Use xTool Creative Space (XCS) to Operate xTool F1

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Obtain and install XCS

(1) Download the xTool Creative Space (XCS) software applicable to the operating system that runs on your PC.
Go to **xtool.com/software** or click the following links to download XCS.
Windows (Win7+):
https://s.xtool.com/software/download/windows?ref=8nm_j_3zfk8s
macOS (Mojave 10.13+):
https://s.xtool.com/software/download/macos-intel-chip?ref=8nm_j_3zfk8s
macOS (M1/M2 chips):
https://s.xtool.com/software/download/macos-apple-chip?ref=8nm_j_3zfk8s

(2) Double-click the software you've downloaded to install it.

xTool Creative Space.exe

Click **Yes** if you are asked **"Do you want to allow this app to make changes to your device?"** and then continue the installation as prompted.

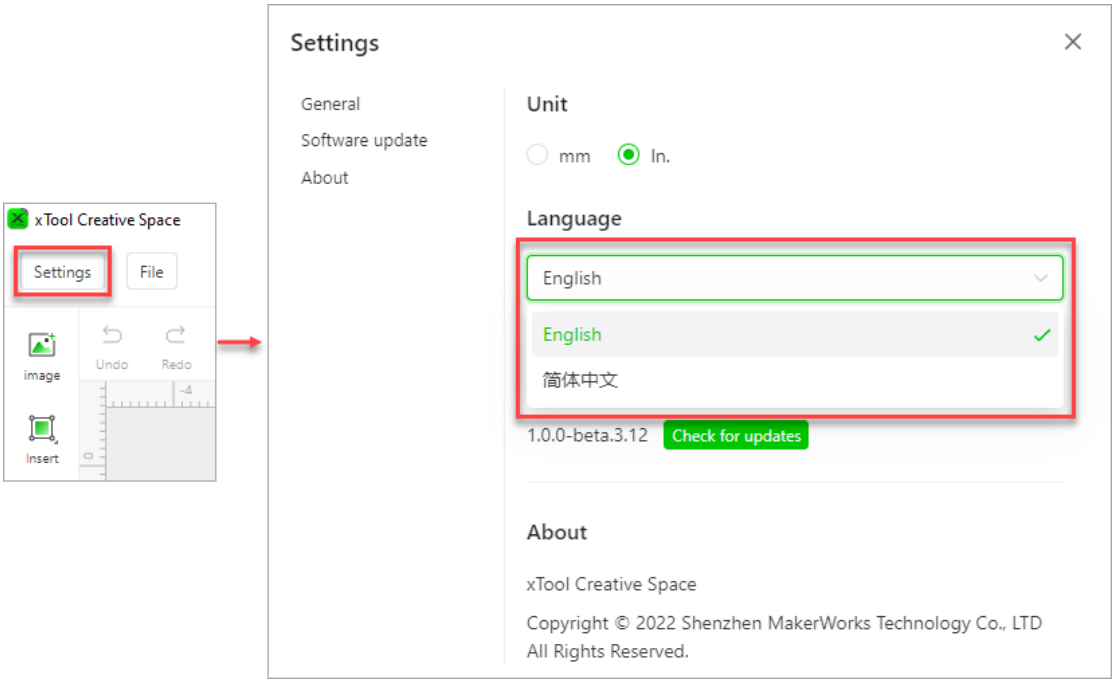
Note:
This article demonstrates you how to operate xTool F1 with XCS on the computer.

You can also download XCS that runs on the mobile phone or iPad from **xtool.com/software** or by searching “xTool Creative Space” in an app store. For more information about how to use XCS that runs on the mobile phone or iPad, see **support.xtool.com**.

Quick start example

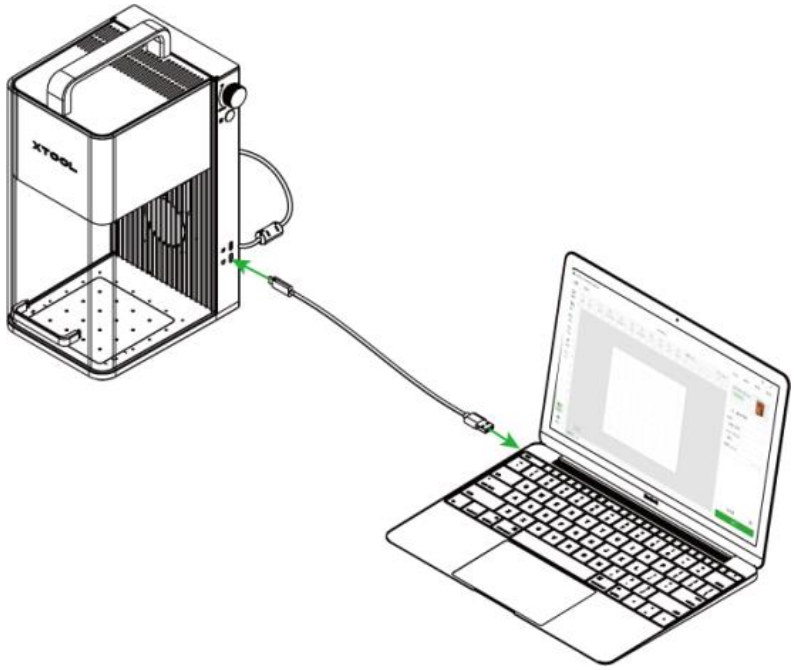
1. Select a language

Open XCS, click **Settings** and select a language.



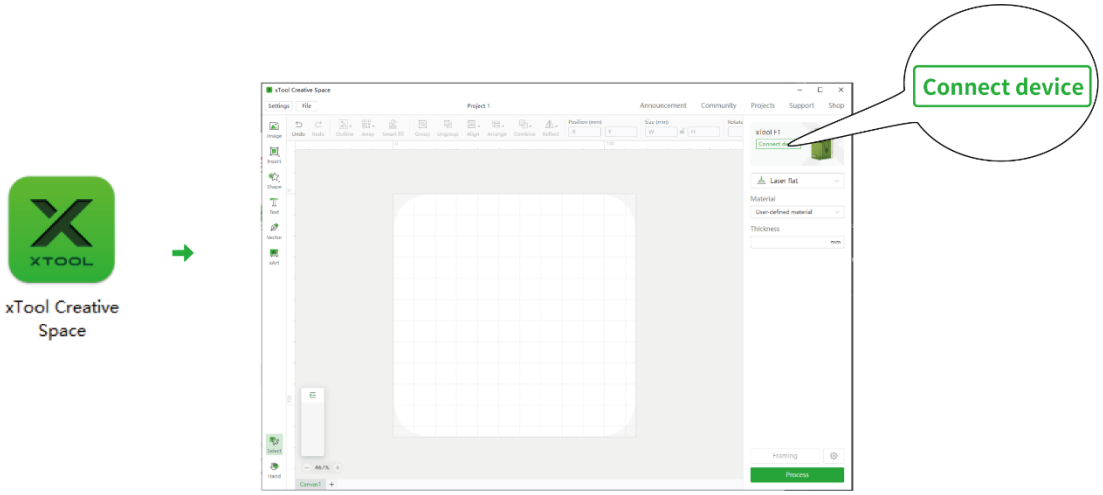
2. Connect xTool F1 to XCS

(1) Use the USB cable to connect xTool F1 to your computer.

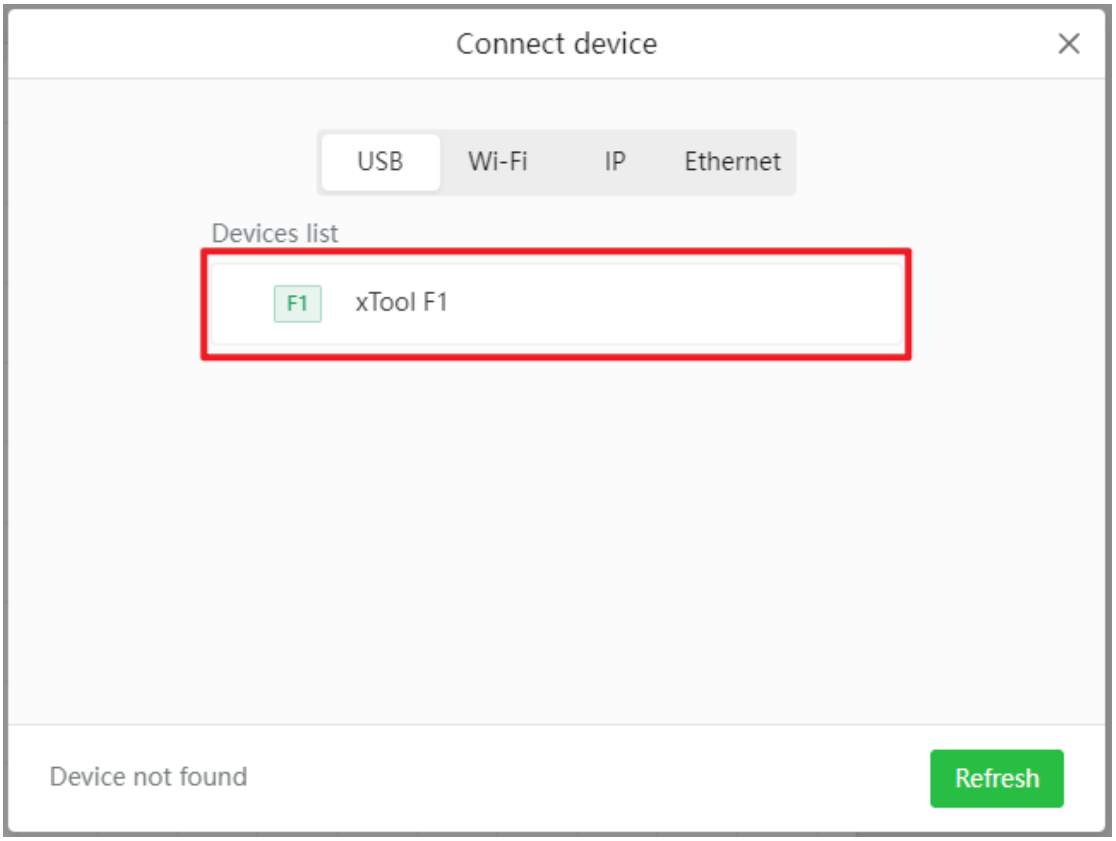


(2) Turn on xTool F1.

(3) On the top-right corner of XCS, click **Connect device**.



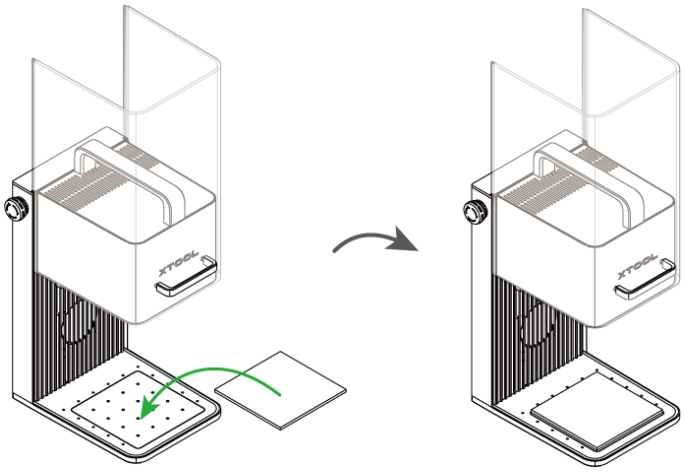
(4) On the pop-up **Connect device** window, click the name of your device to connect it.



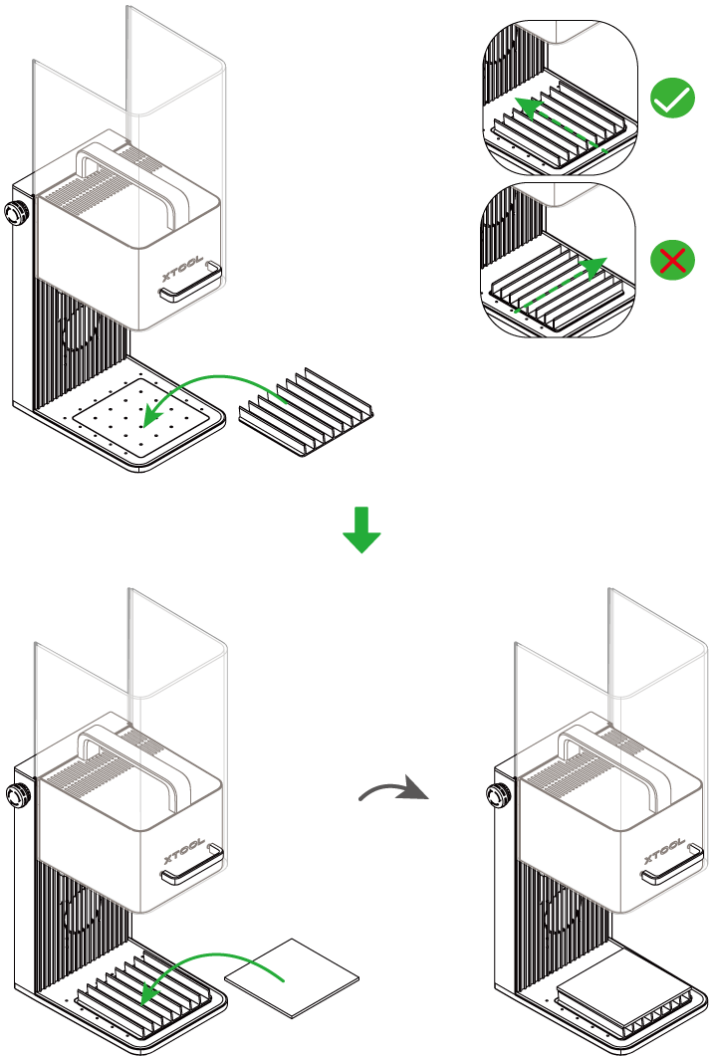
Note: After xTool F1 is connected, you can configure Wi-Fi for the device. This way, you can connect the device to XCS through Wi-Fi next time.

3. Place a material

Ensure that the removable baseplate is installed on the base, and place the material on the baseplate.



If you want to cut the material, you are advised to place the triangular prism working panel on the baseplate first. Then, place the material on top of the triangular prism working panel.



Note:

(1) By using the triangular prism working panel, you can reduce the areas burned during material processing and protect the baseplate. Ensure that the triangular prisms lie towards the smoke outlet.

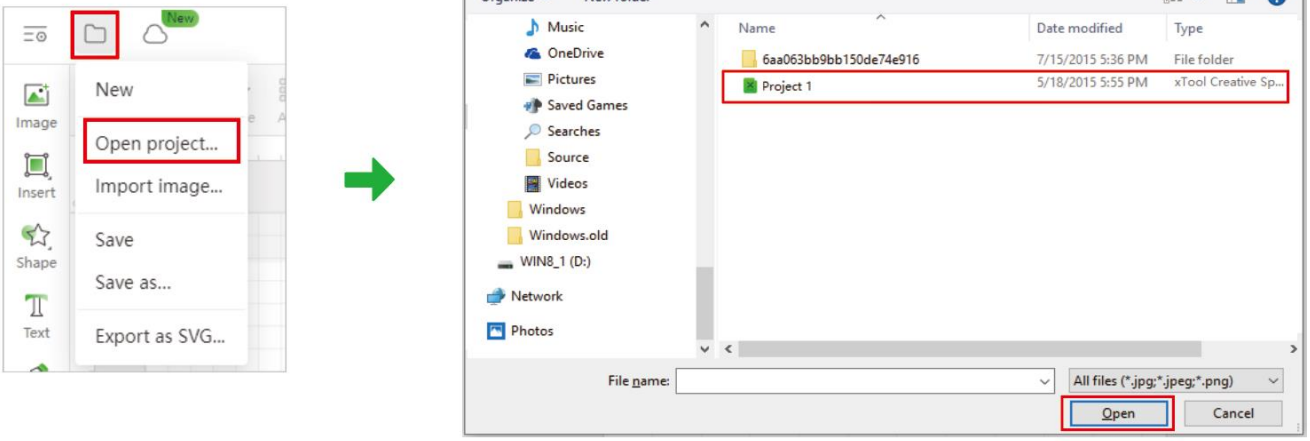
(2) If the size or weight of the material to be processed is very small, you are advised to use tools such as tape to fix the material. Otherwise, the airflow of the exhaust fan may cause the material to change position during processing.

4. Open or create a project

You can open a project to start processing or create a new project. If you create a new project, you need to design patterns and set parameters from scratch.

Open a project

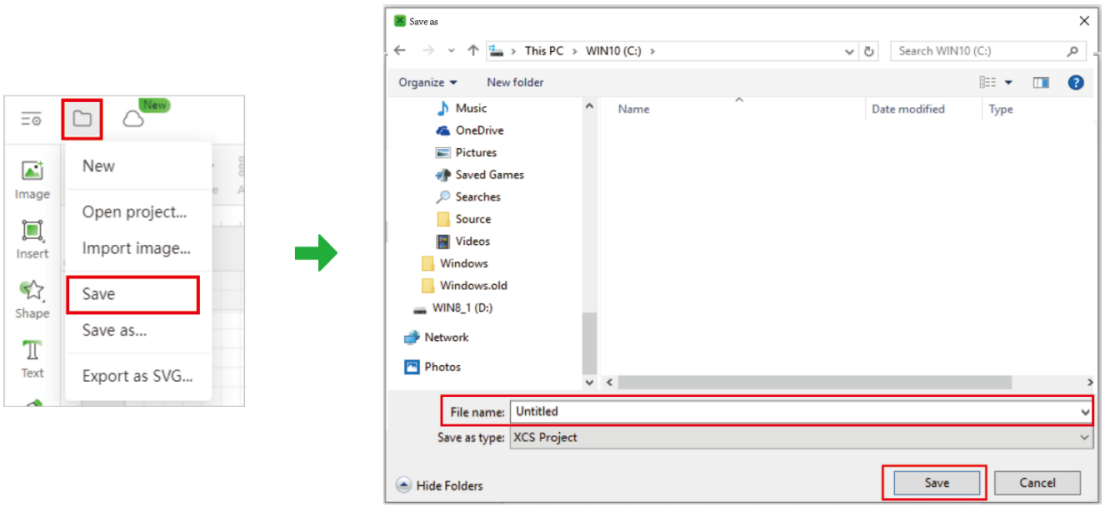
In the upper-left corner of XCS, click the  icon and select **Open project...** In the pop-up window, select a file of the xTool Creative Space Project (.xcs) type and click **Open**.



Note: A project file can contain information such as processing patterns, processing modes, and processing parameters. However, if the machine model, processing mode, or material thickness used in the project differs from the current situation, you need to reset the corresponding parameters.

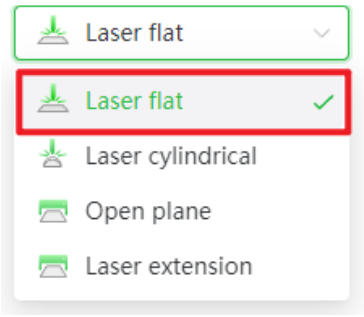
Create a new project

When you open XCS, a new blank project will be created by default. You can click the  icon and select **Save** in the upper-left corner of XCS to name and save the project.

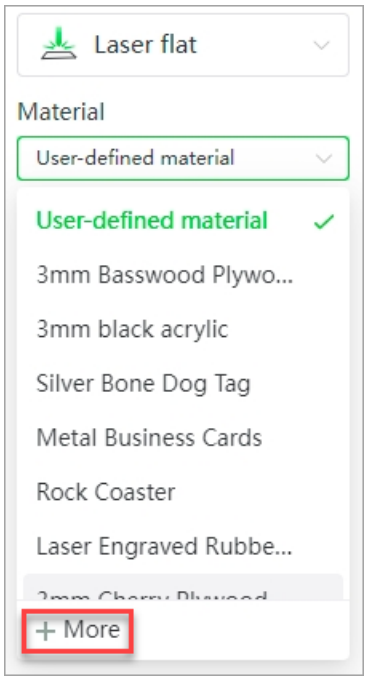


5. Select the processing mode and material name

(1) On the right side of XCS, select **Laser Flat**.



(2) In the drop-down list of **Materials**, select the name of your material.



Note:

(1) If you can't find your material in the list, you can click **+ More** to search among more materials in the **xTool SELECTED** online material center. If you still can't find the name of your material, you can select **User-defined material**.

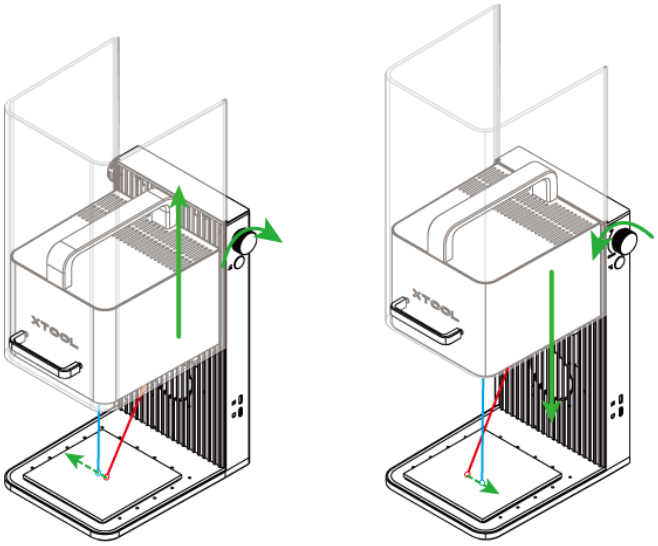
(2) After you select a material on the **Material** list or **xTool Selected** online material center, the software will automatically focus and set other parameters for laser processing. The default settings apply to xTool materials. You can adjust the settings based on your needs.

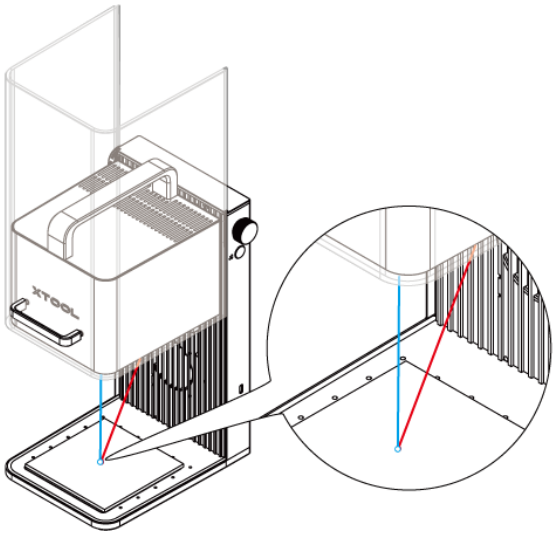
6. Set the laser focus

xTool F1 supports manual focusing and autofocusing. You can choose the focus way you like.

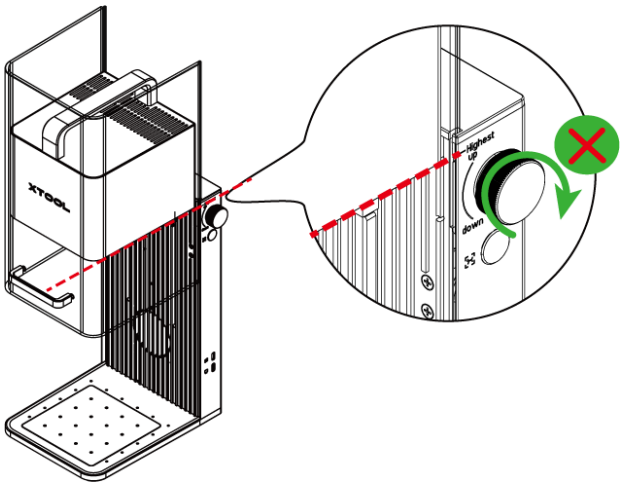
Manual focus setting

Turn the knob to move the laser module up and down. When the red and blue light spots coincide, the focus is successfully set.



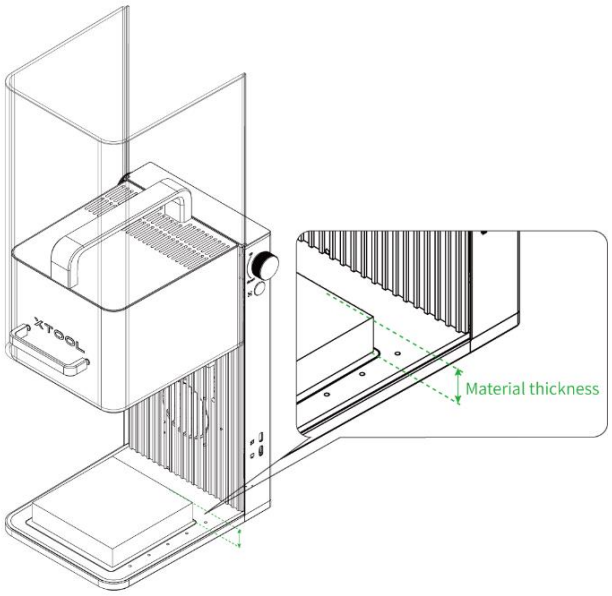


Note: When the bottom of the laser module reaches the highest point, stop turning the knob up.



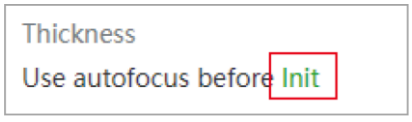
Auto focus setting

(1) Measure the material thickness.



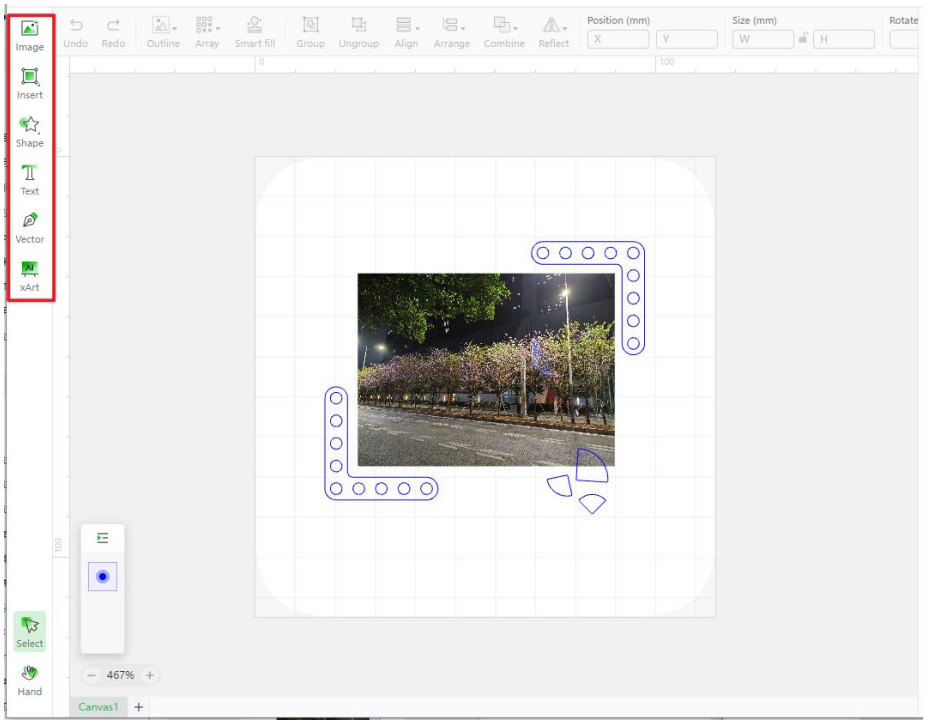
(2) On the right side of the home screen of XCS, enter your measurement in **Thickness (mm)**. And then, the machine will automatically focus.

Note: If you are using Auto Focus for the first time after xTool F1 is turned on, you need to initialize xTool F1, so as to make its laser module back to the original position. Under **Thickness**, click **Init**, and then the laser module will move back to the original position.



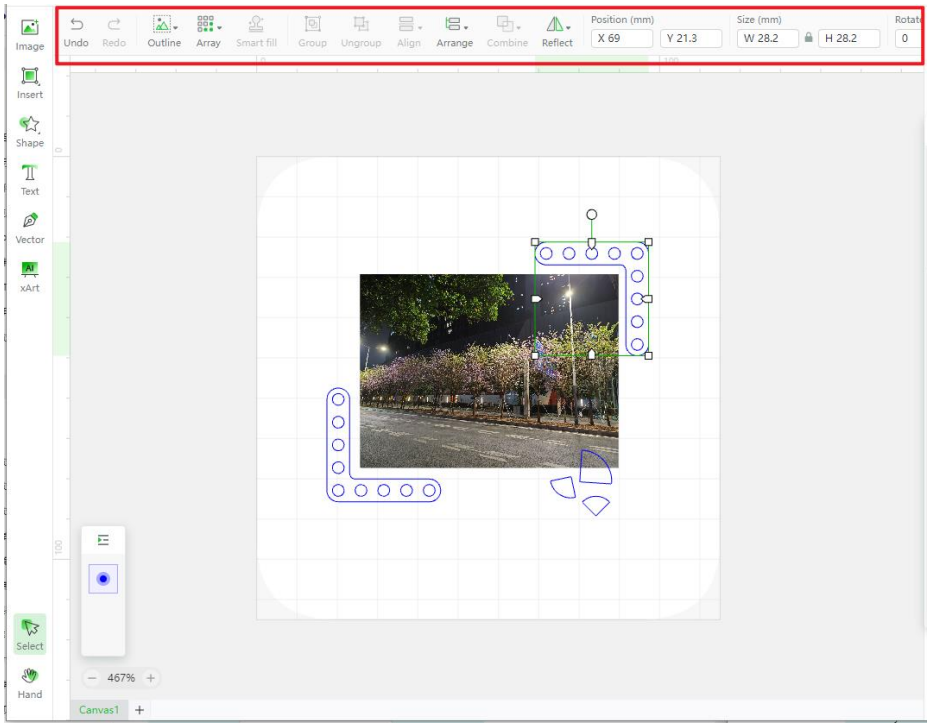
7. Design objects for processing

(1) Use the tools to the left side of the canvas to create objects. You can import images, insert shapes, enter text, or draw vector graphics.



Note: XCS supports importing the following image formats: SVG, DXF, JPG, JPEG, PNG, BMP, etc.

(2) Select the objects and use the toolbar above the canvas to further edit the objects.



8. Set parameters for processing

Select objects on the canvas. Then, on the right side of the XCS home screen, set parameters for the selected objects.

Note:

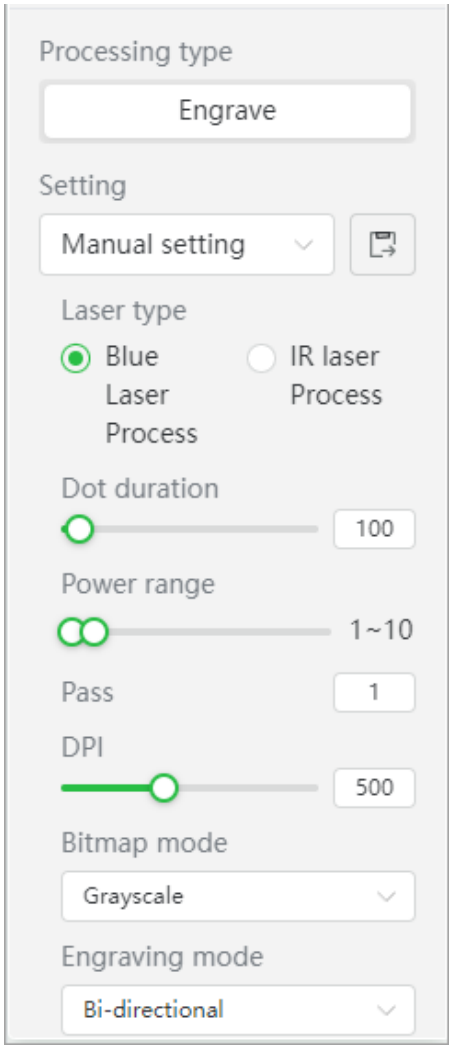
(1) You need to set parameters for every object. A missed object may fail to be processed. The parameters that can be set for bitmap objects and vector objects are different. You can select multiple objects of the same type and set parameters for them at once.

(2) xTool F1 integrates a blue laser with an infrared laser. You can select the Laser type for each object based on your needs.

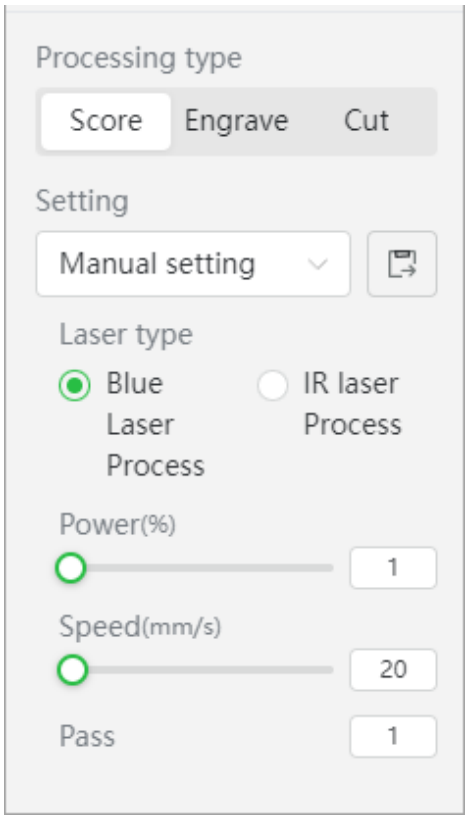
Supported materials of blue light laser: black alumina, metal name card, rock coaster, acrylic, aluminum sheet, wood, corrugated paper, cobblestone, etc.

Supported materials of infrared laser: black alumina, metal name card, rock coaster, acrylic, aluminum sheet, copper sheet, stainless steel, etc.

● For bitmaps

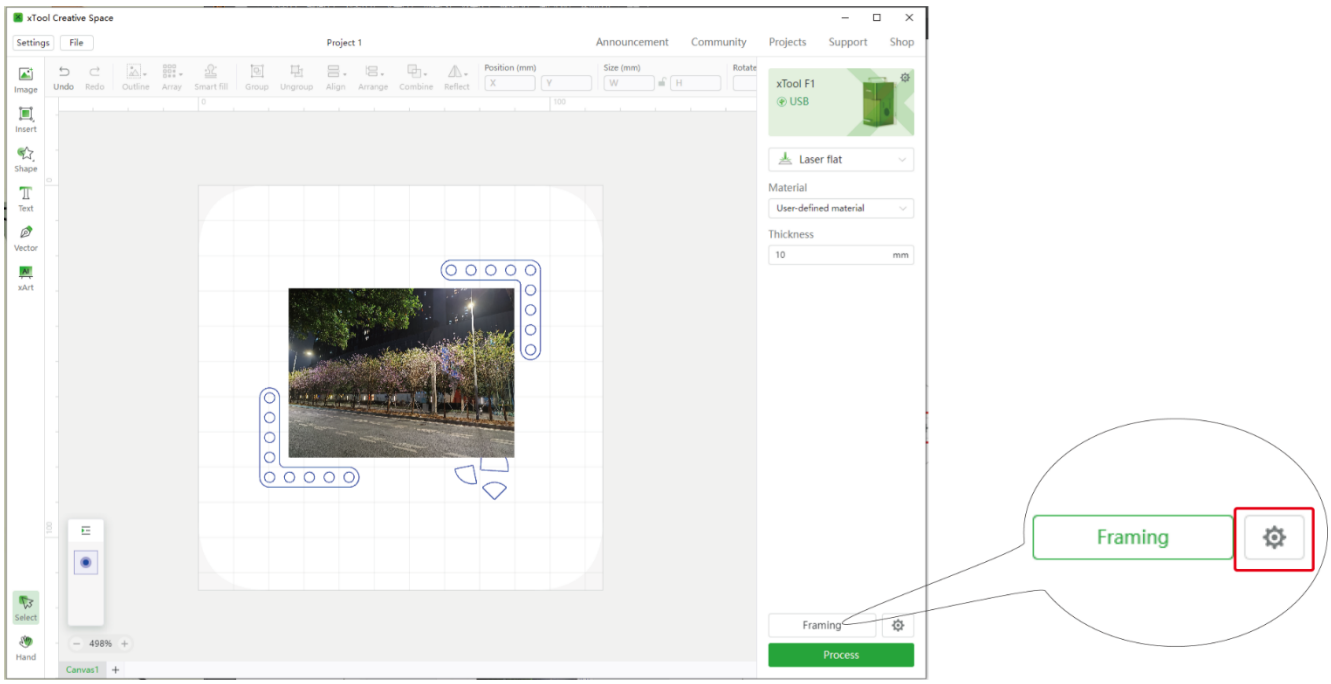


- **For vectors**

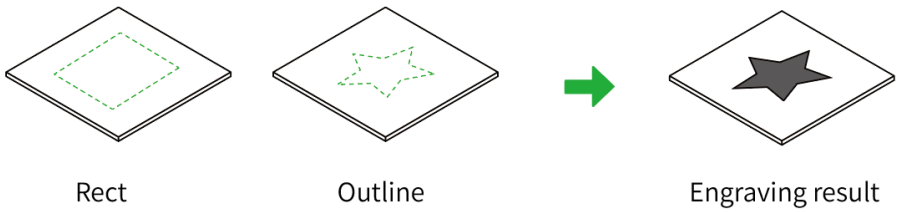


9. Preview the processing area

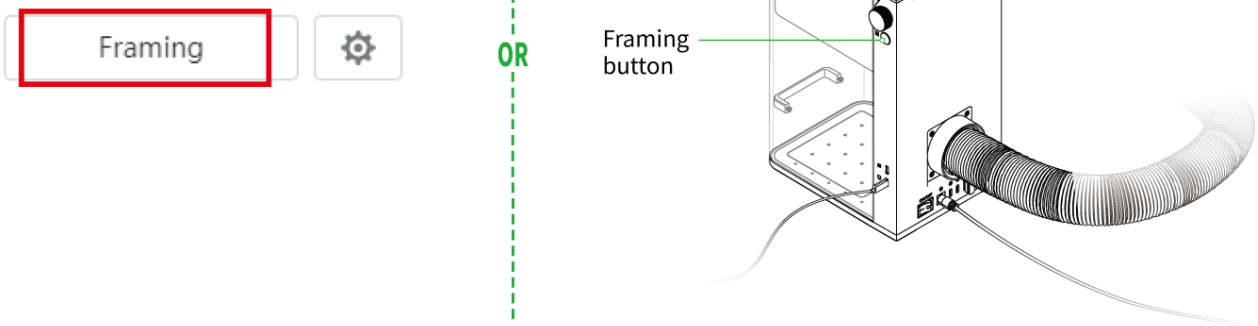
(1) At the bottom-right corner of the software, click the setting icon next to the **Framing** button to set the parameters for framing.



Note: xTool F1 supports two preview modes: Rect and Outline.
If you select **Rect**, you can preview the rectangular border of the processing area.
If you select **Outline**, you can preview the outline of the processing objects.



(2) Close the protective enclosure, and then click **Framing** in the software or press the framing button on xTool F1 to preview the processing area on the material.
If the area is not ideal, you can adjust the material position or adjust the object positions in the software, and then preview the processing area again.



Note:

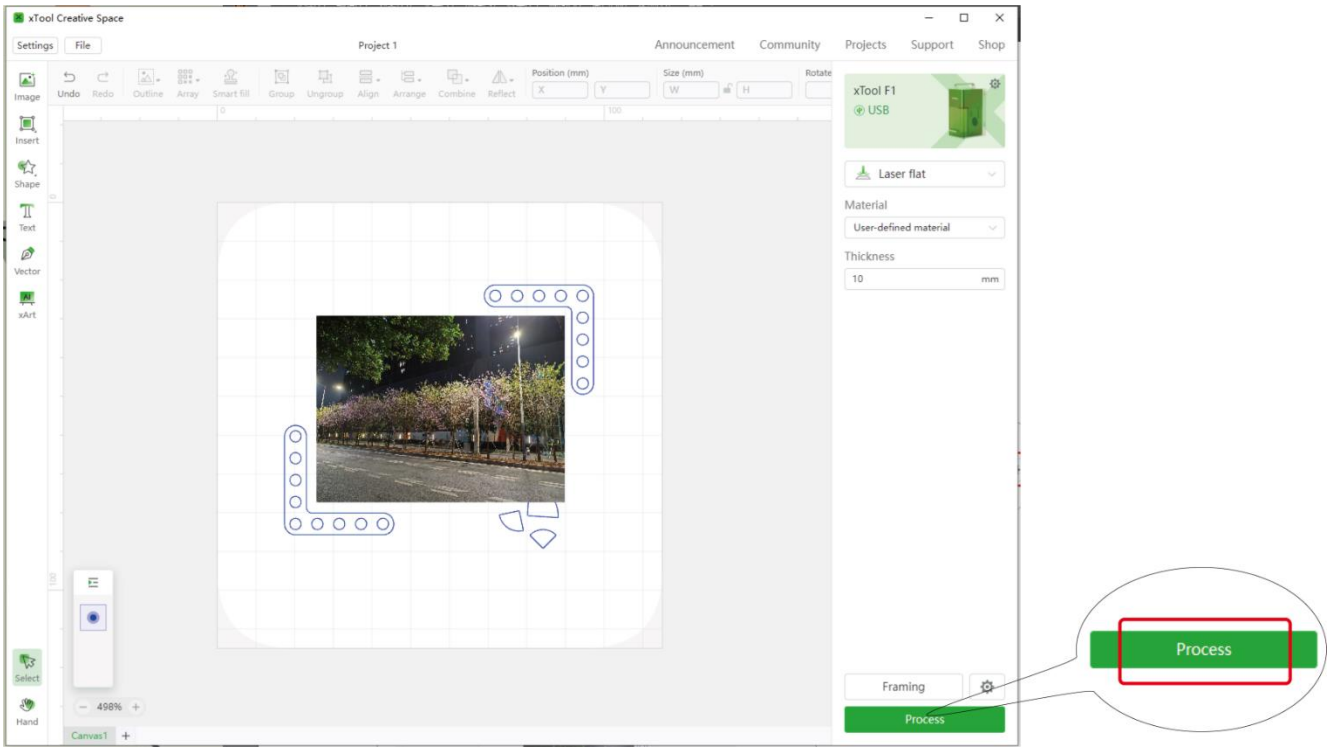
(a) During framing, keep the protective enclosure closed or wear goggles that can shield laser beams of 455 nm and 1064 nm wavelengths.

(b) To stop framing, click **Stop framing** in the software or press the framing button on xTool F1.

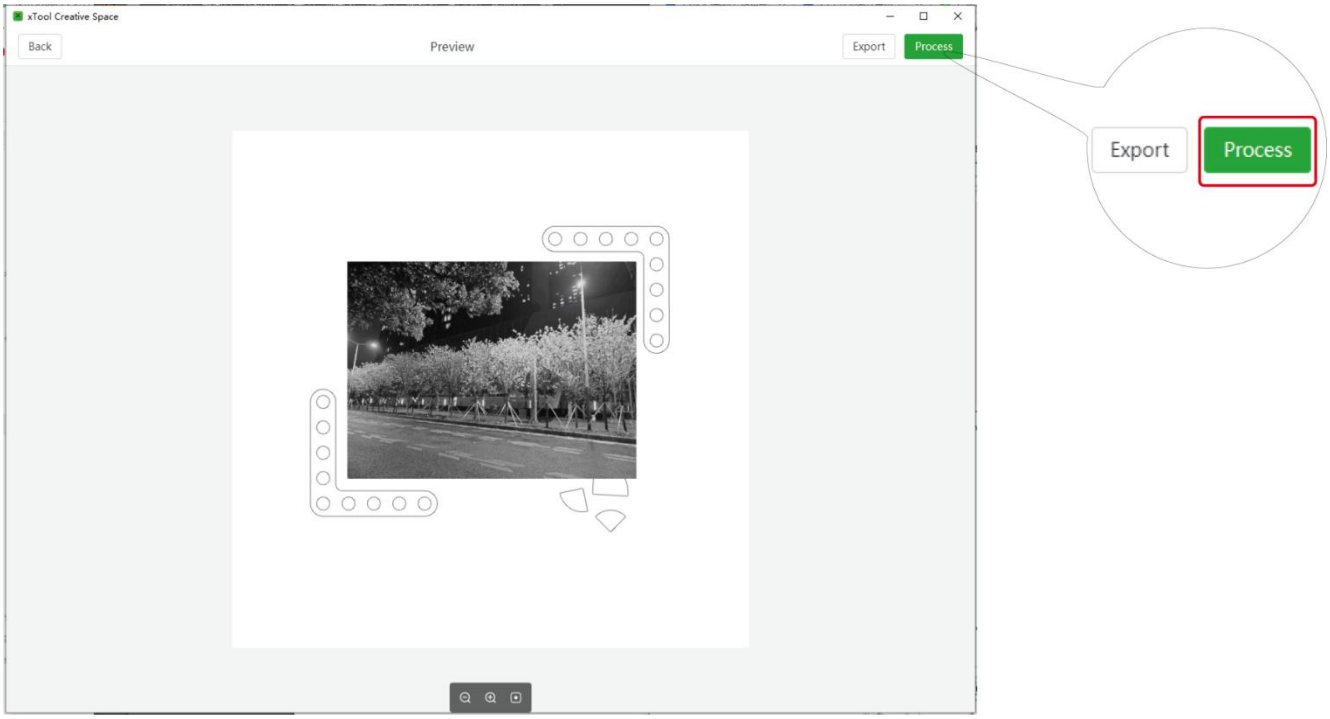
10. Start processing

Note: Using the infrared laser for bitmap engraving at a low temperature may lead to unsatisfying engraving results. To ensure better engraving results, you can preheat the laser module before processing.

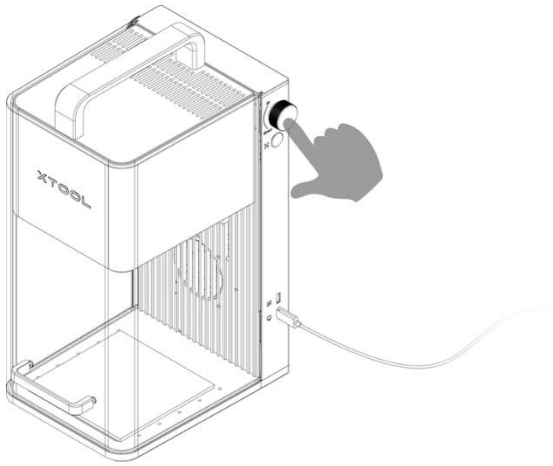
(1) On the bottom right corner of the software, click **Process**.



(2) Preview the processing objects in the software. Then, in the upper-right corner of the software, click **Process**.



(3) Close the protective enclosure. Then, press the knob on xTool F1 to start processing.



Note: During laser processing, keep the protective enclosure closed or wear goggles that can shield laser beams of 455 nm and 1064 nm wavelengths.

This is the general process of using XCS to create your works. For details on the functions of XCS, see support.xtool.com.