

LS protective-filter range

Laser Safety Goggles & Protective Filters

Compare 24 protective-filter configurations by wavelength-specific optical density, visible-light transmission and listed protection markings. The range includes UV, visible, near-IR, mid-IR, CO₂ and IPL options.

Measurement method

Select the filter and frame for the complete laser exposure: wavelength, CW or pulsed regime, pulse duration and incident power or energy. Read the OD bands and the listed LB markings separately; they can cover different wavelength intervals.

Features

- 24 named filter configurations
- VLT, optical-density bands and listed LB markings shown separately
- DIN4 variants for selected near-IR filters
- IPL-specific LS-UI options
- Related helmets, face shields, protective clothing, aprons and gloves available by specification

Applications

- Laser laboratories and alignment procedures
- Wavelength-specific protective eyewear selection
- Equipment-specific protective-filter integration

Published filter configurations

Model	Visible-light transmission	Optical-density bands	Listed LB marking / standard field
LS-G	35%	OD7+ for 180-534nm	D LB5 + IR LB8 for 315 -534nm
LS-G-2	25%	OD8+ for 180-534nm	D LB6 + IR LB8 for 315 -534nm
LS-V	79%	OD6+ for 200-460nm	DIR LB5 for 316 - 460nm
LS-GI	22%	OD5+ for 180-532nm, OD5+ for 900-1080nm	DIRM LB5 for 316-532nm, DIR LB5 for 900-1080nm
LS-GI-2	20%	OD6+ for 180-534nm, OD6+ for 800-1095nm	DIRM LB6 for 316-534nm, DIRM LB6 for 800-1095nm
LS-GI-3	11%	OD7+ for 180-534nm, OD5+ for 740-900nm, OD7+ for 900-1095nm	DIRM LB6 for 316-534nm, DIRM LB5 for 740-900nm, D LB6 + IRM LB7 for 900-1095nm
LS-R	50%	OD4+ for 620-700nm	DIR LB4 for 620-700nm
LS-R-2	25%	OD6+ for 620-700nm	D LB5 +IR LB8 for 620-700nm
LS-DH	14%	OD4+ for 585-595nm	DIR LB4 for 585-595nm
LS-DH-2	7%	OD6+ for 560-600nm	DIR LB5 for 560-600nm
LS-AT	35%	OD5+ for 740-850nm, OD6+ for 780-830nm	DIR LB5 for 740-850nm
LS-AD	29%	OD5+ for 740-780nm, OD6+ for 780-820nm, OD7+ for 820-1100nm	DIR LB5 for 740-780nm, DIR LB6 for > 780-820nm, D LB6+ IR LB7 for > 820-1090nm
LS-AD-3	27%	OD8+ for 900-1100nm	D LB6+ IR LB8 for 900-1100nm
LS-AD-3 DIN4	6%	OD8+ DIN4 for 900-1100nm	D LB6+ IR LB8 for 900-1100nm
LS-DT	18%	OD4+ for 800-1700nm OD6+ for 900-1550nm	DIRM LB4 for 800-1400nm, DIRM LB6 for 900-1400nm, DI LB3 for 1400-1700nm
LS-IR-HP	40%	OD6+ for 200-460nm, OD7+ for 800-1095nm	DIR LB6 for 316-460nm, DI LB5+ R LB5 for 800-1095nm
LS-IR-HP-2	41%	OD>6 for 800-900nm, OD>7 for 900-1100nm	D LB5+ IR LB6 for 800-900nm, D LB5+ IR LB7 for > 900-1080nm
LS-IR-HP-2 DIN4	8%	OD>6 for 800-900nm, OD>7 DIN4 for 900-1100nm	D LB5+ IR LB6 for 800-900nm, D LB5+ IR LB7 for >900-1080nm
LS-HO	55%	OD4+ for 1900-3000nm, OD5+ for 2000-2300nm	DI LB3 for 1900-3000nm
LS-ER	87%	OD6+ for 2700-3000nm	DI LB3 for 2940nm
LS-C	75%	OD6+ for 9000-11000nm	DI LB3 for 10600nm
LS-UI	approximately 10%	IPL filter; OD not specified	ISO 12609-1 / CE (listed)
LS-UI-2	approximately 2%	IPL filter; OD not specified	Source label: SO 12609-1 / CE; confirm documentation
LS-GIR-2	69%	OD4+ for 870-950nm, OD6+ for >950-1000nm, OD7+ for >1000-1400nm, OD4+ for >1400-2300nm, OD4+ for >2850-3000nm	DIR LB4 for 870-900nm, DIR LB5 for 900-1000nm, D LB6+ IR LB7 for 1000-1400nm, DI LB4 for 1400-2300nm& 2850-3000nm

Related protection

Parameter	Specification
Related products	Laser safety helmet, face shield, protective clothing, apron and gloves
Detailed ratings	Configuration-specific specifications required before selection

Conditions and configuration notes

Ratings below reproduce the published configuration fields; they do not constitute a Precisometer certification or cover an unspecified exposure. Verify the supplied filter/frame markings and documentation before selection.

IPL filters are listed separately from laser filters. LS-UI-2 has a truncated standard label in the source; confirm its applicable documentation.

LS-GIR-2 has explicitly listed OD/LB intervals only up to 3000 nm; the broader heading must not be read as a continuous protected band to 11000 nm.

Specify your measurement

- All operating and alignment wavelengths
- CW/pulsed regime, pulse duration and credible exposure
- Required filter/frame marking and applicable certificate

Prepared by Precisometer. Technical review: 24 October 2026. Confirm the supplied configuration, measurement conditions, accessories and warranty with the quotation.

Precisometer | info@precisometer.com | Product details and enquiry