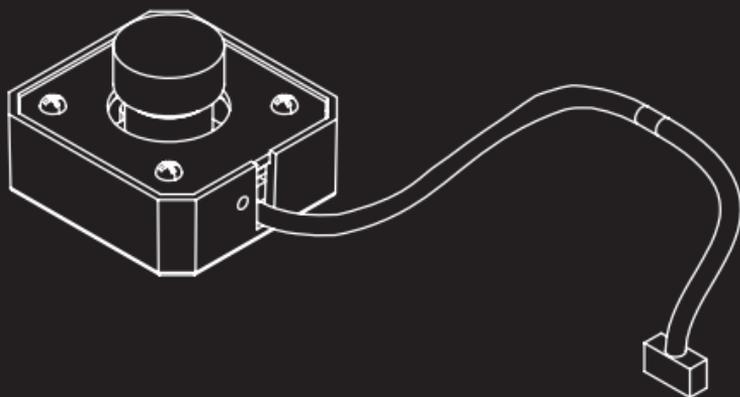


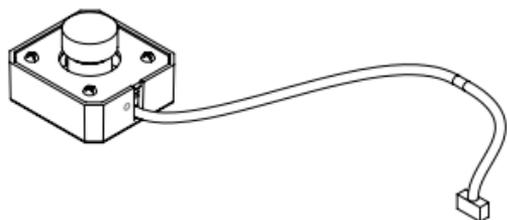
Genmitsu

Camera Module Kit for Kiosk Laser Machine User Manual

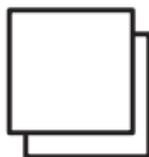


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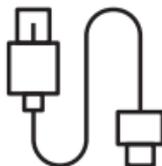
Unbox



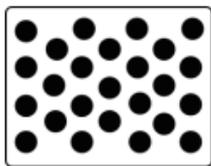
Camera Module



(2) Kraft Paper



USB-Type A Cable



Focus Card



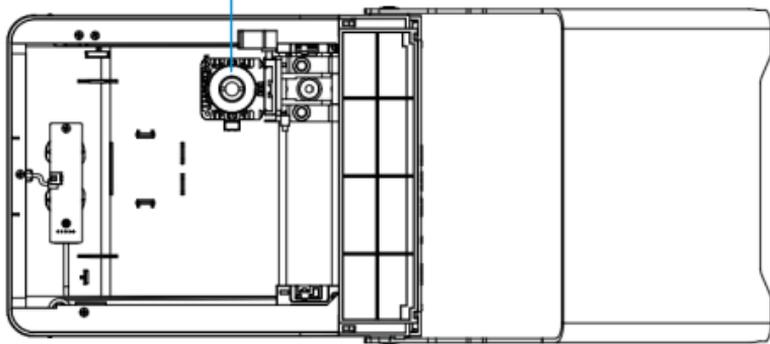
User Manual

Step 1: Installation

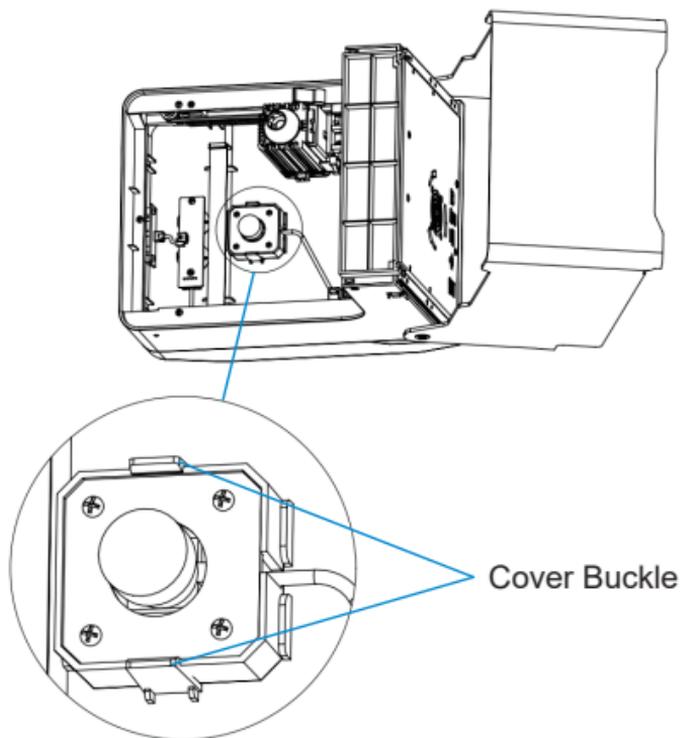
1. Place the machine upside down and manually move the laser module to the upper right position.

Tip: During installation, please be sure to turn off the power of the machine first and seal the laser air nozzle with an opaque sticker.

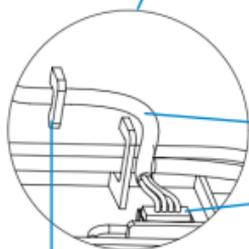
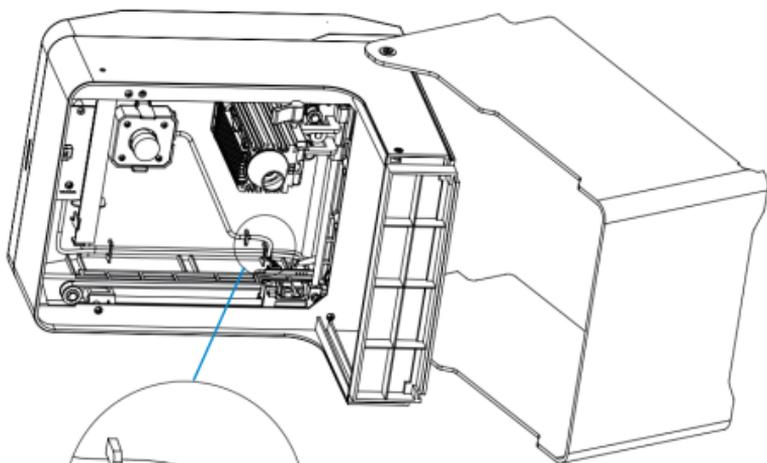
Move the laser module to the upper right position



2. Install the camera module into the top cover buckle.



3. Plug the cable terminal into the corresponding connector, as shown.
4. Push the camera cable through the cable clamp opening and hang it inside.



Cable of the Camera Module

Cable Terminal

Opening Direction of the Cable Clamp

Congratulations! You have completed the camera installation steps; follow us into calibrating the camera lens.

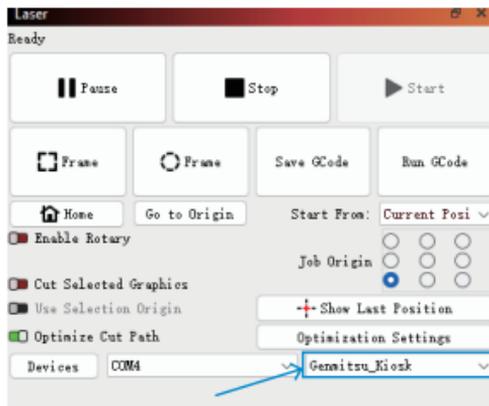
Step 2: Camera Focus and Adjustment

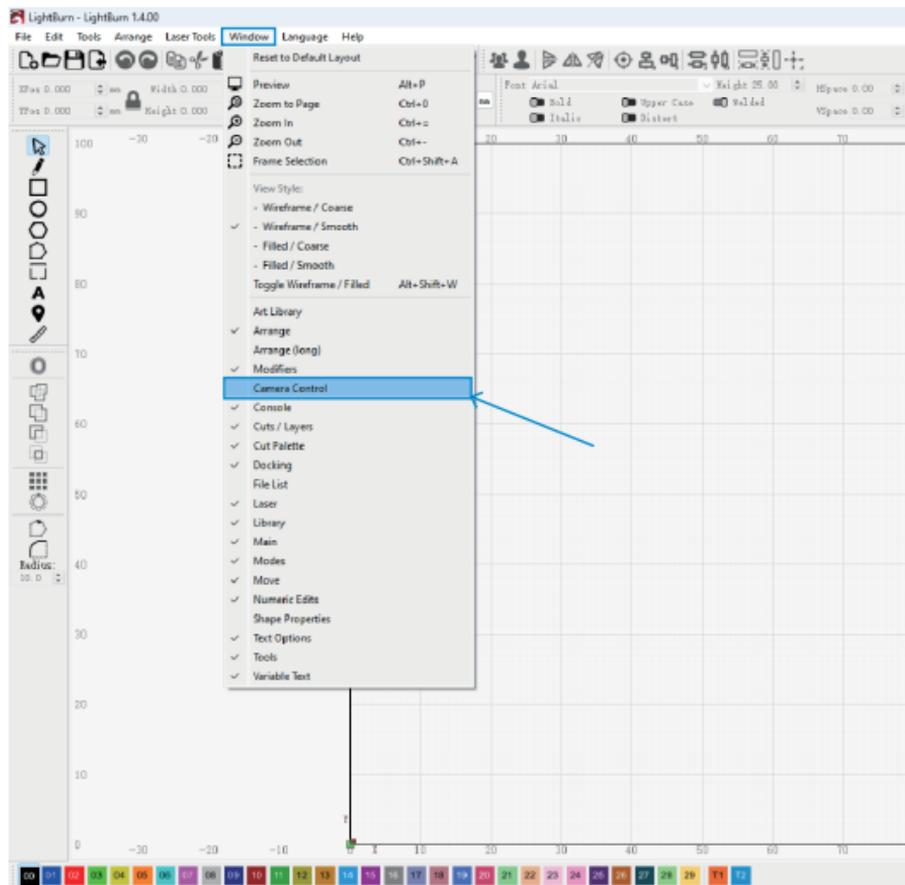
What you need in this step:

- The Kiosk
- The computer already has Lightburn installed.
- USB-Type A Cable
- Focus Card

PART 1: Preparatory Work

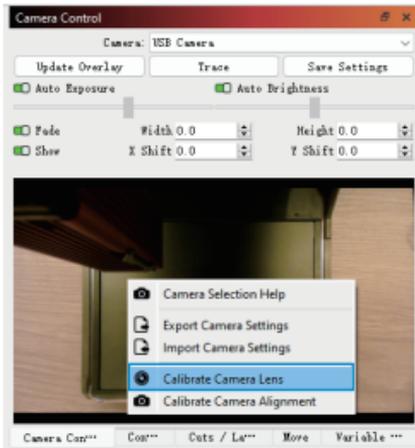
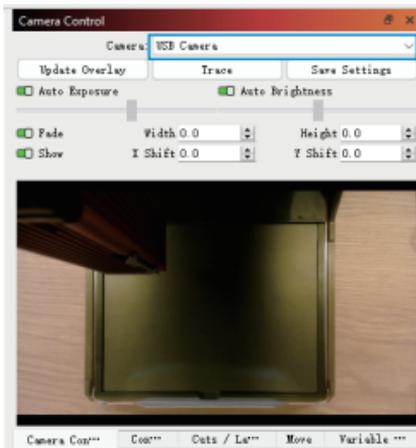
1. Please open the Lightburn software and select the kiosk model for calibration.
2. Connect the kiosk to your computer with the USB-Type A cable.
3. Click the “window” on the bar and select “camera control”.
4. Move the laser head module to the upper left corner for subsequent operation easily.
5. Press the power button to turn off the machine.



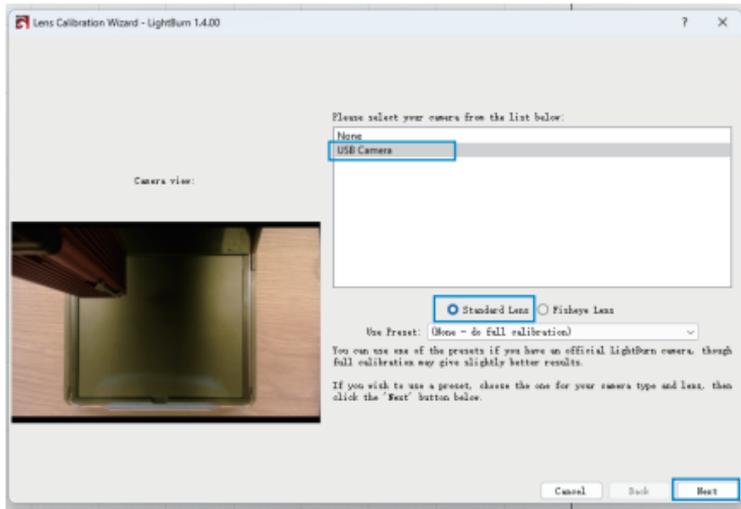


PART 2: Calibrate Camera Lens

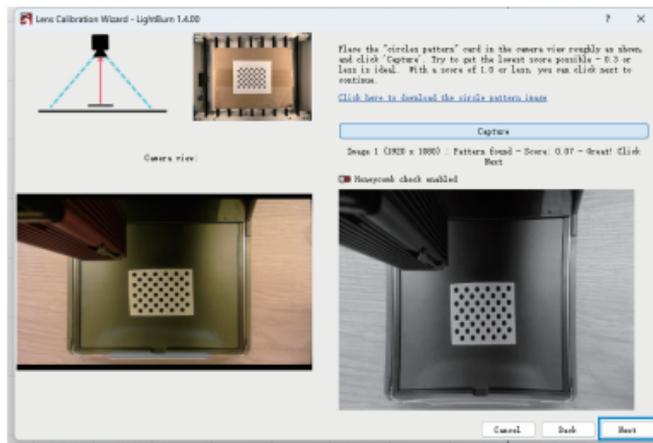
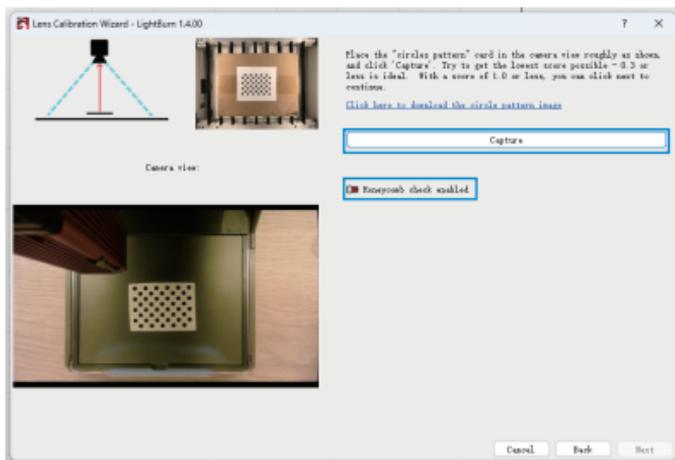
1. Click “camera control” in the control bar, and select the camera name as “USB Camera”.
2. Right-click and select “Calibrate Camera Lens”.



3. After entering the “Lens Calibrate Wizard” interface, select “USB Camera”.
4. Select “standard Lens” and click “Next”.

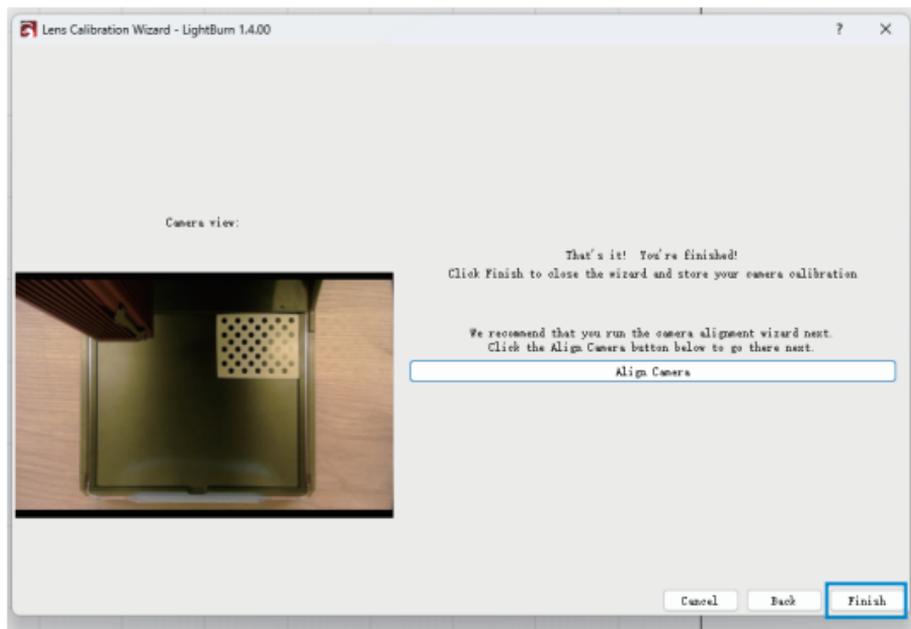


5. Place the focus card according to the guidelines and turn off “Honeycomb check enabled”.
6. Click “Capture” to get the value. The focus card can be properly raised with a wooden block, to prevent the black circle from being unreadable due to exposure. Then click “Next”.





8. After completing the above operations, click “Finish” to complete the Calibrate Camera Lens.

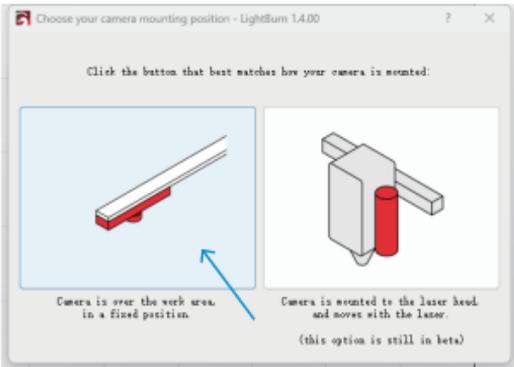
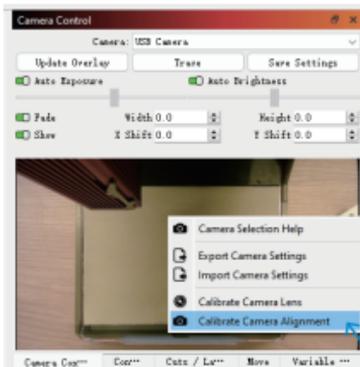


PART 3: Calibrate Camera Alignment

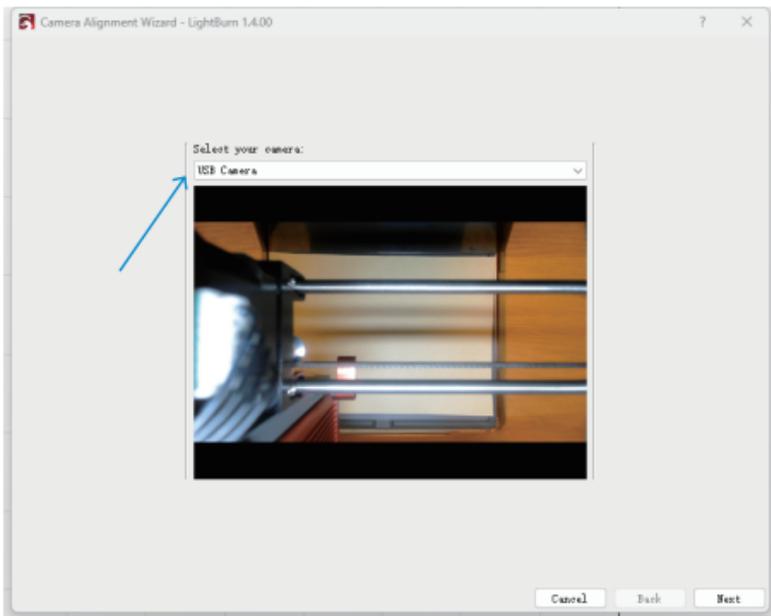
What you need in this step:

- Kraft Paper

1. Press the power button to turn on the machine.
2. Place the Kraft paper and focus.
3. Right-click and select “Calibrate Camera Alignment”.
4. Click “Camera is over the work area” icon.



5. Select “USB Camera”, wait for the image to be acquired, then click “Next”.

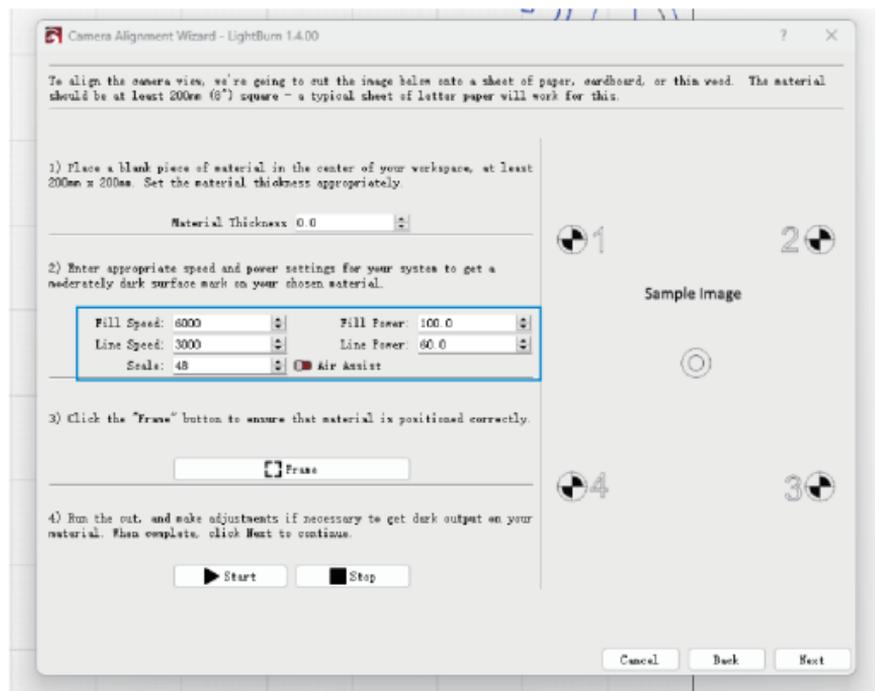


6. Enter the required parameters. The following templates are suitable for 10W laser modules: “Fill Speed” enter 6000; “Line Speed” enter 3000; “Fill Power” enter 100; “Line Power” enter 60; “Scale” enter 48.

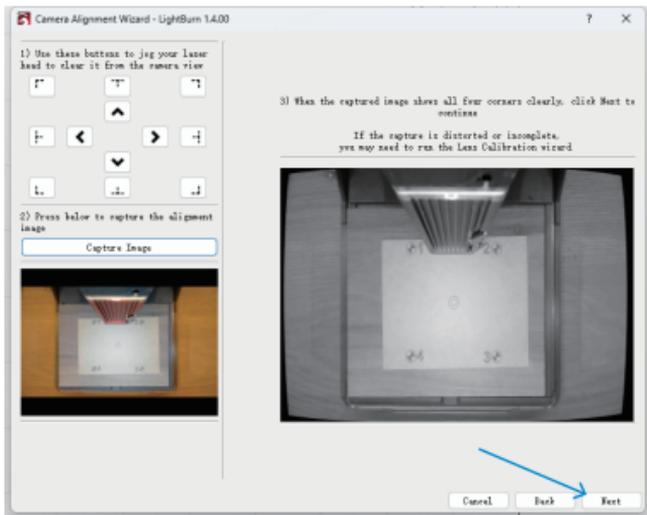
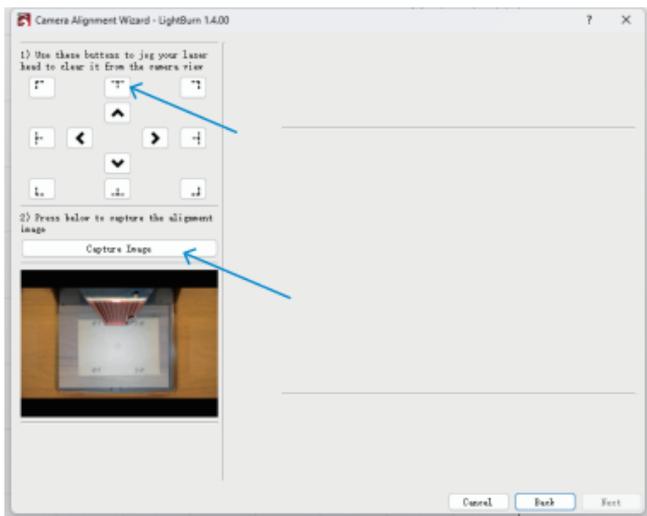
For the 5W laser module, modify “Fill Speed” to 4000.

For the 2.5W laser module, modify “Fill Speed” to 2000.

7. Click the “Frame”, make sure running area is not outside the Kraft paper.
8. Click “Start” and wait a few moments for the engraving. Then click “Next”.



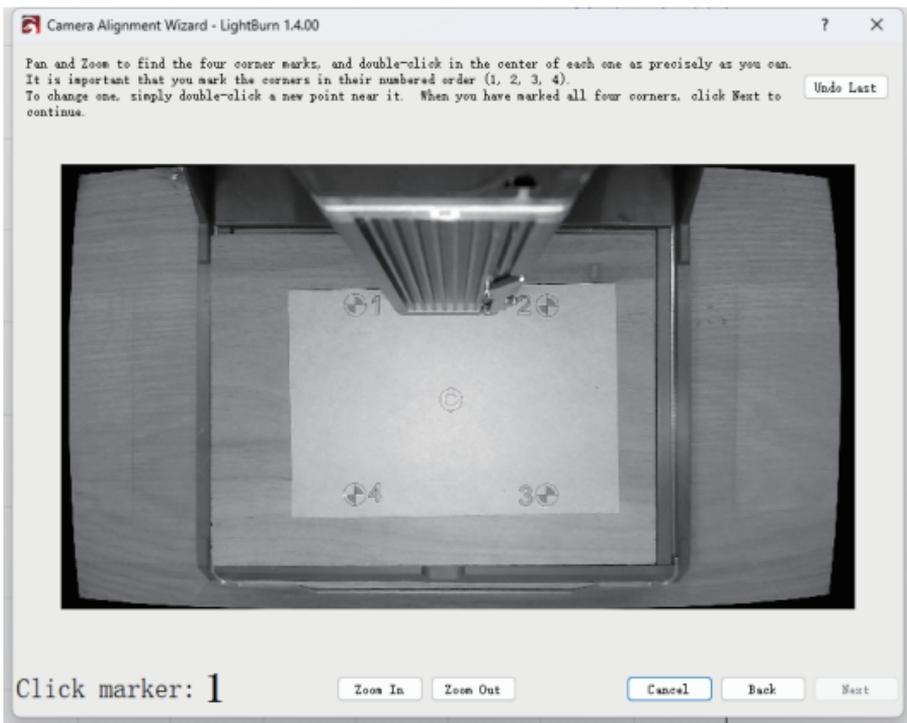
9. Click the  icon, wait for the laser module to move into position.
10. Click “Capture Image” when the image refreshes. Then click “Next”.



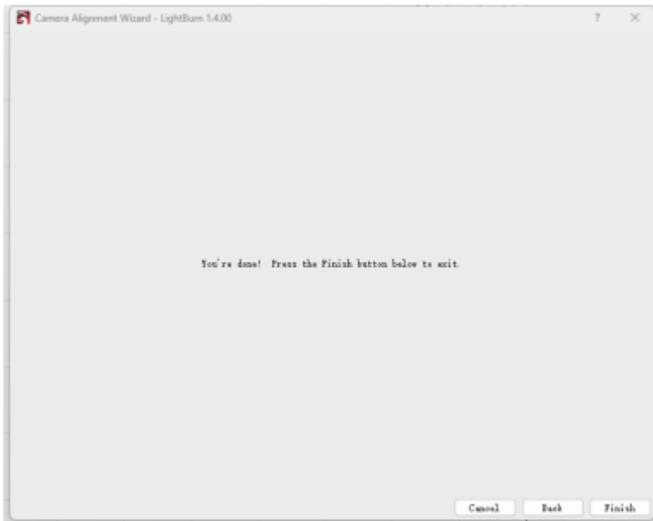
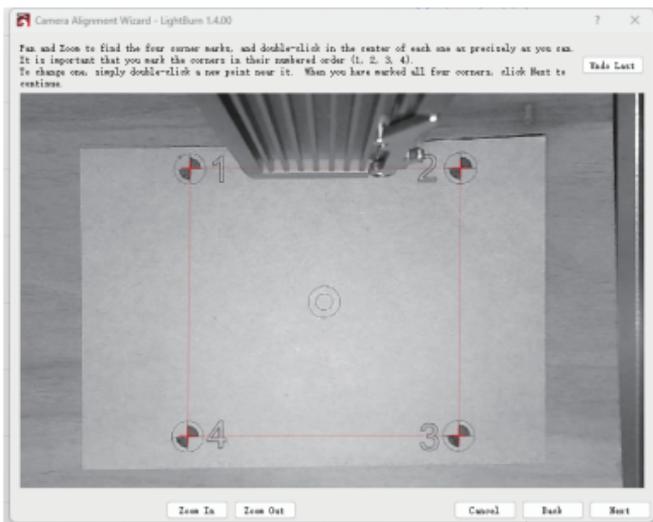
11. Select the center of the “1, 2, 3, 4” circle by clicking on it according to the instructions.

Zooming in and then selecting will be more accurate.

You can click on “Undo Last” to undo the previous mistake.

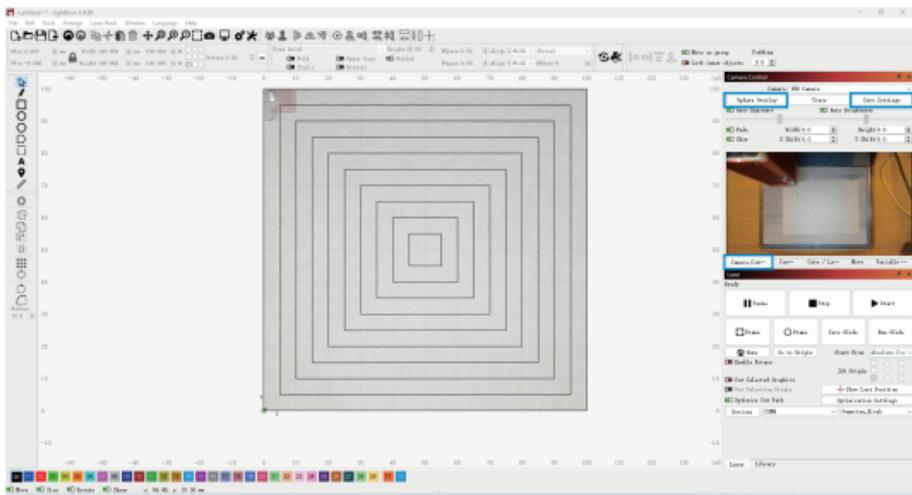


12. Click “Next” after making your selection and finish the “Calibrate Camera Alignment”.



4. Click “Update Overlay” to importing images.
5. Confirm the camera mesh overlaps with the engraving mesh. If not, you need to adjust Width, Height, X Shift, Y Shift to keep them overlapping.

After the complete adjustment, please take a screenshot of the parameter picture and save it on your computer with the file, so that it can be directly imported next time if there is any deviation.



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If you need any assistance, please contact us via:

✉ Email: support@sainsmart.com

 Facebook messenger: <https://m.me/SainSmart>

Help and support is also available from our Facebook Group



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