

How to turn on/off Zeiss 710 MP in Microscopy Core

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Warning: *Do not unplug USB keys, external HDs, etc. when Zen software is running!!*

How To Turn On System

1. Sign in Log Book!
2. Main switch **A**. (*Do Not* touch the safety lock key.)
3. System/PC switch **B**.
4. Components switch **C**.
5. *Optional:* Turn on environmental chamber and insert. On Zeiss touchscreen panel:
 - * Settings > Incubation
 - * H Dev
 - * optional H Insert P
 - * All doors/panels closed on incubator box. Have all stage inserts, oil, etc in incubator to be at proper temperature.*To minimize focus drift, this chamber should be on for two hours before you start imaging.*
6. *Optional:* If you need laser light at 458, 488, or 514 nm:
 - * Make sure the little metal switch on the laser control box is down.
 - * Turn the power knob all the way counter clockwise (to approx 7:00).
 - * The black switch on the power supply needs to be on.
 - * If the Safety Interlock LED is on, turn the key clockwise. Wait five to ten minutes.While waiting, continue the startup sequence.
7. Power button on front of computer (under table).
8. Log in as LSM 710 User.
9. Run Zen software (icon should be at center of screen).
10. Click "Start System."
11. *Optional:* If you are using the Multi Photon, turn on the MaiTai laser in the laser panel of the Zen software. This laser takes approximately 10 minutes to turn on. The window will not say "On" until the laser is ready.

Shutdown

1. Check the schedule. If somebody will use it within two hours, leave system on.
2. Save all your data. Copy off system to server, USB key, or external drive.
3. If Ar laser is on,
 - * Make sure the little metal switch on the laser control box is down.
 - * Turn the power knob all the way counter clockwise (to approx 7:00).
 - * Turn key on power supply counterclockwise to off.
 - * *Leave the black power switch ON!*

4. If MaiTai laser is on *AND* the next user is not using it, set it to "off" in the Zen software laser window.
5. If environmental chamber on, turn off.
6. Quit software.
7. Shut down computer.
8. Only after computer is shut down, Switches C, B, and A.
9. Clean up.
10. Sign out logbook.

Troubleshooting the MaiTai laser for Multi Photon

If you do not have laser light, check the front panel of the laser power supply on the floor. If it says between 10W and 12W, then the laser is ok.

In the Zeiss software, set the laser to 750 nm so you can see it by eye.

Check the laser with white paper by putting it in the light path where it comes out of the box. If there is no light, quit and restart Zen software.

Laser is on COM4.

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For staff only:

Imaging Hotline: 1-800-509-3905

Zeiss Service: 1-800-633-6610, Opt1, Opt1

Ali cell: 718-908-5237

If you call service, you must tell Michael Cammer.

Instrument # 2502000128 ID# M209776

(Other numbers are on the MLD internal lab website at <http://cammer.net/mld/instructions/710/>.)