

Transcript: Soft shutdown and switch on procedure for the 3i LatticeLightSheet

Note, closed captions are available on the video.
11th March 2021

This video describes the soft switch on and shut down procedure for the 3i Lattice LightSheet.

This video is relevant for switching on and off during a week of several bookings. If you are using the system after the weekend or last before the weekend, break or holiday please refer to the hard shutdown procedure.

A soft shutdown just makes safe the lasers and does not turn off any of the hardware. Performing this during periods of frequent use helps to keep the box warm and the temperature stable.

Toggle the keys of the 560 and 640 laser boxes if you will be using them.

Toggle the shutter key on the top box under the keyboard.

Open the laser control software which looks like a green arrow in the bottom tool bar on the computer. Select the top icon which looks like a serial port. Select 5 in the COM drop down menu for 560 or 6 for 640. Click the on button. A white LED will light on the box under the keyboard to show it is lasing.

To repeat for the other laser, right click on the software icon to open another instance of the GUI. The writing on the bottom of the GUI shows which window is controlling which laser.

Open SlideBook. Various pieces of hardware will initialise.

When initialisation has finished, wait for the blank Slide to open. Then click LightSheet > lattice LightSheet to open the user interface.

You can now continue with alignment and imaging.

After you have finished your session you will need to turn the lasers off and shut down the instrument. If someone is going to use it soon please complete a soft shutdown following the rest of this video.

To shut the instrument down before a weekend, break or holiday please follow the instructions in the hard shutdown video.

After washing down well, making sure the objectives are clean and dry, leave the bath in the escape position and the door to the scope closed.

Close SlideBook. Click off in each of the laser control interfaces and close them. Toggle the laser shutter key on the top box underneath the keyboard and the 560 and 640 boxes if used.

Fill the water bottle and dispose of any samples and the waste beaker before leaving.

I hope that this video has been useful. Please email camdu@warwick.ac.uk with any questions or comments.

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