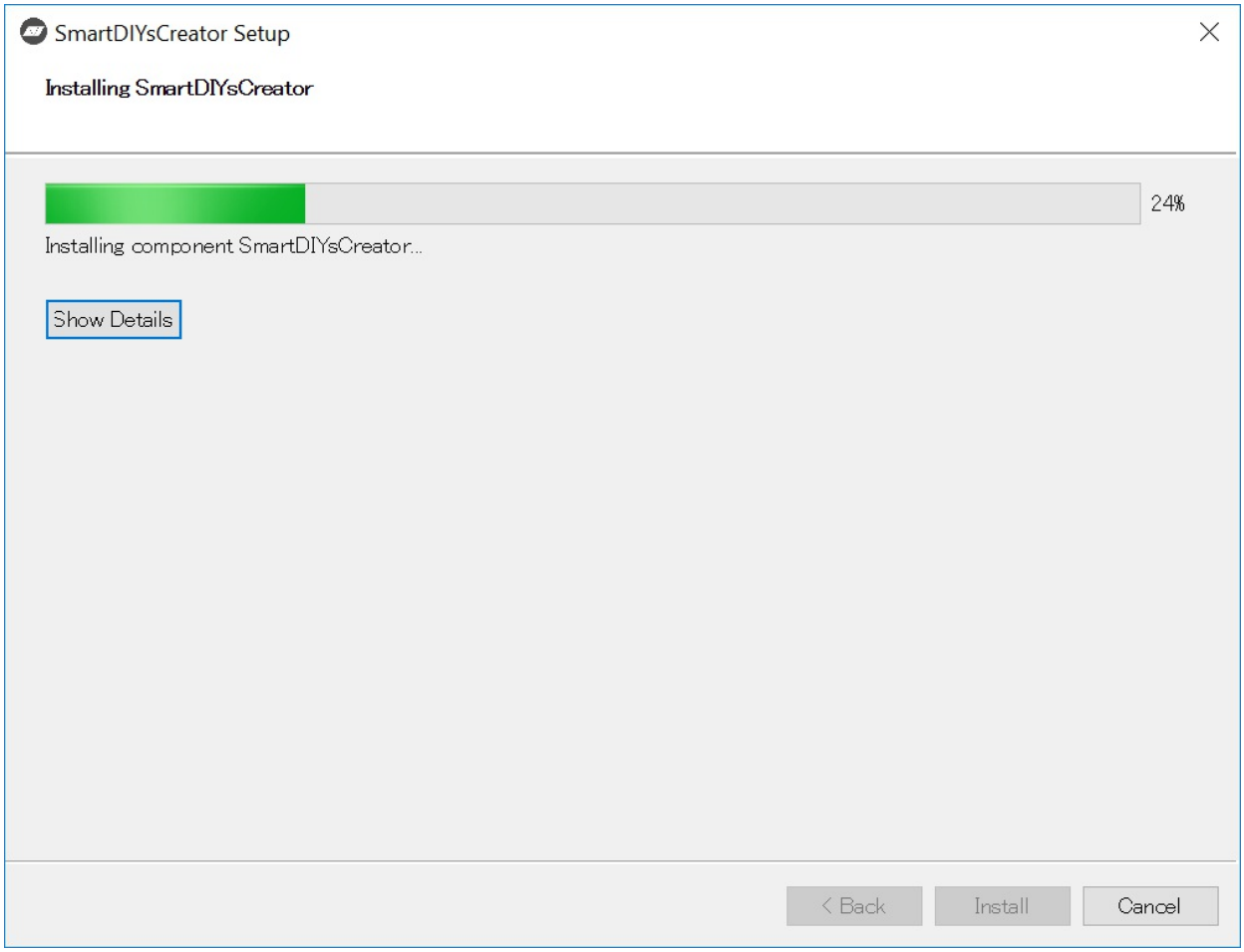

SmartDIYsCreator Setup
Installing SmartDIYsCreator
24%
Installing component SmartDIYsCreator...
Show Details
< Back
Install
Cancel

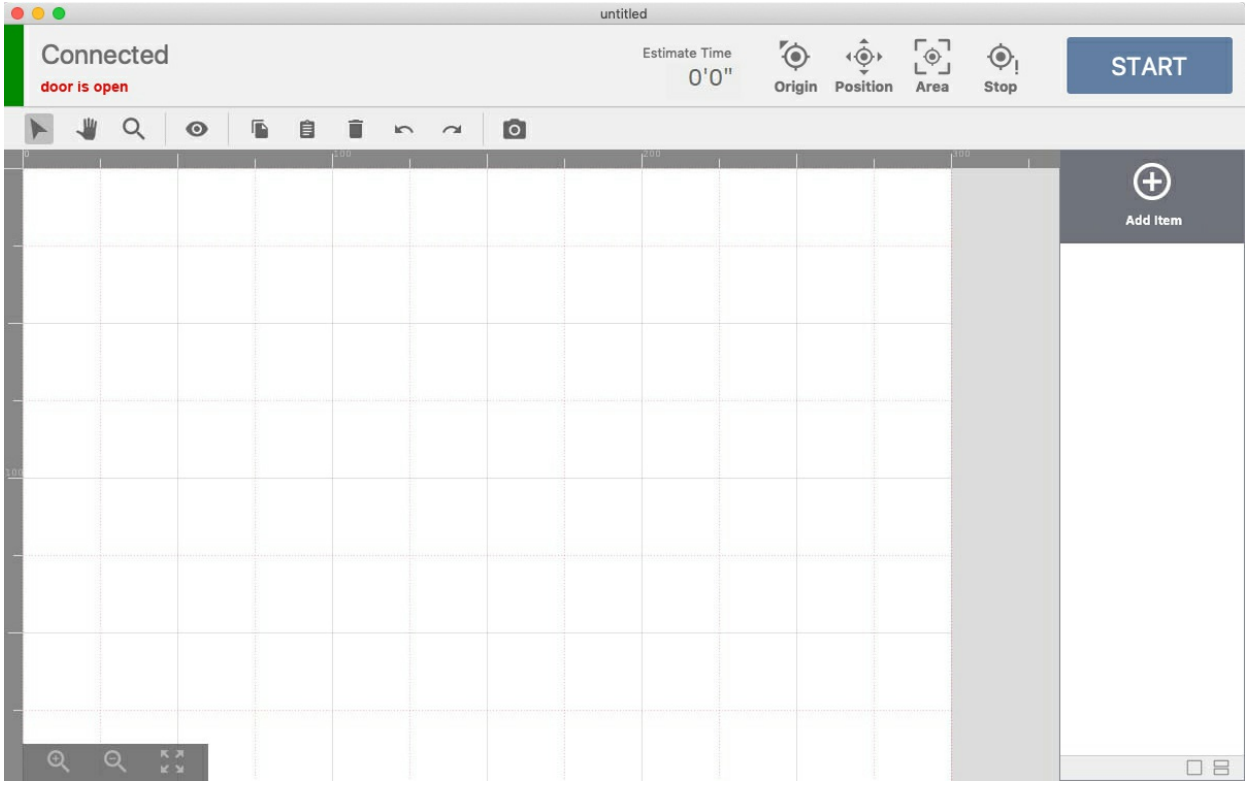
When the setup is done, you can start processing materials. Prepare a material you would like to work on. (Measure the thickness of the material because you need to input the thickness of the material in the software later.)
Check that the Etcher Laser's power is on.

Connecting the Etcher Laser to PC

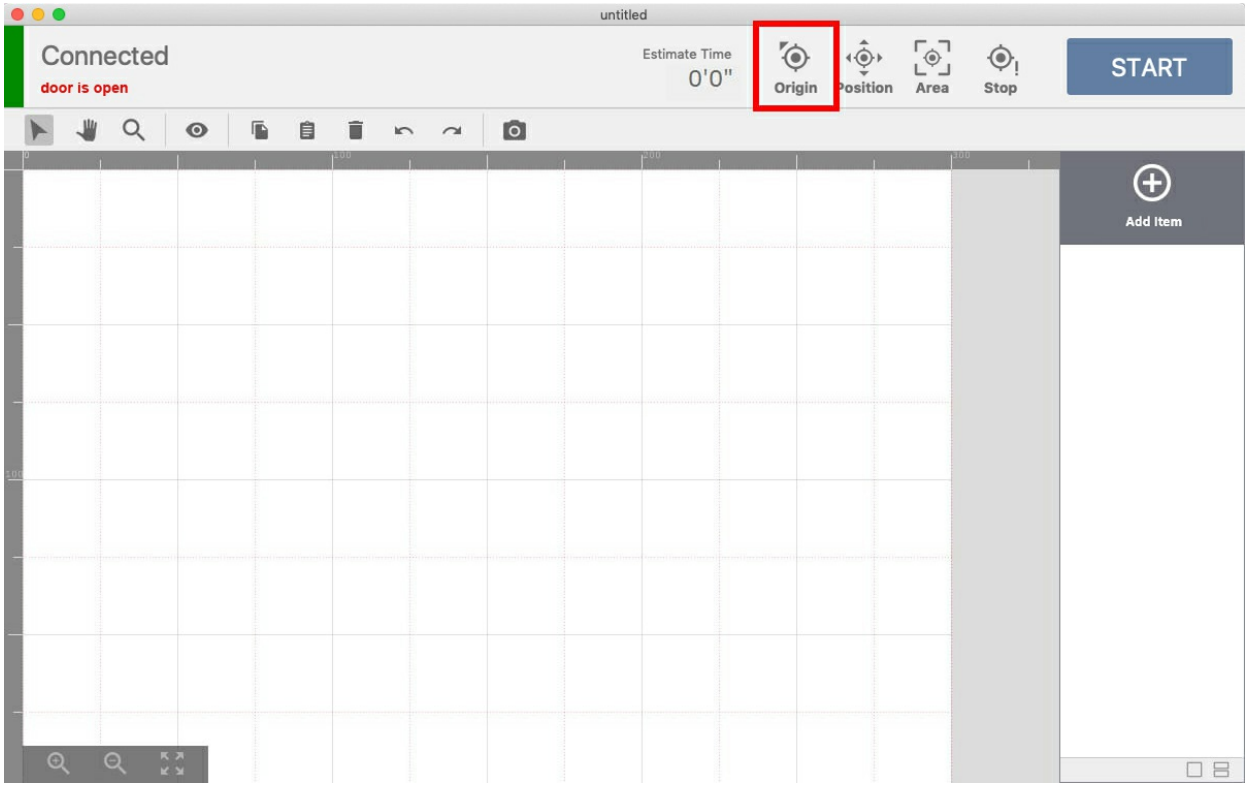
Use the USB cable enclosed with the device to connect the Etcher Laser to your PC. DO NOT use a USB hub and directly connect the devices.

Launch the software and place the material

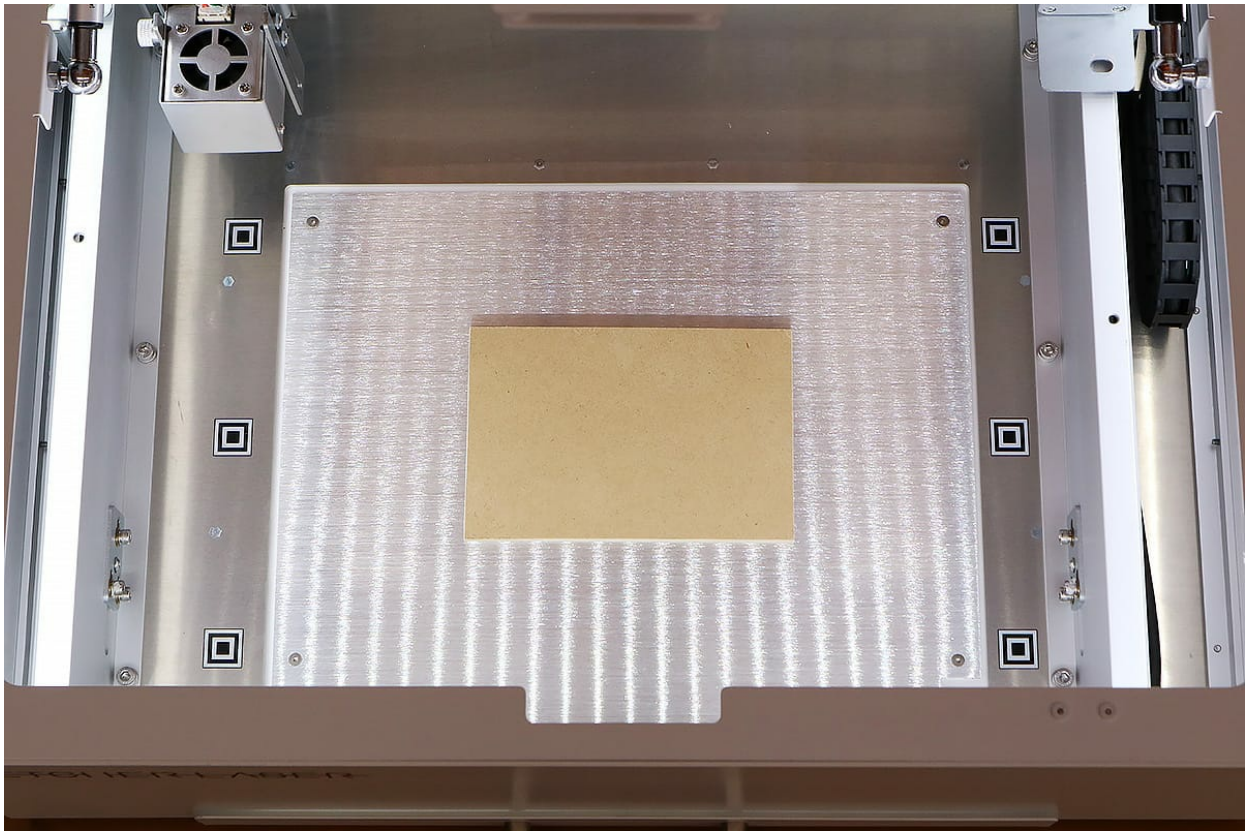
Launch the software and start. When you launch the software for the first time, follow the instructions on the application window to fill in the settings.
When the Etcher Laser and PC are properly connected, the software will show "Connected" on the top left side of the screen.



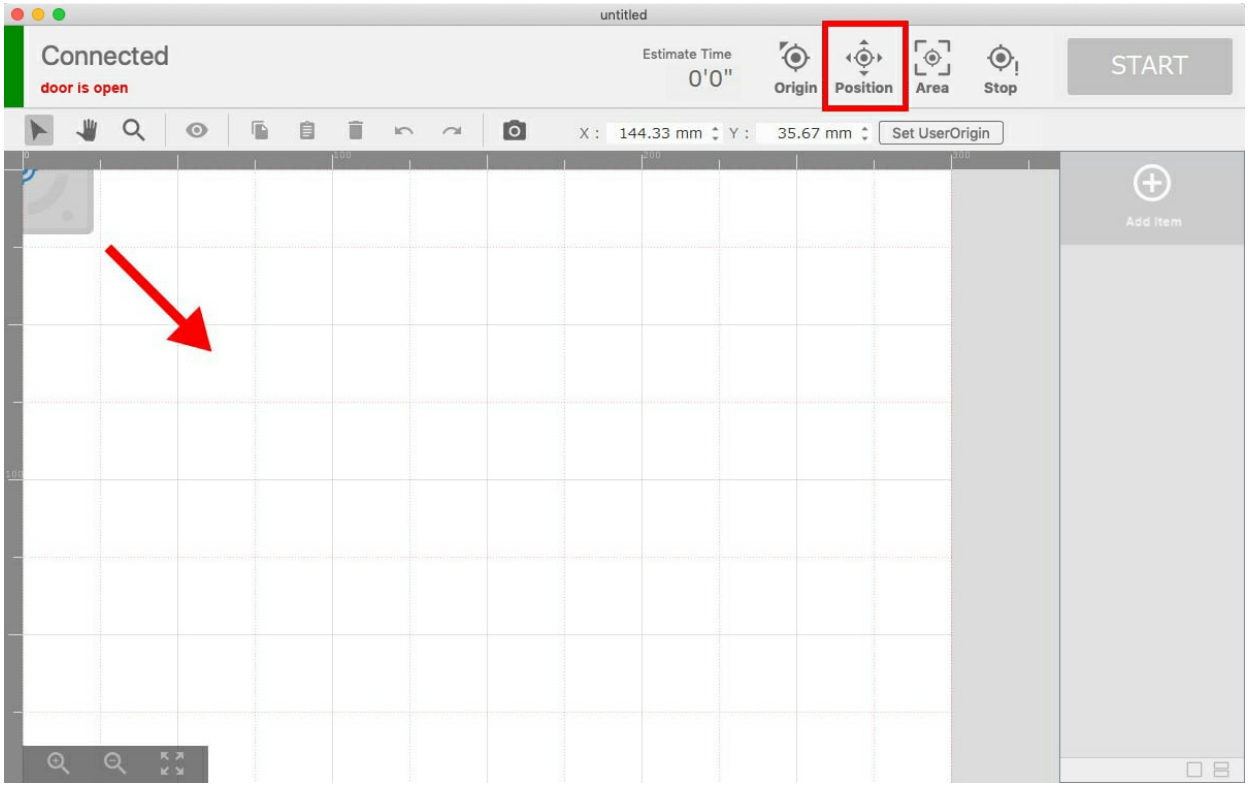
Click the “Origin” on the top of the screen, and the laser head will move to the origin (top left in the work area, default position before it starts processing.)

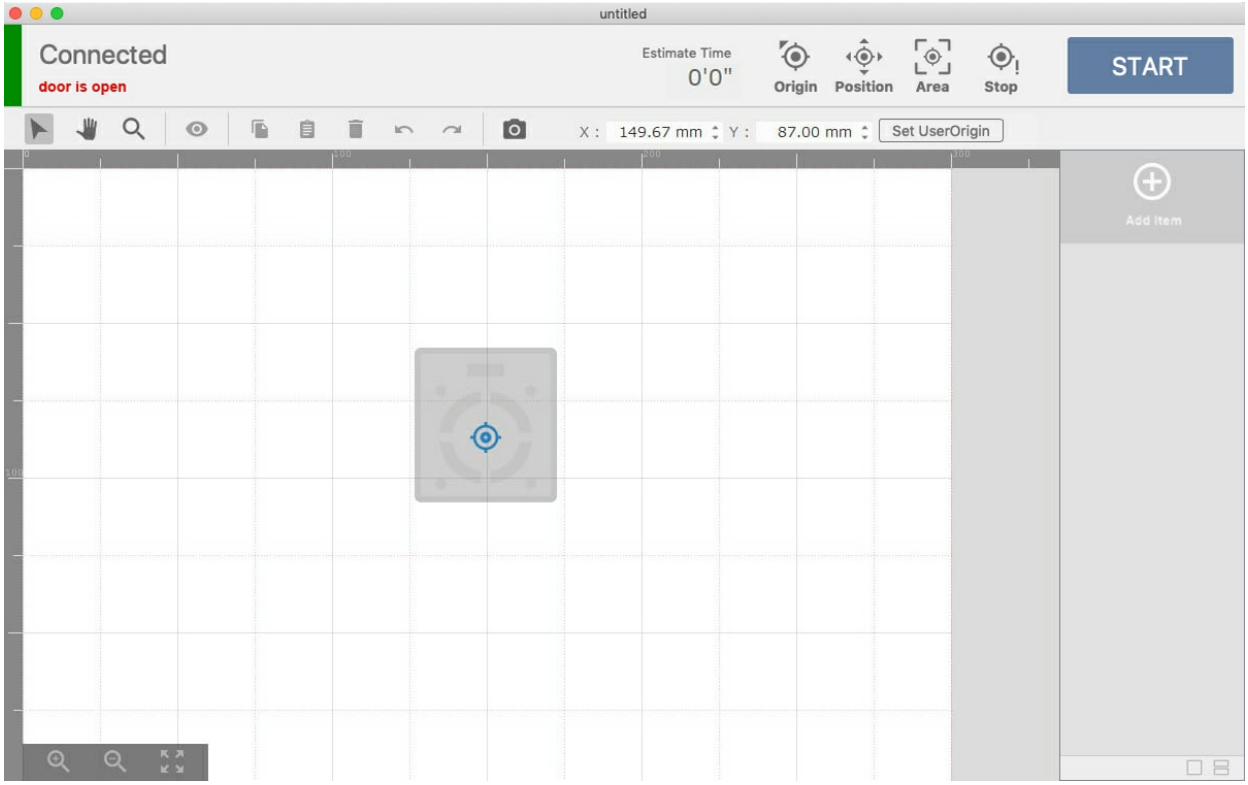


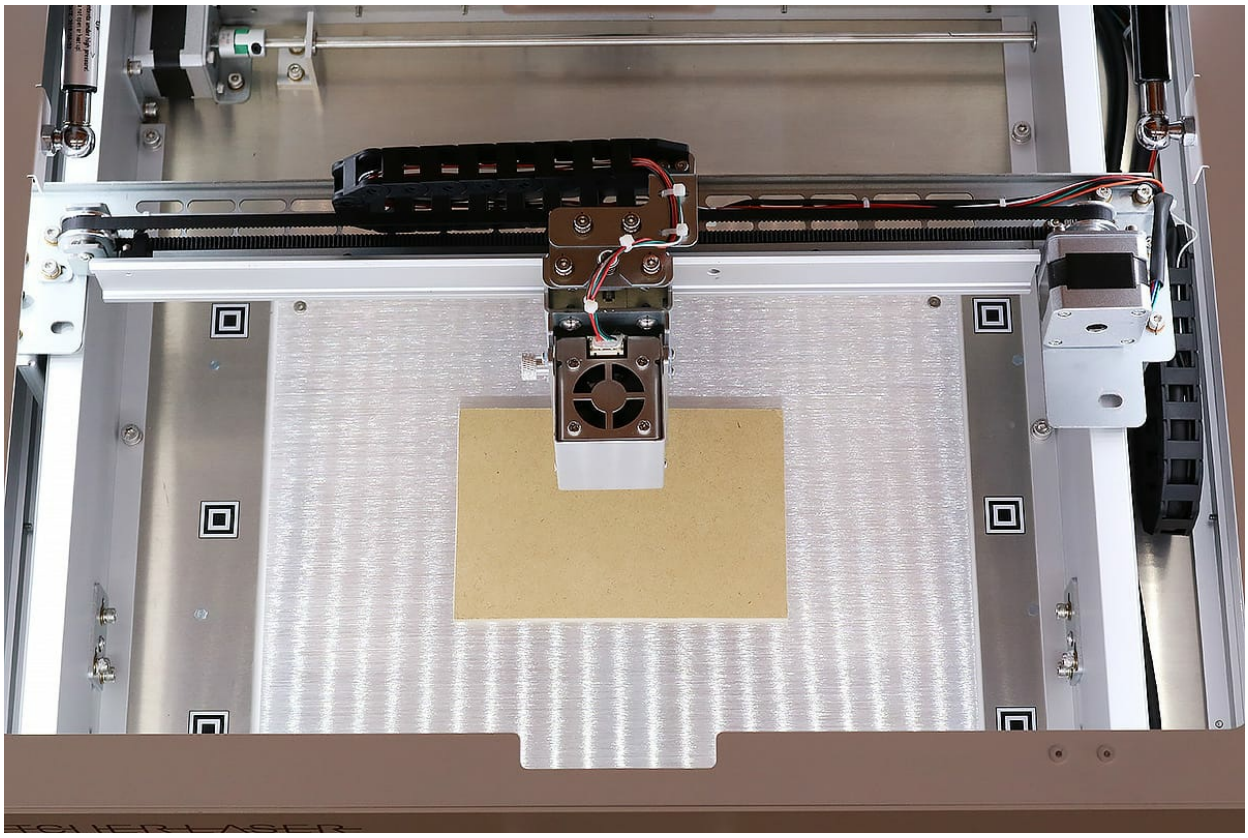
Place the material in the center of the work area. When placing the material, DO NOT cover the stickers for positioning (white and black squares) placed around the work area with the material.



Click the “position check” button, and the graphic area of the software will show the image of the laser head. By dragging the image to a spot, you can move the laser head. Use this function to move the laser head so it is above the material.



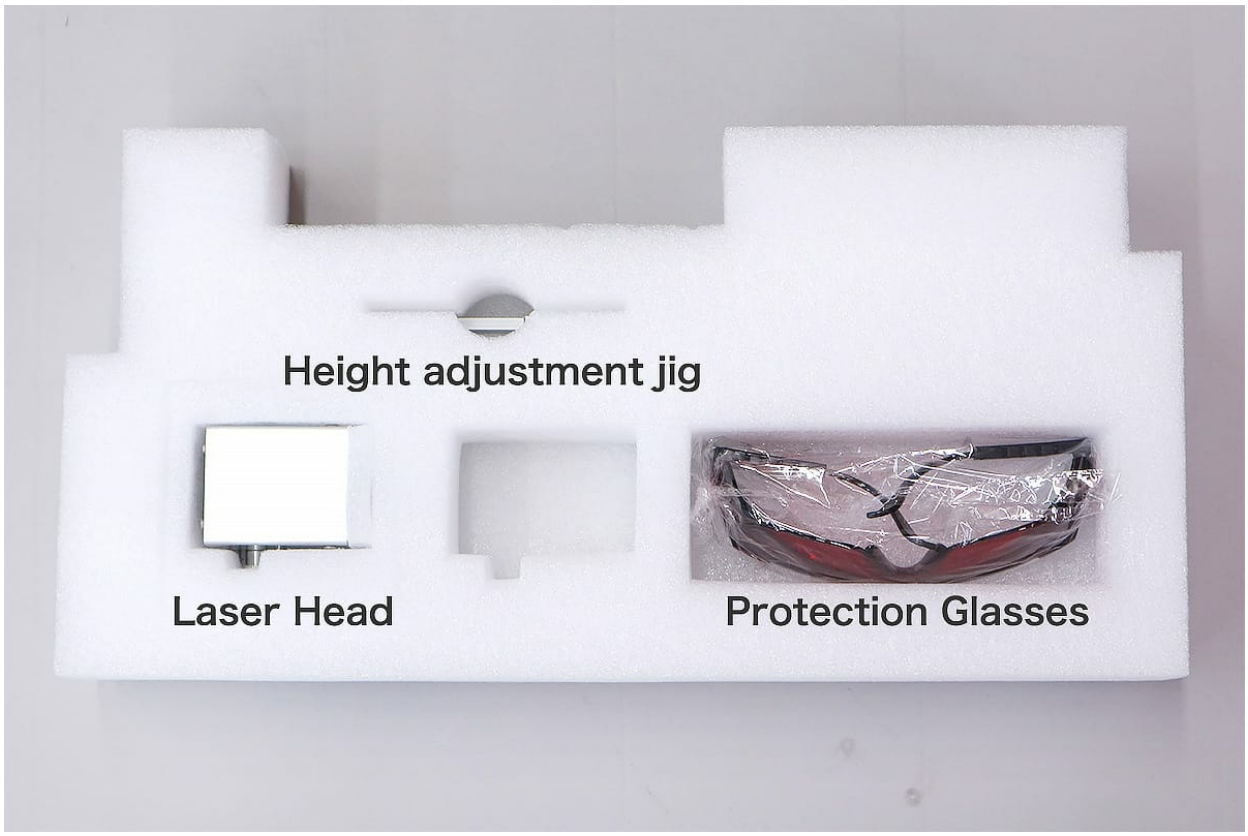




Adjust the height of the laser

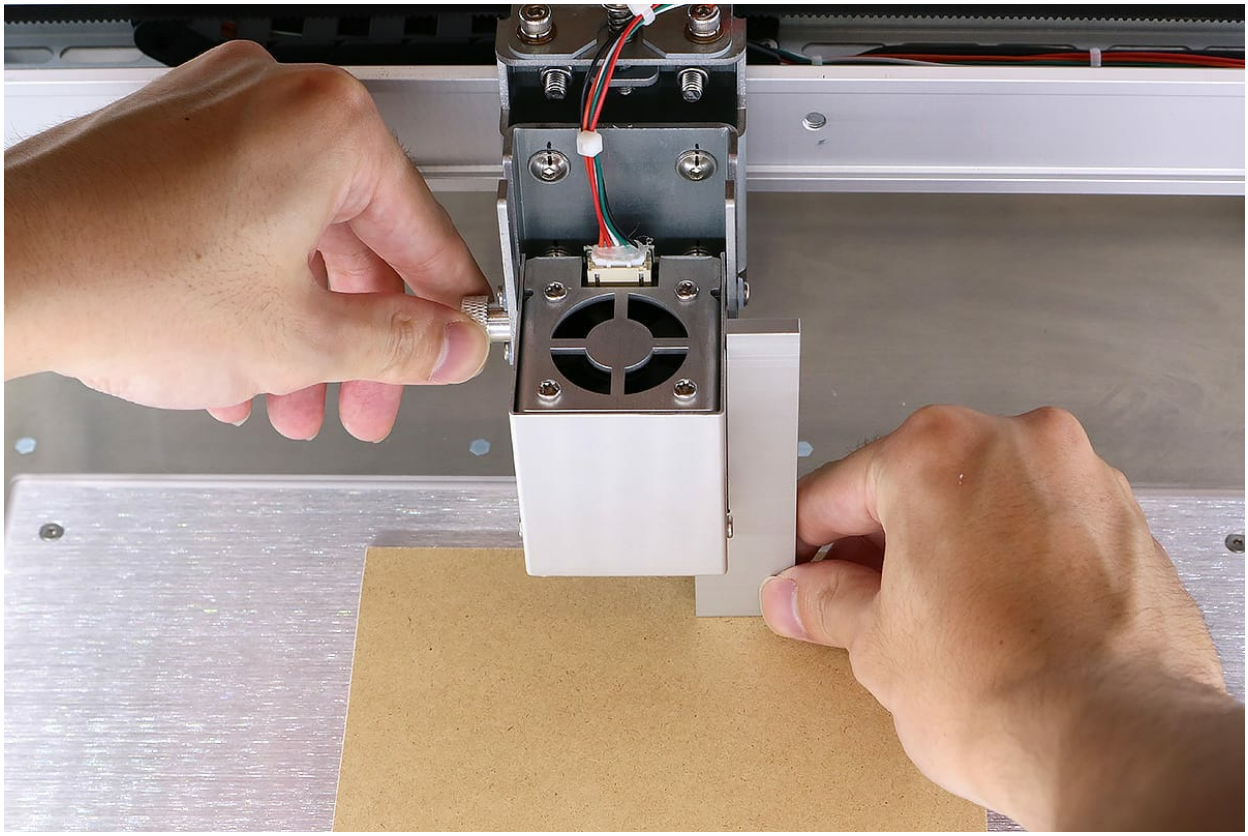
Next, adjust the height of the laser. When you process a material with the Etcher Laser, you need to adjust the height to set the focal length depending on the thickness of the material.

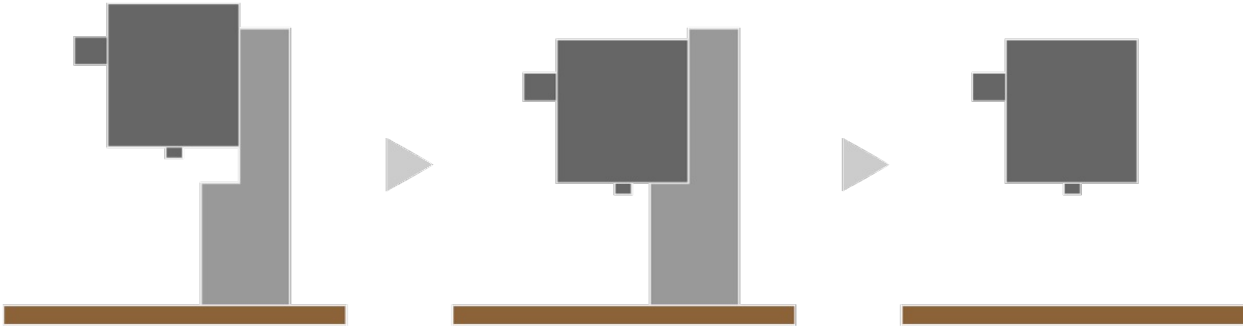
Take out the height adjustment jig from the box and place it on the material.



Loosen the screw for height adjustment on the laser head, and slide the laser vertically until

the bottom part of the laser head touches the height adjustment jig.

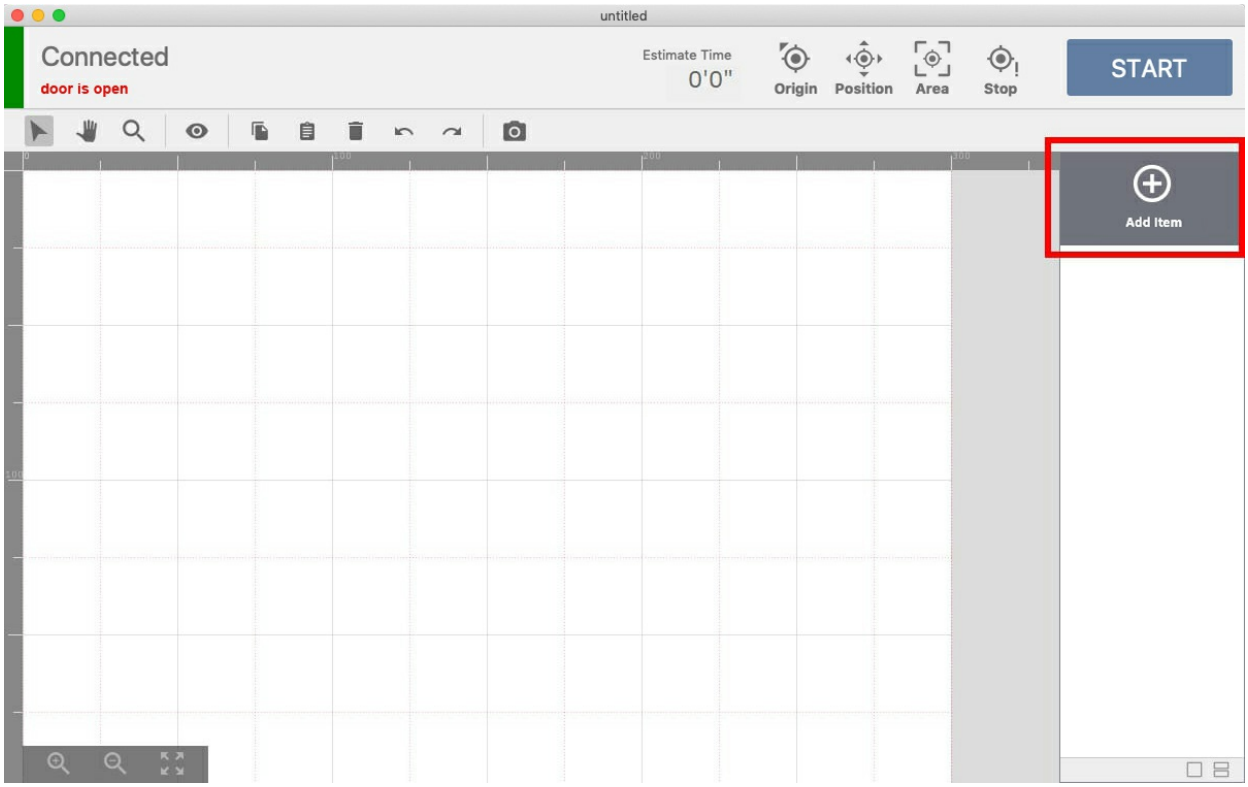


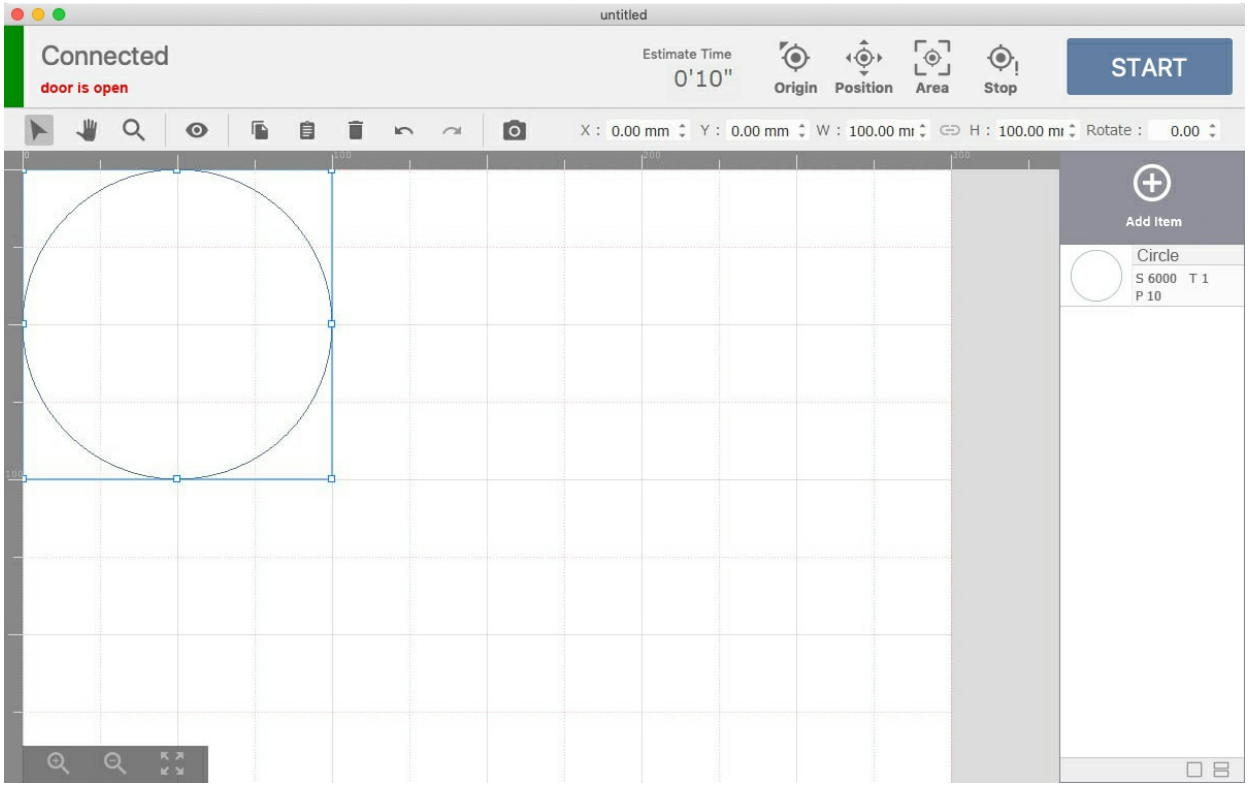


When the height is adjusted, tighten the screw to set the position of the laser head. After that, click the “position check” button again to cancel the position check mode, and click the “Origin” button again to move the laser head to the original position.

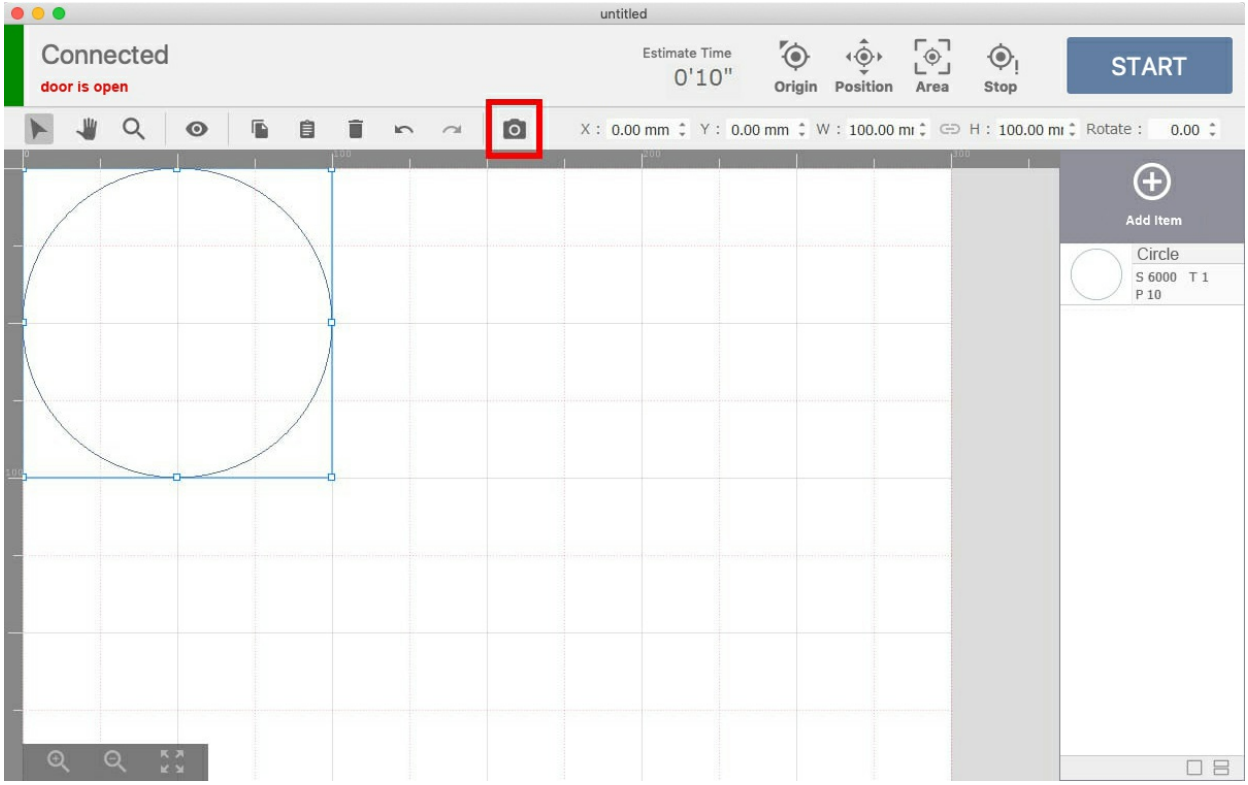
Import data and check the positioning

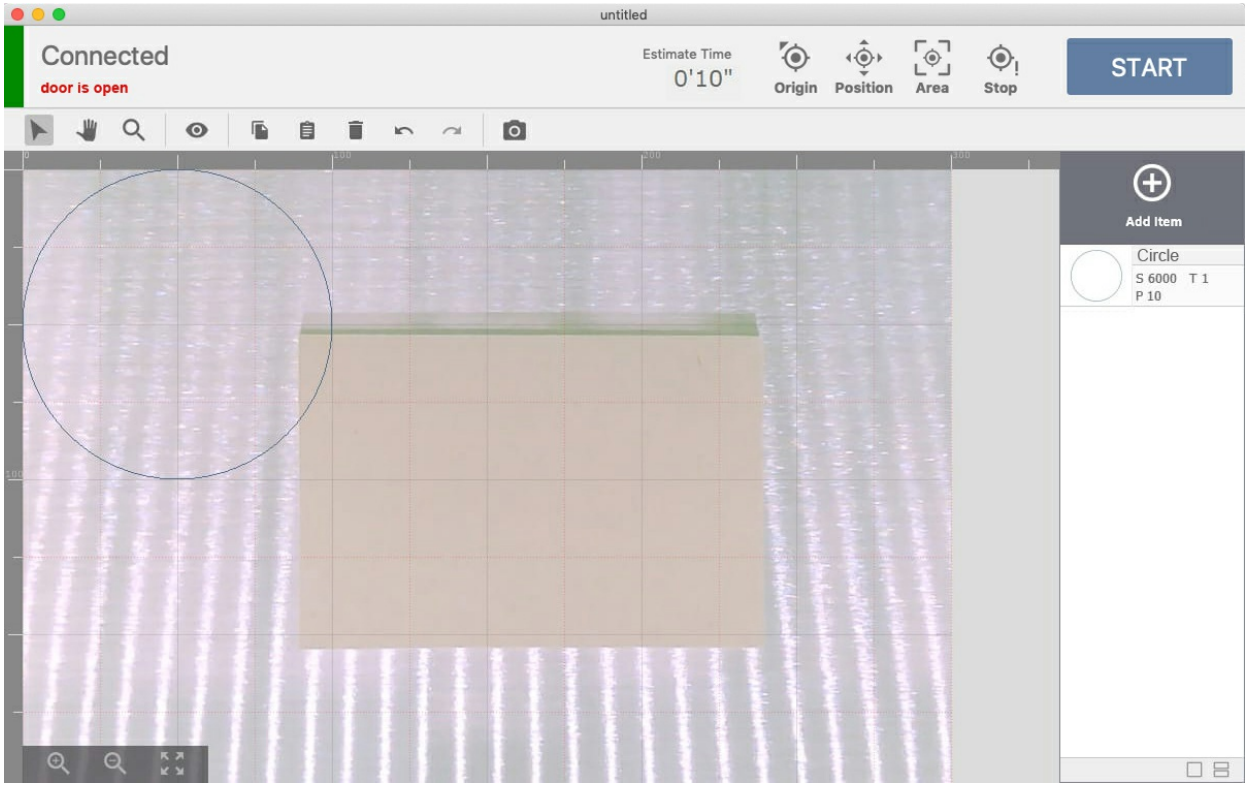
Click the “Add Item” button to import your data. There are several ways to import data and different types of data, but for this example, select the asset data we provide for users. Click “Asset” on the right, select the “shape” tab, and select a circle. Click the “Import” button to place the shape in the graphic area of the software.



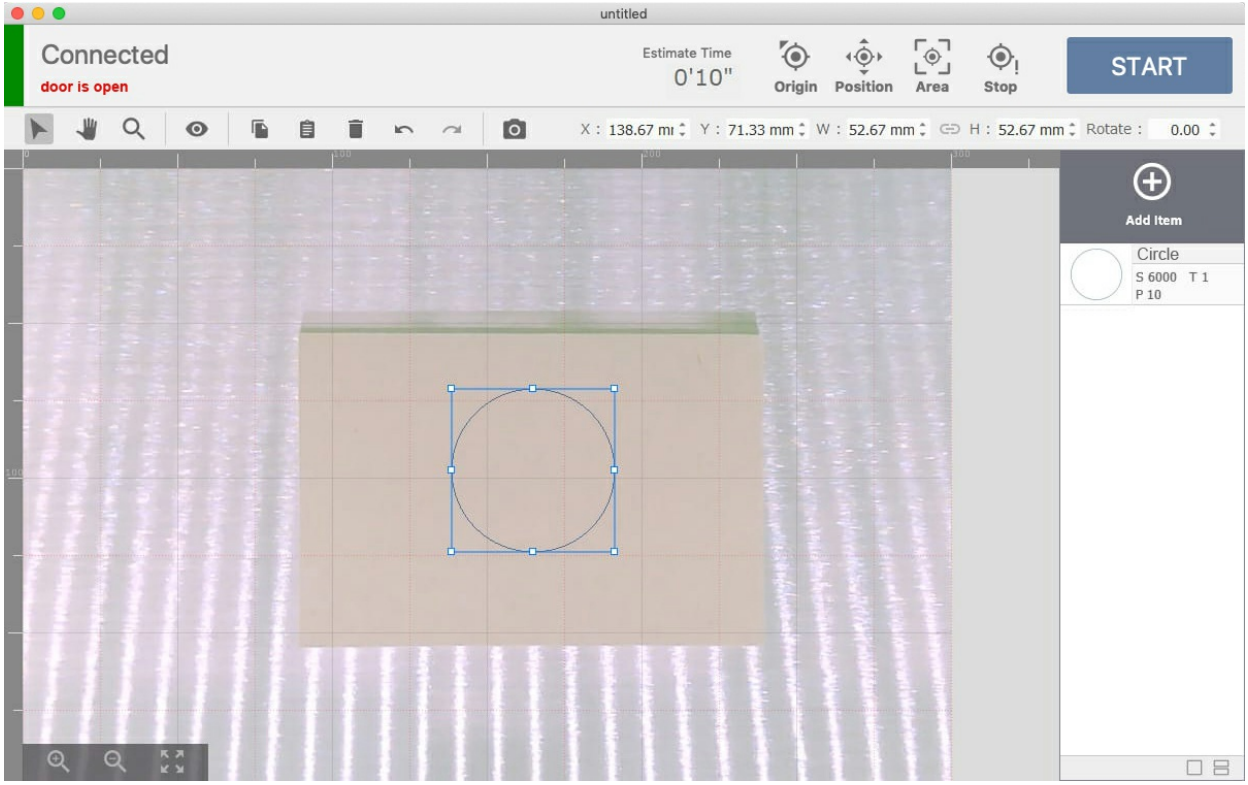


Click the camera icon, the dialog to input the thickness of the material will appear. After you input the number and click the “OK” button, the graphics area will display the material.
If the lid is closed and/or the laser head is not positioned on the origin before this step, the material will not appear on the screen properly. The stickers for positioning should not be on the screen. If the stickers are there, redo the step to capture the material by the camera.



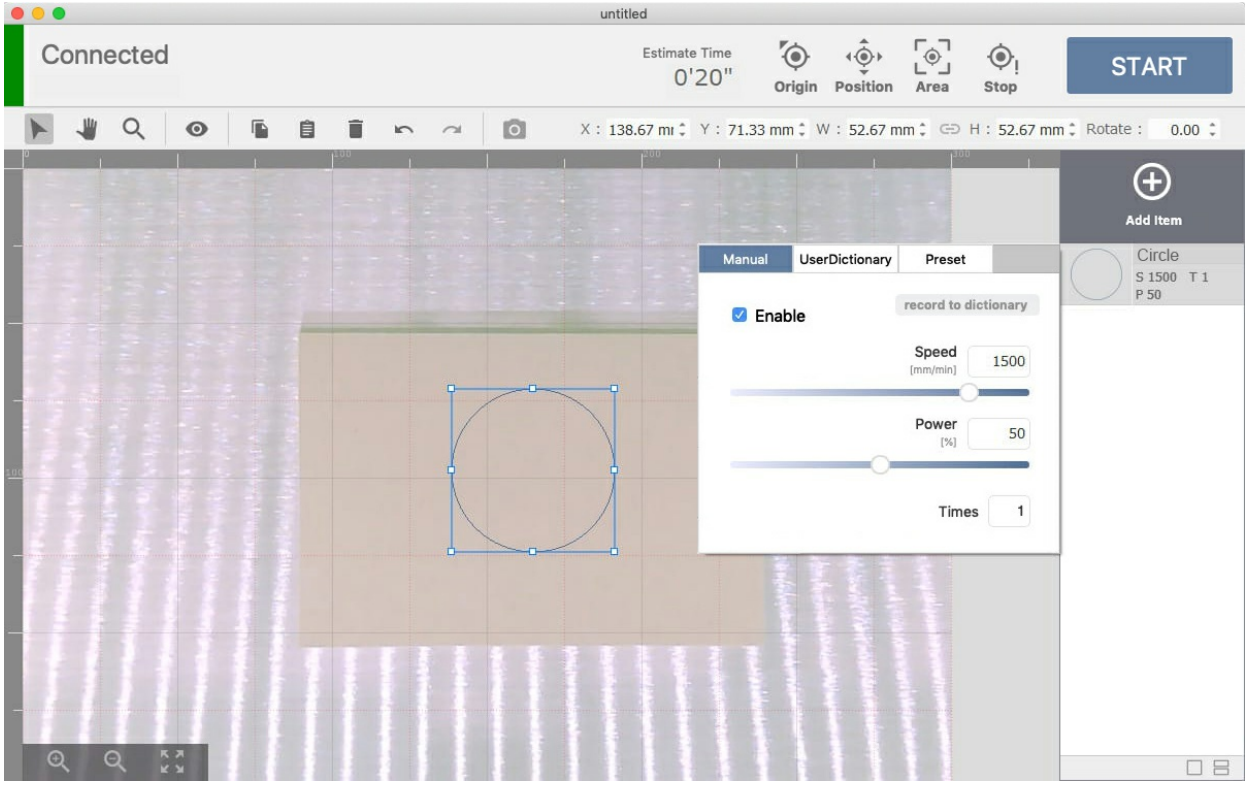


Adjust the design to any size and place it on the material.

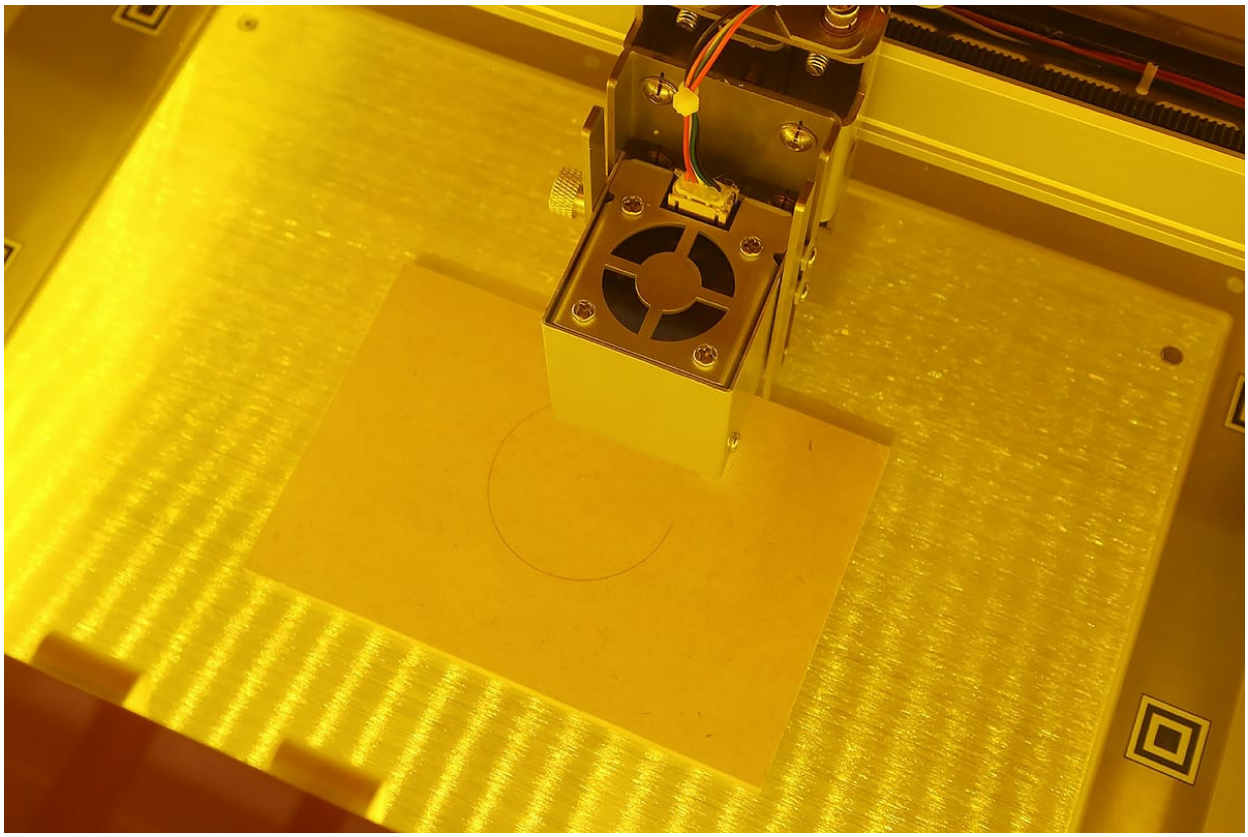


Set parameters and start processing

Next, set the parameters for the process. Click the item (circle) on the right side of the screen to display the dialog for parameter setting. This time, set 1500 for the speed, 50 for the power, and 1 for the number of processing times. (Please refer to the page SmartDIYs Creator ManualParameter settings for further information on the parameters.)



After that, close the lid of the Etcher Laser and click the “START” button. A dialog with precautions will appear, so confirm and click the “OK” button to proceed.
DO NOT leave the device while processing is in progress.
*If you start processing while the lid is open, the laser head will move but the laser will not irradiate.

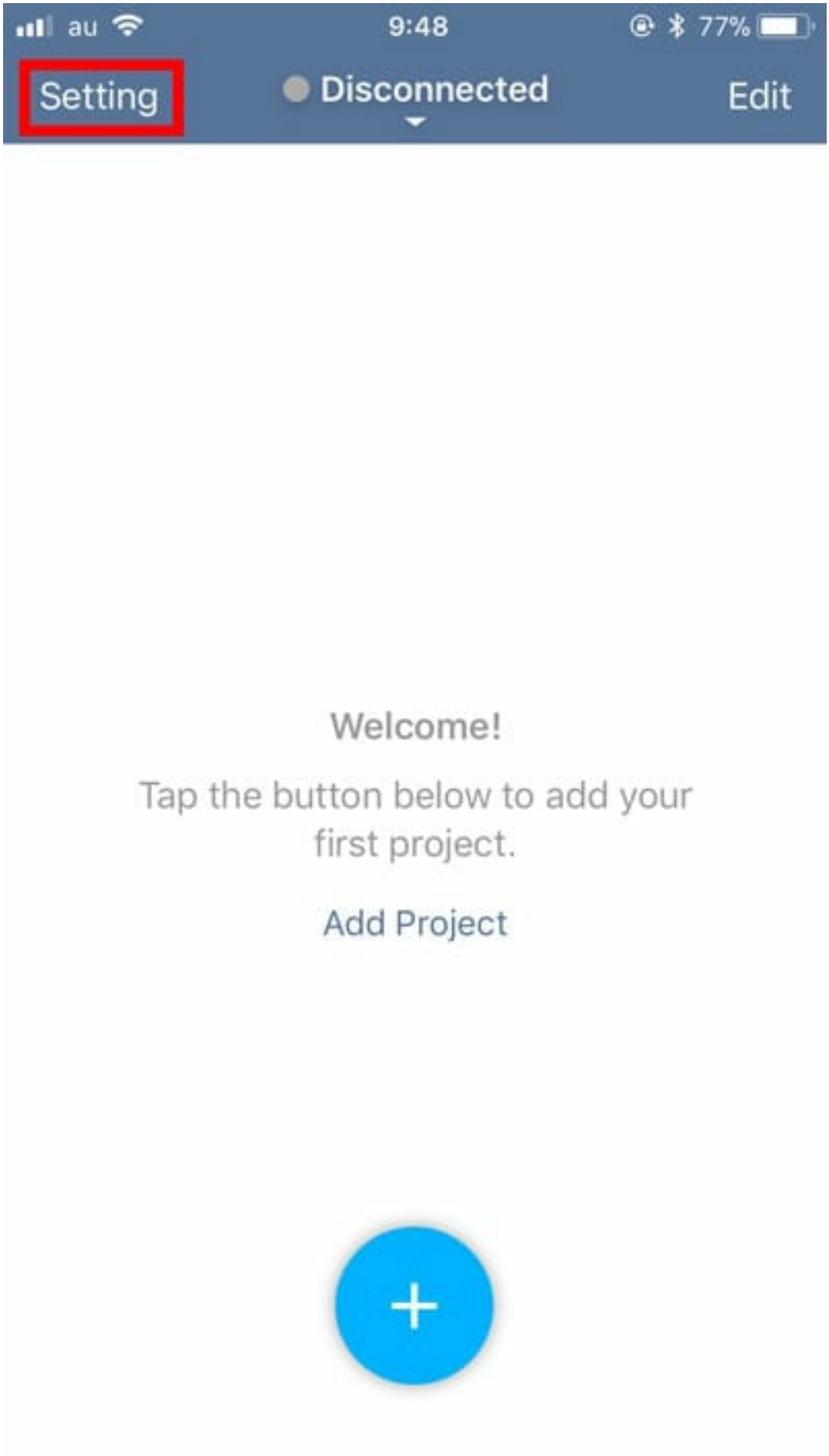


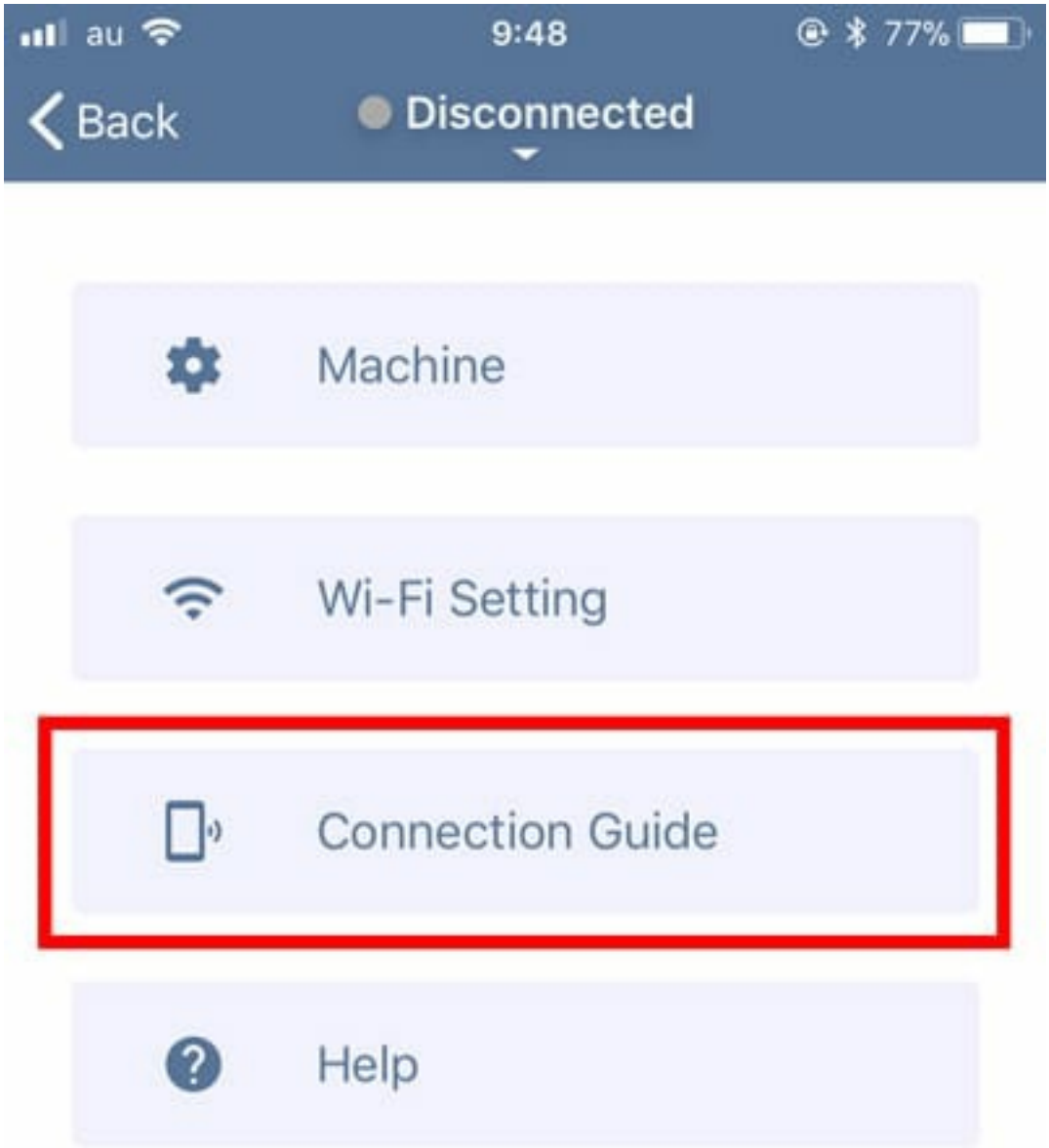
Firstly, download the application (Etcher Laser). Click the link below to download it.

- Etcher Laser Installation (App store)

Next, tap the icon of the app “Etcher Laser”.

Connect the Etcher Laser app to your smartphone or your tablet.
Tap the “Setting” icon on the top left of the screen, and select “Connection Guide” to proceed.


au
9:48
77%
Setting
Disconnected
Edit
Welcome!
Tap the button below to add your first project.
Add Project


au
9:48
77%
Back
Disconnected
Machine
Wi-Fi Setting
Connection Guide
Help

au 9:48 77%

You can connect in 3 Steps

Step1: Turn on the EtcherLaser

Step2: Connect to Wi-Fi

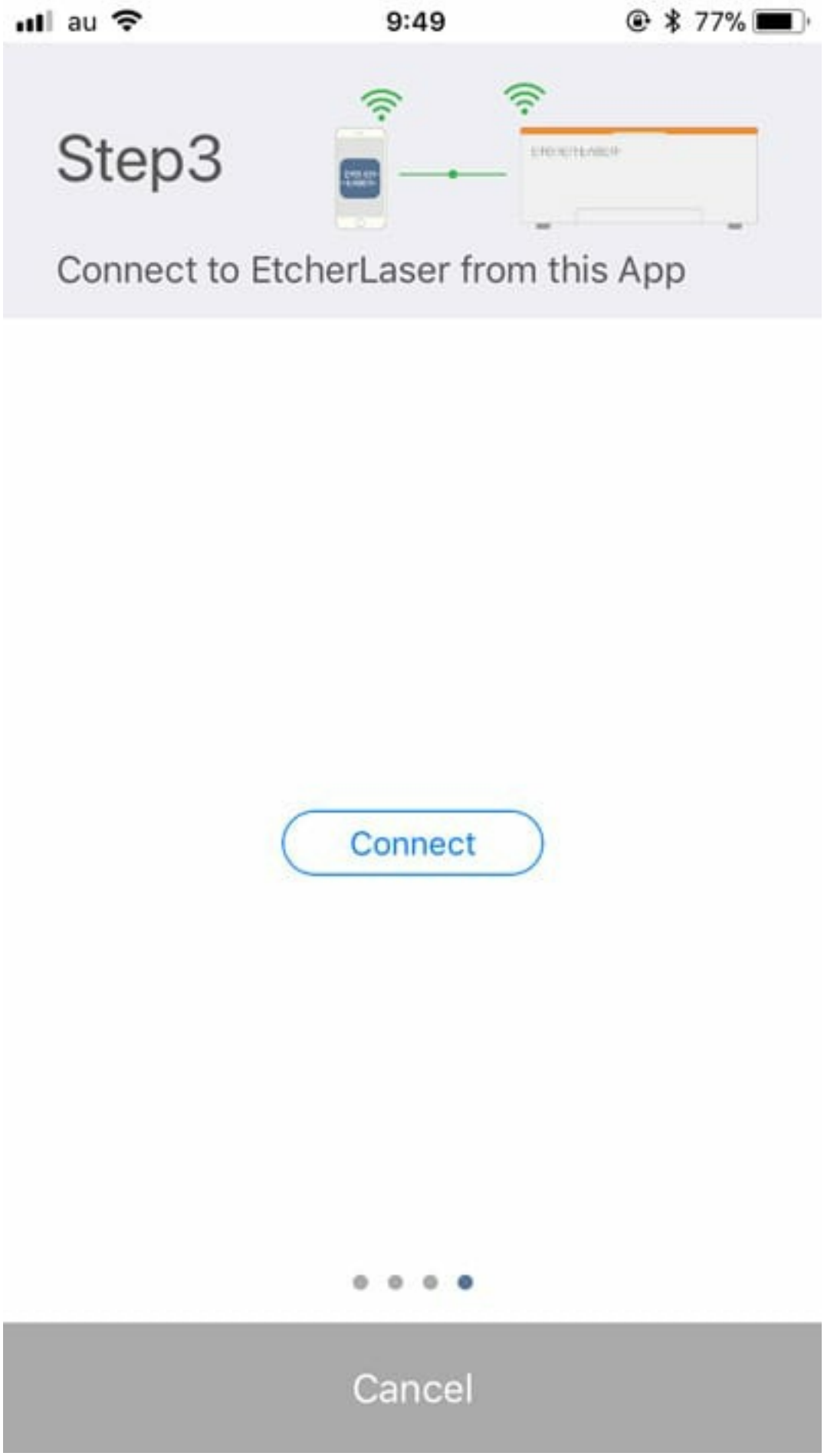
Step3: Connect to EtcherLaser

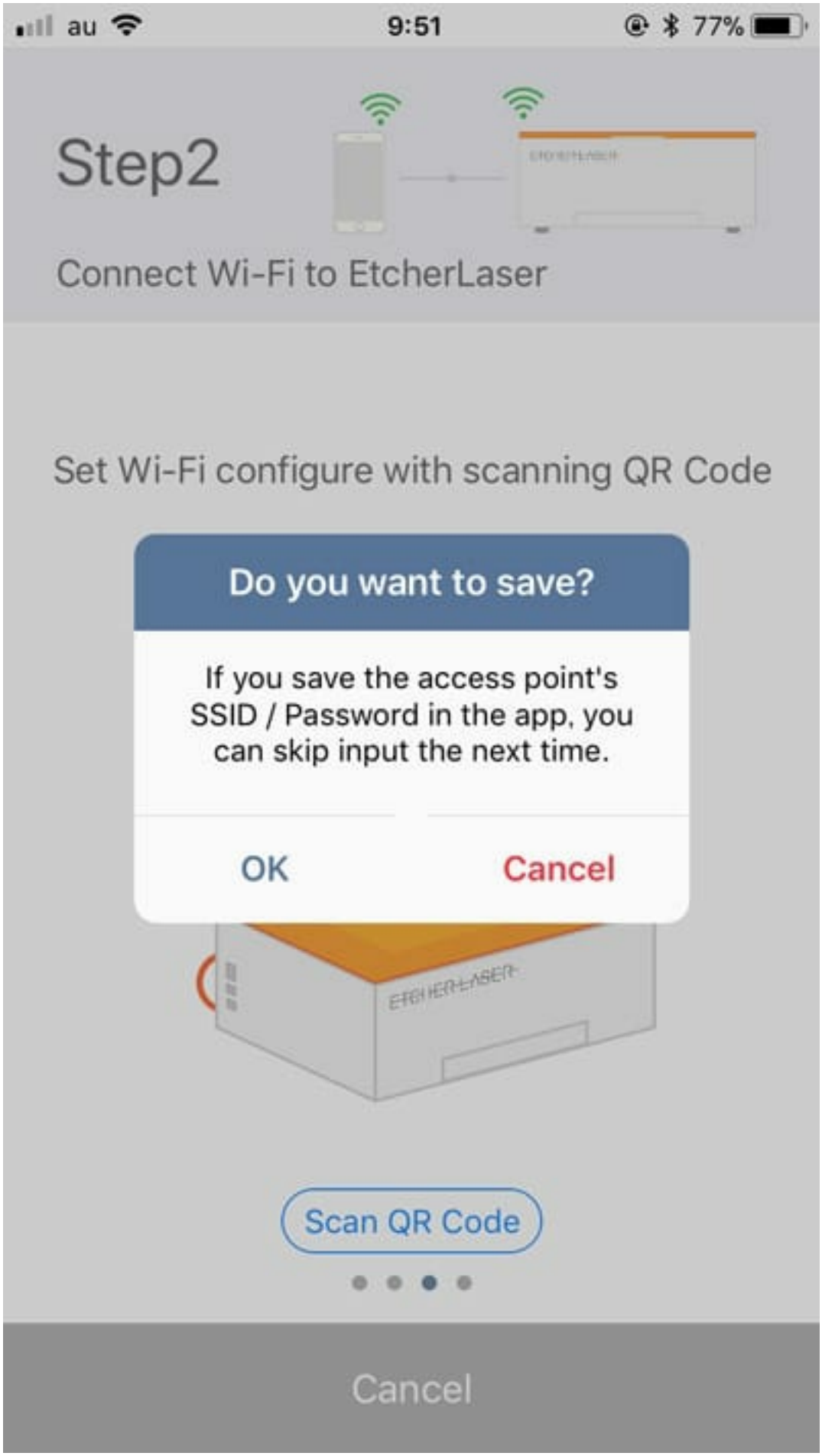
Cancel

au
9:49
77%
Step1
Turn on the EtcherLaser
Turn on your EtcherLaser
ETCHERLASER
Cancel

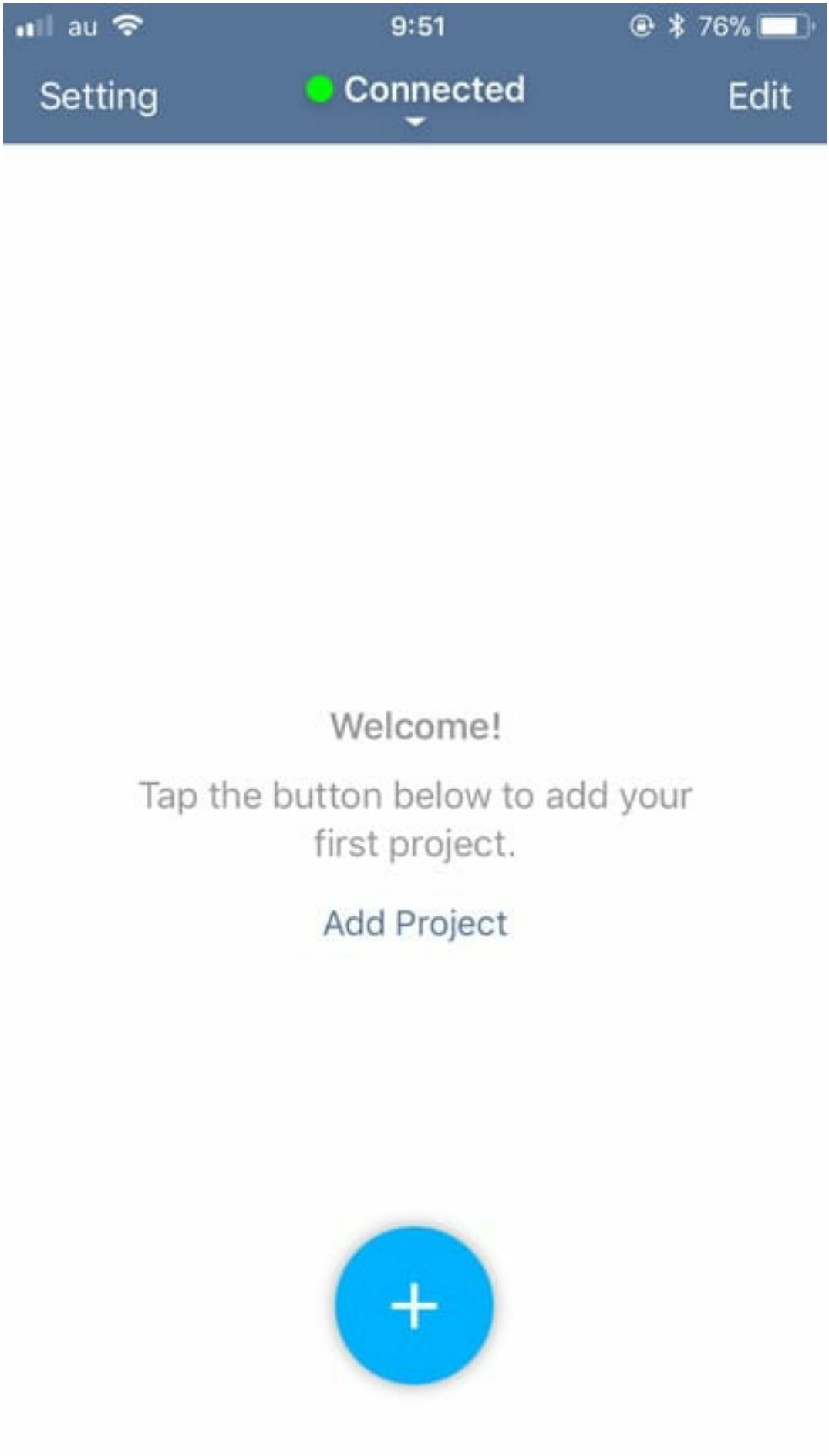
au
9:49
77%
Step2
Connect Wi-Fi to EtcherLaser
Set Wi-Fi configure with scanning QR Code
Scan QR Code
Cancel

Step3: Tap “Connect” and connect the Etcher Laser device to the smartphone/ tablet.


au
9:49
77%
Step3
Connect to EtcherLaser from this App
Connect
Cancel


au
9:51
77%
Step2
Connect Wi-Fi to EtcherLaser
Set Wi-Fi configure with scanning QR Code
Do you want to save?
If you save the access point's SSID / Password in the app, you can skip input the next time.
OK
Cancel
Scan QR Code
Cancel

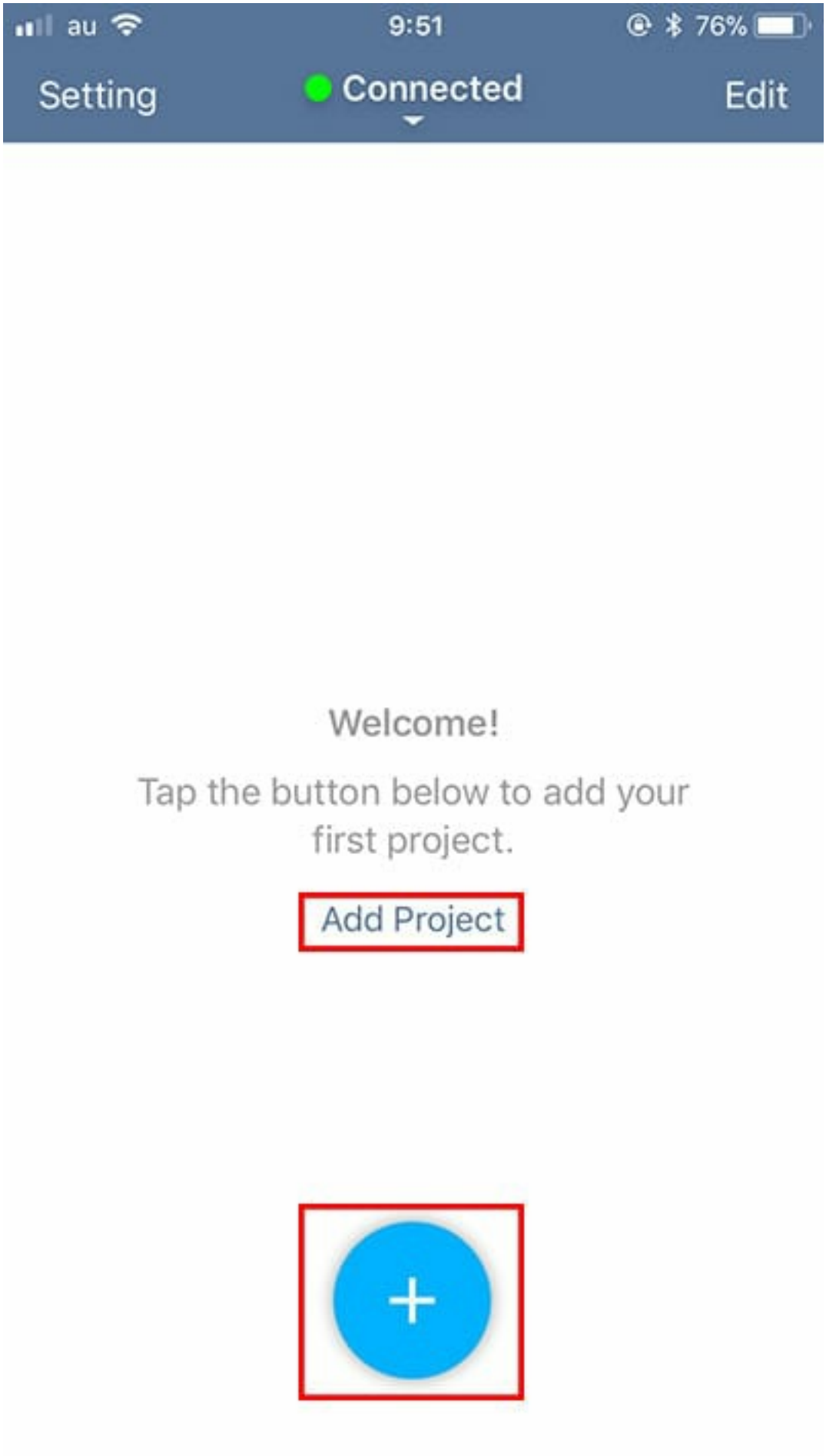
au
9:51
76%
Step3
Connect to EtcherLaser from this App
Select Machine
EL9FU0108
Cancel


au
9:51
76%
Setting
Connected
Edit
Welcome!
Tap the button below to add your first project.
Add Project

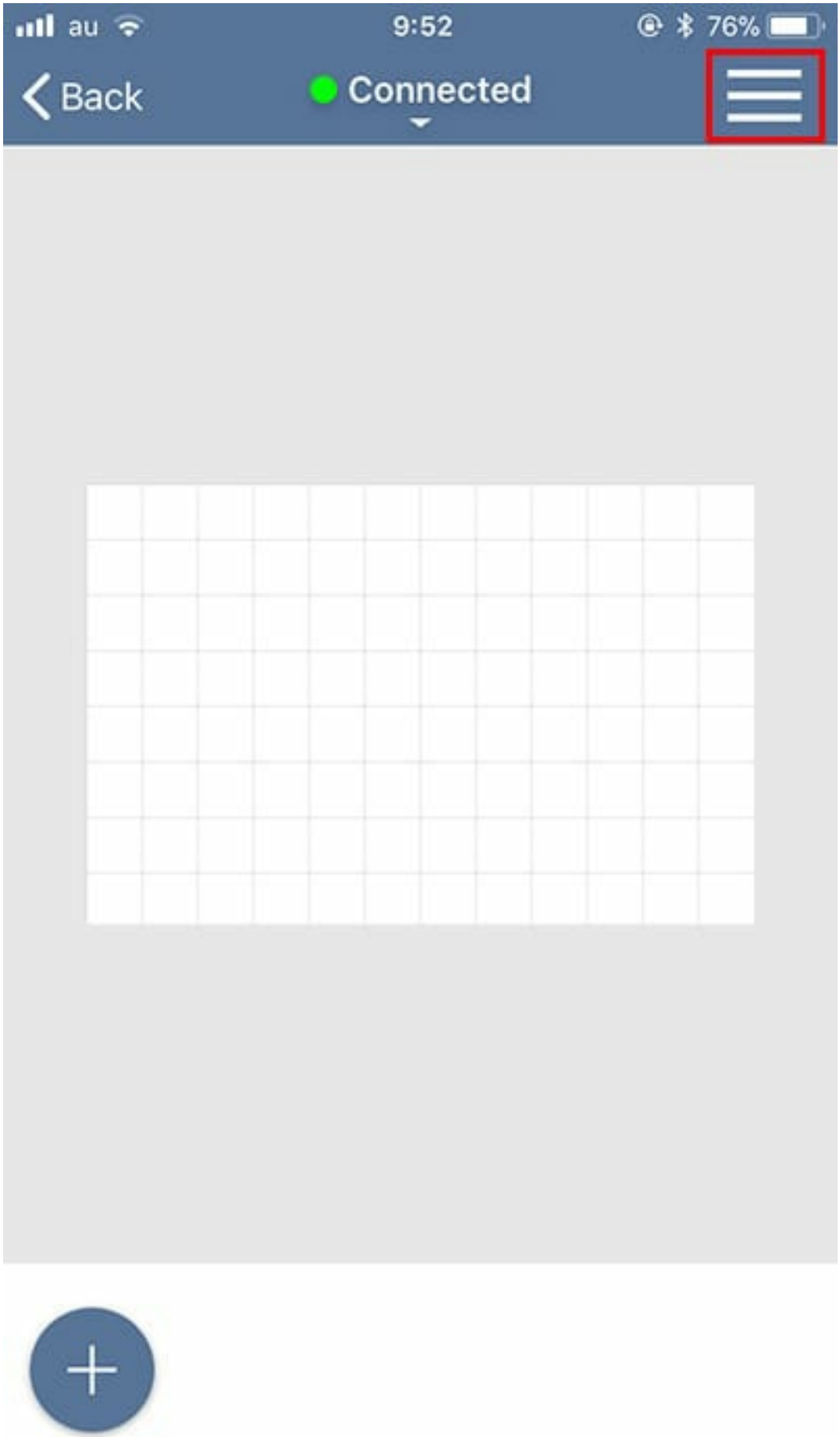
When you finish up setting up the software, you can start processing materials with the Etcher Laser. Prepare a material you would like to work on. (Measure the thickness of the material because you need to input the thickness of the material in the software later.)

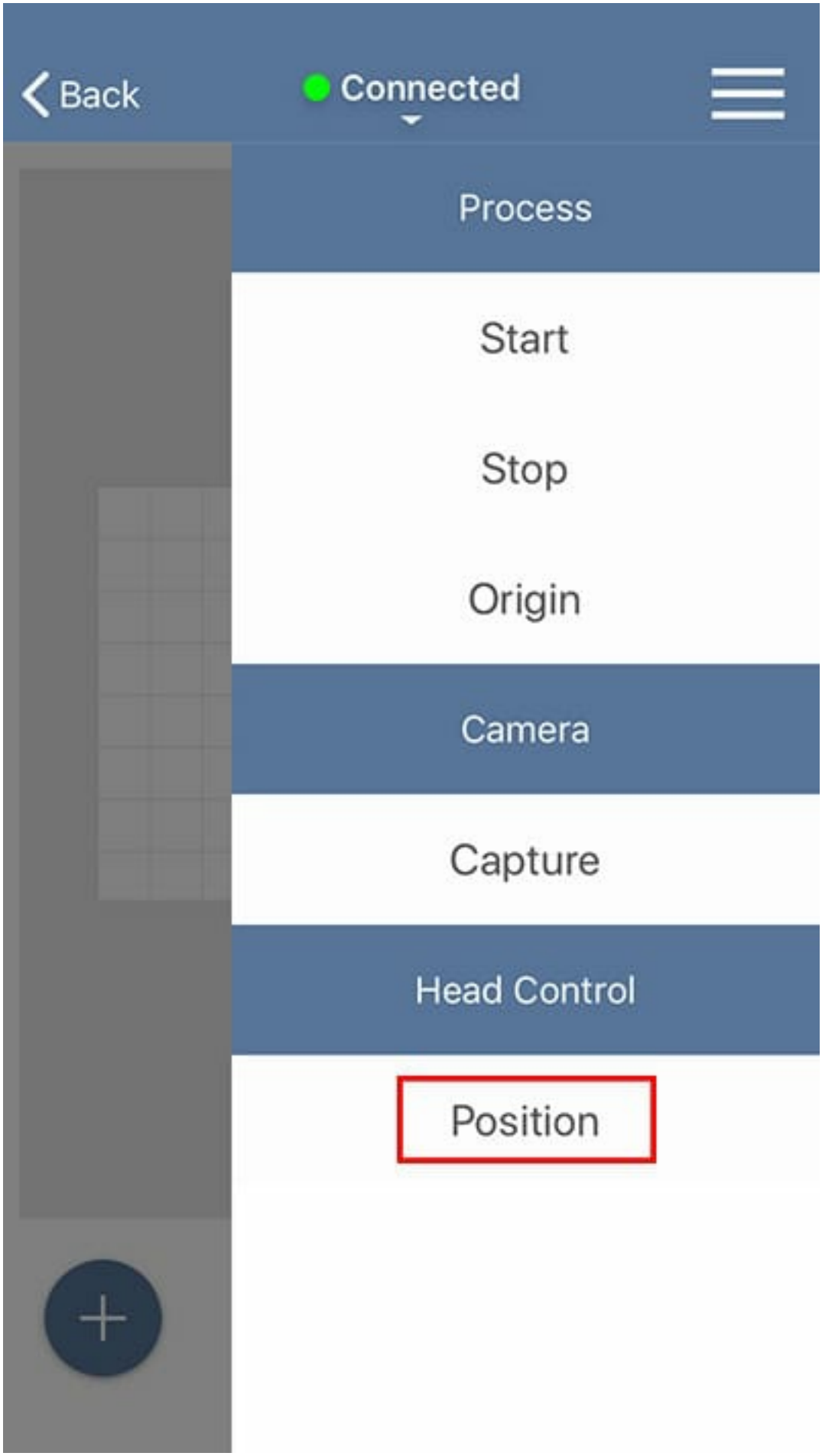
Create a project and place the material

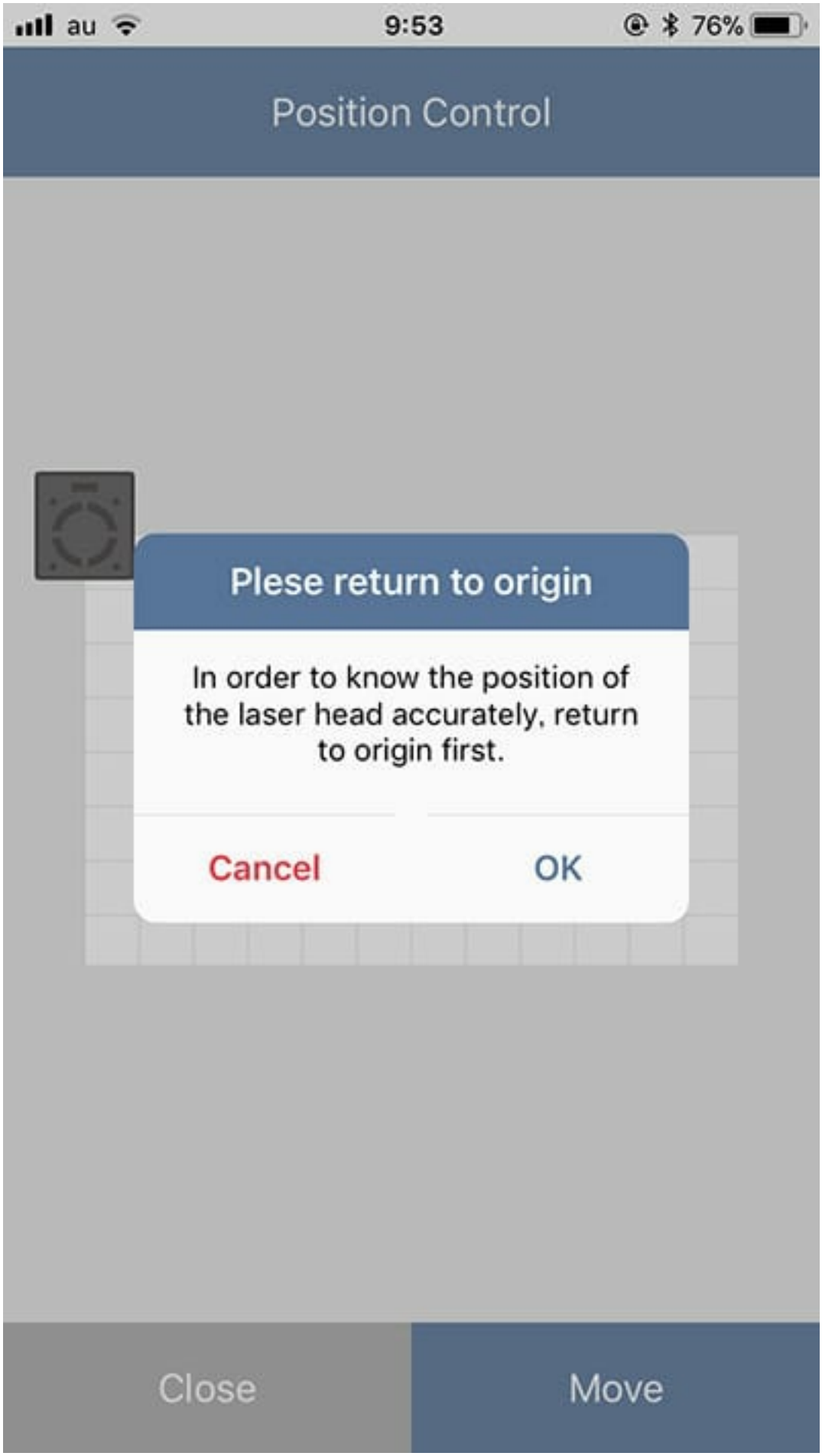
Tap on “Add Project” or the “+” icon on the bottom in the screen.


au
9:51
76%
Setting
Connected
Edit
Welcome!
Tap the button below to add your first project.
Add Project

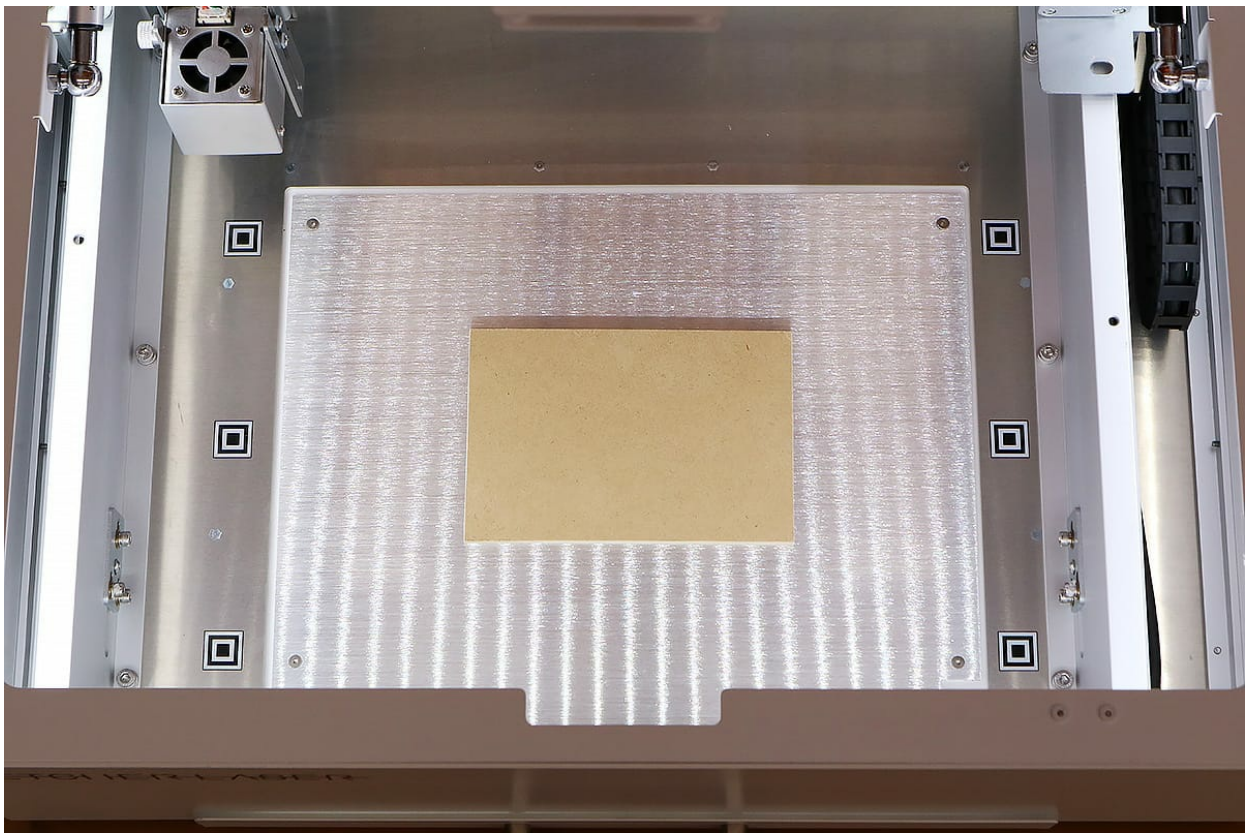
A project will be created and it appears in the graphic area.
Tap on a menu on the top right on the screen and select “Position”. The dialog to show the laser head is going to the original position. After you click “OK”, the laser head will move to the original position (the top left side of the working area).


au
9:52
76%
Back
Connected

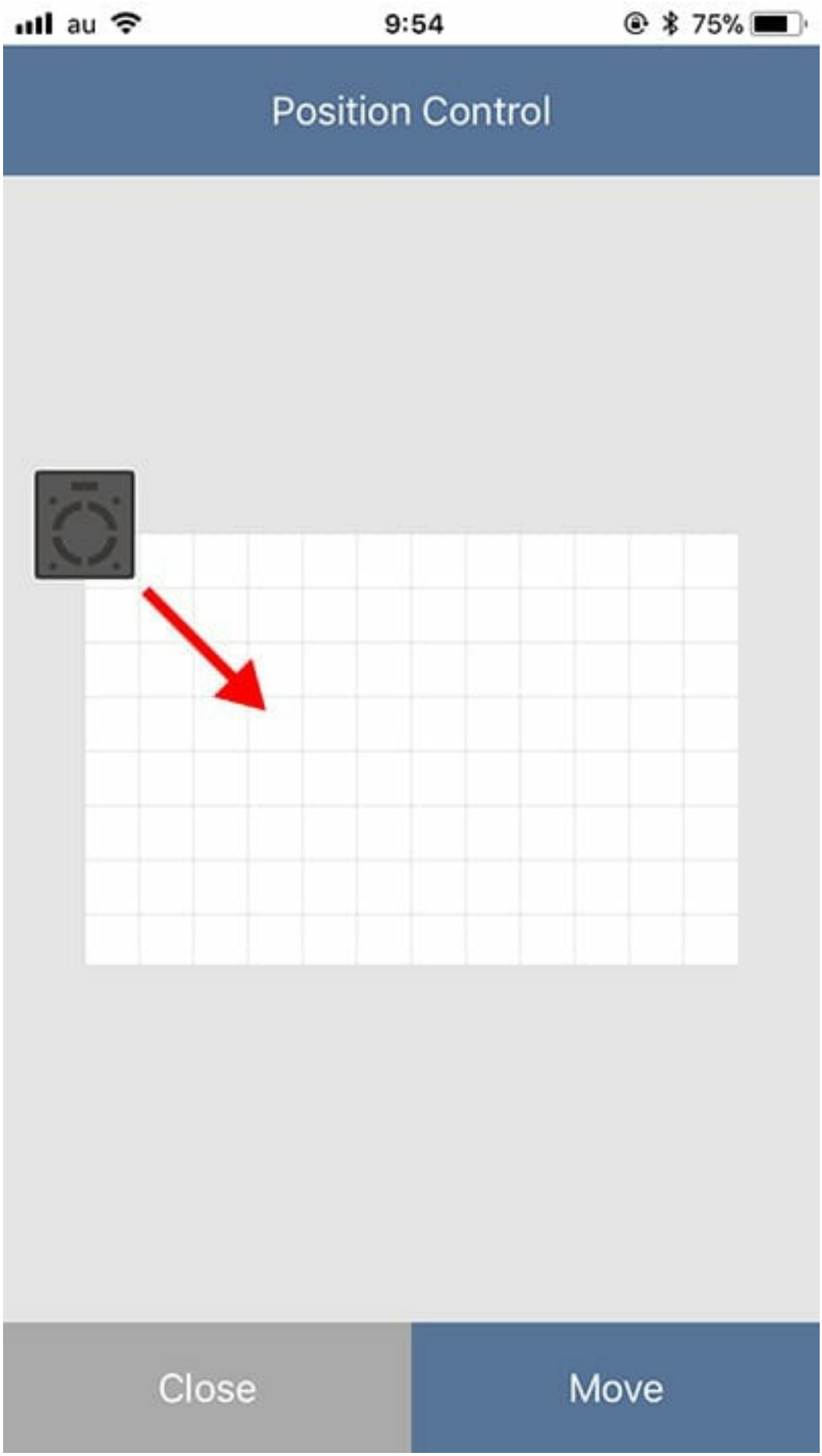

Back
Connected
Process
Start
Stop
Origin
Camera
Capture
Head Control
Position

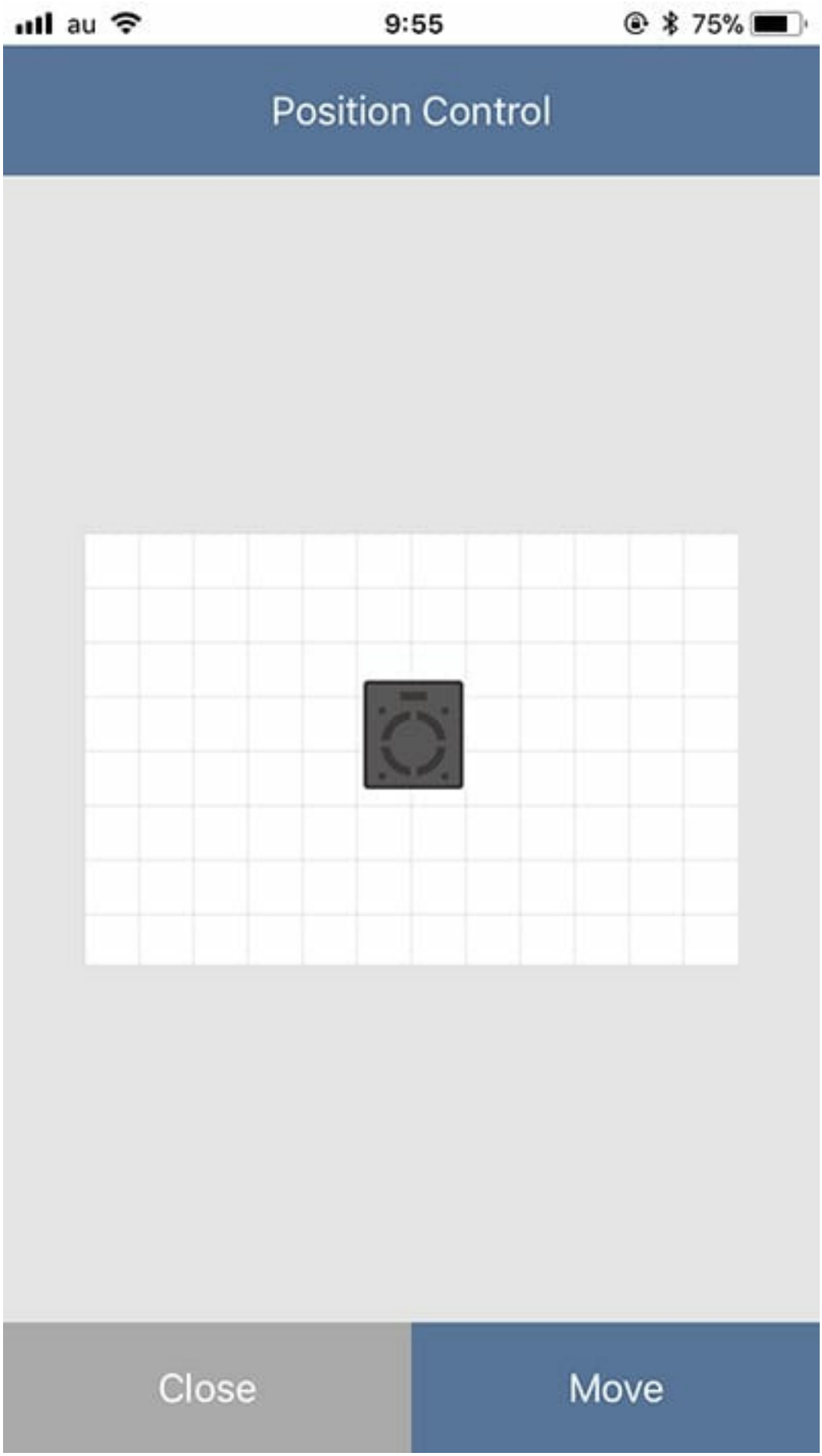

au
9:53
76%
Position Control
Plese return to origin
In order to know the position of the laser head accurately, return to origin first.
Cancel
OK
Close
Move

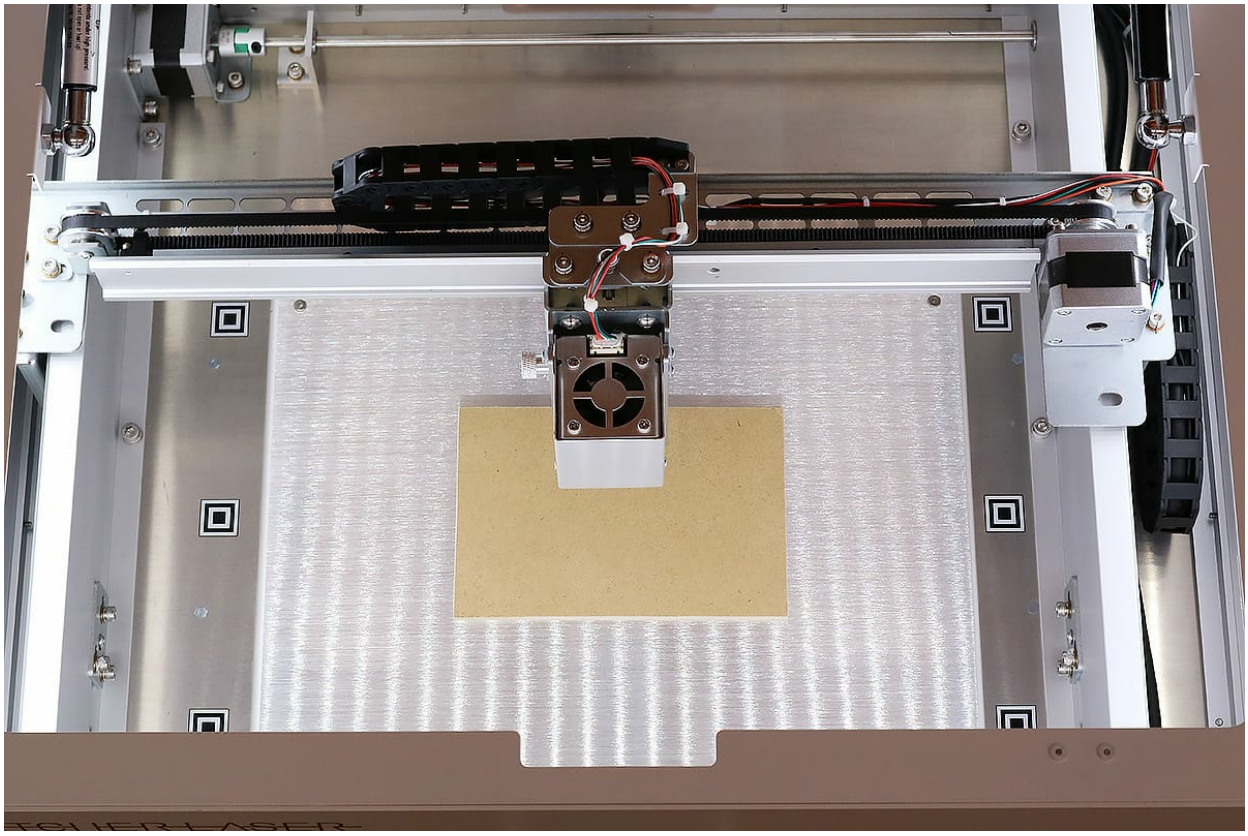
Place the material in the center of the work area. When placing the material, DO NOT cover the stickers for positioning (white and black squares) placed around the work area with the material.



The laser head will move to a certain position when you drag the image of the laser head in the screen to the position you would like to set and tap on “Move”. Use this function to move the laser head so it is above the material. When you finish moving the position of the laser head, tap on “Close”.

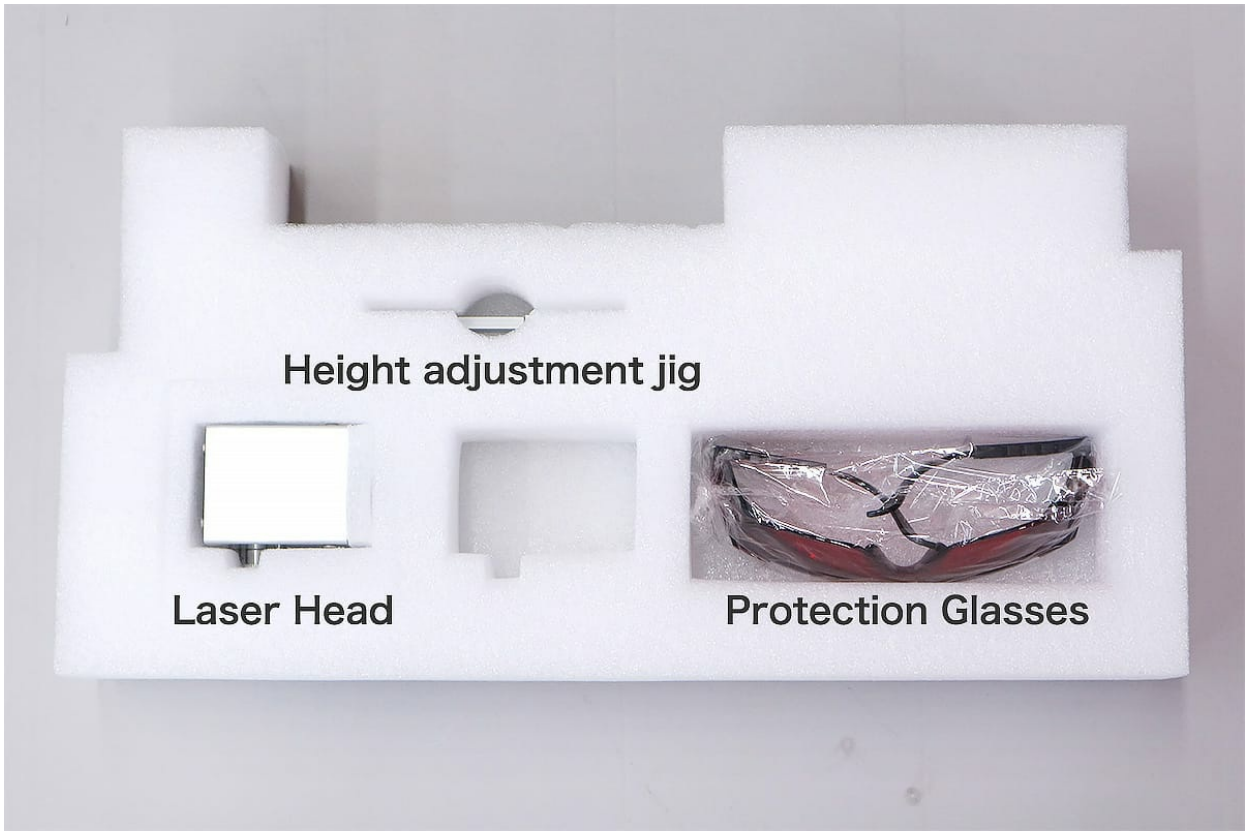

au
9:54
75%
Position Control
Close
Move


au
9:55
75%
Position Control
Close
Move

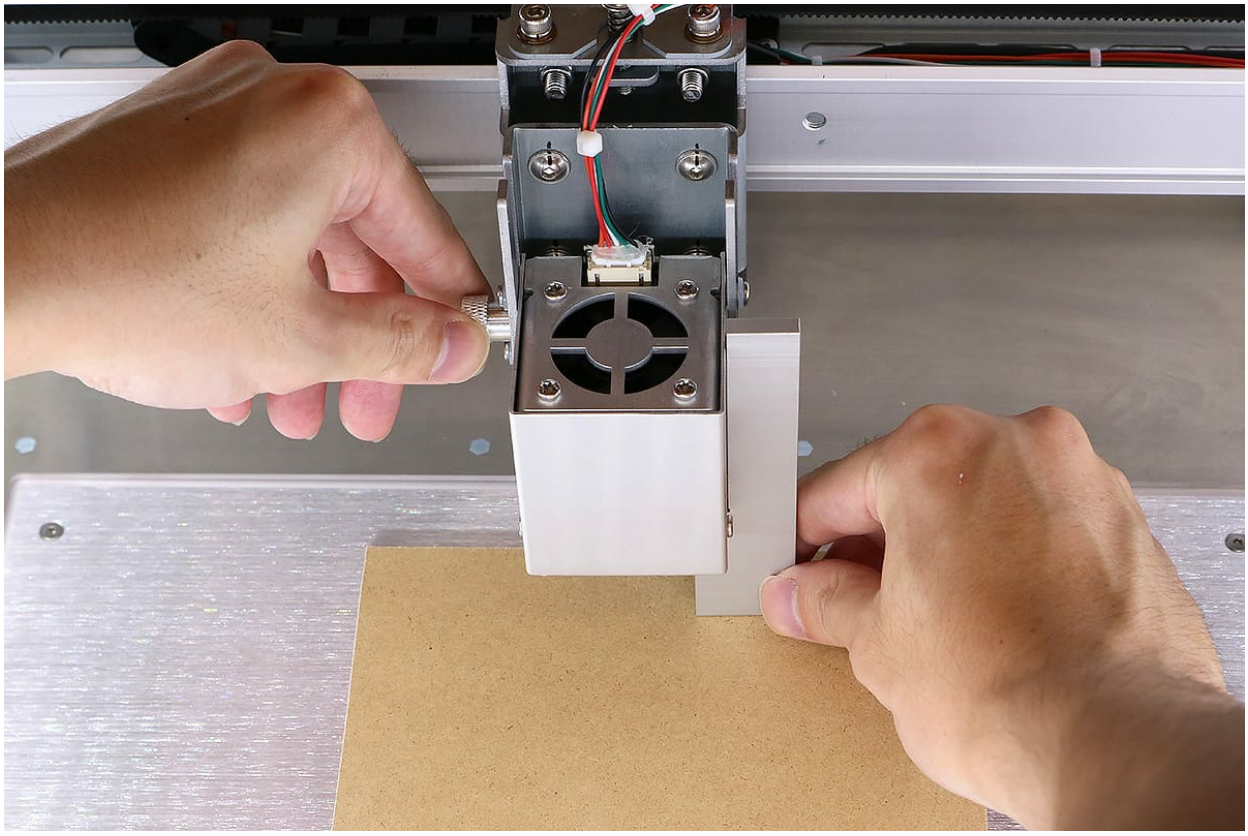


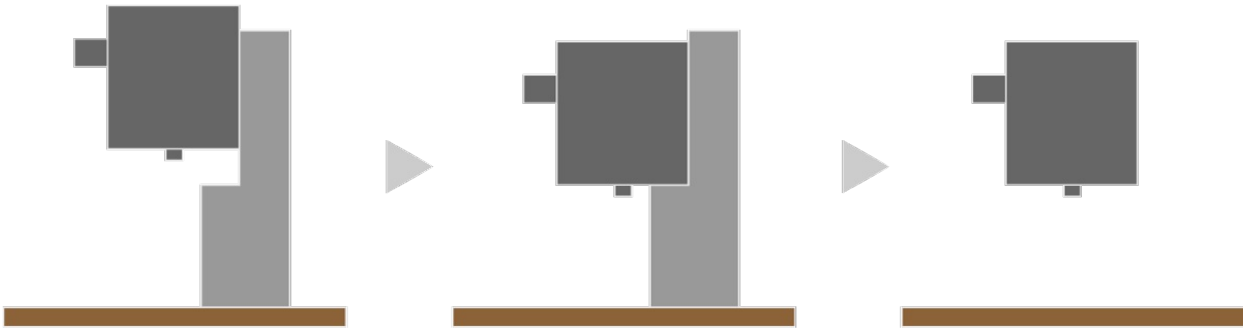
Adjust the height of the laser head

Next, adjust the height of the laser. When you process a material with the Etcher Laser, you need to adjust the height to set the focal length depending on the thickness of the material. Take out the height adjustment jig from the box and place it on the material.

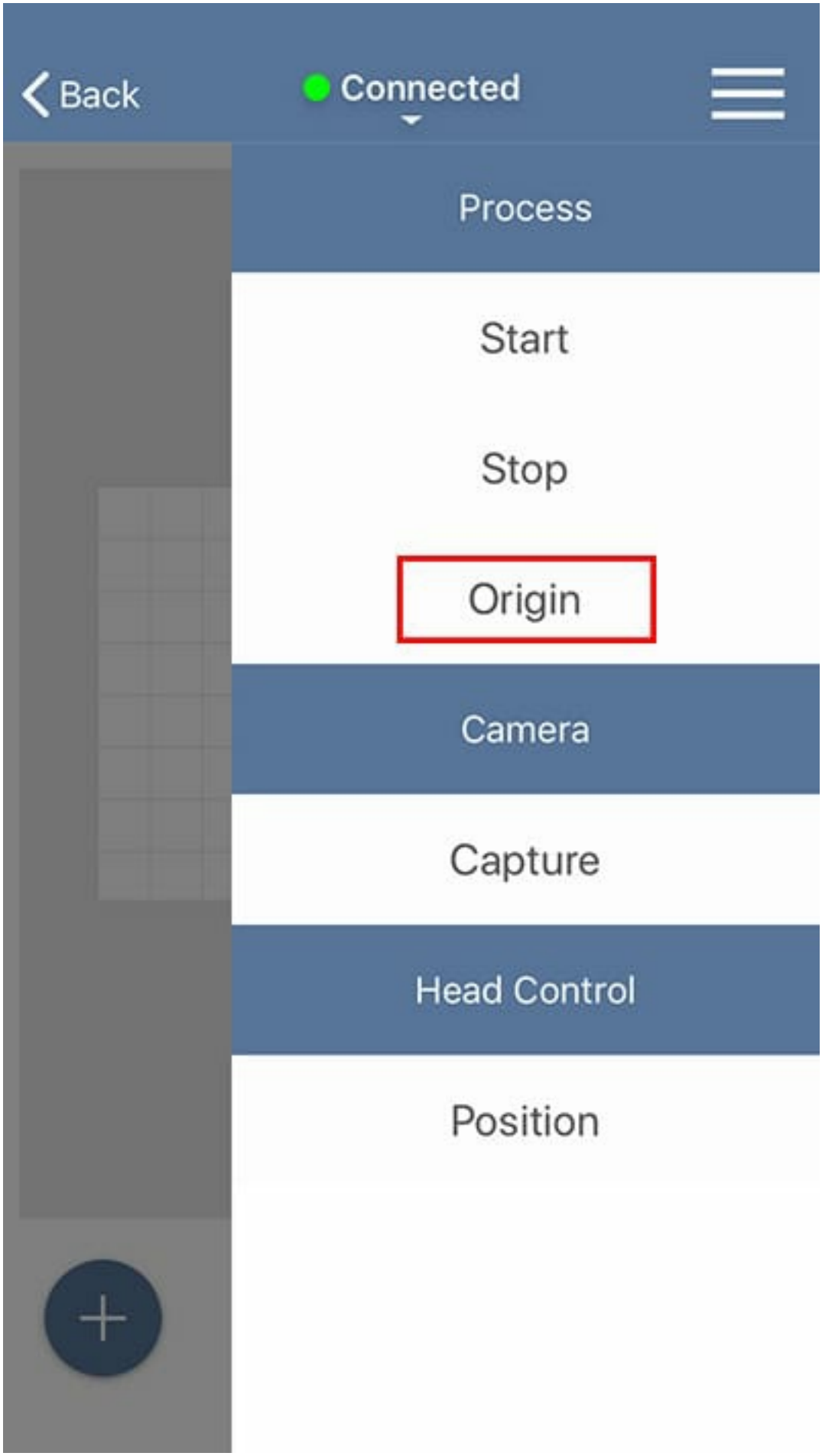


Loosen the screw for height adjustment on the laser head, and slide the laser vertically until the bottom part of the laser head touches the height adjustment jig.



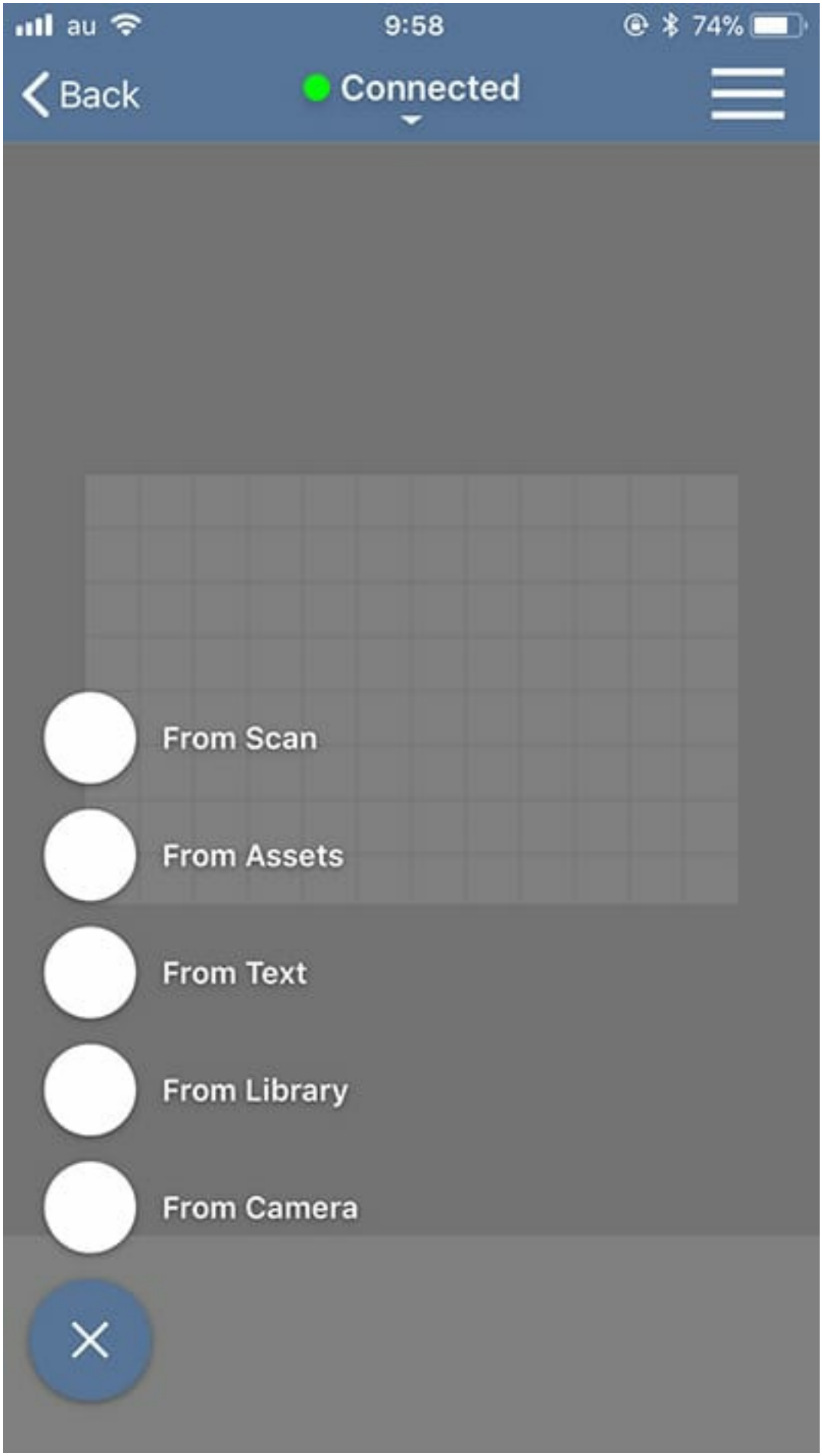


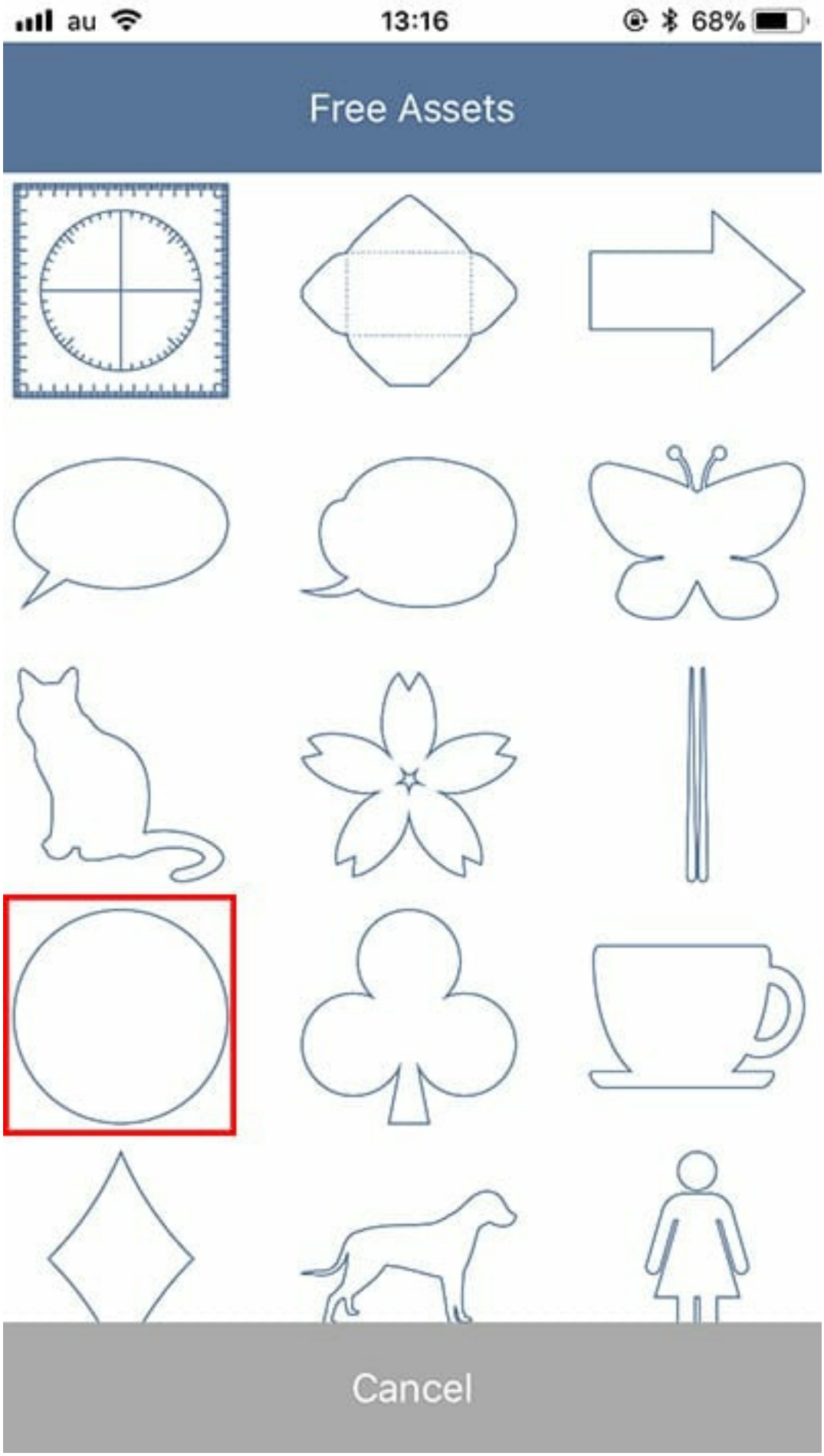
Tap on a menu on the top right on the screen and tap on “Origin” to move the laser back to the original position.

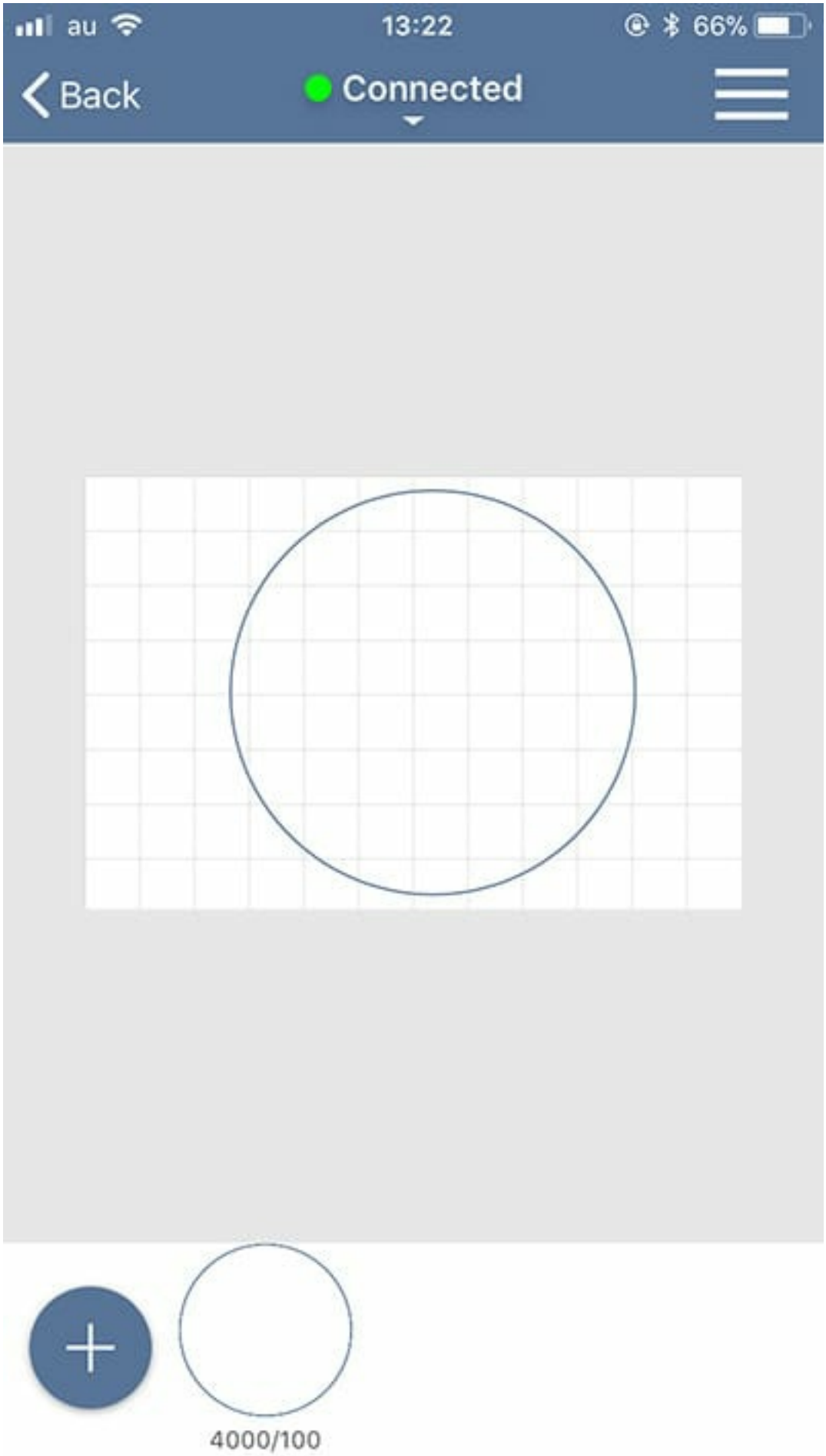

Back
Connected
Process
Start
Stop
Origin
Camera
Capture
Head Control
Position

Import data and check positioning

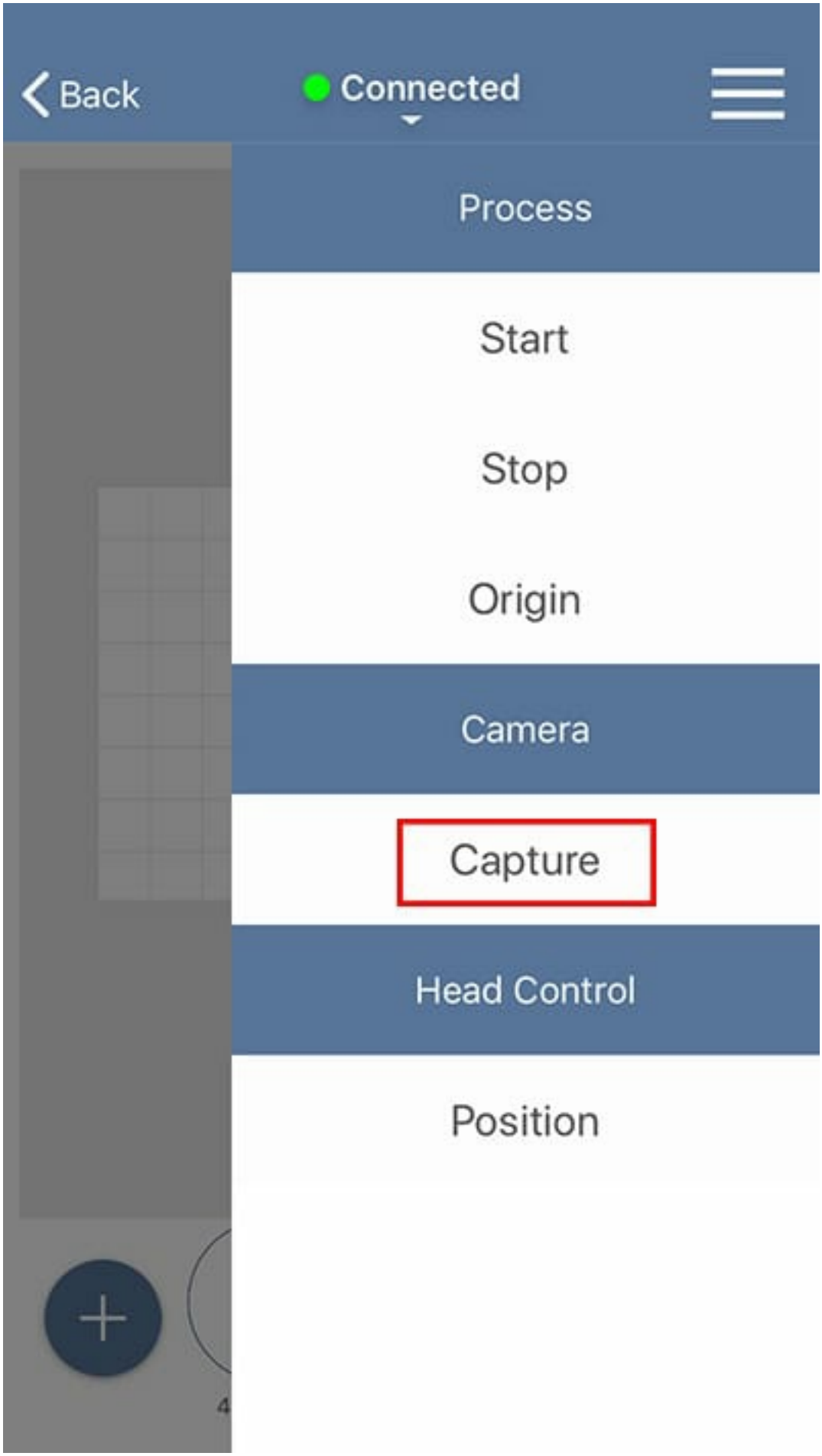
Next, tap on the “+” icon on the bottom left in the screen to import your data. There are several ways to import data and different types of data, but for this example, tap on “From Assets” and select circle shape. Then the circle shape you selected will appear in the graphic area.

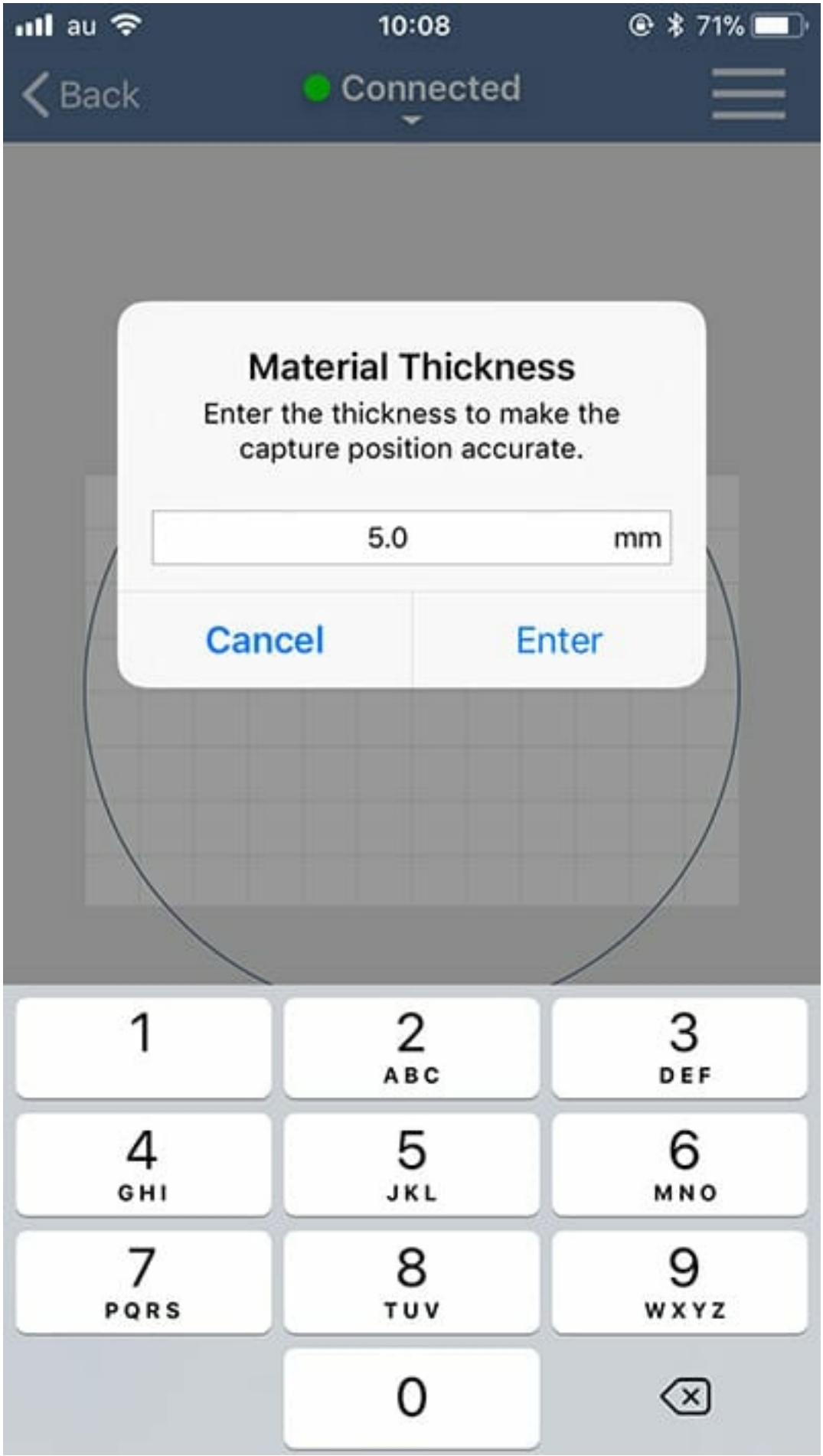

au
9:58
74%
Back
Connected
From Scan
From Assets
From Text
From Library
From Camera

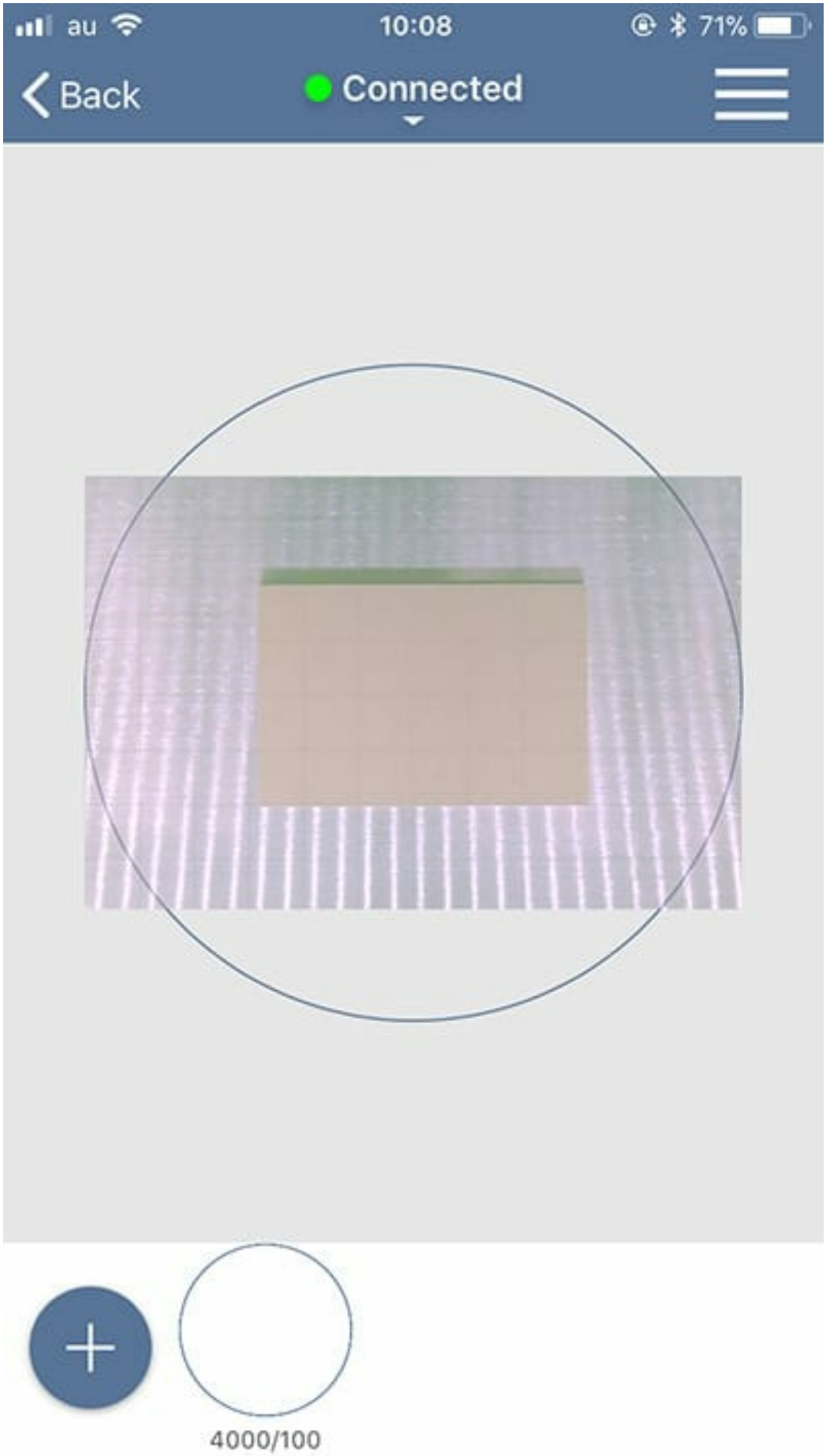

au
13:16
68%
Free Assets
Cancel


au
13:22
66%
Back
Connected
4000/100

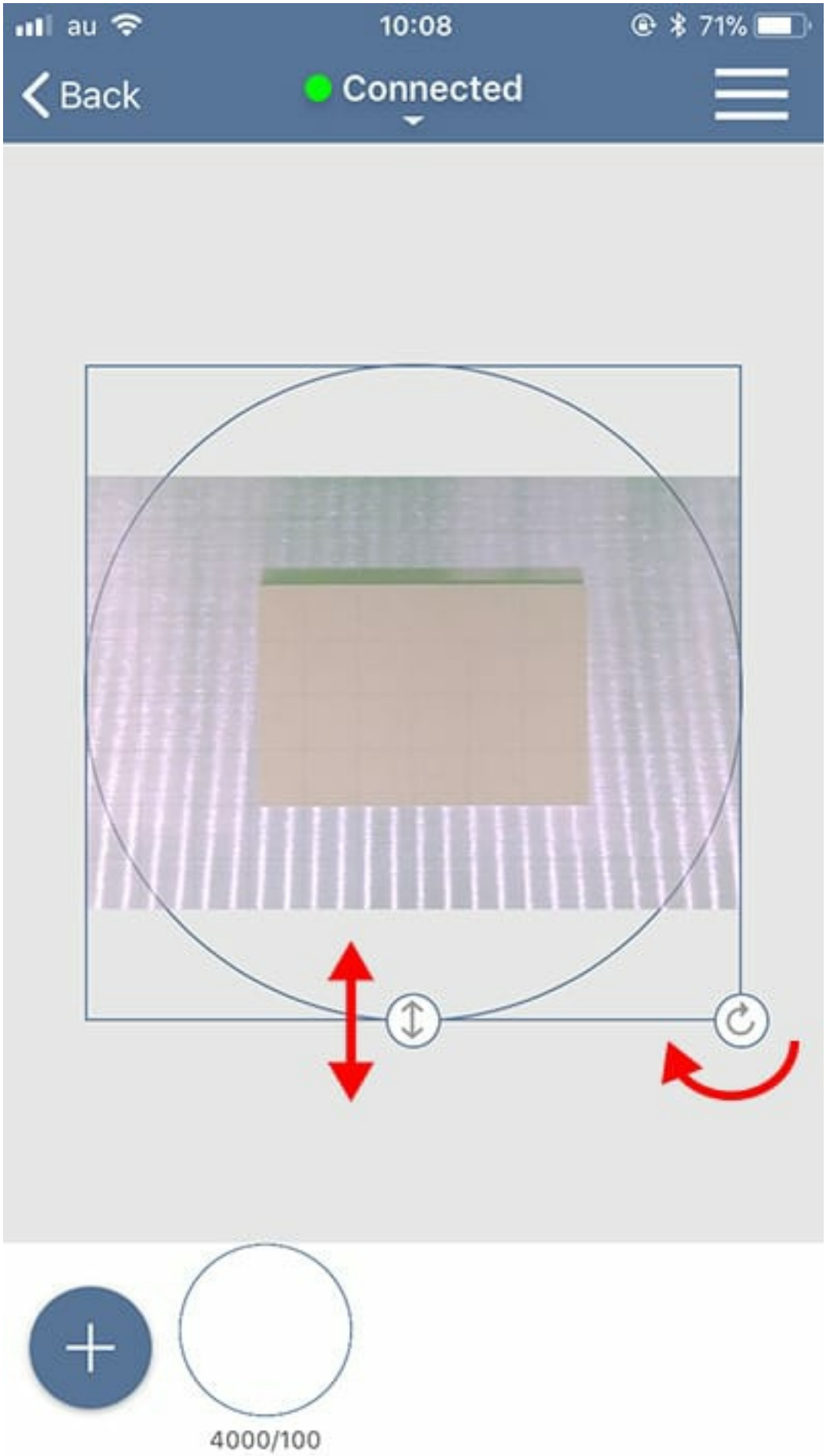
If you open the lid and click tap on a menu on the top right in the screen to select “Capture”, the dialog to input the thickness of the material will appear. After you input the number and click the “OK” button, the graphics area will display the material.
If the lid is open and/or the laser head is not positioned on the origin before this step, the material will not appear on the screen properly. The stickers for positioning should not be on the screen. If the stickers are there, redo the step to capture the material by the camera.

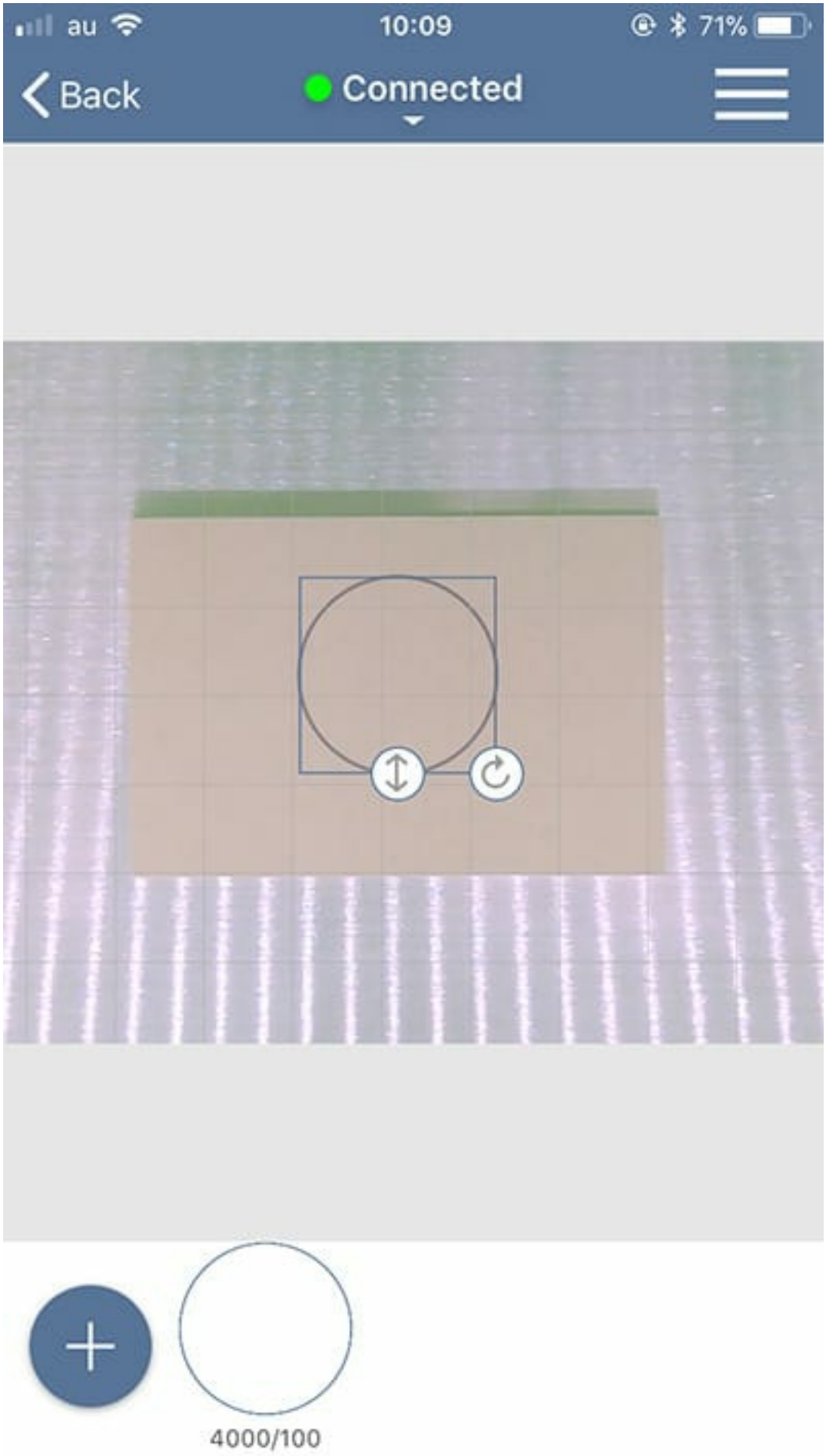

Back
Connected
Process
Start
Stop
Origin
Camera
Capture
Head Control
Position


au
10:08
71%
Back
Connected
Material Thickness
Enter the thickness to make the capture position accurate.
5.0
mm
Cancel
Enter
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
0


au
10:08
71%
Back
Connected
4000/100

Adjust the size of the design and place it on the material. You can adjust the postion of the design when you tap on the circle shape and drag it to a position, and also you can change the size and the angle by dragging the arrow mark. Plus, you can zoom in/out the display area by pinching in/out the graphic area.

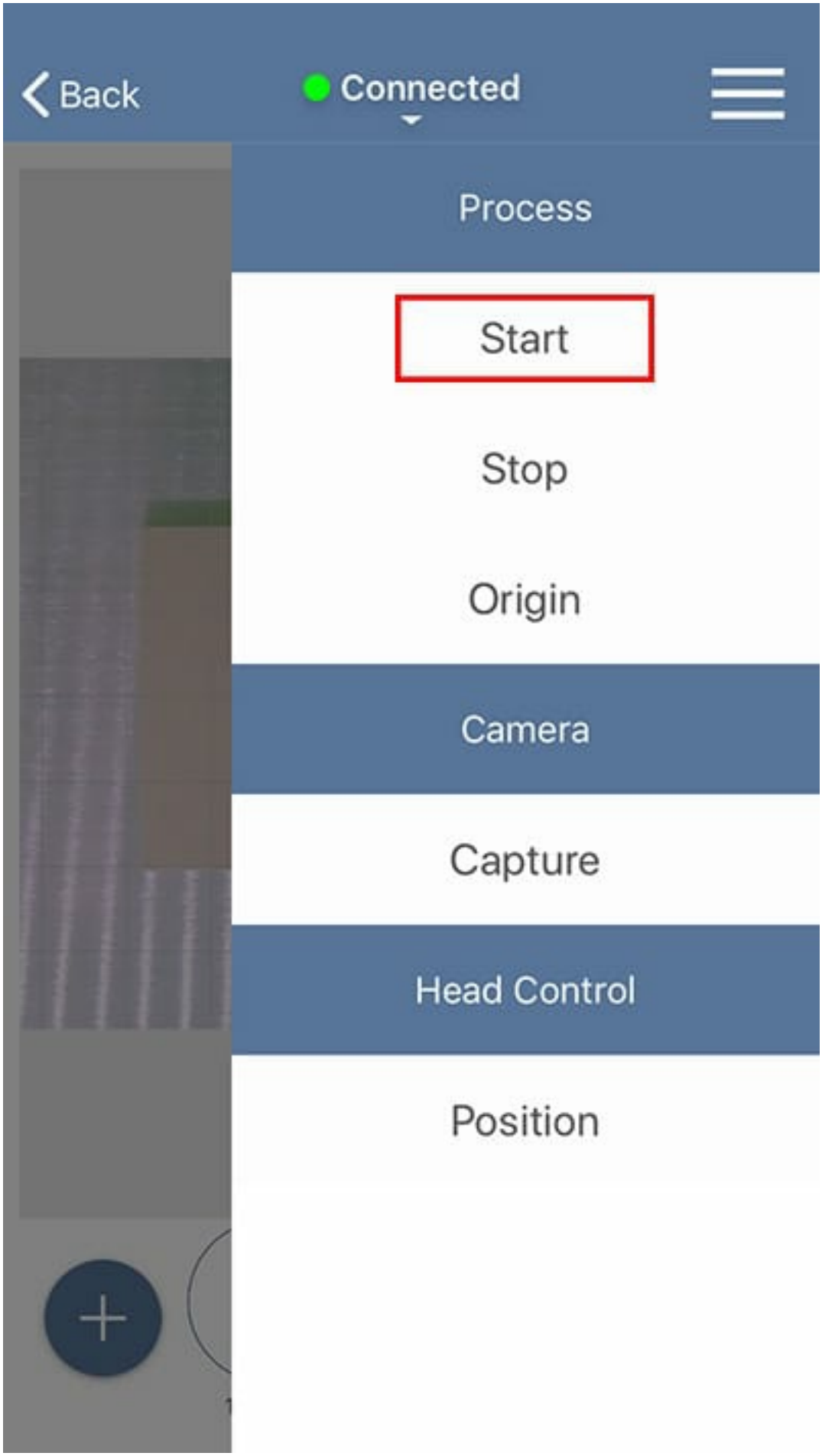

au
10:08
71%
Back
Connected
4000/100

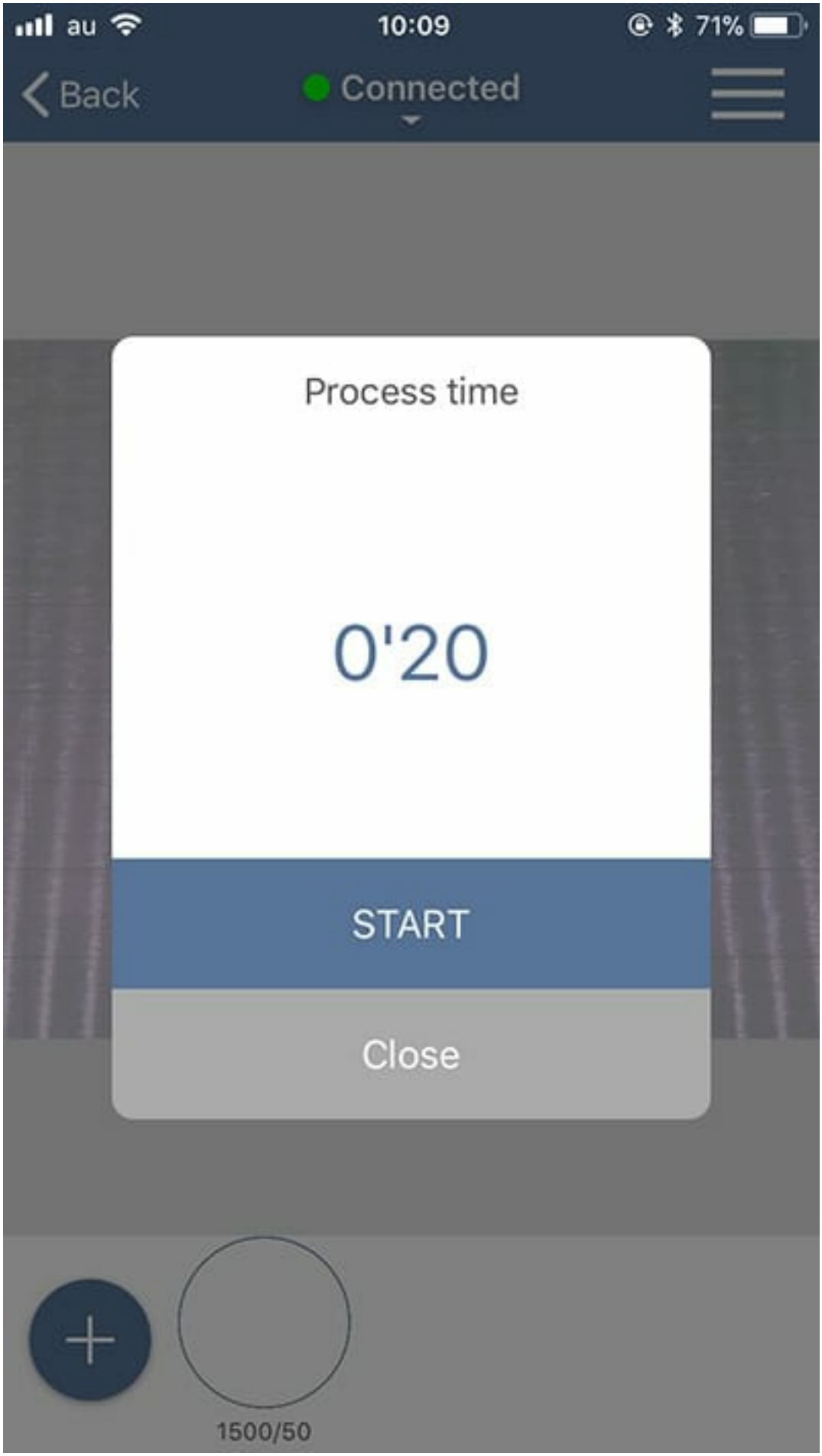

au
10:09
71%
Back
Connected
4000/100

Set parameters and start processing

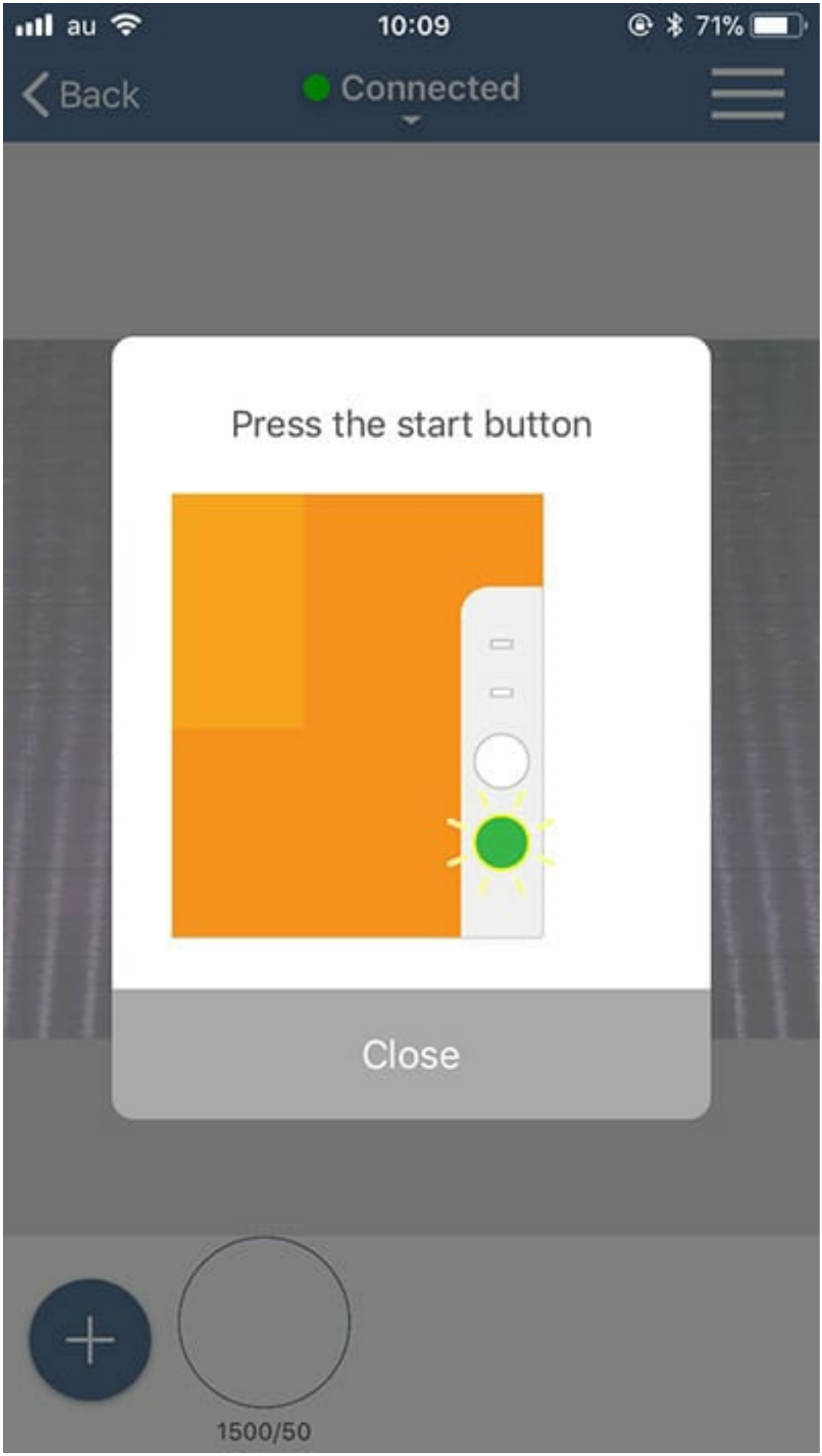
Next, set the parameters for the process. Tap on the item (circle shape) in the bottom area of the screen to display the dialog for parameter setting. This time, set 1500 for the speed, 50 for the power, and 1 for the number of processing times. (Please refer to the page “SmartDIYs Creator ManualParameter settings” for further information on the parameters.)

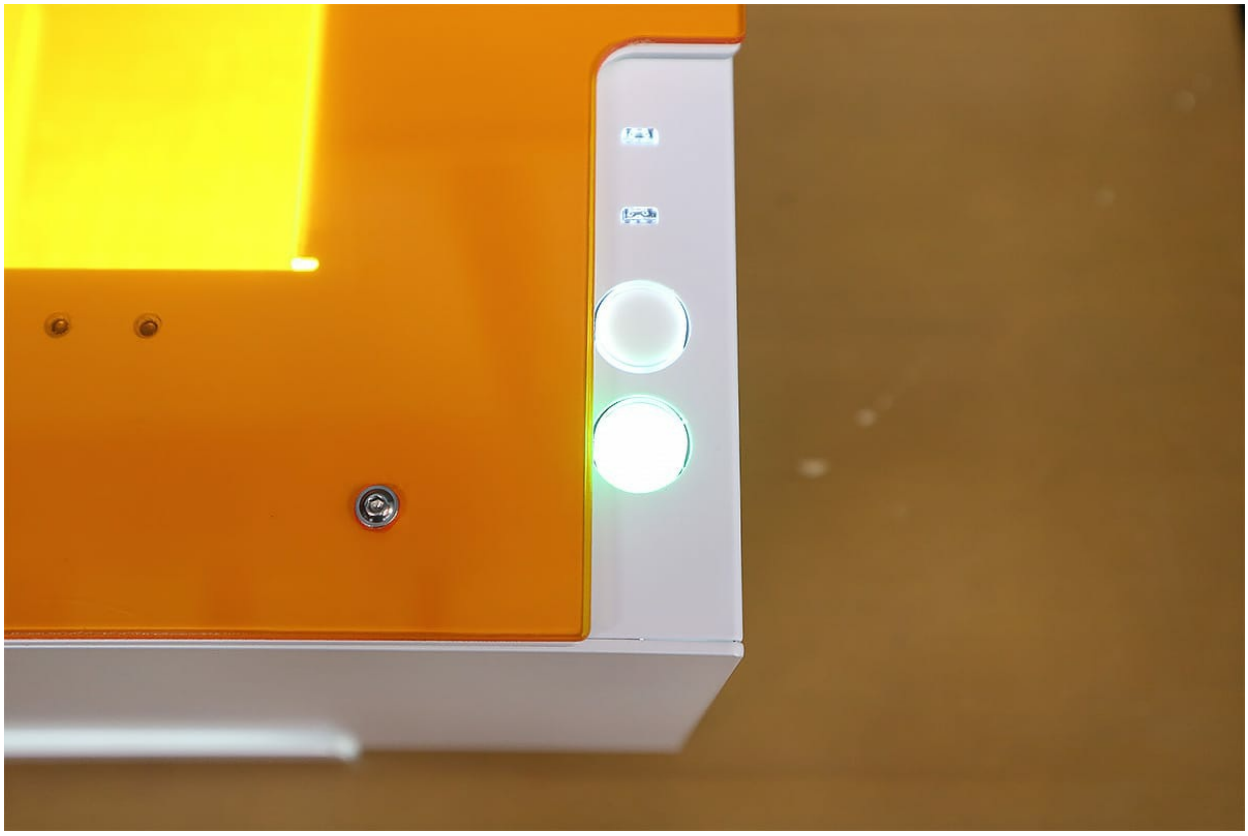
After that, close the lid of the Etcher Laser and tap on the “START” button. A dialog with the estimated processing time will appear, so confirm and click the “OK” button to proceed.

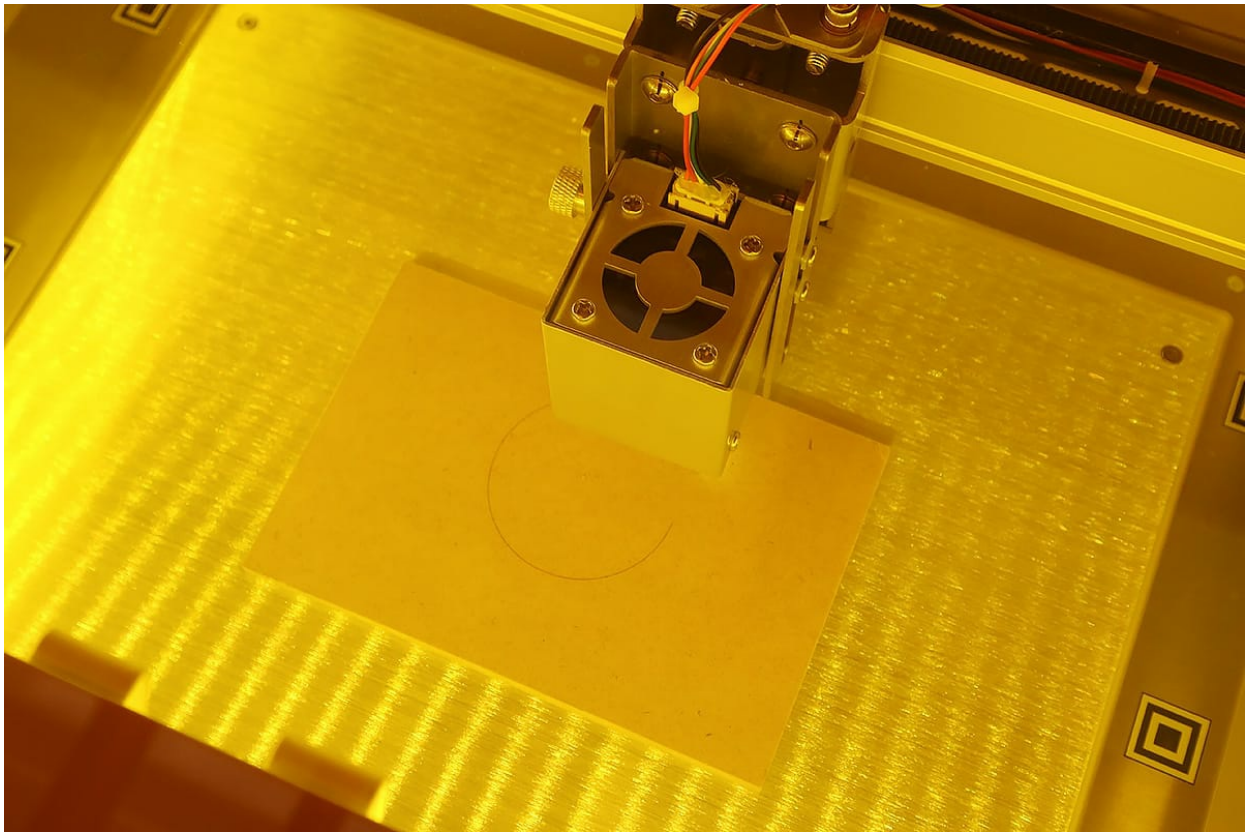

Back
Connected
Process
Start
Stop
Origin
Camera
Capture
Head Control
Position


au
10:09
71%
Back
Connected
Process time
0'20
START
Close
1500/50

The button on the bottom right of the lid on the device will turn to green, so press it to start processing. DO NOT leave the device while processing is in progress
*If you start processing while the lid is open, the laser head will move but the laser will not irradiate.


au
10:09
71%
Back
Connected
Press the start button
Close
1500/50





Further details on the software are in the manuals:SmartDIYs Creator

Safety Guidelines

- Laser radiation is dangerous. It can cause fire, burns, or damage to your eyes. Do not turn the power on when the laser head is not facing down. Also, always wear safety glasses when the power is on. Do not look directly at the laser radiation even while wearing the safety glasses.
- Do not leave the device while it is running. Make sure that you stay around the device so that you are able to detect any issues or problems and to reach the device to pause the process.
- Do not place the machine on an unstable surface, such as a table that is not level.
- When the bottom cover is removed and the power is on, place a board under the machine to protect the surface underneath.
- The laser is class 4 when the bottom cover is removed. Make sure none of your body parts are exposed to laser radiation and always wear safety glasses to protect your eyes.
- Do not turn the power on until assembly is completed.
- Keep all of your body parts free of the processing area while the laser is running.
- Do not leave the machine with the power on. Do not move the machine with the power on. Unplug when moving the machine.
- Make sure that the materials you are processing do not emit toxic substances when heated.
- Do not allow moisture around the machine body or the plug.
- Do not put flammable materials near the machine.
- Some materials emit smoke and odor when being processed. Ventilate the room or use a dust collector.
- Do not exceed one hour of continuous use
- Do not operate in temperatures greater than 30C or 86F.
- If something is out of the ordinary, stop operation immediately and unplug.
- For more safety information, refer to the manuals on the website.

Maintenance

- Maintenance tips are on the website with the other manuals. Please refer to it and clean your machine regularly in order to prolong its lifespan.
- The laser head is replaceable. You can purchase it on our online shop web page.

Product Warranty

Damages caused by not following the safety guidelines/ manuals/instructions will not be covered under warranty. We also do not bear any responsibility for damages caused by remodeling or modification of the machine.

FCC Warnning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.