

LASER SAFETY EYEWEAR

Features

- Wide spectrum of visibility
- Comfort and universal fit
- For Nd:YAG, Yb:KGW/KYW, Ti:Sapphire applications



251-1064 Goggles

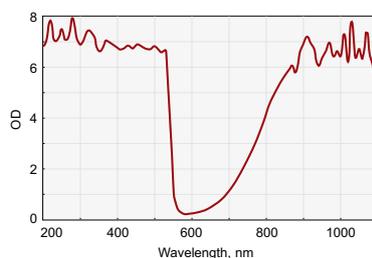


250-0800 Spectacles

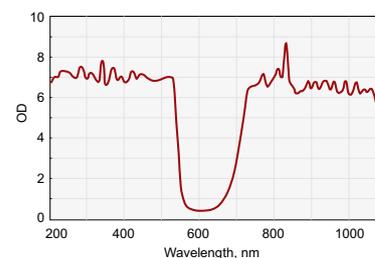
EKSMA Optics offers two different kinds of laser safety eyewear in two different styles: spectacles and goggles. The eyewear are amber colour and suitable for safe operation with Nd:YAG, Ti:Sapphire, Yb:KGW/KYW fundamental, second, third, fourth harmonics.

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 35%



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

250-1064, 251-1064

Wavelength, nm	Optical Density
190–534	7+
850–925	5+
960–1064	7+
625–1070	6+

250-0800, 251-0800

Wavelength, nm	Optical Density
180–534	7+
720–730	5+
730–740	6+
740–1070	7+

Description	Catalogue number	Price, EUR
Spectacles for Nd:YAG + Ti:Sapphire applications	250-0800	260
Goggles for Nd:YAG + Ti:Sapphire applications	251-0800	260
Spectacles for Nd:YAG applications	250-1064	200
Goggles for Nd:YAG applications	251-1064	200

VISUALIZER WITH A HOLDER

Features

- 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 J/cm², 10 ns
- Damage threshold for CW laser – 400 W/cm²



990-0840

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.

Spectral range, nm	Emitted light colour	Threshold sensitivity, W/cm ²	Catalogue number	Price, EUR
880 – 1070	Green	0.02	990-0840	114
190 – 1090 + 1470 – 1600	Red	0.01	990-0841	114
190 – 1090 + 1470 – 1600 / 880 – 1070	Red / Green	0.01 / 0.02	990-0842	179