

laservision

NEWS

**Laser safety
for patients**



The protection of people
is always in the focus
protecting people“ is our mission!

Laser protection eyewear

Light – or defined wavelength spectrums – can be blocked out of the spectrum using absorbing materials or reflection. Laser protection eyewear with such filters are the core of our product portfolio.

laservision has many years of technological experience in all of the relevant fields. Our internal quality management ensures that all applicable norms and standards are completely matched. This is subject to regular checks by independent institutes.



for medical applications



Plastic absorption filter (e.g. P1G04)

Laservision products are made from special plastics blended with additional absorber dyes. When the laser beam hits the material, most of the light energy is converted into heat. This is why thermal stability is so important in products exposed to laser radiation. Our plastic filters are available in various curved versions (base curves), or as a single shield.



Glass absorption filter (e.g. T2K02)

Regarding the thermal stability, glass filters are superior to their plastic counterparts, making them ideal for use in continuous (cw) laser applications at medium to high power levels. For IR applications in particular, we offer a range of powerful filters with a very good colour view performance. By combining different filters, we can create customer-specific safety spectacles with protection ranges tailored to a specific application.



IPL eyewear or eyewear for photodynamic therapy

Our brand-new generation of IPL and PDT eyewear with grey and green-tinted filters in two different shades (level 3 and 5) provide reliable protection against UV and infrared radiation. Especially the grey filters allow perfect colour recognition - similar to that offered by us as sunglare filters. This eyewear is NOT approved as laser protection eyewear and is therefore NOT suitable for use during laser treatment.



Patient eyewear

Our comprehensive portfolio of patient eyewear includes a wide range of materials to suit different applications. We offer silicon patient eyewear with a replaceable filter option and spectacles featuring our new two-way design, as well as three variants of our innovative titanium patient spectacles, which are adjustable, comfortable and suitable for disinfection and autoclaving.



Eyewear for veterinary medicine

Our laser protection Doggles® provide safe and reliable protection for animal patients. They are quick and easy to fit and remain secure during treatment thanks to the headbands. So that slipping is almost impossible.



Large-area laser protection

Large-area laser protection is getting more and more important in healthcare practices and in operating theatres, as well as in laboratories where a wide range of lasers are used. Our portfolio includes laser protection curtains suitable for clean rooms, laser protection windows for new buildings covering nearly all relevant wavelengths, and laser protection films for existing internal and road-facing windows.





Application area Patient protection

Patient spectacles P01

Versatile silicon spectacles with filter insert

- New replaceable nose bridge – **now also fits for children**
- Silicon patient spectacles with filter insert
- Optional metal insert
- Can be sterilised with filter removed
- Adjustable headband and flexible frame
- High level of protection (depending on filter)

The P01 patient spectacles set themselves apart from other models with its laserfilter or metal insert design.

With various filters to choose from and even a metal insert option, these spectacles are suitable for the majority of laser applications. Depending on the filter, patients are able to retain their vision, which is a huge advantage for anxious patients. The spectacles are completely metal-free, which means that they can also be used in tomographs.

The filters can be removed without tools to allow the frame to be sterilised and autoclaved. The level of protection provided by the spectacles is largely determined by the filter fitted. The adjustable headband guarantees a stable and pressure-free fit.



Replaceable nose bridge



S/M and L/XL sizes included in delivery



Adjustable headband



Easy replacement



Included in delivery

Patient spectacles P01, soft case, headband, two nose bridges (different sizes), instruction manual

Name	Compatible filters	Art. number
Eyeball/patient spectacles P01 with metal filter, suitable for all wavelengths	M1P04 Metal colours	 P01.M1P04.1002
Eyeball/patient spectacles P01 with plastic filter for Nd:YAG (1064nm) or CO ₂ (10,600 nm)	P1P10	 P01.P1P10.1002
Eyeball/patient spectacles P01 with plastic filter for Diodes (610nm-820nm)	P1H03	 P01.P1H03.1002

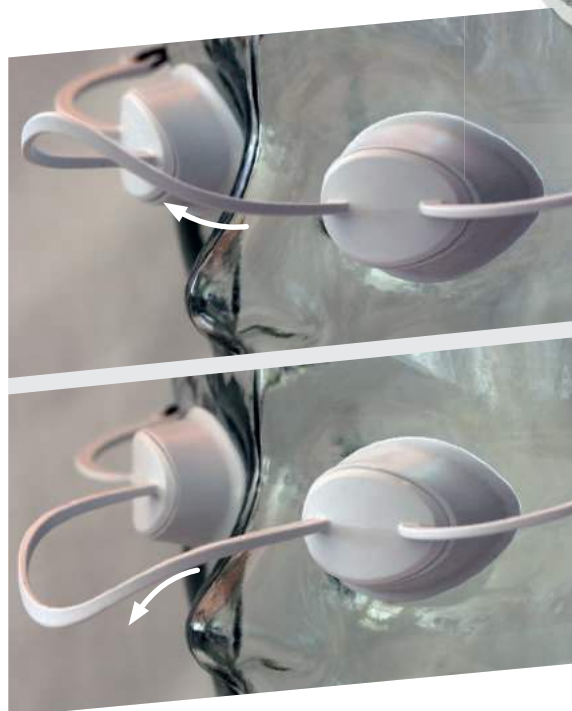
Further versions with other filters on request



Patient spectacles P07

Multifunctional model with innovative two-way design

- Innovative two-way design
- Minimal coverage thanks to nose bridge and strap
- Flexible frame for a good fit
- Very high level of protection
- Can be sterilised
- Suitable for UV, VIS, NIR and IR
- Secure pressure-free fit
- Asymmetrical nose bridge
- Metal-free



The patient spectacles were developed in partnership with doctors. We have thus succeeded in setting them apart from traditional metal eyewear, with the large asymmetrical nose bridge and the positioning of the strap hooks, which are located well away from the eyes.

Designed especially for laser treatment in the facial area, the spectacles offer significantly better access to the forehead and nose as well as the temporal area.



Included in delivery

One pair of eyeball spectacles, P07
soft case, headband, instruction
manual

Art. number

P07.P1P11.1001



Application area Patient protection

Premium Line Titanium patient spectacles

As an extension our existing silicon-based patient spectacles, we now also offer the Premium Line solution for particularly demanding applications and environments.

The titanium model is ideal for areas that are subject to even more stringent hygiene standards or where powerful lasers are used.

The advantages of this series include:

Hygiene and medical aspects

- Nickel-free – nickel emissions tested in accordance with EN 11885:2009-09
- Neutral immunology (titanium is an established high-quality implant material and is perfectly tolerated/neutral in and on the human body)
- Replaceable silicon rings for maximum hygiene

Application areas and comfort

- Corrosion-resistant (autoclavable)
- Excellent user comfort and maximum flexibility in use
- No reflection
- Paramagnetism (not affected by magnetic fields (e.g. in CT applications) in P11 and 12 with cord removed)



P11

P11.M1P07

The P11 with robust, flexible titanium temples for:

- supreme ease of use
- an optimum fit



A99SRing

25 pairs of replacement silicon rings for titanium patient spectacles

All titanium spectacle caps can be fitted with the supplied silicon rings – for optimum user comfort and hygiene.

The ring prevents direct contact between the patient's skin and the metal and makes the spectacles feel warmer and more comfortable to wear.



P13

P13.M1P07

The P13s are individual caps for:

- supreme ease of use
- individual flexibility and use
- no obstructive nose bridge

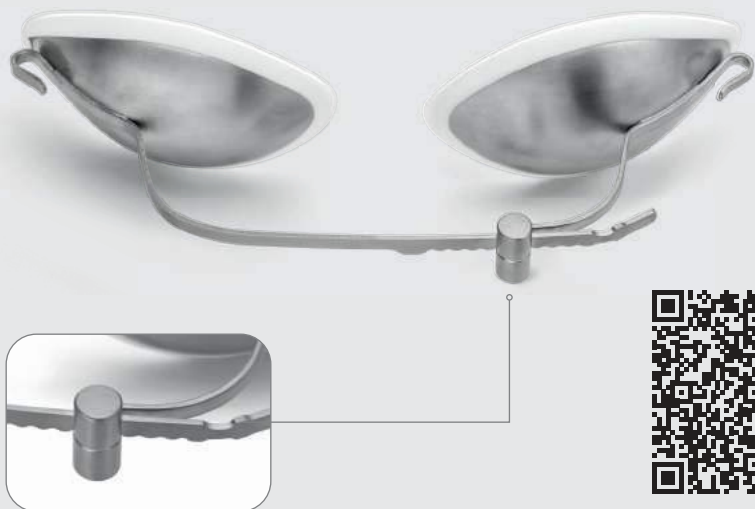


P12

P12.M1P07

The P12 has single-hand adjustable titanium temples for:

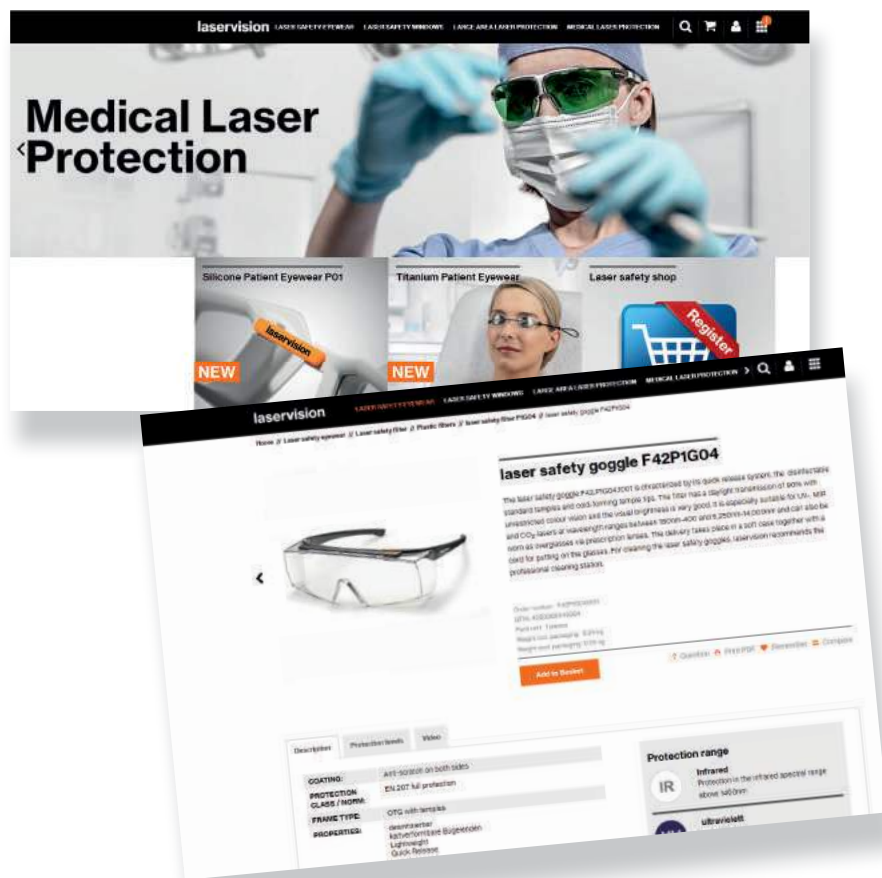
- maximum flexibility
- supreme ease of use
- an optimum fit



- elastic cord
- adjustable length
- adjustment mechanism on side
- no pressure on rear head when lying down

Included in delivery	Art. number
One pair of titanium patient spectacles in a softbox with two pairs of replacement silicon rings and one cord with side fastening	P11M1P07 or P12M1P07
Caps in a softbox with two pairs of replacement silicon rings	P13M1P07
Available to order/optional	Art. number
25 pairs of replacement silicon rings for titanium patient spectacles and caps	A99SRing

Level of protection		
Wavelength	OD	Level of protection
180–315nm	10+	D LB 10 + IR LB4 + M LB6Y
>315–1400nm	10+	D LB7 + IR LB9 + M LB10
>1400–25,000nm	10+	DI LB5 + R LB3Y + M LB6Y



Shop Online

Registered business customers can place orders online via the laservision webshop.

Ordering via the webshop means that you'll always be able to access the latest information on availability and pricing. You can also use the Favourites feature to place repeat orders in a quick, secure and simple process.

Your account allows you to manage your delivery addresses and access permissions, and reflects your agreed prices and orders from framework agreements, as well as special delivery terms via our delivery service provider.



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