



Laser Safety Industries LLC

E Y E W E A R

W I N D O W S

B A R R I E R S

S I G N S & L A B E L S

I P L

MEDICAL INDUSTRIAL RESEARCH TELECOM MILITARY

PRODUCTS 2009

About Laser Safety Industries

Laser Safety Industries is a new kind of laser safety company. We offer a full line of laser safe products including eyewear, windows, barriers, signs, labels and training. Our products meet ANSI requirements

and we are continually adding new products with CE marking for our European customers. Contact us and we will help you find the right protection equipment for your laser(s).

Selecting Protection To select the laser protection you need to know the following:

Wavelength

Wavelength is expressed in nanometers (nm), or micrometers (µm). There are typically two wavelengths associated with a laser, the aiming beam wavelength and the operating wavelength. Typically the aiming beam is "eye safe" and the operating beam is the one you need protection from. Multiple-wavelength systems may require a custom filter or multiple eyewear.

Viewing Conditions

Direct viewing is used to describe laser environments where there are no measures put in place to prevent accidental direct exposure to part or all of the beam.

Diffuse viewing is used to describe laser environments when protection from scattered radiation is only required.

Power / Energy

Lasers operate as continuous wave or pulsed systems. For continuous wave you need the power of the laser, expressed in a form of Watts. For single or multi-pulsed lasers you need the energy (joules), the pulse length (seconds), and the repetition rate (Hertz).



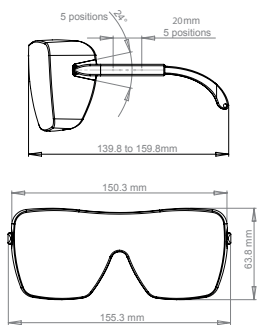
Laser Eyewear Frame Styles

10



Light weight polycarbonate fit-over style frame with wide field of view, adjustable temples, and high lens clarity.

Temple adjustment:
24° 139-159 mm
(5 positions)

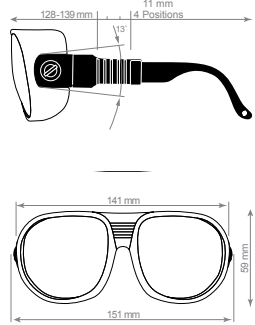


15



Spectacle style frame constructed of durable nylon with side protection and adjustable temples.

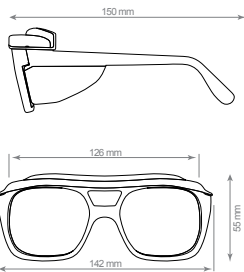
Temple adjustment:
13° 128-139 mm
(4 positions)



20



White economical nylon frame with side and brow shields.



35



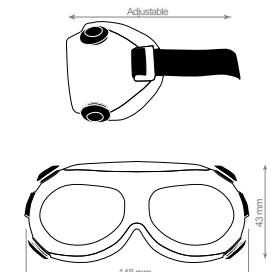
Black spectacle style frame constructed of nylon with soft touch finish for a great combination of durability and comfort. Fit-over Rx capability with flex-fit temples and side shields.



25



Vented goggle with padded rims and adjustable elastic head strap. Excellent fit-over Rx option.



Polycarbonate Eyewear

Polycarbonate laser glasses are lightweight, economical, and offer excellent protection from lasers. Our advanced anti-scratch coating make the polycarbonate lenses extremely durable and scratch resistant.

If you can't find the laser protection you need below, please contact us and one of our laser safety experts will assist you.

<p>101</p> <p>OD Specifications OD 7+ @ 190-385 nm OD 6+ @ 10,000-11,000 nm</p> <p>View Through Filter VLT: 87%</p>  <p>Frame Styles</p>  <p>PN: 100-10-101 PN: 100-15-101 PN: 100-20-101 PN: 100-25-101</p>	<p>105</p> <p>OD Specifications OD 5+ @ 190-400 nm OD 6+ @ 10,000-11,000 nm</p> <p>View Through Filter VLT: 88%</p>  <p>Frame Styles</p>  <p>PN: 100-10-105 PN: 100-15-105 PN: 100-20-105 PN: 100-25-105</p>
<p>110</p> <p>OD Specifications OD 6+ @ 190-532 nm OD 6+ @ 10,000-11,000 nm</p> <p>View Through Filter VLT: 50%</p>  <p>Frame Styles</p>  <p>PN: 100-10-110 PN: 100-15-110 PN: 100-20-110 PN: 100-25-110</p>	<p>125</p> <p>OD Specifications OD 7+ @ 190-385 nm OD 5+ @ 855-1085 nm OD 8+ @ 980 nm OD 6+ @ 1064 nm</p> <p>View Through Filter VLT: 60%</p>  <p>CE Specifications Frame 10 D 980 nm L6 I, R 980 nm L7 D 1064 nm L6 I, R 1064 nm L7</p> <p>Frame Styles</p>  <p>ANSI PN: 100-10-125 PN: 100-15-125 PN: 100-20-125 PN: 100-25-125 CE PN: 100-10-126</p>
<p>130</p> <p>OD Specifications OD 7+ @ 190-534 nm OD 5+ @ 850-1100 nm OD 7+ @ 1064 nm</p> <p>View Through Filter VLT: 26%</p>  <p>Frame Styles</p>  <p>PN: 100-10-130 PN: 100-15-130 PN: 100-20-130 PN: 100-25-130</p>	<p>140</p> <p>OD Specifications OD 4+ @ 2780 nm OD 4+ @ 2940 nm</p> <p>View Through Filter VLT: 90%</p>  <p>Frame Styles</p>  <p>PN: 100-15-140 PN: 100-20-140 PN: 100-25-140 PN: 100-35-140</p>
 <p>PN: 100-10-125</p>	<p>145</p> <p>OD Specifications OD 5+ @ 715-810 nm OD 7+ @ 755 nm OD 6+ @ 810 nm</p> <p>View Through Filter VLT: 45%</p>  <p>CE Specifications Frame 10 D 755 nm L6 I, R 755 nm L7 D, R 810 nm L6 I 810 nm L7</p> <p>Frame Styles</p>  <p>ANSI PN: 100-10-145 PN: 100-15-145 PN: 100-20-145 PN: 100-25-145 CE PN: 100-10-146</p>



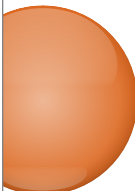

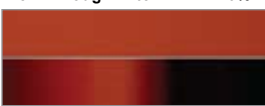


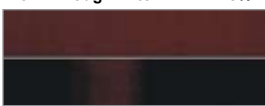
Glass Eyewear

Glass filters offer the maximum protection for the widest range of wavelengths. Glass filters are also very durable, have excellent visibility and can be customized. If you need a filter not shown below, please contact us and one of our laser safety experts will assist you.



PN: 100-20-205

<p>200</p> 	<p>OD Specifications OD 4+ @ 950-1050 nm OD 5+ @ 1050-1500 nm OD 4+ @ 1500-2300 nm OD 5+ @ 2900-3600 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-200 PN: 100-20-200 PN: 100-25-200 PN: 100-35-200</p>	<p>View Through Filter VLT: 75%</p> 	<p>205</p> 	<p>OD Specifications OD 5+ @ 950-1000 nm OD 7+ @ 1000-1600 nm OD 5+ @ 1600-2400 nm OD 4+ @ 2400-2900 nm OD 5+ @ 2900-11,000 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-205 PN: 100-20-205 PN: 100-25-205 PN: 100-35-205</p>	<p>View Through Filter VLT: 72%</p> 
<p>210</p> 	<p>OD Specifications OD 5+ @ 570-595 nm OD 6+ @ 583-592 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-210 PN: 100-20-210 PN: 100-25-210 PN: 100-35-210</p>	<p>View Through Filter VLT: 35%</p> 	<p>215</p> 	<p>OD Specifications OD 6+ @ 190-375 nm OD 6+ @ 10,000-11,000 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-215 PN: 100-20-215 PN: 100-25-215 PN: 100-35-215</p>	<p>View Through Filter VLT: 88%</p> 
<p>220</p> 	<p>OD Specifications OD 6+ @ 190-450 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-220 PN: 100-20-220 PN: 100-25-220 PN: 100-35-220</p>	<p>View Through Filter VLT: 65%</p> 	<p>225</p> 	<p>OD Specifications OD 6+ @ 190-520 nm OD 5+ @ 10,600 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-225 PN: 100-20-225 PN: 100-25-225 PN: 100-35-225</p>	<p>View Through Filter VLT: 45%</p> 
<p>230</p> 	<p>OD Specifications OD 7+ @ 190-540 nm OD 5+ @ 10,600 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-230 PN: 100-20-230 PN: 100-25-230 PN: 100-35-230</p>	<p>View Through Filter VLT: 42%</p> 	<p>235</p> 	<p>OD Specifications OD 6+ @ 190-580 nm OD 5+ @ 10,600 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-235 PN: 100-20-235 PN: 100-25-235 PN: 100-35-235</p>	<p>View Through Filter VLT: 32%</p> 
<p>240</p> 	<p>OD Specifications OD 4+ @ 630-690 nm OD 7+ @ 690-970 nm OD 5+ @ 970-1100 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-240 PN: 100-20-240 PN: 100-25-240 PN: 100-35-240</p>	<p>View Through Filter VLT: 36%</p> 	<p>245</p> 	<p>OD Specifications OD 2+ @ 630-650 nm OD 3+ @ 650-690 nm OD 6+ @ 690-1330 nm OD 8+ @ 1064 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-245 PN: 100-20-245 PN: 100-25-245 PN: 100-35-245</p>	<p>View Through Filter VLT: 50%</p> 
















<h2>250</h2> 	<p>OD Specifications OD 7+ @ 190-540 nm OD 5+ @ 950-1000 nm OD 7+ @ 1000-1600 nm OD 5+ @ 1600-2400 nm OD 5+ @ 2400-3600 nm</p> <p>Frame Styles</p>  <p>PN: 100-20-250 PN: 100-25-250</p>	<p>View Through Filter VLT: 40%</p> 	<h2>260</h2> 	<p>OD Specifications OD 7+ @ 190-540 nm OD 2+ @ 630-650 nm OD 3+ @ 650-690 nm OD 6+ @ 690-1330 nm OD 8+ @ 1064 nm</p> <p>Frame Styles</p>  <p>PN: 100-20-260 PN: 100-25-260</p>	<p>View Through Filter VLT: 28%</p> 
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Dielectric Coated Eyewear

Coated laser filters provide high OD's at very specific wavelengths giving maximum visibility and protection. Our unique dielectric coating process makes the coating scratch and flake proof. Custom coatings are available, contact us for more information.



Filter 301

<h2>301</h2> 	<p>OD Specifications OD 7+ @ 690-760 nm OD 4+ @ 760-950 nm OD 5+ @ 950-1000 nm OD 7+ @ 1000-1600 nm OD 5+ @ 1600-2400 nm OD 4+ @ 2400-2900 nm OD 5+ @ 2900-10600 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-301 PN: 100-20-301 PN: 100-25-301 PN: 100-35-301</p>	<p>View Through Filter VLT: 62%</p> 	<h2>305</h2> 	<p>OD Specifications OD 7+ @ 800-1600 nm OD 5+ @ 1600-2400 nm OD 4+ @ 2400-2900 nm OD 5+ @ 2900-10600 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-305 PN: 100-20-305 PN: 100-25-305 PN: 100-35-305</p>	<p>View Through Filter VLT: 65%</p> 
<h2>310</h2> 	<p>OD Specifications OD 4+ @ 800-900 nm OD 5+ @ 810 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-310 PN: 100-20-310 PN: 100-25-310 PN: 100-35-310</p>	<p>View Through Filter VLT: 78%</p> 	<h2>315</h2> 	<p>OD Specifications OD 5+ @ 900-1000 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-315 PN: 100-20-315 PN: 100-25-315 PN: 100-35-315</p>	<p>View Through Filter VLT: 78%</p> 
<h2>320</h2> 	<p>OD Specifications OD 5+ @ 1000-1100 nm</p> <p>Frame Styles</p>  <p>PN: 100-15-320 PN: 100-20-320 PN: 100-25-320 PN: 100-35-320</p>	<p>View Through Filter VLT: 78%</p> 			



Windows & Sheets

Our laser safety windows are intended to provide safe viewing of lasers. They are excellent for use in enclosures, walls, glove boxes and windows. Custom shapes, filters and sizes available. Please contact us for assistance.



400

OD Specifications
OD 6+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.125	.140"	.25"
12x12	100-400-005	100-400-001	100-400-009
12x24	100-400-006	100-400-002	100-400-010
24x24	100-400-007	100-400-003	100-400-011
24x36	100-400-008	100-400-004	100-400-012

405

OD Specifications
OD 5+ @ 190-375 nm
OD 5+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.125	.140"
12x12	100-405-005	100-405-001
12x24	100-405-006	100-405-002
24x24	100-405-007	100-405-003
24x36	100-405-008	100-405-004

410

OD Specifications
OD 5+ @ 190-375 nm
OD 4+ @ 375-532 nm
OD 5+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.125	.140"	.25"
12x12	100-410-005	100-410-001	100-410-009
12x24	100-410-006	100-410-002	100-410-010
24x24	100-410-007	100-410-003	100-410-011
24x36	100-410-008	100-410-004	100-410-012

415

OD Specifications
OD 5+ @ 190-375 nm
OD 6+ @ 694 nm
OD 5+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.140"
12x12	100-415-001
12x24	100-415-002
24x24	100-415-003
24x36	100-415-004

420

OD Specifications
OD 5+ @ 190-375 nm
OD 4+ @ 900-1070 nm
OD 5+ @ 1064 nm
OD 5+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.125	.140"	.25"
12x12	100-420-005	100-420-001	100-420-009
12x24	100-420-006	100-420-002	100-420-010
24x24	100-420-007	100-420-003	100-420-011
24x36	100-420-008	100-420-004	100-420-012

425

OD Specifications
OD 5+ @ 190-375 nm
OD 4+ @ 375-532 nm
OD 4+ @ 900-1070 nm
OD 5+ @ 1064 nm
OD 5+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.125"	.140"
12x12	100-425-005	100-425-001
12x24	100-425-006	100-425-002
24x24	100-425-007	100-425-003
24x36	100-425-008	100-425-004

430

OD Specifications
OD 7+ @ 750-840 nm
OD 5+ @ 10,600 nm

View Through Filter
Material: Acrylic

Window Sizes

Standard Sizes	.150"
12x12	100-430-001
12x24	100-430-002
24x24	100-430-003

435

OD Specifications
OD 5+ @ 190-375 nm
OD 4+ @ 820-1080 nm
OD 6+ @ 1064 nm

View Through Filter
Material: Acrylic

Window Sizes

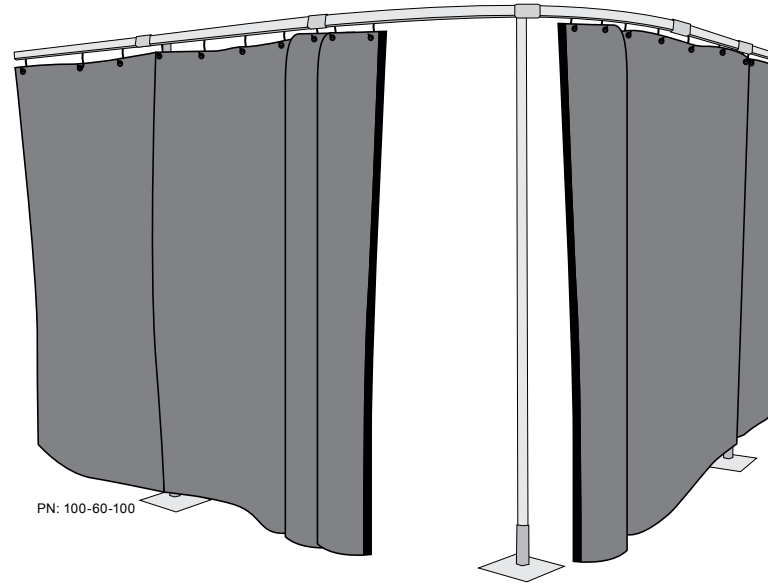
Standard Sizes	.125"
12x12	100-435-001
12x24	100-435-002
24x24	100-435-003
24x36	100-435-004

Barriers

Laser barriers systems are ideal for containing a laser to a specific area. Our laser barriers and curtains are available in standard and custom configurations to meet your requirements. Please contact us for details.

<p>Floor Mount 12'x12'x7' "L" Shaped Overlap enclosure can be positioned on either side of the barrier. Includes all hardware and instructions.*</p> <p style="text-align: right;">PN: 100-60-100</p>	<p>Floor Mount 12'x12'x8' "L" Shaped Overlap enclosure can be positioned on either side of the barrier. Includes all hardware and instructions.*</p> <p style="text-align: right;">PN: 100-60-105</p>
<p>Floor Mount 12'x22'x7' "L" Shaped Overlap enclosure can be positioned on either side of the barrier. Includes all hardware and instructions.*</p> <p style="text-align: right;">PN: 100-60-110</p>	<p>Floor Mount 12'x22'x8' "L" Shaped Overlap enclosure can be positioned on either side of the barrier. Includes all hardware and instructions.*</p> <p style="text-align: right;">PN: 100-60-115</p>
<p>Floor Mount 14'x14'x7' Rectangular Overlap enclosure can be positioned on either side of the barrier. Includes all hardware and instructions.*</p> <p style="text-align: right;">PN: 100-60-120</p>	<p>Floor Mount 14'x14'x8' Rectangular Overlap enclosure can be positioned on either side of the barrier. Includes all hardware and instructions.*</p> <p style="text-align: right;">PN: 100-60-125</p>

*May require anchors to attach to walls.



PN: 100-60-100

IPL

Protect your staff and patients from intense pulse light with IPL safety glasses and goggles.

Our eyewear offers several levels of protection to best meet your needs.

<p>160</p>	<p>Filter Specifications IPL 2</p>	<p>View Through Filter</p>
	<p>Frame Styles</p> <p>PN: 100-20-160</p>	
<p>150</p>	<p>Filter Specifications IPL 3</p>	<p>View Through Filter</p>
	<p>Frame Styles</p> <p>PN: 100-10-150 PN: 100-15-150 PN: 100-20-150 PN: 100-25-150</p>	
<p>155</p>	<p>Filter Specifications IPL 5</p>	<p>View Through Filter</p>
	<p>Frame Styles</p> <p>PN: 100-10-155 PN: 100-15-155 PN: 100-20-155 PN: 100-25-155</p>	

Signs & Labels

Keep people informed of a laser hazard. Choose from standard or custom laser safety signs and labels.

Signs and labels meet both ANSI Z136 and 535.4 guidelines.

<p>Class 3R</p> <p>10"x14" customizable Class 3R laser safety sign.</p> <p style="text-align: right;">PN: 100-70-101</p>	
<p>Class 3B</p> <p>10"x14" customizable Class 3B laser safety sign.</p> <p style="text-align: right;">PN: 100-70-105</p>	
<p>Class 4</p> <p>10"x14" customizable Class 4 laser safety sign.</p> <p style="text-align: right;">PN: 100-70-110</p>	
<p>Notice</p> <p>10"x14" Notice laser safety sign.</p> <p style="text-align: right;">PN: 100-70-115</p>	





Laser Safety Industries^{LLC}

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