

VLS/PLS/ILS FOCUS CALIBRATION

Revision: May 2021

WHAT THIS GUIDE IS ABOUT

This guide is designed to help perform the focus calibration on the Universal Laser VLS, PLS, and ILS systems. The guide will step through the process of focus calibration for both the engraving and cutting tables.

You should perform this focus calibration as part of your regular maintenance on your laser machine to ensure you are achieving the best results possible.

If you require the procedure for the rotary attachment or if you have a different model of Universal Laser, please contact the LST Group support department at support@lstgroup.com.au

ITEMS REQUIRED

- Focus tool
- Engraving table
- Cutting table (optional)

TIME REQUIRED

Approximately 5 minutes

ENGRAVING TABLE

- 1- Power up your computer then the Universal Laser machine. Using the focus view, click in the center of the table. Ensure this location on the table is flat/damage free.
- 2- Place the flat face of the appropriate focus tool for the lens installed against the lens carriage between the two screws as shown.



- 3- Using the **UP** and **DOWN** arrow buttons, either on the machine or in the UCP, bring the z-axis table up to just touch the bottom of the focus tool. If you are not able to raise or lower the table refer to STEP 3b. Otherwise proceed to STEP 4.

3b- Home the Z-axis by clicking the **HOME Z** button in the **VIEWER** tab of the UCP. Ensure there are no offcuts or debris under the engraving table. Otherwise, table may jam. The table will now start driving down. Wait until the small pop-up has closed. Now you can proceed with STEP 3.

- 4- In the UCP, click the **SYSTEM** tab, please ensure the correct lens size is selected.



- 6- Click on the **CALIBRATE** button underneath the Lens Size heading, a window will appear.

- 7- Click **SAVE**, another will appear asking for confirmation, click **OK**.

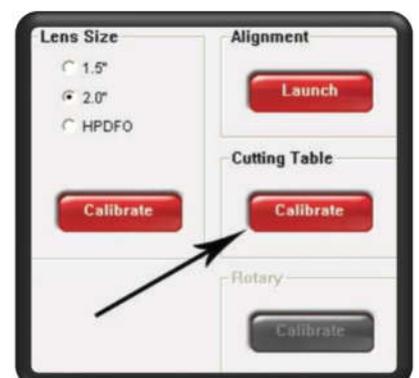
- 8- If you have other lens sizes, you will need to perform the same procedure using the appropriate focus tool and selecting the appropriate lens size.

- 9- You have now performed the focus calibration for the **ENGRAVING** table on your Universal Laser System.

If your laser machine came with a cutting table, please proceed to the next section.

CUTTING TABLE

- 1- Install the cutting table into your Universal Laser machine.
- 2- Perform Steps 1 to 4 from the engraving table guide above.
- 3- Click on the **CALIBRATE** button underneath the Cutting Table heading, as shown and a new window will appear.
- 4- Click **SAVE**, another will appear asking for confirmation, click **OK**.
- 5- If you have other lens sizes, you will need to perform the same procedure using the appropriate focus tool and selecting the appropriate lens size.
- 6- You have now performed the focus calibration for the **CUTTING** table on your Universal Laser System.



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