

GitHub Camera Calibration Software User Guide

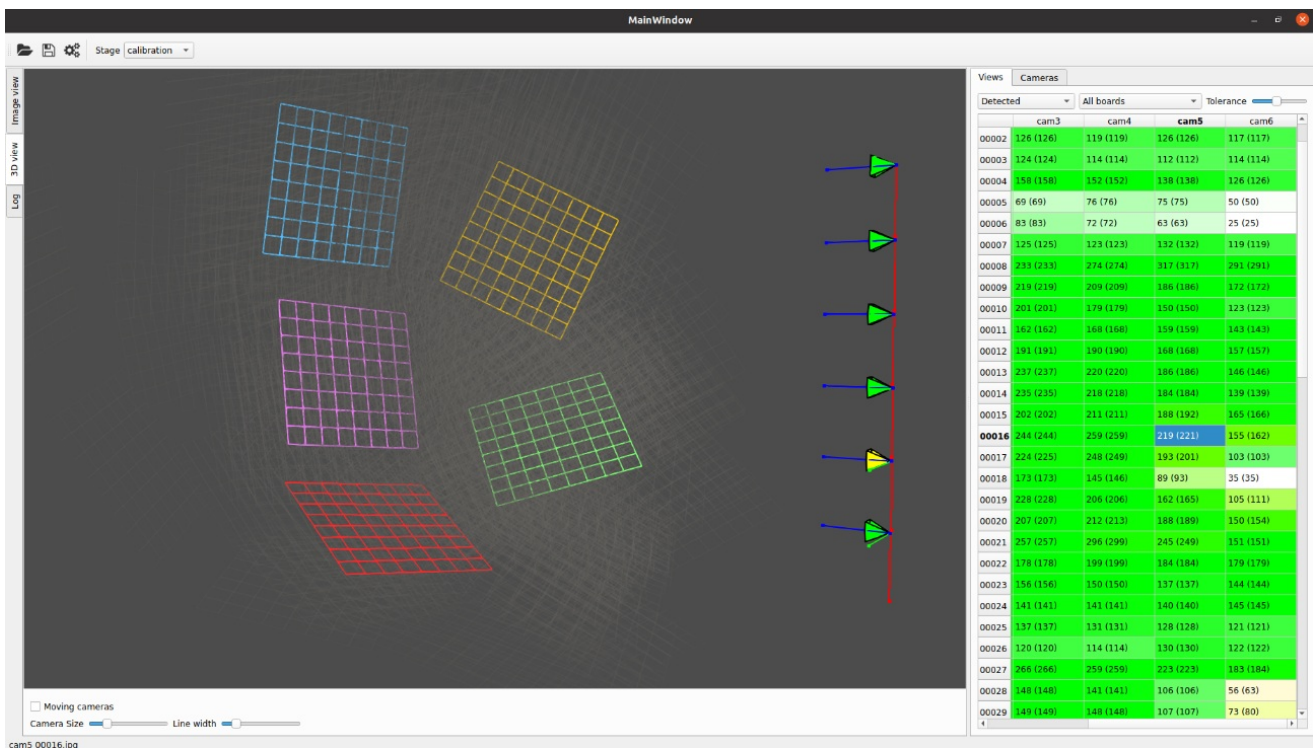
[Home](#) » [github](#) » GitHub Camera Calibration Software User Guide 

Contents

- [1 GitHub Camera Calibration Software](#)
- [2 Camera calibration](#)
- [3 Documents / Resources](#)
 - [3.1 References](#)
- [4 Related Posts](#)

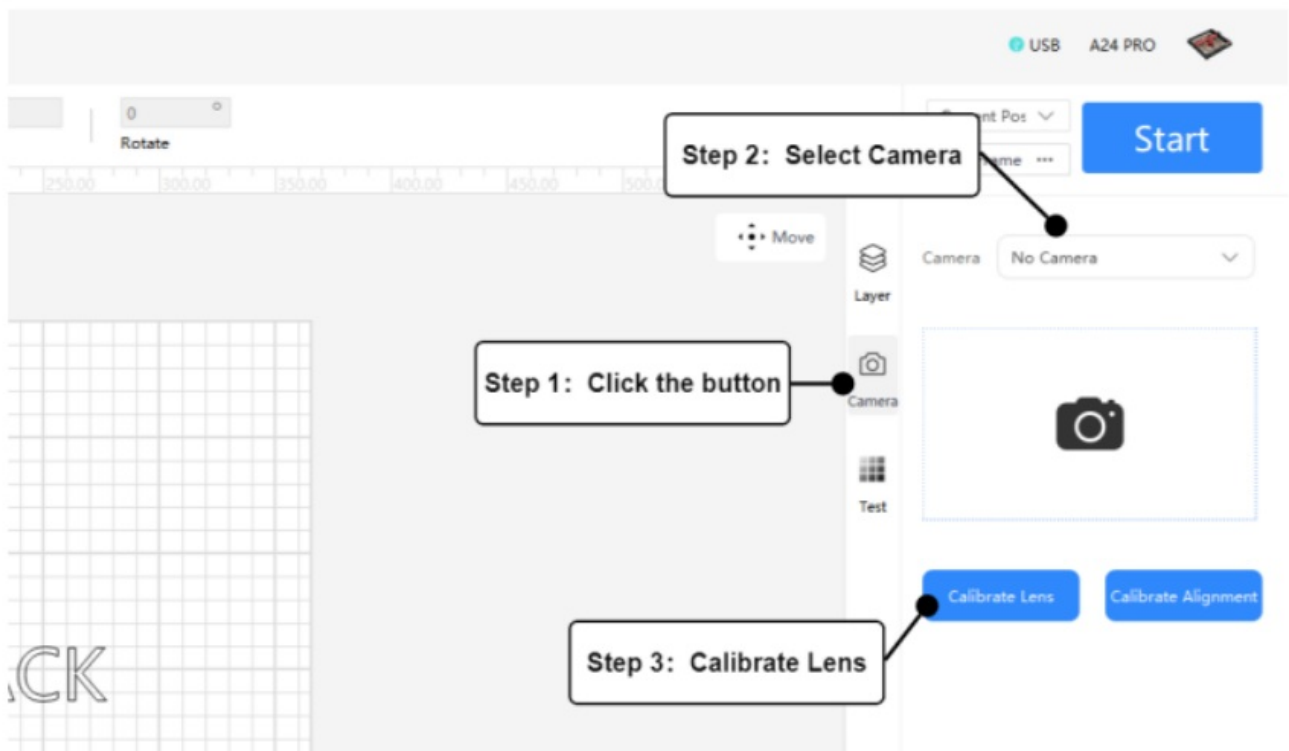


GitHub Camera Calibration Software



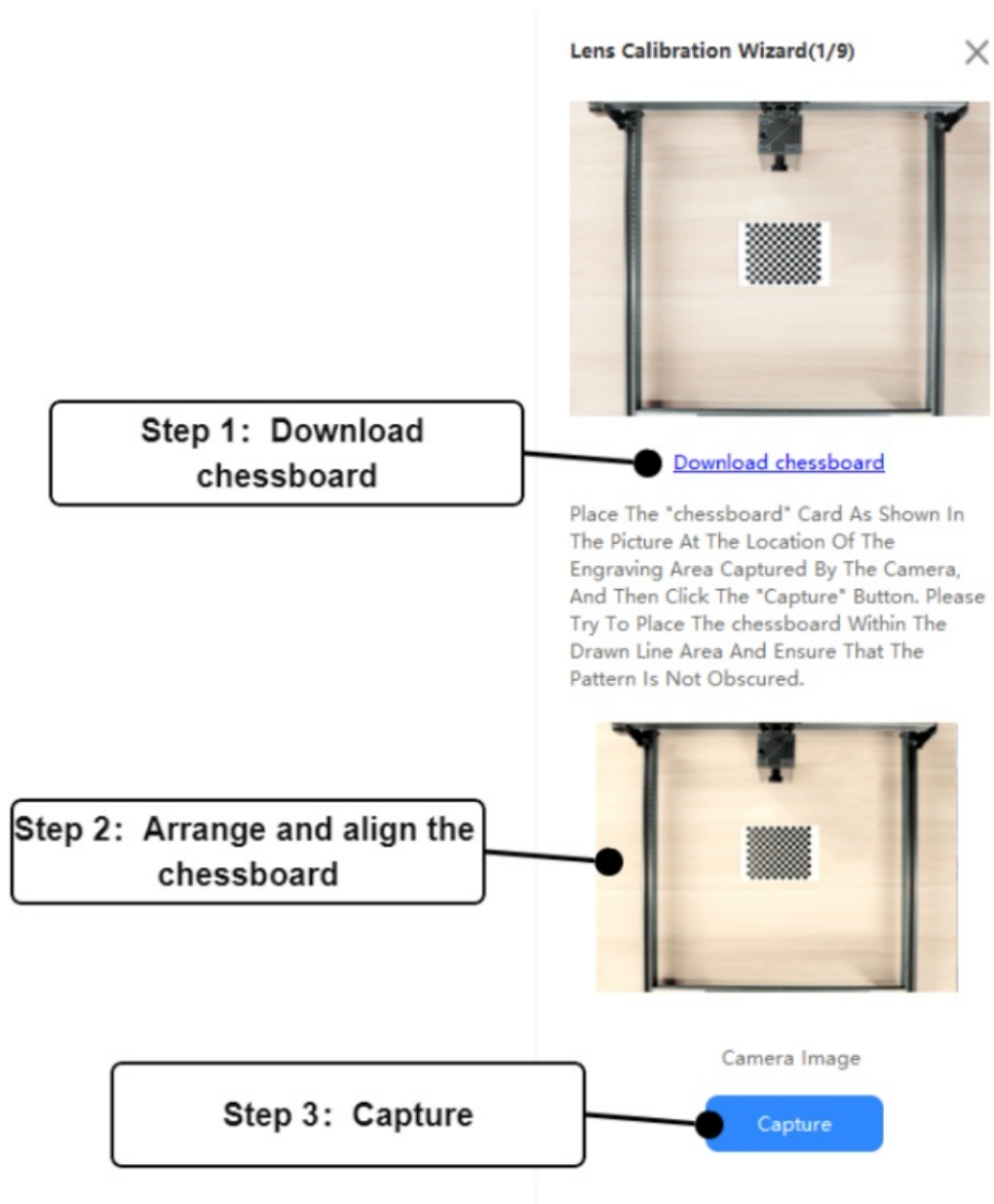
Camera calibration

1. Before using the camera to update workspace background function, you need to calibrate this camera. Please complete the engraver addition first and connect camera to computer.
2. Click 'camera' button on the right side of workspace, select the connected camera in the pop-up camera settings, and click 'calibrate Lens' to enter camera calibration.



3. Steps in calibration

1. **Step 1:** You need to download the picture "chessboard" to your computer and print the it on a paper, ensure the side length of square between 1 mm and 1.2mm
2. **Step 2:** According to the diagram at top, place the "chessboard" paper to the same position as diagram.
3. **Step 3:** Click 'capture' button below to detect the pattern when it is clearly visible.



If capture fails, please check and readjust the "chessboard" paper position to see if the pattern is clearly visible/obstructed by obstacles. Click "capture" button to try again when well checked.

Capture

Failed, Please Check And Try Again

- After first position is captured successfully, you need to calibrate the next "chessboard" position shown in diagram. Repeat the capture until all 9 position calibrations are completed, page moves to "camera Alignment".



[Download chessboard](#)

Place The "chessboard" Card As Shown In The Picture At The Location Of The Engraving Area Captured By The Camera, And Then Click The "Capture" Button. Please Try To Place The chessboard Within The Drawn Line Area And Ensure That The Pattern Is Not Obscured.



Camera Image

Capture

5. Steps in alignment

1. Step 1: You need to set the engraving area to be photographed first.
2. Step 2: Place light-colored, non-textured materials in the engraving area (it is recommended to use a paper). The size of the materials needs to be larger than the range of the engraving area you set to shoot.
3. Step 3: The laser will engrave 49 circular patterns on the material, so you need to set the laser engraving parameters.
4. Step 4: Frame to check whether the engraving area is proper, and click "Start" button to start engraving.


6.

Step 1: Set the shooting and engraving area range

1. Shooting Range

Width(mm) 350.0 Height(mm) 290.0

2. Please Place Light-Colored, Non-Textured Engraving Materials (White Paper Recommended) With A Thickness Less Than 1mm In The Shooting Area. The Size Must Be Larger Than The Shooting Area. The System Will Engrave Several Circular Patterns On The Material And Perform Lens Alignment.



Step 2: Placing materials

3. Engraving Parameters

Power(%) 80

Speed(mm/min) 2100

Step 3: Engraving Parameters

Step 4: Frame/Star engraving

Frame Start

Please do not move the material or camera in when moves to engraving page, and keep the photographing area clearly visible. Realignment is needed if you stop engraving/exit the process during engraving.

7.

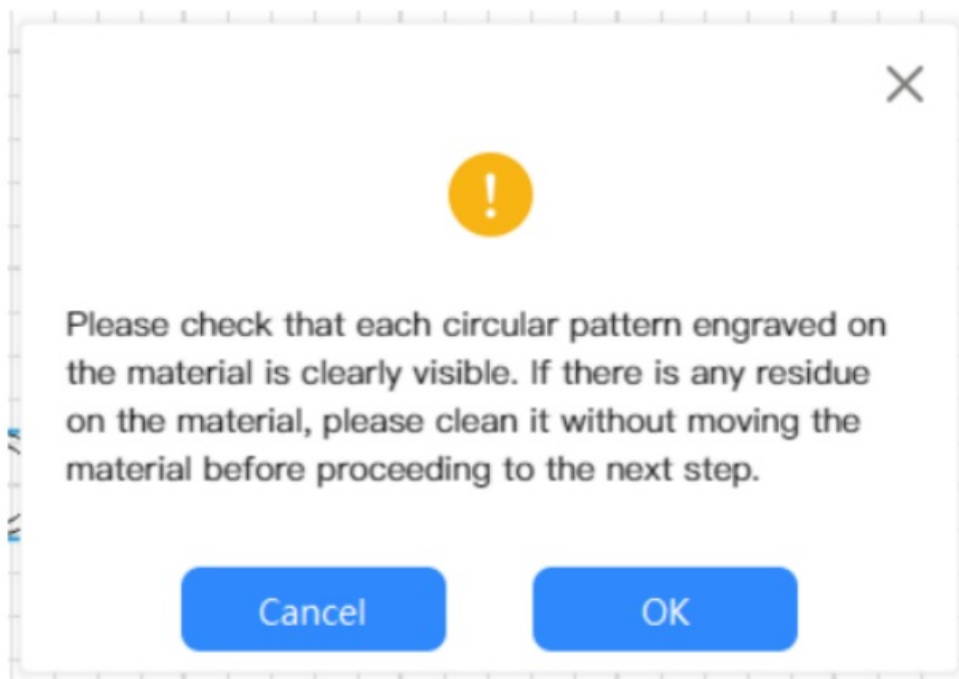


Carving

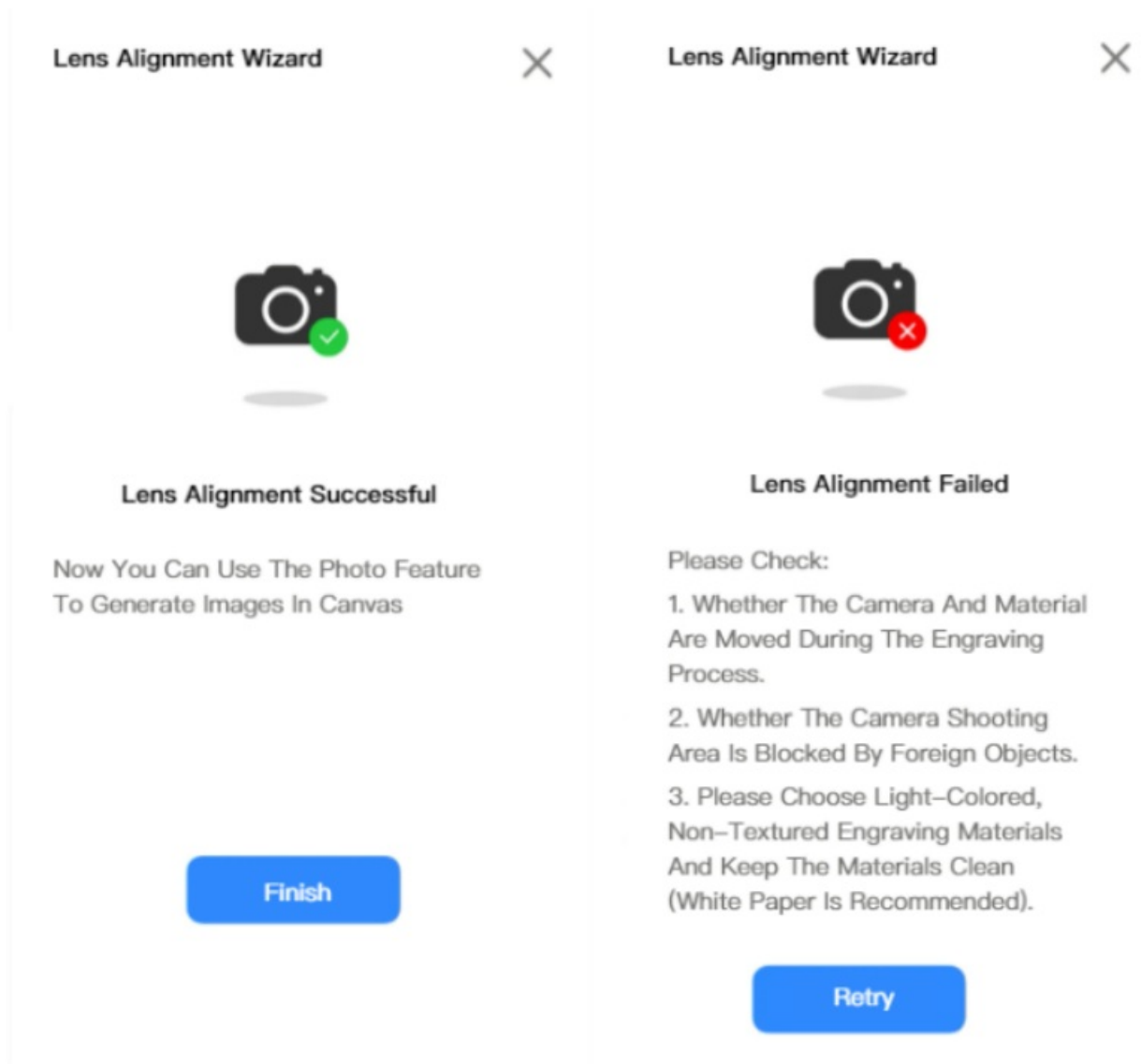
During The Engraving Process, Please
Do Not Move The Material Or Camera
And Keep The Photographed Area
Clearly Visible.



A pop-up window comes to the page after the engraving is completed. Please check that each circular pattern engraved on the material is clearly visible. If there is any residue on the material, please clean it without moving the material and click “OK”.

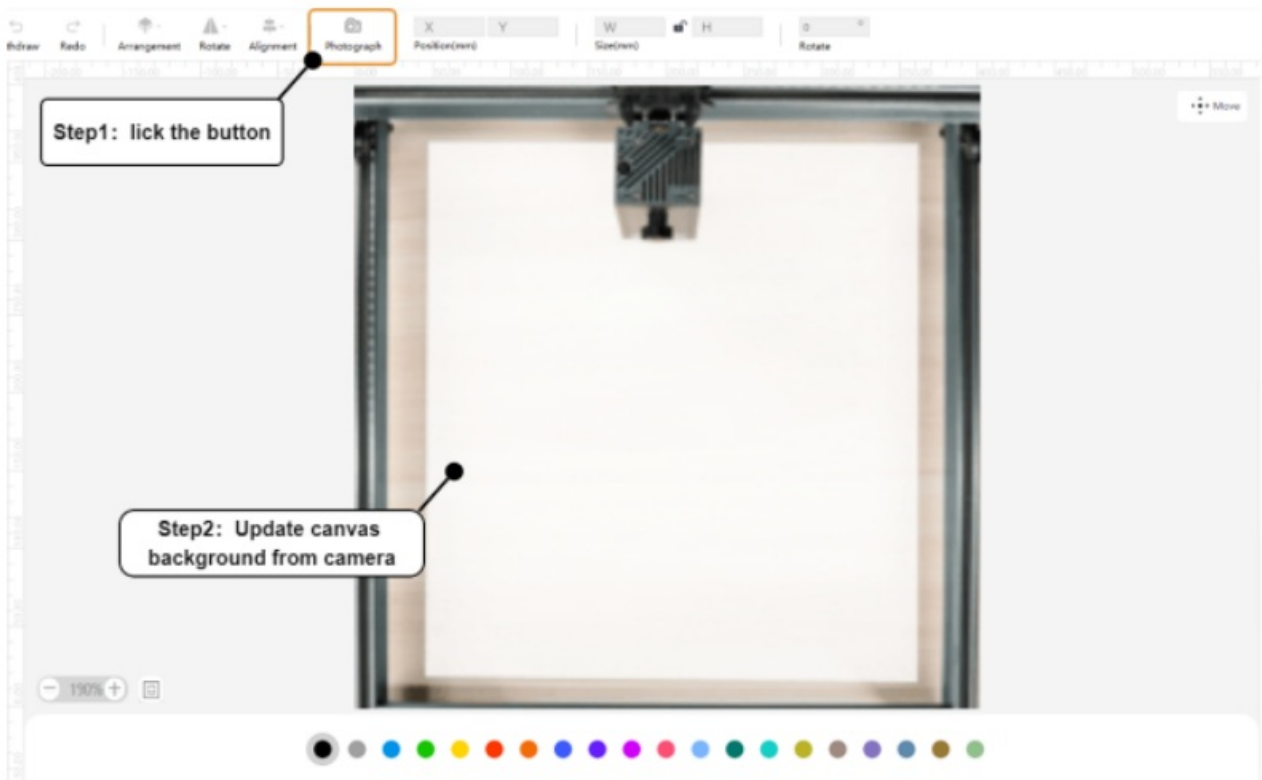


8. After alignment is successfully completed, you can refresh workspace background through “Photo·” function. If alignment fails, you need to follow the prompts to check the steps, and click “Retry·” below to realign the camera.



9. After calibration, you can click "Photograph" button at the top of workspace to take a photo with the camera to update workspace background, and use the background picture to accurately align the image. If the accuracy of background photograph is not ideal, you can recalibrate the camera by clicking

calibrate Camera Lens· on the camera homepage.



Documents / Resources

	<p>GitHub Camera Calibration Software [pdf] User Guide Camera Calibration Software, Software</p>
--	--

References

- [User Manual](#)

Manuals+. Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.