

Laser Turn ON Procedure

1. Ensure light path is covered and objective is in place
2. Wear protective eye-wear
3. Turn RACK ON
4. Turn Pockel Cell ON -- do NOT change Pockel setting
5. Make sure light path is correct (turret in position 1, stick out, emission cube is in correct orientation and placed securely)
6. Turn Computer ON
7. Start PrairieView Software
8. Go to Laser Panel and Press Laser ON
9. Turn PMT ON (if GaAsP, turn ON FAN, then Peltier, wait for fast-flash, then turn PMT ON)
10. Set PMT gain and check PMT offset levels (PMT1/2=800, PMT3/4=500)
11. Check sample visually (focus plane for imaging is about 100 μ m below visual focus)
12. Make sure fluorescence lamp is OFF
13. Press OPEN SHUTTER **after everything is in place and the curtain is drawn**
14. **CLOSE LASER SHUTTER for any adjustment to the sample**

After Scanning is done (reverse procedure)

1. In Prairie View software, **CLOSE LASER SHUTTER**
2. **Move laser to 900nm**
3. **Turn Laser OFF**
4. Turn OFF PMT (if GaAsP, turn OFF PMT, then turn OFF Peltier, then turn OFF Fan)
5. Turn OFF fluorescence lamp
6. Turn OFF Pockel cell
7. Turn OFF Computer
8. Turn OFF RACK
9. Remove sample
10. **CLEAN using lens cleaner for objective lens (NOT ALCOHOL)**
11. **CLEAN table with Alcohol BUT WITHOUT spraying, place alcohol on wipe then wipe surfaces**