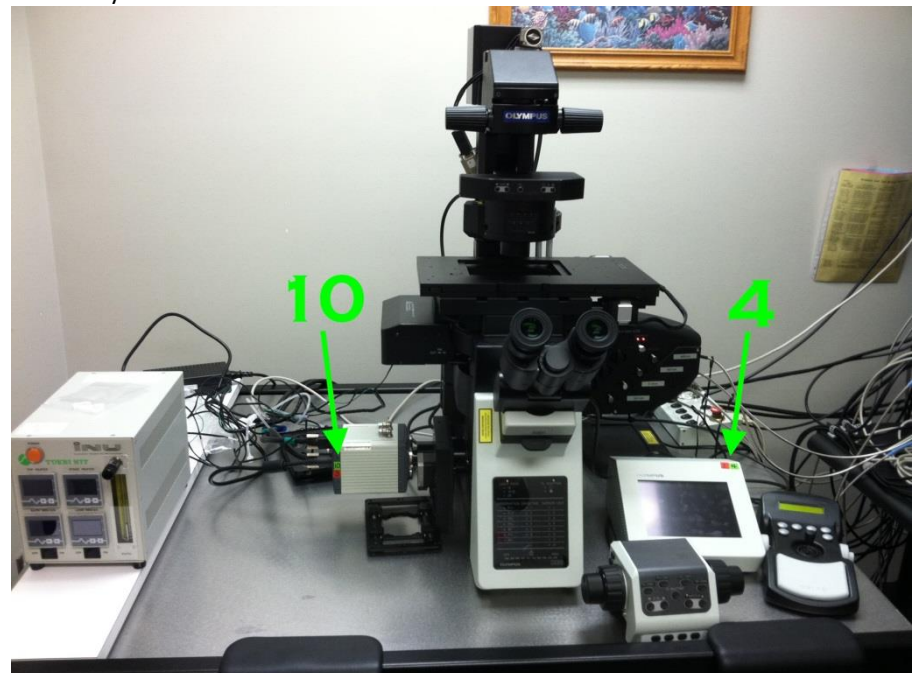
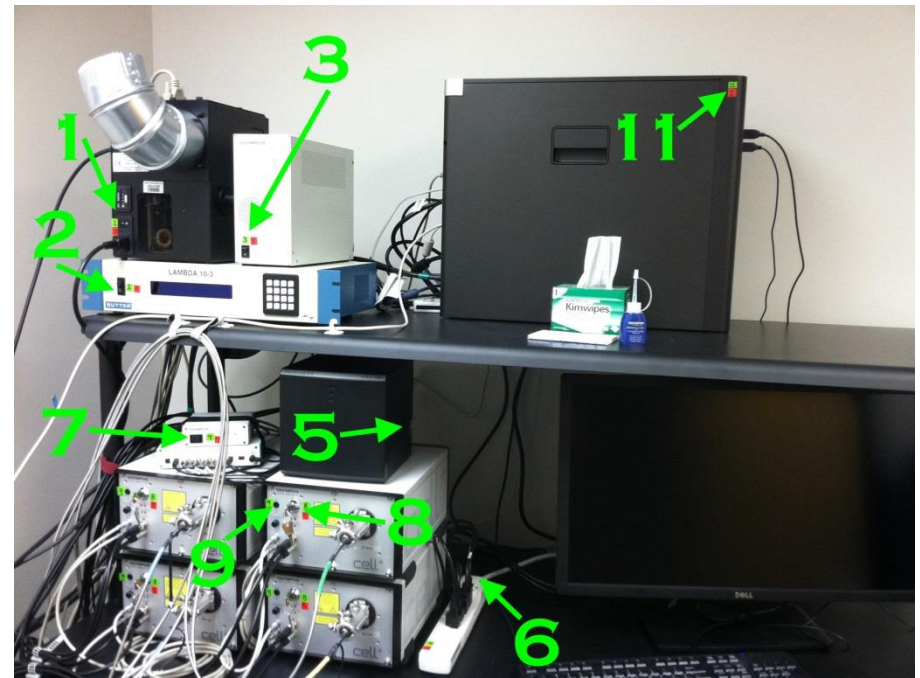


Olympus TIRF On Procedure

1. Xenon
 - a. Big black box on top of the cart
 - b. If you're only doing TIRF you do NOT need this on
2. Filter wheels
 - a. Sutter Lambda 10-3
 - b. Under the Xenon
3. Olympus CBH (Control box hardware)
 - a. Next to the Xenon; Halogen is located inside this box
 - b. 1 beep is good, multiple beeps are bad
4. Touch Panel Controller (TPC; touchscreen computer)
 - a. Located on the air table next to the microscope
 - b. DO NOT HOLD THE POWER SWITCH, just push it on
5. Prior Stage
 - a. Back of the black cube on top of laser boxes
6. Laser Power
 - a. Power strip on cart next to the keyboard
7. Olympus Data Bus (AD-USB-ODB)
 - a. Small box on top of the laser power boxes
8. Laser keys
 - a. You only need the laser keys that you intend to use turned. You may leave the others off.
9. Laser start buttons
 - a. You only need the buttons pushed on for the lasers whose key's you've turned. You may leave the others off.
10. Camera
11. Computer
 - a. Metamorph software FIRST
 - i. Will indicate that it can not locate a camera. There is only one camera attached. The unfound camera is the one that is NOT attached to the microscope.
 1. Andor Camera = Ultra
 2. Hammamatsu Camera = Flash
 - ii. Click NO, then OK
 - b. TIRF CTRL 1.4
 - i. Connect
 - ii. Connect (again)
 1. OCB box RMT light turns on, golden/orange color
 - iii. CTRL (upper right corner)-laser control
 1. Uncheck all lasers to remove from TTL mode
 2. Bring power up to roughly 10-15% power
 3. Toggle shutters, make sure they're closed
 4. Turn TTL back on by checking boxes



Olympus TIRF Off Procedure

1. Software/Computer
 - a. Metamorph FIRST
 - b. Cell TIRF
 - i. **Disconnect** THEN close
2. Touch Panel Controller (TPC; touchscreen computer)
 - a. Located on the air table next to the microscope
 - b. **DO NOT HOLD THE POWER SWITCH**, just push it in
3. Camera
4. Prior Stage
 - a. Back of the black cube on top of laser boxes
5. Laser Keys
6. Laser Power
 - a. Power strip on cart next to the keyboard
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