

ZEISS LSM 880 UPRIGHT (u880) QUICK START GUIDE

The Zeiss LSM880 is a laser scanning confocal microscope with full confocal and multiphoton capability. The confocal detectors are spectrally resolved and can be used with either the standard (single photon) excitation lines or the multiphoton excitation lines. The non-descanned (NDD) detectors can only be used with multiphoton excitation.

INSTRUMENT OVERVIEW
AND USER RESOURCES



TURN ON SEQUENCE

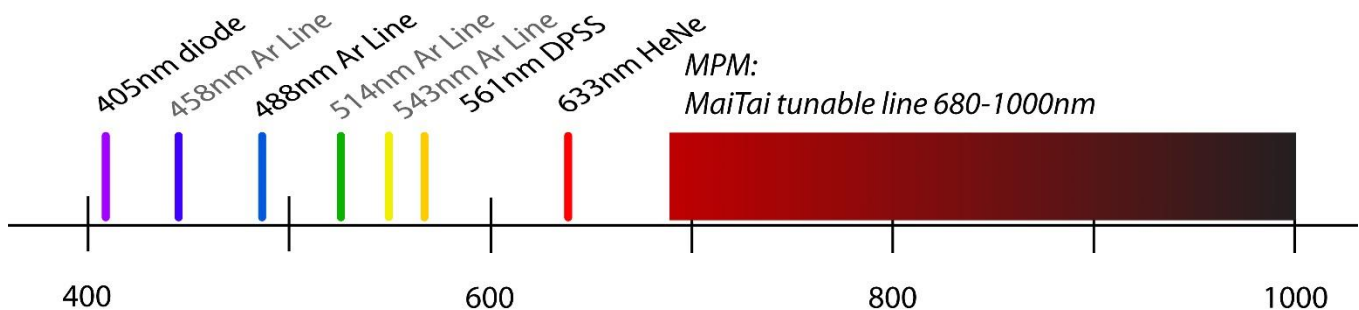
- 1) If the computer is off, turn it on and let it boot.
- 2) Turn on the main switch.
- 3) Turn on the Systems/PC switch. Wait until touchscreen boots.
- 4) Turn on the Components switch.
- 5) Log in to the computer.
- 6) Check manual slider, empty for standard confocal detection.
- 7) Start Zen and select *Start System* Button.
- 8) Turn on lasers you will be using. *(Note that the Ar and multiphoton lines take a while to turn on. You can follow the warm-up progress by selecting the laser you are using and the Laser Properties below)*

TURN OFF SEQUENCE

- 10) Save your data and transfer it to the fileshare.
- 9) Remove your sample and clean off your objective.
- 8) Replace manual slider to empty if you used the NDD detectors.
- 7) Turn off lasers.
- 6) Exit Zen.
- 5) Log out of the computer.
- 4) Turn off the Components switch.
- 3) Turn off the Systems/PC switch.
- 2) Wait a few minutes for the Ar laser to cool. Turn off the main switch.
- 1) Do not turn off computer.



LASER LINES



STANDARD OBJECTIVE SPECIFICATIONS

Mag	NA	Immersion medium	CS thickness (mm)	WD (mm)	Objective Type	Trans > 0.5
5X	0.25	Air	0.17	12.5	Fluar	330-1300nm
10X	0.45	Water	0.17	1.8	C-Apochromat	330-1300nm
20X	1.0	Water	0.17	2.3	W Plan-Apochromat	440-1300nm
20X	1.0	1.32-1.40 Corr	0	2.4	W Plan-Apochromat	350-1200nm
40X	1.2	Water	0.14-0.19 corr	0.28 at CS 0.17	C-Apochromat	360-1250nm

NDD DETECTOR FILTERS

***Do not use standard 405,458, 488, 514, 543,561 or 633 nm lines with the NDD detectors!**

