

# LLSM Running Checklist

Making sure the SlideBook interface is set up for your imaging

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1st December 2020 / CAMDU @ WMS / Helena Coker

# The SlideBook interface

The screenshot shows the Lattice LightSheet software interface with several key areas highlighted by numbered callouts:

- 1.** Camera: C2
- 2.** Camera exposure (ms): 20
- 3.** X Galvo range (um): 0.0
- 4.** Camera speed: 2 100 FPS
- 5.** Laser Channels: Laser 2 (checked)
- 6.** Laser 2 settings: 488 MB, 405 SB
- 7.** Z Offset: 0.0
- 8.** 3D continuous: checked
- 9.** MIP XYZ: checked
- 10.** XY Stage Jog: X: 9.000 mm, Y: 9.000 mm
- 11.** Wait for PZ: unchecked
- 12.** ROI: 3 x 3
- 13.** Timelapse: 50
- 14.** Result: 14.

1. Check that the **annular mask** is right for your experiment. If it isn't, do not image and find Helena.
2. If using **preset mode** make sure exposure time, ROI and laser are correct
3. X Galvo range (**dither**) should be **set to 2**
4. If not using presets ensure **exposure time** is correct here...
5. and the correct **laser** and **pattern** is selected here
6. Select **laser power**
7. Check **offset** (done during alignment)
8. Tick **3D continuous** if wanting to record volumes, check step size
9. **MIP and Deskew** should be ticked to help place the cell in the volume, and capture mode is 'sample scan'
10. Tick jog if you don't want to keep pressing the arrows to navigate.
11. Have **wait for PZ** ticked
12. If not using presets select **ROI** here
13. Tick **timelapse** and input number of timepoints. 0 interval runs as fast as it can based on the time per volume, otherwise select an **interval**.
14. Hit **Program SLM** after making changes, stop/live button will go from red to green

Ask about autofocus and simultaneous 2-colour if needed.

**Any questions? Find me in *L1.36* or  
*drop me a line at*  
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