



Laser safety eyewear

There is a saying that 'you can only see a laser beam twice – once for each eye'. At Excel Lasers, in our long experience, we have never encountered any eye injury due to unsafe use of a surgical diode laser. However, the importance of wearing laser safety eyewear, as well as following basic laser safety procedures, cannot be overstated.

Our laser safety eyewear is tested and certified to EN 207 and comes in a wide range of filters and frame styles. See

overleaf for specifications of the filter, including the range of wavelengths, level of protection and visible light transmittance (VLT).

The manufacturer of your laser will have specified the minimum protection rating in the operator manual – just tell us what it is and we will select the best eyewear for you. If you cannot find the rating, or would like full data on any of our products, contact us and we will help you to choose the correct eyewear.

How to order

You can specify the part number for your laser safety glasses by adding the 2-digit frame style number and 3-character filter reference to the prefix 'ELG' as illustrated opposite. A complete list of filters types is shown overleaf.

All our safety eyewear is provided with a datasheet, hard protective case and cleaning cloth.

ELG XX YYY

3-character filter reference

2-digit frame style

Frame styles

Excel Lasers' safety eyewear are available in four frame styles:



33

A classic, universal, comfortable design, in black. It is ideal for wearing over normal spectacles or just on its own.



55

A lightweight, wraparound frame in grey. This is ideal for the smaller face or if you don't wear spectacles and want a compact shape.



36

A white frame with black arms, which are adjustable in length.










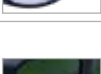
52

Similar to style 33, in white.

Selection guide

Use the table below to select the filter that best suits your application. Please confirm that the specified rating is adequate for your application. If in doubt, contact us for free advice.

All of Excel Lasers' safety eyewear is manufactured by LaserPair and certified to EN 207, with the exception of the IPL filter, which is for use with Intense Pulsed Light systems and therefore certified to EN 166.

Filter	Range & L-rating	VLT	Typical applications	
GHP	315 – 532 nm DIRM LB5	> 50%	532 nm lasers	
GTY	315 – 532 nm DIRM LB5 900 – 1070 nm DIR LB5	> 30%	532 / 1064 nm lasers	
RHP	620 – 700 nm DIR LB4	> 50%	PhotoDynamic Therapy (PDT)	
RTD	620 – 660 nm DIR LB3 800 – 830 nm DIR LB4	> 30%	PhotoDynamic Therapy (PDT) 630 / 635 / 810 nm diode lasers	
ATD	740 – 850 nm DIR LB5 780 – 830 nm IR LB6	> 45%	755 / 810 nm lasers	
ADY	740 – 780 nm DIR LB5 800 – 1070 nm IR LB7	> 40%	755 / 810 / 980 / 1064 nm lasers	
DTY	800 – 1400 nm DIR LB4 1400 – 1700 nm DIR LB3	> 40%	810 / 980 / 1064 / 1320 / 1470 nm	
YHP	808 – 980 nm DIR LB5 1000 – 1070 nm IR LB7	> 60%	810 / 980 / 1064 nm lasers	
CHP	10600 nm DIR LB3	> 90%	CO2 lasers	
IPL	200 – 1400 nm	> 10%	Intense Pulsed Light (IPL) systems for cosmetic skin treatments & hair removal	

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to ISO 13485