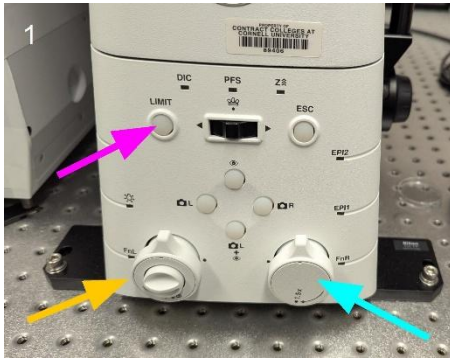


Troubleshooting guide for the CSU-W1 microscope

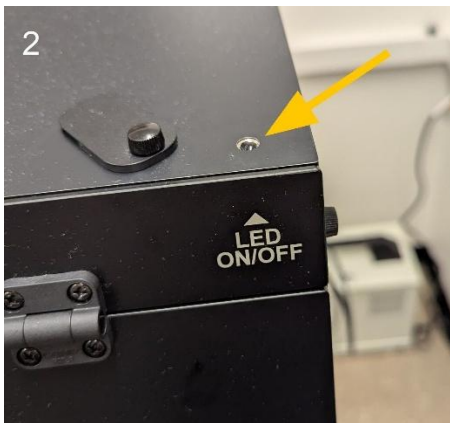


Front panel diagram (fig. 1).

Magenta: Button for setting and removing software focus limits.

Orange: The Bertrand lens enables you to view the back focal plane of the objective lens. If in, you will see a circle rather than an image. Keep this knob upright for normal imaging.

Cyan: This optivar gives extra magnification if needed. Vertical is 1X. Horizontal is 1.5X. The software knows what setting you have chosen such that the image scaling is always correct.



Chamber Light: Turn it on and off here (arrow).

Turn-on.

Microscope does not turn on correctly.

The interval between turn-on steps from 4 to 5 (microscope power supply to microscope) cannot exceed ~10-20 sec or there will be a communication timeout. This is usually the problem with the microscope not turning on correctly. (In this case, the touchscreen is not illuminated).

Stage.

Environmental chamber cover

Lift by pulling on electrical connector. It is held only by gravity. When not using the environmental chamber, please set the cover aside on the shelf to the right. If you put it to the left of the stage, it can cause the stage to get stuck and unable to move in X.

Stage stuck – unable to move in X

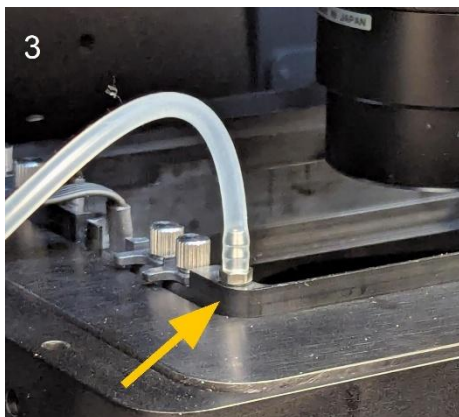
This is usually due to the environmental stage cover being set on the chamber floor to the left of the stage. It can get wedged between the chamber wall and the stage, causing the stage to be unable to move in X. See above.

Focus.

Objective doesn't seem to be focusing right.

Make sure you have the right immersion fluid. Make sure that PFS is off.

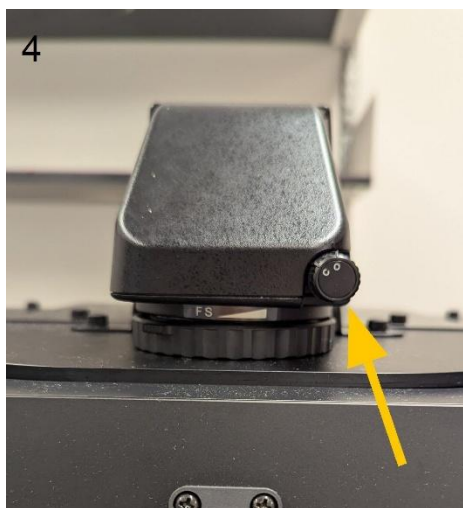
Objective is not focusing up high enough.



Clear all the software Z-stops by pressing and holding limit switch on microscope front (fig. 1, magenta) *. Make sure that microscope stage inserts are not doubled up. See edge of standard insert (arrow, fig 3). It should be no higher than this.

**Note: Sometimes the software focus limits do not seem to clear (button totally off with no green light). If you are unable to get it in this state, try pressing the ESC button first or taking the PFS dichroic out of the system.*

Imaging.



Cannot see any transmitted light.

Make sure condenser switch is in the open (o) position.