

# laser leak tester LASERSAFER

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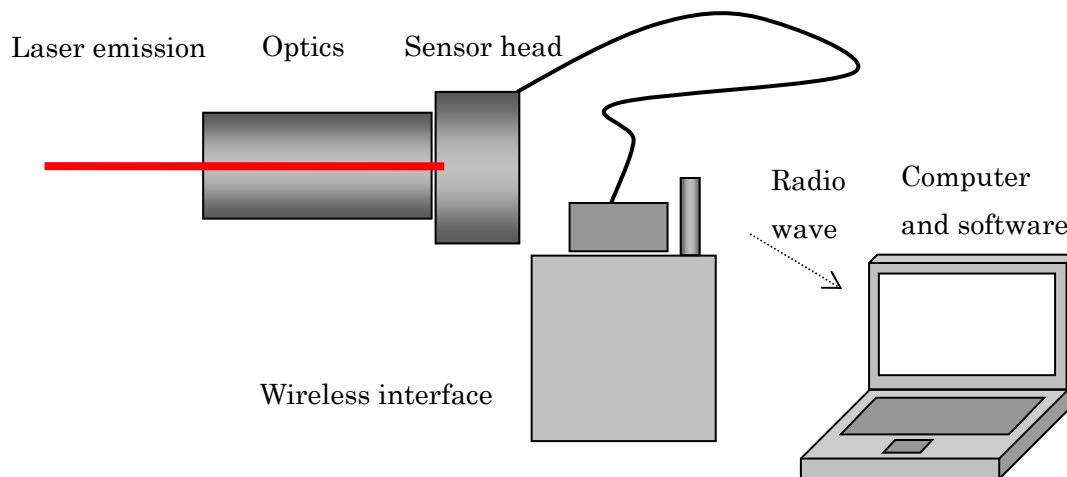
The computer is not included in this product.

## Use

Lasersafer is used to verify that accessible emissions (laser leaks from a protective housing) are within Class 1 AEL (accessible emission limit).

## Function

This product functions as followings. Laser emission accepted by the optics reaches the sensor head, then converted into electrical signal and sent to the wireless interface, then converted into digital signal and sent to the software on the computer by radio wave.



## Specifications

Wavelength:	The laser wavelength "Lambda" needs to be $400 \text{ nm} \leq \text{Lambda} \leq 1100 \text{ nm}$ .
Temporal profile:	Laser emission needs to be CW or repetitive pulses with non-modulated pulse duration and non-modulated pulse frequency that is $\geq 1 \text{ kHz}$ .
Emission duration:	Laser emission duration needs to be $\geq 0.4 \text{ s}$ .
Product composition:	Condition 3 optics, condition 1 optics, software, sensor head and wireless interface are included in this product.
Optics:	Condition 3 optics and condition 1 optics are made as provided by IEC 60825-1:2014 or stricter. Test wavelengths are 405 nm, 532 nm, 633 nm, 808 nm and 1064 nm. Designed, assembled and tested by Mita Giken.

- Software: The software calculates AEL and acquires data during measurement. AEL calculation is as provided by IEC 60825-1:2014 or stricter. The angular subtense of the apparent source “Alpha” is set to 1.5 mrad that leads to  $C_6=1$ . Designed and built by Mita Giken.
- Sensor head: Model name PD300R ROHS, made by Ophir Photonics.
- Wireless interface: Model name QUASAR ROHS, made by Ophir Photonics.
- Dimensions and weights: Sensor head with condition 3 optics has diameter of 35+-1 mm, length of 101+-10 mm and weight of ~90 g. Sensor head with condition 1 optics has diameter of 81+-1 mm, length of 317+-30 mm and weight of ~430 g. Wireless interface with sensor connector has width of 96+-1 mm, depth of 139+-3 mm, thickness of 36+-1 mm, cable length of 1410+-100 mm and weight of ~280 g. AC adapter and optics covers are not included above.

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