

LASER SAFETY EYEWEAR



251-1064 Goggles



250-0800 Spectacles

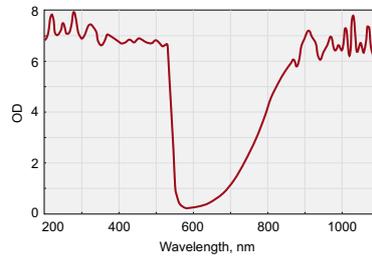
- Wide spectrum of visibility
- Corresponding to the EN207
- Comfort and universal fit
- Eye protection guaranteed
- For Nd:YAG, Yb/KGW/KYW, Ti:sapphire applications

Laser emitted light can be hazardous for eyesight even if the laser power is low. Laser radiation can affect injury for retina and cornea. Working with laser requires additional safety in order to avoid eyes damage.

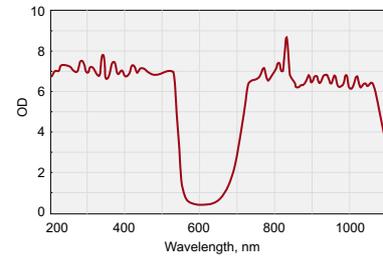
EKSMA OPTICS offers two different kinds of laser safety eyewear in two different styles: **spectacles** and **goggles**. The eyewear are amber colour and suitable for safe operation with **Nd:YAG, Ti:Sapphire, Yb:KGW/KYW fundamental, second, third, fourth harmonics**.

The eyewear absorbs laser radiation and gives perfect visibility. Both goggles and spectacles can be worn on prescription glasses. The goggles have air vents that prevent fogging. Laser beam cannot pass through the air vents. Goggles and spectacles come with protective case.

The models match the requirements for health and protection mentioned in the Directive of the European Community on Personal Protective Equipment (PPE) 89/686/EEC.



Nd:YAG and Harmonics, VLT 24%



Nd:YAG + Ti:Sapphire and Harmonics, VLT 11%

250-1064, 251-1064

Wavelength, nm	Optical Density
190–534	6.5+
910–1070	6+
870–1070	5+

250-0800, 251-0800

Wavelength, nm	Optical Density
190–534	6+
720–1064	5+
740–1064	6+

Code	Description	Price, EUR
250-0800	Spectacles for Nd:YAG + Ti:Sapphire applications	170
251-0800	Goggles for Nd:YAG + Ti:Sapphire applications	170
250-1064	Spectacles for Nd:YAG applications	150
251-1064	Goggles for Nd:YAG applications	150

VISUALIZATOR 990-0840



990-0840

- Produces a diffused second-harmonic reflection (visible) from an infrared (invisible) beam
- High mechanical durability
- High sensitivity to laser radiation
- Damage threshold for pulse laser – 1 W/cm²
- Damage threshold for CW laser (of average power) – 400 W/cm²

Laser Beam Visualizer **990-0840** is used for visualization of CW or pulsed laser radiation with wavelength 880-1070 nm. When CW or pulsed laser radiation of wavelength 880-1070 nm falls onto the working surface, the latter glows in the second harmonic of the beam. Use this item to adjust and check a shape of a laser beam. It helps to see the structure of a laser beam intensity distribution. Working surface diameter – 35 mm.

Laser Beam Visualizer **990-0841** visualize IR and UV coherent and incoherent radiation from various light sources, lasers and others. Made of rare-earth materials, it is an eco-friendly ceramic tablet.

Laser Beam Visualizer **990-0842** combines 990-0840 and 990-0841 in one for user convenience. One side visualizes radiation with wavelength 190-1600 nm by emitting red color and the other side visualizes radiation with 880-1070 nm by emitting green color.

Catalogue number	Spectral range, nm	Emitted light colour	Threshold sensitivity, W/cm ²	Price, EUR
990-0840	880-1070	Green	0.02	80
990-0841	190-1090 + 1470-1600	Red	0.01	99
990-0842	190-1090 + 1470-1600/880-1070	Red / Green	0.01 / 0.02	135