

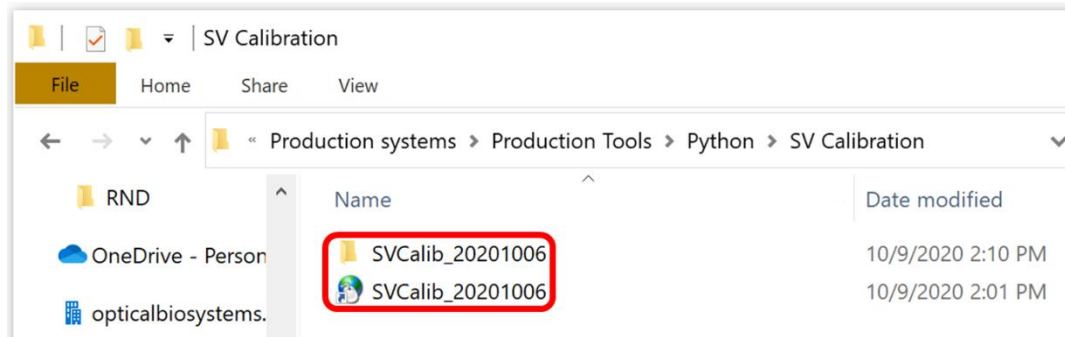
Revision History

Revision	Date	Name	Change Description
01	10/13/2020	Yang Hyo Kim	New Document

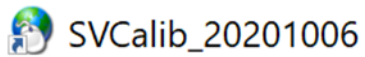
1. Purpose
 - a. Automate and speed up calibration step c.
2. Scope
 - a. Engineering/Manufacturing
3. Responsibility
 - a. Engineering and Manufacturing is responsible in keeping this document updated
 - b. Procedure must be followed by Engineering/Manufacturing
4. References
 - a. List any References

Procedure

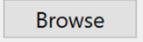
1. You should find a folder and a shortcut with a name of '**SVCalib_20201006**' in the file server (*\\MA2FILES\Production systems\Production Tools\Python\SV Calibration*). Copy and paste both items to your local computer (*C:\Program Files\StellarVision\Calibration*).

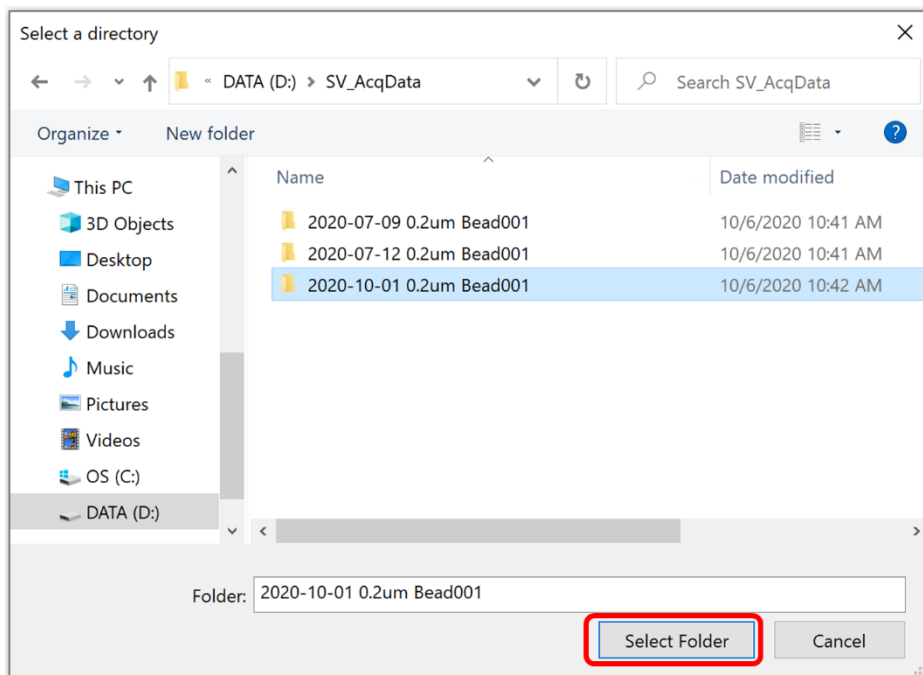
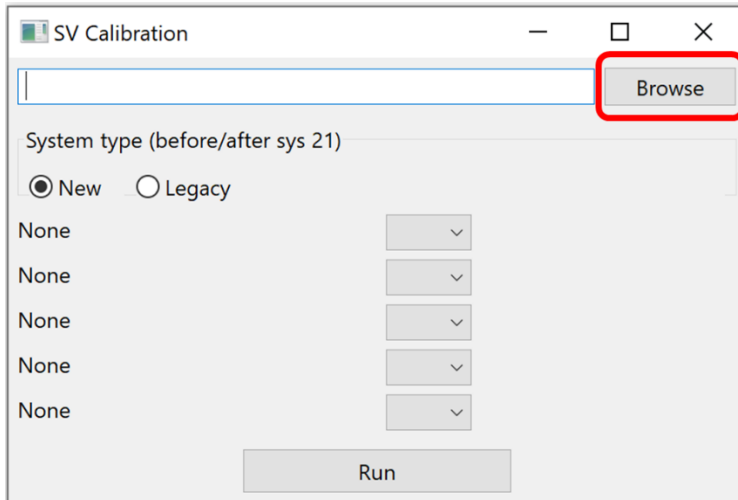


2. Run '**SVCalib_20201006**' software by double-clicking the shortcut icon.

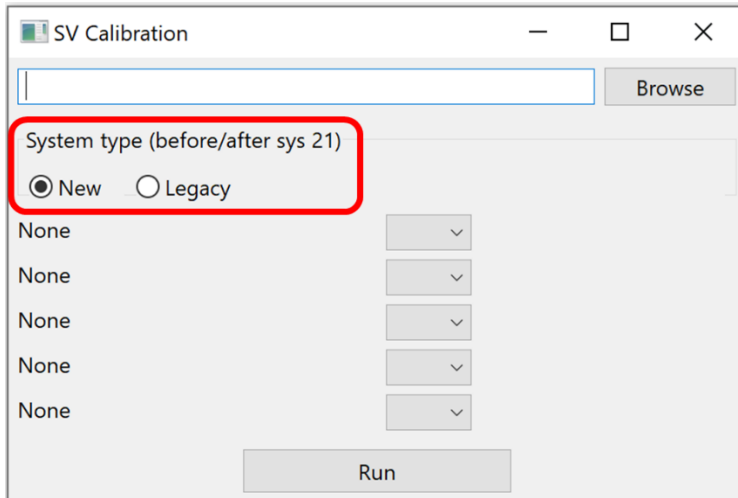


- Enter the location where the data file is located by putting the directory path in the text box.

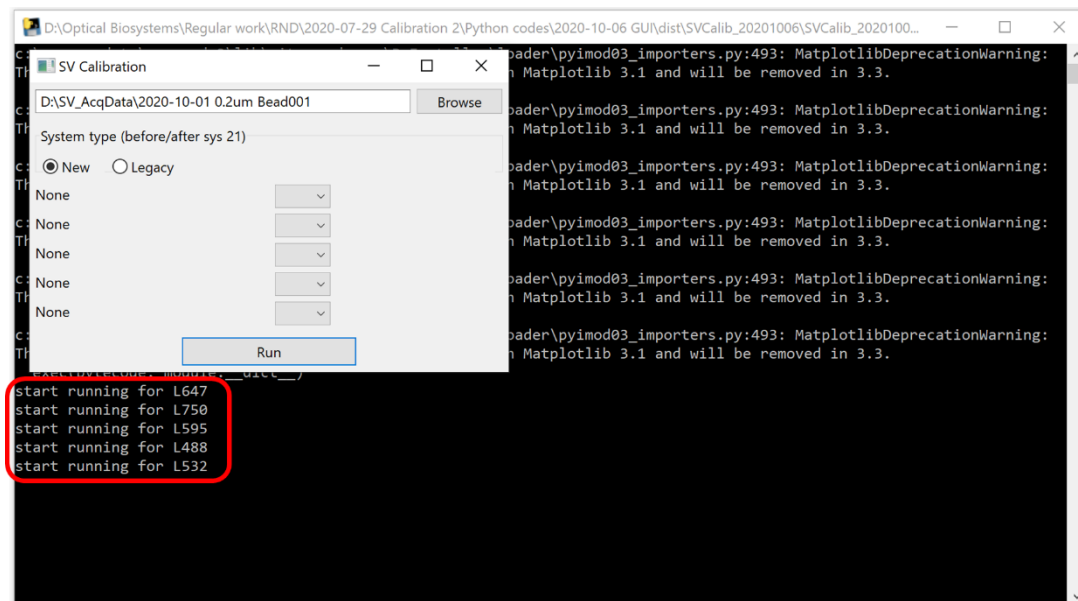
You can also click  button to open directory-choosing dialog, click the data folder (for example, *D:\SV_AcqData\2020-10-01 0.2um Bead001*), and push 'Select Folder' button.



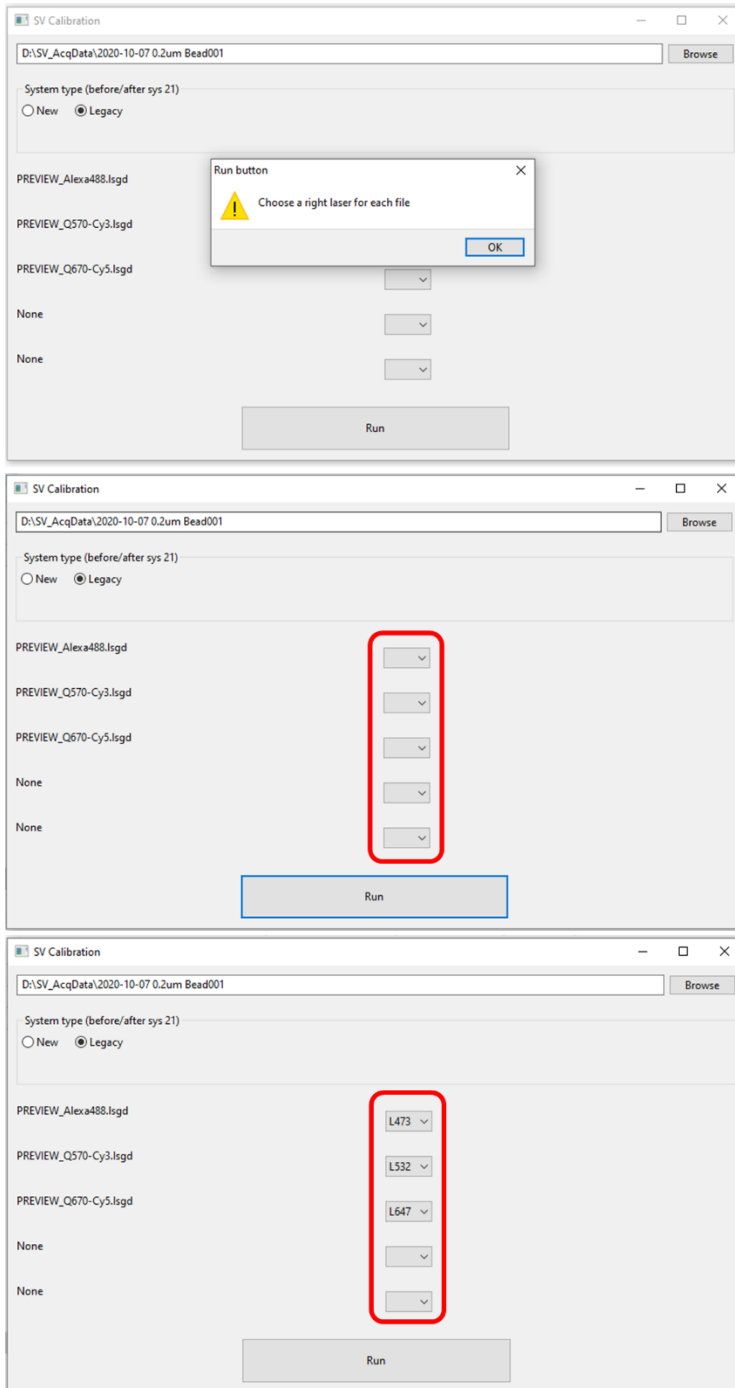
4. Select the system type between '**New**' and '**Legacy**' which describe the system serial number is before or after 21. Then click '**Run**' button.



5. For '**New**' system, you can see '**Start running**' messages in the console window (black background). Missing laser means there is no acquired data. Ignore '**MatplotlibDeprecationWarning**' messages in the console window.



6. **For 'Legacy' system**, you can see a warning message pops up to choose a right laser for each file. Some old systems save the raw files with dye names instead of laser names. Select a right laser names for each files and click 'Run' button.



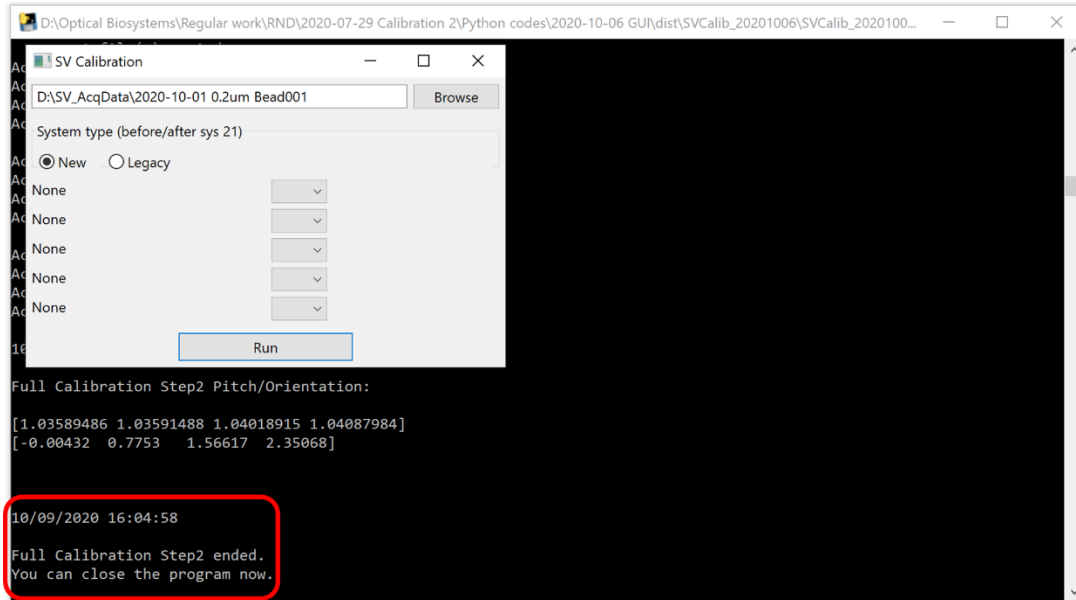
The figure consists of three screenshots of the 'SV Calibration' software window, illustrating the steps to select laser names for legacy files.

Top Screenshot: The 'System type' is set to 'Legacy'. A warning dialog box titled 'Run button' is displayed, stating 'Choose a right laser for each file'. The file list includes 'PREVIEW_Alexa488.lsgd', 'PREVIEW_Q570-Cy3.lsgd', and 'PREVIEW_Q670-Cy5.lsgd'. The 'Run' button is visible at the bottom.

Middle Screenshot: The warning dialog box is closed. A red rectangle highlights the dropdown menus for the three files, indicating where to select the laser names.

Bottom Screenshot: The dropdown menus are now populated with specific laser names: 'L473' for 'PREVIEW_Alexa488.lsgd', 'L532' for 'PREVIEW_Q570-Cy3.lsgd', and 'L647' for 'PREVIEW_Q670-Cy5.lsgd'. The 'Run' button is highlighted with a blue border.

7. It usually takes less than an hour for the software to finish the job. The console windows shows a message **'You can close the program now.'** and close both windows.



8. You can find a new folder **'FullCalibStep2'** under the data folder (for example, *D:\SV_AcqData\2020-10-01 0.2um Bead001\FullCalibStep2*) and **cfg** files inside it. Copy and paste **cfg** files into the **SysCFG** folder (*C:\Program Files\StellarVision\SysCFG*) and a window pops up. Click 'Replace the files in the destination'.

