

Laser Alignment Procedure

EER 0.824/0.825

Lightconversion-CARBIDE: 1030 nm, SN:C18187, Class 4

Lightconversion -OPA: 315 nm - 10 μ m, SN:P19269, Class 4

Lightconversion -HIRO: 206 nm, SN: H19065, Class 4

Lightconversion -White light: 500 nm -1200 nm, SN: P19270, Class 4

Coblot-Samba: 532 nm, SN: 14730, Class 3B

NKT photonics-PILAS: 405 nm, SN: N/A, Class 3B

Daylight solutions-TSL: 6 μ m, SN: 41062, Class 3B

1. Only authorized personnel can make major laser alignment/adjustment.
2. Clear the lab of non-essential personnel and anyone not equipped with proper safety gear.
3. Turn on the laser sign outside the lab.
4. Write the operating wavelength on the LED board near the entrance door.
5. Wear appropriate laser safety goggles for the laser wavelength.
6. Use appropriate gloves and skin protection if needed.
7. Remove laser protective barriers from optics table.
8. Before adjusting optics, check laser LEDs and, if possible, verify with laser viewing cards to ensure that the laser is off.
9. Adjust the optics and ensure that all possible beam termination sites have a beam block behind them.
10. Check beam path, and verify eyewear in use by all present.
11. Set laser power to lowest setting necessary for any alignment.
- 12. Give verbal warning in lab that laser is ready to be fired. The laser will now be emitting hazardous laser radiation.**
13. Trace the beam and make sure the beam is guided to target location.

14. If optics need to be readjusted, turn the laser off and repeat step 8 to make sure all lasing activity has ceased.
15. Repeat steps 9-13, until alignment is complete.
16. Shut down the laser.
17. Replace protective laser barriers before starting normal work.