



Laservision

WE PROTECT YOUR EYES

Laser Safety Products

Edition 20

Accessories

IR-Viewer (part no 170)

The IR-VIEWER from LASERVISION collects incident, invisible infrared radiation by means of a special lens. An image intensifier converts this radiation into a visible greenish picture. The IR VIEWER is battery powered and therefore suitable for mobile use. The spectral sensitivity of the converter tube is between 400 nm and 1300 nm and therefore suitable for alignment and observation of conventional YAG- or diode lasers.

Highlights

- Simple, easy to use
- Wavelength range between 400nm and 1300nm
- High sensitivity
- Battery powered with long lifetime

| Parameter | Specification |
|------------------|----------------------|
| Wavelength range | 400 nm – 1300nm |
| Magnification | 0.95 |
| Working distance | 0.1m to infinity |
| Ocular | 10x +/- 4 diopt. |
| Lens | C-Mount, F 1.6/16 mm |
| Operating power | Battery 1.5V AA |
| Weight | 850g |
| Dimension | 150 x 60 x 210mm |
| Material | Aluminium, anodised |



| | Part number |
|---------------------------------------|-------------|
| Cleaning station (empty) | 201 |
| Refill cleaning tissue (2x 700 pc) | 202 |
| Refill cleaning fluid (0.5 l) | 203 |
| Pump for cleaning bottle (spare part) | 204 |

Cleaning Station with accessories (part no 200)

Laser safety goggles are high quality optical products to protect the eyes against laser radiation. In order to keep the functionality of the eyewear alive as long as possible, careful cleaning and maintenance is needed. Improper handling or cleaning can cause scratches or can even destroy the goggle or the filter completely. Especially plastic filters are at high risk by solvents and coatings by scratches. Therefore LASERVISION offers a stationary cleaning station for wall mounting. The cleaning station for laser safety filters contains a dispenser with a carefully verified cleaning fluid and suitable woodfree paper towels. The combination of both products ensures a gentle and efficient cleaning and a long life time of the eyewear.

Highlights

- Complete system with fluid and towels
- Wall mounting of the complete station
- Economical use due to pump dispenser
- Refill option for fluid and towels

Accessories

EYEPRO – Software for protection level calculation

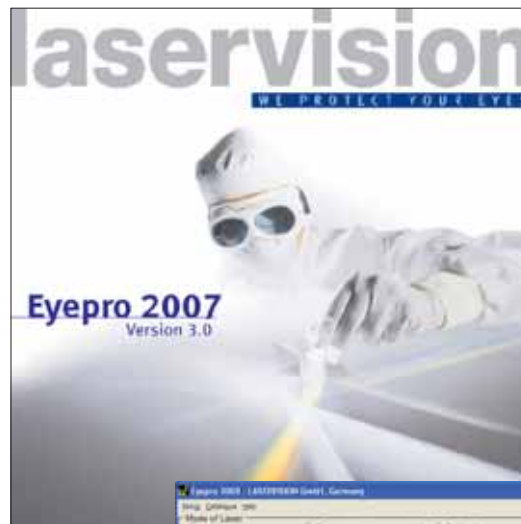
For selection of the right laser safety goggle of the LASERVISION product range we offer a free download of the calculation software EYEPRO.

After the input of all relevant laser data and operation parameters the software suggests different solutions according to the legal protection requirements. The selection out of more than 2500 LASERVISION products is possible under different considerations. Most important are the resistance time according to the EN 207/208 standards, the daylight transmission, the frame style and the price.

Highlights

- Free download with registration
- Free upgrade to each new release
- Calculation of required protection levels for different operation modes
- Combination of different lasers
- Recommendation of windows, filters, goggles out of the product range from LASERVISION

| | System requirements |
|------------------|--------------------------|
| Operating System | WIN 98, WINDOWS 2000, XP |



| | System requirements |
|------------------|---|
| Operating System | WIN 98, WINDOWS 2000, XP ab Mac OS 8.x |
| CD Drive | 4 speed, 16 Bit Sound |

LIMITS – Multimedia Education and Training Software (part no CD3)

The totally revised new version of the educational software consists of 9 units in total and a comprehensive cross linked glossary with more than 200 entries to all relevant terms of lasers and laser protection. Covered subjects are basic principles of laser technology, qualities of laser light, different operation modes of lasers, biological effects of laser radiation, differences between laser classes, secondary hazards, protection standards and methods and protection eyewear. Single units contain video sequences for better illustration and understanding. For this reasons LIMITS from LASERVISION is an outstanding electronic tool and reference book for all users of laser technology.

Highlights

- Comprehensive education package for lasers and laser safety
- Structured into 9 units and glossary
- Illustrated by video sequences
- Bilingual (English and German)



Guide to Laser Safety

The presentation starts with a summary of the most important characteristics of laser radiation and related hazard potential. Afterwards the whole range of laser safety is discussed at full length. Laser operation modes, laser classes and related laser safety requirements and standards are presented also. Additionally differences between the American ANSI and the European EN standard, test requirements and norms (CE, GS) are described in detail. A technical section deals with laser safety technology and explains the used terminology (VLT, OD, transmission, attenuation etc) for better understanding. Therefore the “Guide to Laser Safety” from LASERVISION is an excellent reference book for all laser users around lasers and laser safety issues.

Highlights

- Description of laser and laser safety related problems
- Presentation of laser classes and operation modes
- Illustration of laser safety technology
- Comments on differences between ANSI and CE standards

Transport and Storage box

LASERVISION delivers all glass and coated laser safety goggles in robust metal boxes, which protect the filter during transportation and which are also well suited for storage. Therefore each box is individually foam-filled according to the particular frame model. Metal boxes can be ordered separately and are available in two different dimensions.

Highlights

- Shock and dust safe package
- Individually foam-filled
- Easy to clean, scratch resistant surface
- 3 different dimensions



| | Part number |
|--|-------------|
| Size 1: 21x12,2x7,5mm* (VISION, ECO) | 045 |
| Size 2: 24 x 13,5x11,3mm* (PROTECTOR) | 048 |
| | 049 Box |



Large Storage Box (part no 9K.000.000.05)

This lightweight and robust black plastic suit case is very well suited to store several goggles. It allows protected transportation and stocking. The suit case is foam filled and can be used for goggles and spectacles. Through removable inserts the storage capacity can be adjusted to the number of goggles or spectacles needed.

Highlights

- Variable capacity of
 - 10 spectacles or
 - 7 spectacles and 1 goggle or
 - 4 spectacles and 1 goggle

Accessories



Head Strap and Pad Set for PROTECTOR

Worn out, shredded or dirty head straps of the PROTECTOR laser safety goggles can be replaced from LASERVISION. The elastic head strap is 40mm wide, black and comes with adjustable length, latch and side mount adapter. Because the PROTECTOR is often used by visitors, LASERVISION offers the Pad Set (consisting of 2 pads for front, 2 for jowl and 1 for the nose) in sets of 10 bags as spare parts for reordering.

Highlights

- Replaceable without tools
- Easy to change in case of damage or dirtiness

| | Part number |
|--|---------------|
| Head strap for L-08 PROTECTOR | 9H.999.999.04 |
| Cushion set for L-08 PROTECTOR (set of 10pc) | 9P.999.999.10 |

Retaining Band for DUOFLEX temples (part no 034)

The band consists of a white cord and can be adjusted by means of a lockable loop on each DUOFLEX temple. Therefore a stable fixing is guaranteed and the spectacle can be worn around one's neck. The length is adjustable by a small clamp.

Highlights

- Easy to fix on
- No need to put the goggle on the table - avoids scratches



Storage Bag and Hard Case

For protection and storage of the laser safety eyewear LASERVISION offers soft microfibre bags. Please note, that dry cleaning of coated laser safety filters is not advisable due to the high risk of scratches on the coating. Hard cases for SKYLINE and LAMBDA-ONE can be ordered also separately as spare parts. In order to protect the high-value ALL STAR goggle with magnifiers and the mounted Head Support System (part no. 040) we are offering a special large storage and transportation box (165BOX).

Highlights

- Size matched to the frame style
- Closable with cord or zipper respectively
- Protects against mechanical damage

| | Part number |
|---|-------------|
| Microfiber bag | 027 |
| Hard cover for LAMBDA-ONE | 700 |
| Hard cover for SKYLINE | 620 |
| Hard cover for ALLSTAR w. Magnifier and HSS | 165 BOX |

