Laservision USA is your worldwide laser safety expert.
A part of UVEX Safety Group, Laservision USA designs and manufactures laser safety products for customers in manufacturing, medicine, R&D, education, military, and telecommunications. Our products and services include:

**Eyewear & Filters** Pages 4-13

Laservision frames and filters are created to provide ultimate protection with comfort and style:
- Filters with high Optical Density (OD)
- CE and ANSI certified laser safety products
- Wide selection of over 2,000 custom filters
- Innovative and comfortable frame styles

**Eyewear & Window Filters** Pages 9 and 18

Protect yourself from IR lasers with two new blue filters. **P5P10** (eyewear/window) and **P5M01** (eyewear).
- **High OD protection** from most Diode, Nd:YAG, Disc, and Fiber lasers (OD 8+)
- Better color recognition compared to conventional green filters
- Polycarbonate - economical and lightweight compared to glass filters

**NEW**

**P5P10**
Impact and scratch resistant polycarbonate window

Certified
Large Area Protection  Pages 14-20

Fastest lead time in the industry for Laser Safety Barriers!
Large Area Protection includes:
• Barriers (Curtains and Panels)
• Windows and Domes
These systems are used to contain hazardous beams and reflections.
Additional laser safety items include: Interlocks, Signs, and Labels.
Custom options available to meet all your laser safety requirements.

Training & Professional Services  Pages 21

• Online training - study at your own pace
  - Corporate subscriptions available
• Custom training on how to start and manage your own laser safety program
• Classroom training at locations around the USA each year
• Professional auditing and consulting from our certified CLSOs
Check our website for updated information or contact us to schedule your training today.

Medical Laser Safety  Pages 21-23

We provide a full-range of laser safety products for medical laser users such as Surgeons, Dermatologists, Veterinarians, Dentists, and Patients, including:
• Application-specific safety filters for medical lasers and IPL
• Medical Laser Safety Officer (MLSO) and awareness training programs online or hosted at your hospital, medical facility, spa, or clinic
• Auditing and consulting services
• Laser safety for pets and horses
• Patient protection

lasersafety.com  Page 3
Standard Eyewear

**F01**
- Lightweight frame
- Height and angle adjustable temples
- Soft earpieces provide extra comfort
- Optional prescription insert

**F02**
- Large lens size for greater field of view
- Height and angle adjustable temples
- Soft temple earpieces for comfort

**F08**
- Small and lightweight frame for petite faces
- Adjustable earpiece allows quick and easy manual adjustment

**F16**
- Sporty style lightweight frame
- Height and angle adjustable temples
- Adjustable nylon strap option instead of temples as the F15 frame
- Soft temple earpieces for comfort

**F21**
- Steel blue color
- Lightweight frame
- Durable with soft nose cushion for comfort

**F24**
- Maximum comfort and performance
- Durable, strong, and lightweight
- Features sculpted soft pad inserts
- Hypoallergenic soft rubber nose and temple ends
- Includes heavy duty removable and adjustable elastic strap

**F25**
- White clean dynamic look
- Lightweight strong material
- Hypoallergenic soft material nose pads and temple ends for comfort and stabilizing grip
- Adjustable nose design provides pressure-free non-slip fit

**F29**
- Large lens for greater field of view
- Soft nose piece
- Low weight and good face fit for comfort
- Flexible and adjustable rubber temples with inclination

Laser Safety Eyewear

- Maximum comfort and performance
- Durable, strong, and lightweight
- Features sculpted soft pad inserts
- Hypoallergenic soft rubber nose and temple ends
- Includes heavy duty removable and adjustable elastic strap

- White clean dynamic look
- Lightweight strong material
- Hypoallergenic soft material nose pads and temple ends for comfort and stabilizing grip
- Adjustable nose design provides pressure-free non-slip fit

- Large lens for greater field of view
- Soft nose piece
- Low weight and good face fit for comfort
- Flexible and adjustable rubber temples with inclination

ANSI Z87.1
Maximum laser protection and optimal comfort, packaged together with a stylish design.

**Fit-Over Eyewear**

**F70**
- Fashionable laser safety frame style with strong stylish, two-toned color frame
- Large viewing area on a lightweight design

**F07**
- Wide fit-over style and lightweight
- Stylish bronze color
- Adjustable earpiece allows quick and easy manual adjustment

**F09**
- Large, fit-over style, and lightweight
- Adjustable earpiece allows quick and easy manual adjustment

**R10**
- Heavy-duty, metal-reinforced frame
- Fits over most prescription eyewear
- Innovative design allows you to adjust temple height and angle

**F12**
- Large lenses for increased visibility
- Strategically placed venting reduces fogging
- Padded rim provides extra comfort
- Adjustable elastic strap

**F14/R14**
- Padded goggle rim provides extra comfort
- Adjustable elastic strap
- Optional anti-fog insert accessory
- Optional metal-reinforced version as R14

**F22**
- Lightweight design that features flexible temple technology
- Optimal field of view and fits-over prescription eyewear

ANSI Z87.1
Laservision is the industry leader in glass filters for laser eyewear, produced at our advanced facility in St. Paul, MN. Glass provides high Optical Density (OD) and long usage with its superior scratch resistance.

<table>
<thead>
<tr>
<th>Glass Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TSA03</strong> Lasers</td>
</tr>
<tr>
<td>Excimer</td>
</tr>
<tr>
<td>Color: Light Yellow</td>
</tr>
<tr>
<td><strong>Application</strong>: Ablation, Material Removal, Cladding, Cutting &amp; Scribing, Drilling, Industrial, Microdrilling, Micromachining, Ophthalmology, Research, Welding &amp; Soldering</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TSE04</strong> Lasers</th>
<th>CE Available</th>
<th>OD 7+ @ 190 - 450 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excimer</td>
<td>Nd:YAG(4H)</td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong>: Yellow</td>
<td>VLT: 94%</td>
<td></td>
</tr>
<tr>
<td><strong>Application</strong>: Industrial, Microdrilling, Micromachining, Ophthalmology, Research, Surface Cleaning and Stripping of Plastics, Ceramics and Metals</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TSE02</strong> Lasers</th>
<th>OD 9+ @ 180 - 315 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon Excimer</td>
<td>Nd:YAG (2H)/(KTP) Nd:YAG(3H)</td>
</tr>
<tr>
<td><strong>Color</strong>: Orange</td>
<td>VLT: 40%</td>
</tr>
<tr>
<td><strong>Application</strong>: Research, Urology, Dermatology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TSE06</strong> Lasers</th>
<th>OD 7+ @ 190 - 565 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon Excimer</td>
<td>Nd:YAG (2H)/(KTP) Nd:YAG(3H)</td>
</tr>
<tr>
<td>Diode</td>
<td>Nd:YAG(4H)</td>
</tr>
<tr>
<td><strong>Color</strong>: Red</td>
<td>VLT: 10%</td>
</tr>
<tr>
<td><strong>Application</strong>: GYN, Medical, Research, Urology</td>
<td></td>
</tr>
</tbody>
</table>
We protect your eyes

T5B06 Lasers
- OD 6+ @ 510 - 680 nm
- Argon, He Ne
- Nd:YAG (2H)/(KTP)
- Application: GYN, Medical and Life Sciences, Research, Urology

T5B07 Lasers
- OD 3+ @ 570 - 595 nm
- Diode, Dye
- Application: Flow Cytometry, GYN, Medical and Life Sciences, Research, Urology

T5H03 Lasers
- OD 4+ @ 630 - 690 nm
- Alexandrite, Diode, Disk, Ti:Sapphire
- Nd:YAG
- Application: Cutting, Dermatology, Skin Rejuvenation, Tattoo Removal, Welding

T5H04 Lasers
- OD 2+ @ 630 - 650 nm
- Alexandrite, Diode, Disk, Ti:Sapphire
- Nd:YAG
- Application: Dermatology, Industrial, Material Processing, Medical Device Manufacturing, Skin Rejuvenation, Tattoo Removal, Research

T5L03 Lasers
- OD 7+ @ 590 - 535 nm
- Argon, Diode, Dye, Eximer, He Ne
- Nd:YAG, Nd:YAG (3H)
- Application: Industrial, Material Processing, Medical Device Manufacturing, Research

T5M01 Lasers
- OD 7@ @ 590 - 535 nm
- Argon, Diode, Dye, Eximer, He Ne
- Nd:YAG, Nd:YAG (3H)/(KTP)
- Application: Cutting, Industrial, Microdrilling, Micromachining, Research, Surface Cleaning & Stripping of Plastics, Ceramics & Metals, Welding

T5K02 Lasers
- OD 3+ @ 850 - 900 nm
- CO2, Er:YAG, Diode, Ho:YAG, Disk, Nd:YAG, Fiber
- Application: Industrial, Dermabrasion, Dermatology, Laser Resurfacing, Laser Surgery, LIDAR, Material Processing, Medical, Medical Device Manufacturing, Military, Range Finding, Research, Telecommunications, Urology, Veterinary

T5D02 Lasers
- OD 6+ @ 10600 nm
- CO2
- Application: Cutting, Dermabrasion, Dermatology, Laser Surgery, LIDAR, Medical, Military, Range Finding, Research, Skin Resurfacing, Welding

Note: Filter colors might vary slightly in print and web versus the actual product.
Laservision has the most advanced collection of polycarbonate filters that are lightweight and economical.

## P5E01 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>OD 7+ @ 190 - 315 nm, OD 6+ @ 315 - 532 nm</td>
</tr>
<tr>
<td>Excimer</td>
<td></td>
</tr>
<tr>
<td>Nd:YAG (2H)/(KTP)</td>
<td></td>
</tr>
<tr>
<td>Nd:YAG (3H)</td>
<td></td>
</tr>
<tr>
<td>Nd:YAG (4H)</td>
<td></td>
</tr>
</tbody>
</table>

**Color: Orange**

**VLT:** 40%

**Application:** Cladding and Coating, Hardening of Metals, Research, Urology, Welding of Plastics

## P5L07 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>OD 6+ @ 190 - 315 nm</td>
</tr>
<tr>
<td>Alexandrite</td>
<td>OD 6+ @ 355 - 532 nm</td>
</tr>
<tr>
<td>Diode</td>
<td>OD 6+ @ 808 - &lt;980 nm</td>
</tr>
<tr>
<td>Dye</td>
<td>OD 4+ @ 890 - &lt;940 nm</td>
</tr>
<tr>
<td>Nd:YAG (2H)/(KTP)</td>
<td>OD 5+ @ 940 - &lt;980 nm</td>
</tr>
<tr>
<td>Nd:YAG (3H)</td>
<td>OD 5+ @ 980 - 1065 nm</td>
</tr>
<tr>
<td>Nd:YAG (4H)</td>
<td>OD 5+ @ 1065 - 1100 nm</td>
</tr>
</tbody>
</table>

**Color: Orange-glow**

**VLT:** 30%

**Application:** Industrial, Material Processing, Ophthalmology, Research, Dermatology, Laser Surgery

## P5E02 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>OD 6+ @ 585 - 600 nm</td>
</tr>
<tr>
<td>Dye</td>
<td>OD 5+ @ 600 - 605 nm</td>
</tr>
</tbody>
</table>

**Color: Blue**

**VLT:** 14%

**Application:** Cutting, Marking, Skin Rejuvenation, Welding

## P5B06 Lasers

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diode</td>
<td>OD 6+ @ 585 nm, OD 6+ @ 650 nm</td>
</tr>
</tbody>
</table>

**Color: Blue**

**VLT:** 15%

**Application:** Dermatology, Skin Rejuvenation

## P5E03 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dye</td>
<td>OD 7+ @ 630 - 690 nm, OD 7+ @ 690 - 710 nm</td>
</tr>
<tr>
<td>Ne</td>
<td></td>
</tr>
<tr>
<td>Ruby</td>
<td></td>
</tr>
</tbody>
</table>

**Color: Blue-green**

**VLT:** 45%

**Application:** Cutting, Marking, Skin Rejuvenation, Veterinary, Welding

## P5F01 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexandrite</td>
<td>OD 5+ @ 190 - 375 nm</td>
</tr>
<tr>
<td>Diode</td>
<td>OD 4+ @ 730 - 855 nm</td>
</tr>
<tr>
<td>Dye</td>
<td>OD 7+ @ 755 - 840 nm</td>
</tr>
<tr>
<td>Nd:YAG (2H)/(KTP)</td>
<td>Ti:Sapphire</td>
</tr>
<tr>
<td>Nd:YAG (3H)</td>
<td></td>
</tr>
<tr>
<td>Nd:YAG (4H)</td>
<td></td>
</tr>
</tbody>
</table>

**Color: Pink**

**VLT:** 35%

**Application:** Dermatology, Industrial Alignment, Soft Tissue Dentistry

## P5H02 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexandrite</td>
<td>OD 5+ @ 700 - 820 nm</td>
</tr>
<tr>
<td>Diode</td>
<td></td>
</tr>
<tr>
<td>Dye</td>
<td></td>
</tr>
<tr>
<td>Ruby</td>
<td></td>
</tr>
<tr>
<td>Ti:Sapphire</td>
<td></td>
</tr>
</tbody>
</table>

**Color: Green**

**VLT:** 42%

**Application:** Cutting, Dermatology, Marking, Skin Rejuvenation, Welding

## P5H01 Lasers - CE Available

<table>
<thead>
<tr>
<th>Laser Type</th>
<th>Wavelengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexandrite</td>
<td>OD 4+ @ 770 - 800 nm</td>
</tr>
<tr>
<td>Diode</td>
<td>OD 6+ @ 800 - 980 nm</td>
</tr>
<tr>
<td>Dye</td>
<td>OD 7+ @ 980 - 1065 nm</td>
</tr>
<tr>
<td>Ti:Sapphire</td>
<td>OD 5+ @ 1065 - 1100 nm</td>
</tr>
</tbody>
</table>

**Color: Light Green**

**VLT:** 35%

**Application:** Dermatology, Ophthalmology, Industrial, Material Processing, Soft Tissue Dentistry, Medical Device Manufacturing, Telecommunications, Urology
### P5C02 Lasers
- **Color:** Green (YAG)
- **Application:** Cutting, Dermatology, Gynaecology, Industrial, Material Processing, Medical Device Manufacturing, Soft Tissue Dentistry, Urology, Veterinary, Welding

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;300 - 500 nm</td>
<td>3+</td>
<td>Diode</td>
</tr>
<tr>
<td>800 - 900 nm</td>
<td>4+</td>
<td>Nd:YAG</td>
</tr>
<tr>
<td>1000 - 1500 nm</td>
<td>7+</td>
<td>Saphire</td>
</tr>
</tbody>
</table>

### P5K01 Lasers
- **Color:** Green (YAG)
- **Application:** Dermatology, Laser Resurfacing

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 - 900 nm</td>
<td>5+</td>
<td>Diode</td>
</tr>
<tr>
<td>900 - 1000 nm</td>
<td>7+</td>
<td>He:Ne</td>
</tr>
<tr>
<td>1000 - 11000 nm</td>
<td>4+</td>
<td>Nd:YAG</td>
</tr>
</tbody>
</table>

### P5P03 Lasers
- **Color:** Dark Green (YAG)
- **Application:** Cutting, Engraving, Industrial, Material Processing, Marking, Range Finding, Veterinary

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 - 700 nm</td>
<td>6+</td>
<td>Diode</td>
</tr>
<tr>
<td>700 - 11000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>11000 - 16000 nm</td>
<td>6+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5M01 Lasers
- **Color:** Blue (Nd:YAG)
- **Application:** Industrial, Material Processing, Manufacturing, Military, Laser Resurfacing, Laser Surgery

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>180 - 300 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
<tr>
<td>300 - 400 nm</td>
<td>8+</td>
<td>Disk</td>
</tr>
<tr>
<td>400 - 600 nm</td>
<td>4+</td>
<td>Fiber</td>
</tr>
<tr>
<td>600 - 800 nm</td>
<td>2+</td>
<td>Diode</td>
</tr>
<tr>
<td>800 - 1200 nm</td>
<td>3+</td>
<td>Diode</td>
</tr>
<tr>
<td>1200 - 1600 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>1600 - 3000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>3000 - 5000 nm</td>
<td>3+</td>
<td>Diode</td>
</tr>
<tr>
<td>5000 - 10000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>10000 - 20000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>20000 - 40000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>40000 - 80000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>80000 - 160000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>160000 - 320000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5P02 Lasers
- **Color:** Blue (Nd:YAG)
- **Application:** Dermatology, Laser Resurfacing

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>180 - 300 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
<tr>
<td>300 - 400 nm</td>
<td>8+</td>
<td>Disk</td>
</tr>
<tr>
<td>400 - 600 nm</td>
<td>4+</td>
<td>Fiber</td>
</tr>
<tr>
<td>600 - 800 nm</td>
<td>2+</td>
<td>Diode</td>
</tr>
<tr>
<td>800 - 1200 nm</td>
<td>3+</td>
<td>Diode</td>
</tr>
<tr>
<td>1200 - 1600 nm</td>
<td>4+</td>
<td>Diode</td>
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<tr>
<td>1600 - 3000 nm</td>
<td>4+</td>
<td>Diode</td>
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<tr>
<td>3000 - 5000 nm</td>
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<td>5000 - 10000 nm</td>
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<tr>
<td>10000 - 20000 nm</td>
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<td>Diode</td>
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<tr>
<td>20000 - 40000 nm</td>
<td>4+</td>
<td>Diode</td>
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<tr>
<td>40000 - 80000 nm</td>
<td>4+</td>
<td>Diode</td>
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<tr>
<td>80000 - 160000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>160000 - 320000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5P10 Lasers
- **Color:** Blue (Nd:YAG)
- **Application:** Dermatology, Medical, Laser Resurfacing, Laser Surgery, Urology

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>180 - 300 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
<tr>
<td>300 - 400 nm</td>
<td>8+</td>
<td>Disk</td>
</tr>
<tr>
<td>400 - 600 nm</td>
<td>4+</td>
<td>Fiber</td>
</tr>
<tr>
<td>600 - 800 nm</td>
<td>2+</td>
<td>Diode</td>
</tr>
<tr>
<td>800 - 1200 nm</td>
<td>3+</td>
<td>Diode</td>
</tr>
<tr>
<td>1200 - 1600 nm</td>
<td>4+</td>
<td>Diode</td>
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<tr>
<td>1600 - 3000 nm</td>
<td>4+</td>
<td>Diode</td>
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<tr>
<td>3000 - 5000 nm</td>
<td>3+</td>
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<tr>
<td>5000 - 10000 nm</td>
<td>4+</td>
<td>Diode</td>
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<td>10000 - 20000 nm</td>
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<td>40000 - 80000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>80000 - 160000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>160000 - 320000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5D07 Lasers
- **Color:** Clear (Nd:YAG)
- **Application:** Dermatology, Medical, Laser Resurfacing, Laser Surgery

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 - 500 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
<tr>
<td>500 - 1000 nm</td>
<td>8+</td>
<td>Diode</td>
</tr>
<tr>
<td>1000 - 2000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>2000 - 4000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>4000 - 8000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>8000 - 16000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>16000 - 32000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>32000 - 64000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>64000 - 128000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5D02 Lasers
- **Color:** Clear (Nd:YAG)
- **Application:** Laser Resurfacing, Laser Surgery

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700 - 2940 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
<tr>
<td>2940 - 3200 nm</td>
<td>8+</td>
<td>Diode</td>
</tr>
<tr>
<td>3200 - 3600 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>3600 - 4000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>4000 - 4400 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>4400 - 4800 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>4800 - 5200 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>5200 - 5600 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>5600 - 6000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5D03 Lasers
- **Color:** Clear (Nd:YAG)
- **Application:** Dermatology, Laser Resurfacing

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700 - 2940 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
<tr>
<td>2940 - 3200 nm</td>
<td>8+</td>
<td>Diode</td>
</tr>
<tr>
<td>3200 - 3600 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>3600 - 4000 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>4000 - 4400 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
<tr>
<td>4400 - 4800 nm</td>
<td>4+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5D04 Lasers
- **Color:** Clear (Nd:YAG)
- **Application:** Cutting, Dermatology, Engraving, Industrial, Laser Surgery, Marking, Material Processing, Military, Ophthalmology, Skin Rejuvenation, Range Finding, Veterinary

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9000 - 11000 nm</td>
<td>10+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

### P5P03 Lasers
- **Color:** Dark Green (YAG)
- **Application:** Cutting, Engraving, Industrial, Material Processing, Marking, Range Finding, Veterinary

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>OD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 - 10600 nm</td>
<td>11+</td>
<td>Diode</td>
</tr>
</tbody>
</table>

Filter colors might vary slightly in print and web versus the actual product.
Nanospec/Thin Film-coated filters provide multiwavelength and narrow band protection options. These filters provide high Optical Density (OD) and VLT specifications. Laservision offers both glass and polycarbonate Nanospec/Thin Film-coated lenses.

### T5L06 Lasers
- **Argon Excimer**
- Nd:YAG (2H)/(KTP)
- Nd:YAG (3H)/(4H)

**Color:** Orange
**VLT:** 29%
**Application:** Material Processing, Research

### T5B03 Lasers
- Nd:YAG (2H)/(KTP)

**Color:** Purple
**VLT:** 20%
**Application:** Dermatology ENT, GYN, Medical, Urology

### T5B05 Lasers
- Dye Diode

**Color:** Blue
**VLT:** 27%
**Application:** Aesthetics, Dermatology

### T5K07 Lasers
- Alexandrite

**Color:** Blue-green
**VLT:** 68%
**Application:** Dermatology, Hair Removal, Tattoo Removal

### T5K08 Lasers
- Diode Disk Fiber
- Nd:YAG (2H)/(KTP)

**Color:** Purple
**VLT:** 12%
**Application:** Cutting, Dermatology, ENT, GYN, Industrial, Medical, Research, Urology, Welding

### T5K09 Lasers
- Alexandrite

**Color:** Blue-green
**VLT:** 48%
**Application:** Dermatology, Hair Removal, Industrial, Materials Processing, Medical Device Manufacturing, Surgery, Tattoo Removal, Telecommunications

### T5K10 Lasers
- Argon, Diode Nd:YAG
- Disk, Dye Nd:YAG
- Er:YAG Nd:YAG (3H)/(4H)
- Excimer Ruby Helie Ti:Sapphire

**Color:** Clear
**VLT:** 60%
**Application:** Cutting, Dermatology, Engraving, Industrial, Material Processing, Laser Surgery, Marking, Medical, Military, Ophthalmology, Range Finding, Research, Skin Rejuvenation, Veterinary

### T5K11 Lasers
- Alexandrite
- Diode Ti:Sapphire

**Color:** Clear
**VLT:** 60%
**Application:** Cutting, Dermatology, Engineering, Industrial, Material Processing, Laser Surgery, Marking, Medical, Military, Ophthalmology, Range Finding, Research, Skin Rejuvenation, Veterinary

### T5K12 Lasers
- Nd:YAG Diode Ho:YAG
- Disk Er:YAG Fiber Ho:YAG

**Color:** Blue-green
**VLT:** 60%
**Application:** Dermatology, Hair Removal, Industrial, Materials Processing, Medical Device Manufacturing, Surgery, Tattoo Removal, Telecommunications
Laservisions alignment filters are developed for laser operators, technicians, engineers, maintenance, and service personnel who may occasionally need to safely observe light emitted from visible lasers (400nm – 700nm) while performing critical alignment procedures.

### Alignment Filters

**Laservisions alignment filters** are designed for laser operators, technicians, engineers, maintenance, and service personnel who may occasionally need to safely observe light emitted from visible lasers (400nm – 700nm) while performing critical alignment procedures.

**Lasers**

- **T5K04**
  - **Lasers**: Alexandrite, Diode, Er/YAG, Ho/YAG
  - **Application**: Cutting, Dermatology, Engraving, Industrial, Laser Surgery, Materials Processing, Medical, Military, Ophthalmology, Range Finder, Skin Rejuvenation, Veterinary

- **100750**
  - **Lasers**: Nd:YAG
  - **Application**: Cutting, Industrial, Laser Surgery, Material Processing, Medical, Research, Skin Rejuvenation, Welding

**Color**

- **Gray**
- **Clear**

**VLT**

- **77%**
- **88%**

**OD**

- **3+ @ 850 - 950 nm**
- **4+ @ 950 - 1000 nm**
- **5+ @ 1000 - 1600 nm**
- **13+ @ 1064 nm**
- **5+ @ 1600 - 2400 nm**
- **5+ @ 2900 - 10600 nm**

**Application**

- **Cutting, Dermatology, Engraving, Industrial, Laser Surgery, Materials Processing, Medical, Military, Ophthalmology, Range Finder, Skin Rejuvenation, Veterinary**

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**T5B01**

- **Lasers**: Diode Nd:YAG (2H)/(KTP)
- **Application**: Alignment, Research, Telecommunications

**Color**

- **Gray**

**VLT**

- **1%**

**P5B01**

- **Lasers**: Nd:YAG (2H)/(KTP)
- **Application**: Alignment

**Color**

- **Orange**

**VLT**

- **54%**

**P5B02**

- **Lasers**: He Ne
- **Application**: Alignment

**Color**

- **Orange**

**VLT**

- **49%**

**P5B03**

- **Lasers**: Nd:YAG (2H)/(KTP)
- **Application**: Alignment

**Color**

- **Blue**

**VLT**

- **67%**

**P4B05**

- **Lasers**: Ce Available
- **Application**: Alignment

**Color**

- **Blue**

**VLT**

- **42%**

**OD**

- **2 @ 400 - 650 nm**
- **1.5 @ 650 - 700 nm**
- **1+ @ 400 - 700 nm**
- **1 @ 532 nm**
- **2 @ 532 nm**
- **1 @ 633 nm**
- **650 - <660 DIR LB2 (OD 2+)**
- **660 - <665 DIR LB3 (OD 3+)**
- **665 - <670 DIR LB4 (OD 4+)**
- **670 - 680 DIR LB 5 + IR LB 7 (OD 7+)**
- **610 - 650 0,1W 2x10E-5J RB2 (OD 2-3)**
- **LV CE**

---

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LASER SAFETY - FILTER REFERENCE CHART

Optical Density (OD)

UV

Visible

Class Filters

Standard OD Markings

OD 6+ @ 690-1300 nm
OD 8+ @ 1064 nm
OD 7+ @ 1000-1600 nm
OD 5+ @ 1600-2400 nm
OD 5+ @ 2900-10600 nm

OD 6+ @ 940-1065 nm
OD 4+ @ 1065-1080 nm
OD 3+ @ 2750-3000 nm

Copper Vapor

OD 9+ OD 8+ OD 7+ OD 6+ OD 5+ OD 4+ OD 3+ OD 2+ OD 1+

665 - <670 DIR LB4 (OD 4+) 670 - 680 D LB 5 +IR LB7 (OD7+)

Filter Key

Nanospec/Thin Film

Alignment

Glass

Glass Filters Standard OD Markings

LASER SAFETY  -  FILTER REFERENCE CHART

T00750

VLT

P5G02

P5N01

P5D05

P5D03

P5D04

P5D07

P4B05

VLT

P5B01

P5K02

P5P02

P5K02

P5P06

P5P05

P5P04

P5P01

VLT

P5P10

P5P10

P5P03

P5C04

VLT

T5H05

T5H03

T5B06

T5K07

T5K11

P5E02

P5E03

P5L07

P5F01

VLT

65%

VLT

8%

VLT

90%

VLT

8%

VLT

35%

6%

40%

VLT

46%

40%

42%

VLT

54%

VLT

VLT

1%

VLT

88%

VLT

77%

60%

60%

12%

VLT

88%

29%

11%

91%

80%

VLT

VLT

10%

65%

40%

100%

71%

23%

4%

VLT

29%

1%

10%

40%

85%

23%

4%

VLT

10%

40%

85%

23%

4%

VLT

10%

40%

85%

23%

4%

VLT

10%

40%

85%

23%

4%

VLT

10%

40%

85%

23%

4%
Laservision has developed a complete line of **Large Area Laser Protection** systems including curtains, panels, windows, signs, interlocks, enclosures, and roller shades.

### Laser Safety Panels and Curtains

- **Portable Panels**
- **Portable Curtains**
- **Wall to wall curtain**
- **Optical table with custom removable laser safety panels**
- **Window and panel enclosures** are custom made to your laser application
- **Roller shades** are custom designed to your windows
We tailor our laser safety barriers to your needs!

Custom Laser Safety Curtains
Laservision has Certified Laser Safety Officers on staff who can help you draw up your design and room layout in our CAD software. We tailor laser safety curtains to your needs with fast lead time!

NEW Get a Laser Safety Curtain Quote Online!
Online quote is the quickest way to order a custom laser curtain system. You can select the options that fit your needs best and submit them for a quote.

NEW Contact us for In-Stock Laser Safety Curtains, ready to ship, 58” x 96” size curtains. Multiple curtains can be easily connected to build a system for your needs.

Optical Table Curtain
Floor-Mounted Curtain
Optional Sign Pocket
Ceiling Suspended Curtain
Laservision curtain material features different protection levels, cleanroom, and **ESD options. Our laser safety curtains are tested to ANSI Z136.1 standards.

### Curtain Material Specifications

<table>
<thead>
<tr>
<th>Image</th>
<th>Material</th>
<th>Maximum Irradiance Level / Exposure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>F5P01 / F5P02 / F5P06: Charcoal black color fiberglass-based fabric with rubberized silicone coating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F5P01 2 Layers</td>
<td>200 W/cm²  100 sec.</td>
<td></td>
</tr>
<tr>
<td>F5P02 3 Layers  *Silica woven inner layer</td>
<td>300 W/cm²  100 sec.</td>
<td></td>
</tr>
<tr>
<td>F5P06 1 Layer</td>
<td>100 W/cm²  100 sec.</td>
<td></td>
</tr>
<tr>
<td>F5P03 / F5P05: CLEANROOM SERIES  Black PTFE-coated fiberglass-based fabric with antistatic properties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F5P03 2 Layers</td>
<td>20 W/cm²  100 sec.</td>
<td></td>
</tr>
<tr>
<td>F5P05 3 Layers  *Silica woven inner layer</td>
<td>200 W/cm²  100 sec.</td>
<td></td>
</tr>
</tbody>
</table>

Also available:

- **Blackout curtains/shades: F5P09**  Non-laser-rated custom curtains/shades provide 100% blackout solutions for your lab or commercial application
- **EN-rated curtains:**  Built to EN 60825-4 specifications

### Curtain Tracks, Hardware, and Accessories

Mounting hardware is designed to minimize installation and maintenance labor. Industrial grade, tough galvanized steel hardware is our standard mounting hardware solution.

Some of the accessories and hardware options include:

- **Interlock**
- **Black powder coating of the hardware**
- **Laser safety windows for viewing**

- **Steel wheel trolleys**
- **Grommets & fasteners**
- **Sign pockets**
Laservision panels are strong, lightweight, and maintenance-free. Panels do not swell, corrode, chip, flake, or peel. Standard panel color is matte black. Additional colors: red, white, yellow, blue, and bronze.

### M5P06 Panel Material Specifications

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Maximum Irradiance</th>
<th>Duration in Seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>810 nm</td>
<td>1,500 W/cm²</td>
<td>100</td>
</tr>
<tr>
<td>1064 nm</td>
<td>2,500 W/cm²</td>
<td>100</td>
</tr>
<tr>
<td>10600 nm</td>
<td>10,000 W/cm²</td>
<td>100</td>
</tr>
</tbody>
</table>

- **Panel Size:** 4’ x 8’ Standard - Cut to custom sizes
- **Thickness:** 0.232” + 1/32”
- **Weight:** 0.78 lb/ft²
- **Fire Rating:** ASTM E84: Class A frame spread rating

### Multi-Panel Portable Barriers

Portable, lightweight, foldable barrier system, equipped with unique 360˚ hinges, allows each panel to turn in any direction or angle vertically. Made in 3, 5, 7, and 9 panels at 6’10” height. Another barrier option extends in a straight line, and is available in 3, 5, and 7 panels,

### Custom Framed Barriers

These systems are custom-made to your laser containment requirements. Constructed with lightweight panels or curtains in a heavy duty black anodized frame design with or without wheels.
Laservision offers a wide variety of windows which are ideal for safe viewing of lasers from outside the nominal hazard zone. Acrylic, polycarbonate, and glass windows can be customized to different sizes, based on your laser applications. Windows can be designed for most laser environments including doors, rooms, curtains, and enclosures.

<table>
<thead>
<tr>
<th>Model</th>
<th>Wavelengths</th>
<th>Material</th>
<th>Color</th>
<th>VLT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSP01</td>
<td>OD 6+ @ 180 - 315 nm OD 5+ @ 315 - 420 nm OD 5+ @ 590 - 820 nm OD 4+ @ 820 - 850 nm OD 4+ @ 850 - 940 nm OD 4+ @ 940 - 1065 nm OD 4+ @ 1065 - 1080 nm OD 3+ @ 2750 - 3000 nm</td>
<td>Acrylic</td>
<td>Light Green</td>
<td>65%</td>
</tr>
<tr>
<td>P5G02</td>
<td>OD 5+ @ 190 - 375 nm OD 6+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Light Yellow</td>
<td>92%</td>
</tr>
<tr>
<td>P5P04</td>
<td>OD 5+ @ 190 - 375 nm OD 6+ @ 694 nm OD 6+ @ 670 - 710 nm OD 5+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Light Blue</td>
<td>46%</td>
</tr>
<tr>
<td>P5P05</td>
<td>OD 5+ @ 190 - 375 nm OD 6+ @ 900 - 950 nm OD 7+ @ 950 - 1085 nm OD 5+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Green</td>
<td>40%</td>
</tr>
<tr>
<td>P5P06</td>
<td>OD 5+ @ 190 - 375 nm OD 4+ @ 375 - 532 nm OD 6+ @ 900 - 1070 nm OD 5+ @ 1064 nm OD 5+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Brown</td>
<td>6%</td>
</tr>
<tr>
<td>P5N01</td>
<td>OD 5+ @ 190 - 375 nm OD 4+ @ 375 - 532 nm OD 6+ @ 532 nm OD 5+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Orange</td>
<td>35%</td>
</tr>
<tr>
<td>P5P07</td>
<td>OD 6+ @ 200 - 410 nm OD 4+ @ 640 - 1106 nm OD 4+ @ 680 - 1080 nm OD 6+ @ 692 - 1064 nm OD 5+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Pink</td>
<td>8%</td>
</tr>
<tr>
<td>P5K02</td>
<td>OD 4+ @ 760 - 820 nm</td>
<td>Acrylic</td>
<td>Pink</td>
<td>8%</td>
</tr>
<tr>
<td>P5P10</td>
<td>OD 10+ @ 180 - 315 nm OD 8+ @ 315 - 385 nm OD 6+ @ 385 - 460 nm OD 4+ @ 460 - 532 nm OD 3+ @ 532 - 650 nm OD 3+ @ 650 - 800 nm OD 4+ @ 800 - 940 nm OD 5+ @ 940 - 1065 nm OD 6+ @ 1065 - 1080 nm OD 3+ @ 2750 - 3000 nm</td>
<td>Polycarbonate</td>
<td>Blue</td>
<td>16%</td>
</tr>
<tr>
<td>P5D05</td>
<td>OD 6+ @ 10600 nm</td>
<td>Acrylic</td>
<td>Clear</td>
<td>90%</td>
</tr>
</tbody>
</table>
Face shields are lightweight, durable, heat and cold resistant material, that provides the maximum eye and face protection. Providing an adjustable head piece for versatility and comfort.
Caution, Danger, and Notice signs keep personnel aware within laser environments. Standard/Custom formats are available including options for Spanish and other languages.

- Certified for diode and Nd:YAG (800...1100 nm)
- Tested at 4.7 W/ cm² against laser radiation of 1064 nm wavelength before exceeding the M.P.E. Skin-Value
- Durable and comfortable
- Coating of the finger tips and palm protects delicate laser optics and optical elements from sweat and other liquids
Since 2009, Laser Safety Academy provides up-to-date comprehensive laser safety training, auditing, and consulting services for all laser users.

Online Training - www.academy.lasersafety.com

Laser Safety: Awareness (LSA) Officer (LSO)
Medical Laser Safety: Awareness (MLSA) Officer (MLSO)

Laser Safety Corporate Subscriptions: Online training for you and your entire staff for a year!

Classroom Training

Taught by Certified Laser Safety Officers (CLSOs). Training is designed to address laser safety issues and present methods for controlling laser hazards according to ANSI Z136.1 “Safe use of Lasers” standard and ANSI Z136.3 “Safe use of Lasers in Health Care Facilities” standard.

Laser Safety Training Tours
- Training in a city near you
- Check website for updated dates

Custom Laser Safety Training
We offer training at your location. This option allows you to train your entire staff at one time while saving time and money.

5 Reasons to Train with the Laser Safety Academy
1. Options for one-on-one, classroom or online training
2. Custom-tailored training for all situations
3. Professionally designed & organized training material
4. Competitive pricing
5. Training awarded (CM points by ABIH) and (CEC’s by AAHP)

Professional Services

LASER SAFETY: Audits / Consulting / Compliance / Regulatory Approvals / Custom Training / Room Layout & CAD

Laservision offers professional auditing and consulting services to make sure you are in compliance with OSHA, ANSI, and JACHO. Contact us for help to start up your own laser safety program.
Medical Laser Safety

Laservision developed a line of innovative laser safety products for doctors, nurses, medical staff, and their patients in laser surgery, dentistry, dermatology, and veterinary medicine.

Intense Pulse Light (IPL) Eyewear

**F04.P5IPLH.5000**

- Advanced technology that automatically darkens with IPL flash to protect your eyes, eliminate eye strain, and to prevent headaches.

---

**F22.P5L04.5000**

- The gray IPL eyewear provides excellent color recognition which is ideal for cosmetic applications
- Lightweight design that fits over prescription eyewear
- Innovative flex temples with hinges.

**F22.P5L05.5000**

- Gray Shade 3
- Gray Shade 5

---

**F.4.P5IPL3.5000**

- Lightweight design that fits over prescription eyewear
- For IPL or other high brightness non-coherent light sources

**F.4.P5IPL5.5000**

- Green Shade 3
- Green Shade 5

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Holmium Eyewear  
See page 9 for Filter specifications

**Lightweight Clear Filter - P5D07**

- First and only polycarbonate eyewear for Holmium laser (2100 nm)
- 3 times lighter versus glass
- Clear filter with high VLT, helps reduce eye fatigue
- Anti-fog coated
- Frame options: F07, F09, F16, F18, F22, F24, F70
We protect your eyes

Veterinary Protection

Veterinarian Eyewear
Eyewear specifically created for veterinarians who perform laser therapy at their clinic.

Laser Safety DOGGLES®
Product is designed to protect animal’s eyes from laser exposure during laser therapy. Available in three sizes to fit most pets from a small cat to a large dog.

Laser Safety Guardian Equine Mask
This mask is created to protect equine patients’ eyes from laser exposure during laser therapy. Available in three sizes to fit most horses.

Patient Protection

NEW

Silicone Eye Shields
- High Protection rating
- Comfortable to wear with flexible nose bridge and strap
- Re-usable self-adhesive eye caps
- Bridge moves to allow treatment of the nose

Specifications - CE Certified

<table>
<thead>
<tr>
<th>wavelengths (nm)</th>
<th>D LB9 + R LB3</th>
</tr>
</thead>
<tbody>
<tr>
<td>180-315</td>
<td>D LB10 + LB5 + M LB6</td>
</tr>
<tr>
<td>315-1400</td>
<td>D LB6 + IR LB9 + M LB7</td>
</tr>
<tr>
<td>&gt;1400-11500</td>
<td>D LB6 + IR LB9 + M LB7</td>
</tr>
</tbody>
</table>

Stainless Steel Eye Shields
- Adjustable nose piece
- Non-reflective stainless steel
- Easy to clean and strong to last

Specifications - CE Certified

<table>
<thead>
<tr>
<th>wavelengths (nm)</th>
<th>D LB9 + R LB3</th>
</tr>
</thead>
<tbody>
<tr>
<td>180-315</td>
<td>D LB9 + R LB3</td>
</tr>
<tr>
<td>315-1400</td>
<td>D LB6 + IR LB7</td>
</tr>
<tr>
<td>&gt;1400-11600</td>
<td>D LB6 + IR LB9</td>
</tr>
</tbody>
</table>

lasersafety.com