

# LASER PROTECTOR

## CE YL-780 MRLD

### 1. General remarks

All persons staying in the danger zone of laser radiation must use an appropriate protector. This product protects user from accidental exposure of laser radiation. This product meets the basic safety and health requirements of PPE regulation (EU) 2016/425, and harmonized standard EN207:2017.



**Note:** Please check the CE declaration from each page of the corresponding product at following URL.  
<http://www.yamamoto-kogaku.co.jp/en/ce/>

**WARNING**

- Please use laser protector suitable for the laser to be used. Using wrong way leads to serious accidents.
- Even when wearing laser protector, please do not look into directly the laser beam.
- There is a danger of unexpected laser irradiation due to the reflection, tilts and misalignments of installed optics and optical parts.
- When laser glasses are put on over prescription glasses, the shock of flying objects may affect prescription glasses and cause injury.
- Before use, please be sure to check the frame or lens for peeling of the crack or coating, melt trace of the lens by the laser etc. In such a case, please stop using this product.

**CAUTION**

- Substances that may harm the health or hygiene of the product wearer or other people who come into contact with the product are not confirmed in this product.
- May cause allergic reactions to people sensitive to substances that may come into contact with the wearer's skin.

### 2. Storing

- After use, please remove dirt from the product. Please put it in a case as necessary and keep them in a place without dust.
- Keep in custody at the place that is free from sun light, high temperature, exposure to organic solvents.

### 3. Cleaning

- When the lenses are stained with dirt, dust, iron powder and oil, you must soak these lenses into water and remove such stains with finger tip and wipe them with soft cloth.
- The resin part of this product may be deformed or broken depending on the type of organic solvent, acid and alkali. Do not use these chemicals for cleaning.
  - If these adhere, wash in the same way as ( i ) above.
- If disinfection is required, wipe the product with a soft cloth containing a disinfection alcohol. After wiping off the disinfection alcohol well, please use it.

### 4. Expiration date for use

In case of following situations, please change the product to new one without using it.

- Bad condition such as scratches and cracks are found.
- After the product receives strong impacts even if it has normal appearance.
- The damages on the product from laser radiation might be found.
- After exposing against strong light and high temperature, the change of color and deformation of the product might be found.
- Three years later, the user should replace the product even under normal use and conditions.

### 5. Meaning of markings

In order to be able to use the glasses as intended, certain markings have to be affixed to the frame which have the following meanings:

Scale number according to EN207	Abbreviation of the manufacturer
<b>2940 DIRM LB3 YL CE</b>	
Wavelengths at which the glasses protects	Laser type D=continuous wave laser I=pulsed laser R=Giant pulsed laser M=Mode-coupled pulsed laser

### 6. Certification body

The products of our company listed in this information brochure have been type-tested by

ECS GmbH  
 Huettfeldstrasse 50 73430 Aalen, Germany  
 Notified body 1883

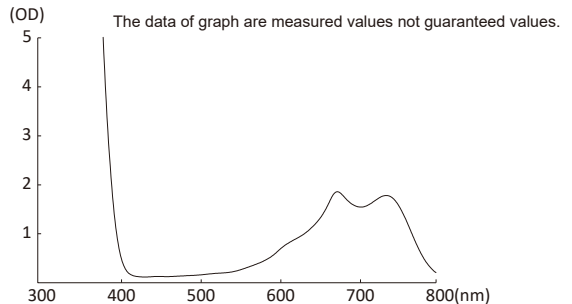
and are subject to permanent quality controls. Therefore, this product is allowed to be marked with .

### 7. Absorption curve

In the following the spectral characteristics of the filters is given:

VLT	40%
OD	0.7(635nm)/0.9(650nm)/1(680nm)/0.5(780nm)

**Note:** The data of graph are measured values not guaranteed values. When luminous transmittance is less than 20%, please increase lighting in the workplace. Depending on the type of filter, warning lights and warning notices might be difficult to read. Optical class 3 filters are not intended for long term use.



### 8. Field of application

This product protects user against scattered light and diffuse reflection of a laser beam and it gives the user the possibility to protect from the laser beam within a certain period of time (max. 5 sec resp. 50 pulse). This product has following features:

Wavelength range (nm)	Laser type (EN207)	Scale number (EN207)
180-315	D	LB8
	IR	LB4
315-380	DIR	LB6
660-750	DIR	LB1
9000-11000	DI	LB4

Manufacturer

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