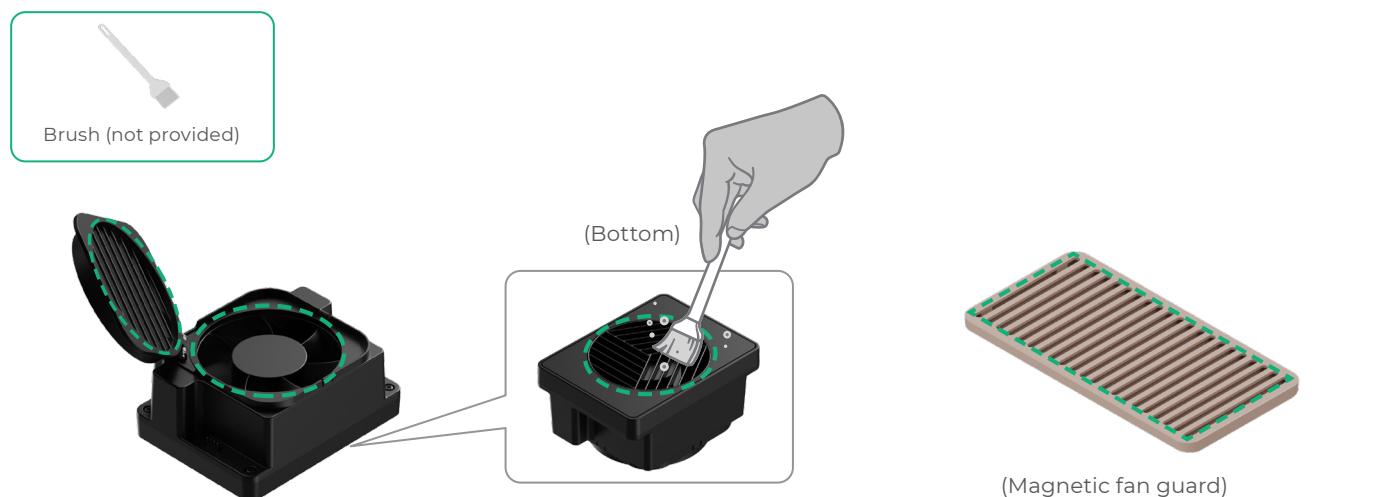
(2) Open the cover, and then take out the fan module.



(3) Open the cover to access the fan.



(4) Use a brush or other tools to clean the fan module and the magnetic fan guard. Then, install them back to the main unit.



Do not rinse or immerse the fan module in water, as it may damage the circuit.

The logo consists of the word "XTROL" in a bold, sans-serif font. The letter "X" is in green, while the letters "T", "O", "O", and "L" are in black. The letters are slightly overlapping, with "T" and "O" on top of "O", and "O" and "L" on top of "L". The logo is centered on a light gray background with a subtle diagonal shadow.