

# LS-WL1 Safety Notice

- Please read carefully before use -

The LS-WL1 is an ultra-high brightness point light source. The light emitted from it may reach **very high and harmful intensity levels**.

The LS-WL1 is **NOT A TOY** and must only be used by technically educated persons. If the LS-WL1 or its optical engine is built into devices or instruments or attached to these as a sub-system, appropriate safety precautions must be maintained. If the LS-WL1 is operated stand-alone, make sure that you switch off emission before you leave it unattended.



### Risk of eye injury:

Avoid direct observation with the eye

- of the aperture without fiber
- or the fiber end
- or tightly collimated or focused spots



**Use safety glasses** to reduce the light intensity to comfortable levels. For the LS-WL1, most of the power is emitted below 600nm, so many laser safety glasses for blue and green lasers will work (OD>2 for UV-Yellow. Suitable glasses are also available at [lightsource.tech](http://lightsource.tech)).

Many applications include collimation or focusing of the beam. Depending on the optics employed, hazardous power levels may be present even in large distance from the source. In particular, coupling the light source to a microscope or other device with direct human observation may cause a focus in user-accessible spaces with very high power levels. Careful layout of the optical system avoiding such dangerous exposure conditions is mandatory for such use cases.

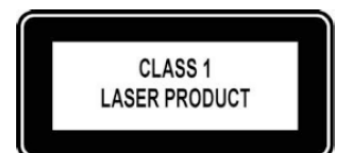
**Advice for neurologically photosensitive persons:** the LS-WL1 may be operated in pulsed or stroboscopic operation modes. Avoid exposure to intense low frequency flickering light. Risk of skin burn: avoid exposure of skin to focused or highly collimated light.

**Risk of skin burn:** avoid exposure of skin to focused or highly collimated light.

**Risk of fire:** do not place inflammable objects at the focus.

**For users of the try-out kit:** adhere to the safety notes above and follow special precautions for individual experiments! Use the safety glasses included!

The core light emitting device has independent UL certification for the solid-state lighting safety standard ANSI/UL 8750. It is rated a "Class 1 Laser Product" under IEC 60825-1 standard and rated "Risk Group 1" for IEC 62778 photo-biological safety.



The laser emitter is sealed and not directly visible. Only diffuse scattering of the laser and diffuse white light from the phosphor converter is visible and focussed onto the aperture (SMA connector) which may hold an optical fiber.

**Contact your local laser safety officer if you are insecure about appropriate safety measures or contact [lightsource.tech](http://lightsource.tech) for support.**