

Zeiss 710 Confocal Condensed User Guide

Turn On Sequence

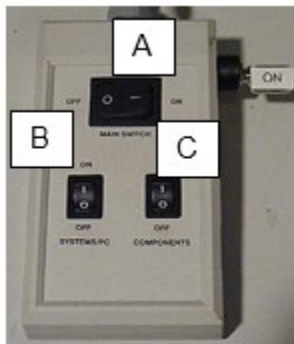
1. Turn on Computer and wait till Windows boots
2. Turn on Main Switch (A)
3. Wait 5 seconds
4. Turn on Systems/PC (B)
5. Turn on Components (C)
6. Turn Argon key to right (D-laser ON)
7. Flip laser switch UP to Run mode (E)
8. Logon to computer using net ID & password
9. Open Zen software and start system



Focus knob on the right side of microscope. Arrows above buttons show quick one-push movement of objective

Ending Session

1. Lower objective by pushing down first button on focus knob (F)
2. Wipe oil or water off objective
3. Flip laser switch Down to Idle mode (E)
4. Transfer images to Fileshare
5. Logoff Windows



Zeiss confocal power switches Main (A), Systems/PC (B), and Components (C)



Argon laser flip switch: up to activate, down to put on standby

Shut down

1. Do 1-4 in ending session.
2. Shut down computer.
3. Turn Argon key (D) to off.
4. Turn off Components (C) and System/PC (B).
5. Wait ~3 minutes, then turn off Main switch (A).
6. Cover scope.



Argon laser power supply

Objective Specifications

Mag	NA	Immersion medium	CS thickness (mm)	WD (mm)	Objective Type	Ring Color
5x	0.25	Air/Dry	0.17	12.5	Fluar	Red
10x	0.3	Air/Dry	0.17	5.2	EC-Plan Neofluar	Yellow
10x	0.45	Water	0.17	1.8	C-Apochromat	Yellow
25x	0.8	Oil/Water*	0 - 0.17	0.55	LCI Plan-Apochromat	Red/Green
40x	1.2	Water	0.14 - 0.19**	0.28	C-Apochromat	Blue
63x	1.4	Oil	0.17	0.19	Plan-Apochromat	Black

WD = working distance: how far the objective can focus past the coverslip

*25x: Set to Red mark for oil, Blue mark for water

**for coverslip (CS) thickness #1, set collar to 0.14; for #1.5 coverslip, set collar to 0.17

Recommended Minimum Pixel Size

Magnification	Minimum Pixel Size
5x	0.50 um
10x	0.30 um
25x	0.10 um
40x	0.08 um
63x	0.07 um

Filters in Microscope (Axio Observer.Z1)

Position	Set No.	Excitation	Beam Splitter	Emission
1		Empty		
2	02	G365	FT 395	LP420
3	09	BP 470/40	FT 510	LP 515
4	15	BP 546/12	FT 580	LP 590
5	POL	Polarizer for DIC		
6		Mirror for LSM		

Additional Notes: Upper Polarizer - Keep Left if not using DIC. For DIC: move to Right for confocal, Left for eyepieces.