

Startup Procedure for the Zeiss LSM 980 Airyscan Confocal

1. Sign in on the user login sheet and write down the current clock time under 'Start Time'.
2. Turn on the HXP lamp (labeled #1).
3. Turn on the Main Switch (labeled #2).
4. Turn on the Components switch (labeled #3).
5. Turn on the computer (labeled #4).
6. If using CO₂/heat incubation, turn on #5 (CO₂), #6 (heating unit), and open CO₂ tank.
7. Use the microscope keypad to move the objective lens to the 10x lens position.
8. Login to your account. Double-click on the Zen software icon to start the software.
9. The software will prompt you to calibration the stage. Click OK if you need to mark positions or do tile scanning. ****Make sure the objective lens turret is the 10x position****

Shutdown Procedure for the Zeiss LSM 980 Airyscan Confocal

Check Google Calendar to see if someone is signed up to use the microscope after you.

If someone is booked within one hour after you are finished with the microscope...

1. Save your images.
2. Clean oil objective lenses with Sparkle and lens paper.
3. Move the objective lens turret to the 10x position.
4. Exit the software and log out of your Windows account.
5. Fill out the logbook. Record the current time in the 'End Time' space of the login sheet.

If someone is booked >1 hr after you are finished with the microscope...

1. Save your images.
2. Clean oil objective lenses with Sparkle and lens paper.
3. Move the objective lens turret to the 10x position
4. Turn the system off in the reverse order: #6 and #5 (if using), #4 (computer), #3, #2, #1.
5. Close all windows on the microscope enclosure to keep the dust out.

*Note: Never look into the laser beam coming through the objective lens, as you may damage your eyes or risk going blind. Never look at UV light coming through the objective lens; it may damage your eyes.

****Note: the NIH requires that all publications containing data collected on the Zeiss LSM 980 Airyscan, including press releases, acknowledge NIH grant support with a disclaimer such as the following: "Purchase of the Zeiss LSM 980 Airyscan 2 was supported by Award Number 1S10OD25223-01A1 from the National Institute of Health."**