

# ZEISS ELYRA SUPER RESOLUTION MICROSCOPE QUICK START GUIDE

The Zeiss Elyra is a microscope that supports SR-SIM, TIRF and PALM/STORM localization technologies. **This system will not accept round dishes > 35 mm in diameter.**

## INSTRUMENT OVERVIEW AND USER RESOURCES



### TURN ON SEQUENCE

- 1) If the computer is off, turn it on and let it boot.
- 2) (If you want to use standard fluorescence for focusing, turn on the X-cite Illuminator.)
- 3) Turn on the System outlet switch.
- 4) Turn on the Components outlet switch.
- 5) Log in to the computer.
- 6) Log in to Zen
- 7) Use 63X for SIM experiments and 100X for STORM/PALM or TIRF experiments.
- 8) Find your focus using the Locate tab.
- 9) To acquire images, go to the Acquisition tab. Load your experiment type under the Experiment Manager and work from there.

### TURN OFF SEQUENCE

- 1) Save your data and transfer it to the fileshare.
- 2) Remove your sample and clean off your objective.
- 3) Exit Zen.
- 4) Log out of the computer.
- 5) Turn off the Components outlet switch.
- 6) Turn off the System outlet switch.
- 7) Turn off the X-cite illuminator (if you used it).
- 8) Do not turn off computer.

## STANDARD OBJECTIVE SPECIFICATIONS

Mag	NA	Immersion medium	CS thickness (mm)	WD (mm)	Objective Type	Trans > 0.5
10X	0.3	Air	0.17	5.2	EC Plan Neofluar	350-1300nm
20X	0.8	Air	0.17	0.55	Plan-Apochromat	370-1050nm
63X	1.4	Oil	0.17	0.19	Plan-Apochromat	400-950nm
100X	1.46	Oil	0.17	0.11	alpha Plan-Apochromat	380-980nm

## **Notes:**

### **Zen not starting?**

#### **Try renaming this folder:**

c:\Users\*YourNetID*\Appdata\roaming\carl zeiss\AimApplication

### **Data reconstruction**

Process first, then do channel alignment.