

安全时刻



NO. 030
2025年7月24日

激光安全操作8要点



先评估，获授权，方操作

使用Class 3B/4激光前先评估激光危害，制定控制计划和操作程序；通过激光安全培训及视力检查，获得属地安全员授权及准入许可，方可操作。

1

佩戴合适的激光防护眼镜

操作Class 3B/4激光前需检查与激光波长匹配且光学密度（OD）合适的激光防护眼镜，并正确佩戴。

2

激光束保持在视线以下

激光束高度必须始终低于操作平面。即使戴防了护眼镜，也永不将眼睛靠近激光束路径。

3

禁止直视激光或反射光

高功率激光直射眼镜会造成永久损伤！禁止直视光束或镜面反射光，即使低功率激光。

4



5

激光运行时禁止无人值守

离开前务必关闭激光，避免意外发生。

6

移除所有反光物

摘除手表、首饰等反光物，实验台面禁用镜面反光材料。确保光束路径无意外反射面。

7

制定激光标准操作规程

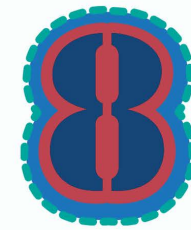
每台Class 3B/4激光设备旁应张贴简明SOP，包含最大功率限制、紧急联系人等。

8

激光事故应急处置

发生事故时：立即关闭激光系统，救助伤者，联系学校医务室（88330120）并立即报告上级及属地安全员。

Safety Moment



Key Points for Laser Safety Operation

Assess → Authorize → Operate.

Before using Class 3B/4 lasers, conduct a hazard assessment and establish control measures and procedures. Complete laser safety training and eye examination, and gain authorization from the local safety officer.

1

5

Never Leave Operating Lasers Unattended.

Before leaving the facility, switch off the laser.

Wear Proper Laser Safety Goggles.

Always use wavelength-matched goggles with the correct Optical Density (OD) for Class 3B/4 lasers. Ensure proper fit before operation.

2

6

Remove Reflective Objects

Take off watches, reflective jewelry, etc. Reflective from shiny surfaces can be hazardous.

Keep Laser Beam Below Eye Level

Keep the laser beam below eye level when standing or sitting. Never put yourself in any position where your eyes approach the axis of a laser beam.

3



7

Complete A Site-Specific SOPs

Post brief SOPs near all Class 3B/4 lasers, including mandatory power limits, emergency contact details, and critical safety reminders.

Never Look Into A Laser Or At Laser Light Reflections

High-power lasers can cause permanent eye damage! Avoid direct exposure to beams or reflected light.

4

8

Laser Accident Emergency Response

In the event of an accident: Immediately shut down the laser system, assist any injured individuals, contact the campus medical office at 88330120, and promptly report to your supervisor and the local safety officer.