

laservision®

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WE PROTECT YOUR EYES

laservision®

Rapid advancement of laser technology is making laser safety of greater importance than ever before. New lasers in medicine, defense, research and industry present unique challenges for safety and personal protection.

Laservision USA, part of UVEX Safety Group, is committed to offer you the best and most innovative laser safety protection. This catalogue highlights our commonly-used filters. We have the ability to design custom filters as well. If you have a laser safety need that is not met by one of our standard filters featured here, please contact us. We would be happy to assist you in any way we can.

LASER SAFETY EYEWEAR - CATALOG

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6 Frame Styles

18 Glass and Thin Film Coated Filters

34 Polycarbonate Filters

54 Alignment Filters

55 Medical Filters and Eyewear

WE PROTECT YOUR EYES

Frames and Filters

Maximum laser protection and optimal comfort, packaged together with a stylish design:

- Filters with high Optical Density (OD)
- ANSI and CE certified
- Wide selection: 2,000+ custom filters
- Customized modifications available



Glass / Thin-Film Coated Filters *page 18*

Industry leader in glass filters. Produced at our advanced facility in MN. Provide high OD and superior scratch resistance.

Thin-Film

Provides multi-wavelength and narrow band protection options, offering high OD and Visual Light Transmission (VLT) specifications.



Polycarbonate Filters *page 34*

Advanced collection of polycarbonate filters that are lightweight and more economical.



Alignment Filters *page 54*

Developed for laser operators, technicians, engineers, maintenance and service personnel who need to safely observe light emitted from visible lasers (400nm-700nm) while performing critical alignment procedures.



Medical and Patient Safety *page 55*

Laser safety options for **Surgeons, Dentists, Dermatologists, Veterinarians, and Patients.**

- Application-specific filters for medical lasers
- Aesthetic and IPL laser safety
- **Medical Laser Safety Officer** and awareness training - Available both online or in-person. Hosted at your hospital, medical facility, spa or clinic
- Auditing and consulting services
- Laser safety for pets and horses

laservision

Our brand vision

As one of the leading manufacturers of laser safety products, we want to secure and further develop our position through innovative products and services, based on the precise needs of customers. Protecting eyes from artificial optical radiation is our core mission. With our high level of expertise, new ideas and a passionate dedication we will continuously meet this challenge.



Customers must be able to completely rely on laservision.

Our manufacturing expertise throughout the entire process allows us to guarantee high-quality and reliable products, as well as advisory expertise and a personal service. We operate according to three core brand values to ensure we meet the highest standards of safety and reliability at all times.

Innovation

Laservision delivers reliable eye protection against laser radiation. Rapid advancements in laser technology mean that we are constantly facing new challenges, which we overcome with innovative products and services. Comprehensive expertise, longstanding experience and a motivated team are the perfect combination to ensure the continued advancement of exceptional innovation at Laservision. In this way, we can stay true to the mission of **"We protect your eyes"**.

Quality

Since 1987, the name Laservision has been synonymous with first-class quality you can rely on. Our well-established technology and development expertise ensures that our innovative products are a step ahead when it comes to quality. The highest quality standards apply to our laser protection products. ISO-certified processes guarantee the reliability, precision and durability of Laservision products at all times. Uncompromising quality is essential, especially in the highly sensitive area of laser protection. The Laservision brand will continue to meet this requirement with innovative, reliable and high-quality products.

Customer Orientation

We understand the precise needs of our customers. This knowledge forms the basis and focus of our work. By request, we develop and manufacture customer-specific laser protection products in close collaboration with independent certification bodies. From individual product development to qualified advisory services, protection of health is the core focus at Laservision, in line with the uvex group's brand mission: protecting people. Custom focus is an important part of our brand values.

Our product and services

Your worldwide **LASER SAFETY** expert for more than thirty years. We specialize in cutting-edge design, innovation, development and manufacturing of laser protective technologies. Laserservision offers a full-array of laser safety products in addition to our large area protection, keeping you safe from laser applications in medical, research, industrial, manufacturing fields and more.



Eyewear & Filters (Individuals and Patients)

Created to provide safety, comfort and style that everyone can enjoy wearing. Offering the widest selection of filters (over 2,000+ Glass and Polycarbonate, including custom options) with the highest Optical Density (OD).



Barriers (Curtains, Panels and Enclosures)

Complete line of laser protection systems with well-adapted accessories tested to withstand a variety of laser output parameters. Barrier frames are designed to reduce specular reflections and are supported by heavy-duty hardware that can be mounted or portable to meet your specifications. Curtains and panels can be custom ordered to fit any space.



Windows

Large selection that can be customized to facilitate most laser environments including doors, rooms, walls, laser systems and enclosures. The ultimate protection is our Active Window that will automatically shut down when a laser beam comes in contact with it.



Training & Audits (Online or face-to-face)

Laser Safety Officer or Awareness training taught and created by a Board of Laser Safety Certified professionals (CLSO's), designed to address safety issues and present methods for controlling laser hazards. We have options for medical, manufacturing, industrial, engineering, military, research labs and universities. Custom training options are available. Contact us for laser safety audits and regulatory approval assistance to be in compliance and avoid accidents and penalties with OSHA and ANSI.

Frame Styles

F01

- Lightweight frame
- Soft earpieces provide extra comfort
- Optional prescription insert
- Duoflex temples - height and angle adjustable



F01 Frame Specifications

Lens Width	52 mm
Lens Height	38 mm
Distance Between Lenses	26 mm
Frame Height	45 mm
Frame Length	140 - 150 mm
Frame Width	135 mm
Temple Length	110 - 130 mm
Temple Angle Adjustment	12°

F02

- Large lens size for greater field of view
- Soft temple earpieces for comfort
- Duoflex temples - height and angle adjustable



F02 Frame Specifications

Lens Width	61 mm
Lens Height	49 mm
Distance Between Lenses	13 mm
Frame Height	55 mm
Frame Length	130 - 141 mm
Frame Width	146 mm
Temple Length	87 - 107 mm
Temple Angle Adjustment	12°

R10

- Heavy-duty, metal-reinforced frame
- Fits over most prescription eyewear
- Duoflex temples - height and angle adjustable



R10 Frame Specifications

Lens Width	66 mm
Lens Height	50 mm
Distance Between Lenses	12 mm
Frame Height	59 mm
Frame Length	130 - 149 mm
Frame Width	155 mm
Temple Length	110 - 128 mm
Temple Angle Adjustment	12°



Prescription Insert

A01.RX

Available for:
F01 only



Temple Options

A02.STRAP

Alternative solution for Duoflex temples to fit different head shapes

- Elastic head strap – fully adjustable
- Malleable temples – bend to fit

Available for:

F01

F02

R10



Head Support System

A01.HSUPS.1000

Spreads the weight of heavier filters over the head and removes the pressure from nose, ear and head. Two rotary adjustment knobs allow an easy fitting.

Available for:

F01

F02

R10



Frame Styles

F07

- Wide fit-over style and lightweight
- Stylish bronze color
- Adjustable ear piece allows quick and easy manual adjustment

F07 Frame Specifications

Lens Width	64 mm
Lens Height	46 mm
Distance Between Lenses	16 mm
Frame Height	44 mm
Frame Length	157 mm
Frame Width	148 mm
Temple Length	118 mm



F09

- Large, lightweight, fit-over style
- Adjustable ear piece allows quick and easy manual adjustment

F09 Frame Specifications

Lens Width	62 mm
Lens Height	50 mm
Distance Between Lenses	17 mm
Frame Height	54 mm
Frame Length	157 mm
Frame Width	147 mm
Temple Length	125 mm

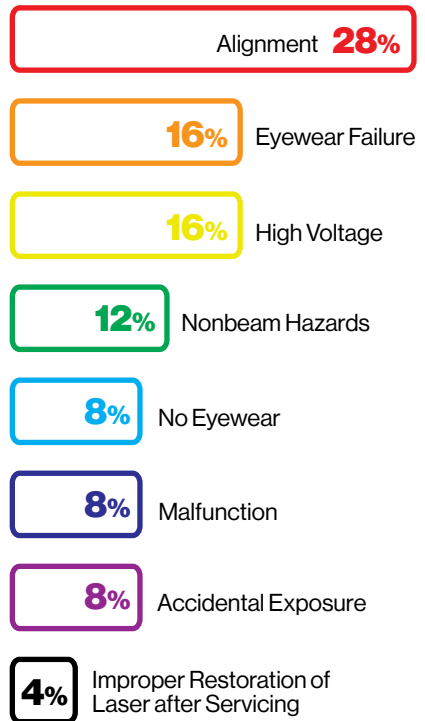




LASER ACCIDENTS

Most laser accidents occur because adequate control measures are not in place. For example, performing procedures without laser safety eyewear or wearing the wrong eyewear for the laser used. This chart summarizes the causes of most accidents while using lasers.

Causes of Laser Accidents Percentage of Occurrence



Selection from the book
Fundamentals of Photonics 2008
Author: Chandrasekhar Roychoudhuri
©2008 Society of Photo-Optical Instrumentation
Engineers DOI: 10.1117/3.784938.ch2

Frame Styles

F12

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

F12 Frame Specifications

Lens Width	65 mm
Lens Height	52 mm
Distance Between Lenses	18 mm
Frame Height	72 mm
Frame Length	Adjustable
Frame Width	187 mm
Temple Length	Adjustable



F14 / R14

- Padded goggle rim provides extra comfort
- Adjustable elastic strap
- Optional anti-fog insert accessory
- Optional metal-reinforced version as R14
- Foam and rubber seal included with eyewear

F14 / R14 Frame Specifications

Lens Width	66 mm
Lens Height	45 mm
Distance Between Lenses	12 mm
Frame Height	80 mm
Frame Length	Adjustable
Frame Width	160 mm
Temple Length	Adjustable





F14 / R14 Accessories

Cushion Foam Seal

A14.FORUB.1000

Foam lining provides a more comfortable fit, especially for users with prescription eyewear. The Foam Seal easily snaps on to the F14 / R14 frame.

Sold in a pack of 5



Cushion Rubber Seal

A14.LIPSE.1000

The rubber lip seal is convenient in particular for visitor use. It snaps easily onto the F14 / R14 frame.

Sold in a pack of 5



Anti-Fog Inserts

A14.FAFS

To prevent fogging, these special plastic sheets are coated with nanoparticles that absorb humidity.



Replacement Strap

A14.STRAP



Frame Styles

F16

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

F16 Frame Specifications

Lens Width	70 mm
Lens Height	41 mm
Distance Between Lenses	14 mm
Frame Height	45 mm
Frame Length	117 - 135 mm
Frame Width	141 mm
Temple Length	109 - 125 mm
Temple Angle Adjustment	12°



“I want to ensure my eyes and my patient’s are safe when I perform laser treatments.”



F18

- Innovative design with optimal field of view
- Fits over prescription eyewear
- Comfortable soft grip tips for a safe, stable pressure free fit
- Flex temple - bendable hold with side arm grips to fit a variety of face shapes



F18 Frame Specifications

Lens Width	155 mm
Lens Height	35 mm
Distance Between Lenses	NA
Frame Height	35 mm
Frame Length	155 mm
Frame Width	154 mm
Temple Length	110 mm



Side Protection

Optimal field of view with room for prescription eyewear.

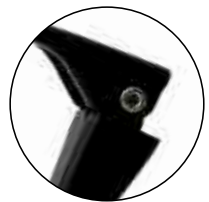
F22

- Innovative design with optimal field of view
- Fits over prescription eyewear
- Comfortable soft grip tips for a safe, stable pressure free fit
- Conventional temple - traditional fold with flex side arm grips for a custom fit



F22 Frame Specifications

Lens Width	155 mm
Lens Height	35 mm
Distance Between Lenses	NA
Frame Height	35 mm
Frame Length	155 mm
Frame Width	154 mm
Temple Length	110 mm



Fold-in temple

Convenient hinge compared to the flex temple (F18). More control when opening and closing..

Frame Styles

F19 Black

- Lightweight frame
- Durable with soft nose cushion for comfort
- Available in three colors

F19 / F20 / F21 Frame Specifications

Lens Width	55 mm
Lens Height	35 mm
Distance Between Lenses	16 mm
Frame Height	40 mm
Frame Length	150 mm
Frame Width	140 mm
Temple Length	120 mm



F20 White



F21 Steel Blue



“My college lab instructor promotes laser safety everyday.”

F24

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

F24 Frame Specifications

Lens Width	66 mm
Lens Height	38 mm
Distance Between Lenses	16 mm
Frame Height	43 mm
Frame Length	165 mm
Frame Width	140 mm
Temple Length	115 mm



Sculpted Pad Insert

Eyewear includes soft foam pad for a comfortable fit around the face.

F25

- White clean dynamic look
- Lightweight strong material
- Hypoallergenic soft material nose pads and temple ends for comfort and stabilizing grip

F25 Frame Specifications

Lens Width	63 mm
Lens Height	37 mm
Distance Between Lenses	15 mm
Frame Height	43 mm
Frame Length	166 mm
Frame Width	160 mm
Temple Length	125 mm



Rubber Nose Pad

Adjustable nose design provides pressure-free non-slip fit.

Frame Styles

F29

- Adjustable sidearms
- Large lens for greater field of view
- Light weight and good face fit for comfort
- Softflex nose material
- Temple inclination to five positions
- Completely metal free



F29 Frame Specifications

Lens Width	68 mm
Lens Height	45 mm
Distance Between Lenses	9 mm
Frame Height	47 mm
Frame Length	152 mm
Frame Width	150 mm
Temple Length	114 mm
Temple Angle Adjustment	12°



Softflex Nose

Material is non-slip and adjusts to your face

F30 Smoky White

- Large lens for greater field of view
- Low weight and good face fit for comfort
- Flexible / Adjustable rubber temples
- Fits over most prescription eyewear



F30 Frame Specifications

Lens Width	62 mm
Lens Height	42 mm
Distance Between Lenses	16 mm
Frame Height	50 mm
Frame Length	160 - 170 mm
Frame Width	156 mm
Temple Length	112 - 116 mm



Soft Temples

Flexible and adjustable

F31 Grey



F32 White



Eyewear Filters

Glass and Thin Film Coated Filters

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T5A03 *Alignment*
 T5B01 *Alignment*
 T5B02
 T5B03 *Thin Film Coated*
 T5B05 *Thin Film Coated*
 T5B06
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 T5D02
 T5E02
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 T5K02
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 T5K12 *Thin Film Coated*
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 T1M01
 T1Q01
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Polycarbonate Filters

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 P5L10 *Alignment*
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 P5L13 *Alignment*
 P5M01
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 P5P10
 P1P10



T - Glass and Thin Film Coated Filters

Eyewear Filters - Glass

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

Absorbing glass filters are purchased from glass manufacturers in large uncut and unpolished sheets based on their technical performance specifications (i.e., transmittance, refractive index, reflection factors, etc.). Smaller filter glass squares are cut from these larger sheets and stacked on clay concave forms in a kiln for up to 24 hours where they are 'slumped' into an approximate base curvature. Once removed from the kiln they are polished to exact thickness, cut to required shape and the edges beveled to ensure a proper fit with various frame and goggle styles.



T5A03

Color: Light Yellow
Material: Glass
VLT: 85%



Optical Density (OD)
 OD 7+ @ 190 - 395 nm

Lasers

Excimer,
 Nd:YAG (4H)

Applications

Cutting,
 Drilling,
 Industrial,
 Marking,
 Ophthalmology,
 Research,
 Welding

Available Frames



T5B01

Color: Grey
Material: Glass
VLT: 1%



Optical Density (OD)
 OD 2 @ 400 - 650 nm
 OD 1.5 @ 650 - 700 nm

Lasers

Diode,
 Nd:YAG (2H)/(KTP)

Applications

Alignment,
 Research,

Available Frames



T - Glass and Thin Film Coated Filters

T5B02

Color: Light Grey
Material: Glass
VLT: 5%
Optical Density (OD)
 OD 1+ @ 400 - 700 nm



Lasers

Diode,
 Nd:YAG (2H)/(KTP)

Applications

Alignment,
 Research,

T5B03

Color: Purple
Material: Glass
VLT: 20%
Optical Density (OD)
 OD 6+ @ 530 - 535 nm



Lasers

Nd:YAG (4H)/(KTP)

Applications

Dermatology,
 Medical,
 Urology

Available Frames



Available Frames



Eyewear Filters - Glass Thin Film

Thin-film coated filters provide multi-wave and narrow band protection options. These filters provide high Optical Density (OD) and Visual Light Transmission (VLT) specifications. Laservision offers both glass and polycarbonate options.

Reflective or thin-film coating of protective laser eyewear is achieved by the same process as that used in producing various high-reflective (HR) or anti-reflective (AR) laser optics. This is done by applying physical vapor deposition (PVD) technology of dielectric materials upon suitable substrates. Precise ($\frac{1}{4}$ wavelength thickness) vapor deposition of alternate HI-LO index of refraction dielectric coatings is applied directly to absorptive polycarbonate or glass filter materials. This provides laser protection by reflective as well as absorptive properties. Thin-film protective laser eyewear is lightweight and has excellent VLT values.



T - Glass and Thin Film Coated Filters

T5B05

Color: Blue
Material: Glass
VLT: 27%



Optical Density (OD)
 OD 3+ @ 560 - 570 nm
 OD 5+ @ 570 - 650 nm

Lasers

Diode,
 Dye,

Applications

Aesthetics,
 Dermatology

Available Frames

F01



F14



T5B06

Color: Clear
Material: Glass
VLT: 1%



Optical Density (OD)
 OD 6+ @ 510 - 680 nm

Lasers

Argon,
 He Ne,
 Nd:YAG (KTP, 2H)

Applications

Medical,
 Research,
 Urology

Available Frames

F01



F02



R10



F07



F09



F12



F14



F19



F20



F21



F24



F30



F31



F32



T5B07

Color: Purple
Material: Glass
VLT: 29%



Optical Density (OD)
 OD 3+ @ 570 - 595 nm
 OD 6+ @ 583 - 590 nm

Lasers

Diode,
 Dye

Applications

Medical,
 Research,
 Urology

T5D02

Color: Clear
Material: Glass
VLT: 90%



Optical Density (OD)
 OD 6+ @ 10600 nm

Lasers

CO₂

Applications

Cutting,
 Dermabrasion,
 Dermatology,
 Industrial,
 Laser Surgery,
 LIDAR,
 Medical,
 Military,
 Research,
 Welding

Available Frames



Available Frames



T - Glass and Thin Film Coated Filters

T5E02

Color: Orange

Material: Glass

VLT: 40%

Optical Density (OD)

OD 9+ @ 180 - 315 nm

OD 8+ @ 315 - 532 nm



Lasers

Argon,
Excimer,
Nd:YAG (2H)/(KTP),
Nd:YAG (3H),
Nd:YAG (4H)

Applications

Dermatology,
Research,
Urology,

T5E04

Color: Yellow

Material: Glass

VLT: 84%

Optical Density (OD)

OD 7+ @ 190 - 450 nm



Lasers

Excimer, Nd:YAG (4H)

Applications

Drilling,
Industrial,
Laser Resurfacing,
Ophthalmology,
Research,

Available Frames



Available Frames



T5E06

Color: Red
Material: Glass
VLT: 10%



Optical Density (OD)

OD 7+ @ 190 - 565 nm
OD 5+ @ 565 - 578 nm

Lasers

Argon,
Diode,
Excimer,
Nd:YAG (2H)/(KTP),
Nd:YAG (3H),
Nd:YAG (4H)

Applications

Medical,
Research,
Urology

Available Frames

F01



F12



F14



T - Glass and Thin Film Coated Filters

T5H03

Color: Blue
Material: Glass
VLT: 22%



Optical Density (OD)
 OD 4+ @ 630 - 690 nm
 OD 7+ @ 690 - 970 nm
 OD 5+ @ 970 - 1100 nm

Lasers

Alexandrite,
 Diode,
 Disk,
 Fiber,
 Nd:YAG, Ruby,
 Ti:Sapphire

Applications

Cutting,
 Dermatology,
 Skin Rejuvenation,
 Tattoo Removal,
 Welding

Available Frames



T5H04

Color: Blue
Material: Glass
VLT: 47%



Optical Density (OD)
 OD 2+ @ 630 - 650 nm
 OD 3+ @ 650 - 690 nm
 OD 6+ @ 690 - 1300 nm
 OD 8+ @ 1064 nm

Lasers

Alexandrite,
 Diode,
 Disk,
 Dye,
 Fiber,
 He Ne,
 Nd:YAG,
 Ruby,
 Ti:Sapphire

Applications

Dermatology,
 Industrial,
 Material Processing,
 Medical Device Manufacturing,
 Research
 Skin Rejuvenation,
 Tattoo Removal,

Available Frames



T5H05

Color: Green-Blue
Material: Glass
VLT: 47%



Optical Density (OD)

OD 2+ @ 630 - 650 nm
 OD 3+ @ 650 - 690 nm
 OD 6+ @ 690 - 1300 nm
 OD 8+ @ 1000 - 1100 nm

Lasers

Alexandrite,
 Diode,
 Disk,
 Dye,
 He Ne,
 Nd:YAG,
 Ruby,
 Ti:Sapphire

Applications

Dermatology,
 Industrial,
 Material Processing,
 Medical Device Manufacturing,
 Research
 Skin Rejuvenation,
 Tattoo Removal,

Available Frames



T - Glass and Thin Film Coated Filters

T5K02

Color: Clear
Material: Glass
VLT: 71%



Optical Density (OD)

OD 3+ @ 850 - 900 nm
 OD 4+ @ 900 - 950 nm
 OD 5+ @ 950 - 1000 nm
 OD 7+ @ 1000 - 1600 nm
 OD 5+ @ 1600 - 2400 nm
 OD 5+ @ 2900 - 10600 nm

Lasers

CO₂, Er:YAG,
 Diode, Fiber,
 Disk, Ho:YAG,
 Dye, Nd:YAG

Applications

Industrial,
 Dermabrasion,
 Dermatology,
 Dental,
 Laser Resurfacing,
 LIDAR,
 Material Processing,
 Medical Device Manufacturing,
 Medical, Laser Surgery,
 Military,
 Research,
 Urology,
 Veterinary

Available Frames



T2K02

Color: Clear
Material: Glass
VLT: 71%



Optical Density (OD)

850 - 900 DIRM LB3 (OD 3+)
 >900 - 950 DIRM LB4 (OD 4+)
 >950 - <980 DIRM LB 5 (OD 5+)
 980 - 1030 D LB 6 + IR LB7 + M LB7Y (OD 7+)
 1030 - 1400 D LB 6 + IR LB8 + M LB8Y (OD 8+)
 >1400 - 11500 DIR LB 4 (OD 4+)
 LV CE

Lasers

CO₂,
 Diode,
 Disc,
 Er:YAG,
 Fiber,
 Ho:YAG,
 Nd:YAG,

Applications

Industrial,
 LIDAR,
 Laser Resurfacing,
 Laser Surgery,
 Manufacturing,
 Material Processing,
 Medical,
 Military,
 Research,

Available Frames



T5K04

Color: Light Grey
Material: Glass
VLT: 77%



Optical Density (OD)

OD 3+ @ 850 - 950 nm
 OD 4+ @ 900 - 950 nm
 OD 5+ @ 950 - 1000 nm
 OD 7+ @ 1000 - 1600 nm
 OD 13+ @ 1064 nm
 OD 5+ @ 1600 - 2400 nm
 OD 5+ @ 2900 - 10600 nm

Lasers

Alexandrite, Ho:YAG,
 Diode, Nd:YAG,
 Disk, Ti:Sapphire
 Er:YAG,

Applications

Cutting,
 Dermatology,
 Engraving,
 Industrial,
 Laser Surgery,
 Materials Processing,
 Medical,
 Military,
 Ophthalmology,
 Skin Rejuvenation,
 Veterinary

Available Frames



T5K07

Color: Blue-Green
Material: Glass
VLT: 60%



Optical Density (OD)

OD 7+ @ 740 - 770 nm
 OD 3+ @ 850 - 900 nm
 OD 4+ @ 900 - 950 nm
 OD 5+ @ 950 - 1000 nm
 OD 7+ @ 1000 - 1600 nm
 OD 5+ @ 1600 - 2400 nm
 OD 5+ @ 2900 - 10600 nm

Lasers

Alexandrite,
 Diode,
 Disk,
 Er:YAG,
 Fiber,
 Ho:YAG,
 Nd:YAG,
 Ti:Sapphire

Applications

Dermatology,
 Hair Removal,
 Industrial,
 Materials Processing,
 Medical Device Manufacturing,
 Surgery,
 Tattoo Removal,

Available Frames



T - Glass and Thin Film Coated Filters

T5K08

Color: Purple
Material: Glass
VLT: 12%



Optical Density (OD)

OD 6+ @ 532 nm
 OD 3+ @ 850 - 900 nm
 OD 4+ @ 900 - 950 nm
 OD 5+ @ 950 - 1000 nm
 OD 7+ @ 1000 - 1600 nm
 OD 5+ @ 1600 - 2400 nm
 OD 5+ @ 2900 - 10600 nm

Lasers

Diode,
 Disk,
 Fiber,
 Nd:YAG,
 Nd:YAG (2H)/(KTP)

Applications

Cutting,
 Dermatology,
 Industrial,
 Medical,
 Research,
 Urology,
 Welding

Available Frames



T5K11

Color: Clear
Material: Glass
VLT: 60%



Optical Density (OD)

OD 5+ @ 780 - 800 nm
 OD 7+ @ 800 - 860 nm
 OD 3+ @ 860 - 900 nm
 OD 4+ @ 900 - 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

Lasers

Alexandrite,
 Diode,
 Disk,
 Er:YAG,
 Ho:YAG,
 Nd:YAG,
 Ti:Sapphire

Applications

Cutting,
 Dermatology,
 Engraving,
 Industrial,
 Marking,
 Material Processing,
 Medical,
 Military,
 Ophthalmology,
 Research,
 Skin Rejuvenation,
 Surgery,
 Veterinary

Available Frames



T5K12

Color: Blue-Green
Material: Glass
VLT: 49%



Optical Density (OD)

OD 6+ @ 694 nm
 OD 3+ @ 850 - 900 nm
 OD 4+ @ 900 - 950 nm
 OD 5+ @ 950 - 1000 nm
 OD 7+ @ 1000 - 1600 nm
 OD 5+ @ 1600 - 2400 nm
 OD 5+ @ 2900 - 10600 nm

Lasers

Alexandrite,	He Ne (Helium-neon),
Argon,	Ho:YAG (Holmium YAG),
Diode,	Nd:YAG,
Disk,	Nd:YAG (KTP, 2H),
Dye,	Nd:YAG (3H),
Er:YAG (Erbium YAG),	Nd:YAG (4H),
Excimer,	Ruby,
	Ti:Sapphire

Applications

Dermatology,
 Hair Removal,
 Industrial,
 Materials Processing,
 Medical Device Manufacturing,
 Surgery,
 Tattoo Removal

Available Frames



T5L03

Color: Brown
Material: Glass
VLT: 4%



Optical Density (OD)

OD 7+ @ 190 - 535 nm
 OD 2+ @ 633 - 650 nm
 OD 3+ @ 650 - 690 nm
 OD 6+ @ 690 - 1300 nm
 OD 8+ @ 1064 nm

Lasers

Alexandrite,
 Argon,
 Diode,
 Disk,
 Dye,
 Excimer,
 He Ne,
 Nd:YAG,
 NdYAG (2H)/(KTP),
 ND:YAG (3H)/(4H),
 Ruby,
 Ti:Sapphire

Applications

Industrial,
 Material Processing,
 Medical Device Manufacturing,
 Research

Available Frames



T - Glass and Thin Film Coated Filters

T5L04

Color: Orange

Material: Glass

VLT: 29%

Optical Density (OD)

OD 7+ @ 190 - 535 nm

OD 6+ @ 1030 - 1064 nm



Lasers

Argon,
Excimer,
Nd:YAG (2H)/(KTP),
Nd:YAG (3H),
Nd:YAG (4H)

Applications

Material Processing,
Research

Available Frames

F01



F14



T5M01

Color: Brown

Material: Glass

VLT: 23%

Optical Density (OD)

OD 7+ @ 190 - 535 nm

OD 3+ @ 850 - 900 nm

OD 4+ @ 900 - 950 nm

OD 5+ @ 950 - 1000 nm

OD 7+ @ 1000 - 1600 nm

OD 5+ @ 1600 - 2400 nm

OD 5+ @ 2900 - 10600 nm



Lasers

Argon,
Diode,
Disk,
Dye,
Excimer, Nd:YAG,
Nd:YAG (2H)/(KTP),
Nd:YAG (3H)/(4H)

Applications

Cutting,
Industrial,
Drilling,
Research,
Welding

Available Frames

F01



F12



F14



T1M01

Color: Brown
Material: Glass
VLT: 23%



Optical Density (OD)

180 - 315 D LB10 + IR LB5 (OD 10+)
 >315 - 532 D LB7 + IR LB8 + M LB8Y (OD8+)
 808 - <890 DIRM LB3 (OD 3+)
 890 - <940 DIRM LB5 (OD 5+)
 940 - <1000 DIRM LB6 (OD 6+)
 1000 - <1025 DIR LB7 + M LB7Y (OD7+)
 1025 - 1100 D LB7 + I LB9 + R LB8 + M LB8Y (OD9+)
 >1100 - 1400 D LB7 + IR LB8 + M LB8Y (OD8+)
 >1400 - 3000 DI LB4 (OD 4+)
 >3000 - 11500 DI LB5 (OD 5+)
 LV CE

Lasers

Argon,
 Diode,
 Disc,
 Dye,
 Excimer,
 Fiber,
 Nd:YAG,
 Nd:YAG (KTP, 2H),
 Nd:YAG (3H),
 Nd:YAG (4H)

Applications

Cutting,
 Drilling,
 Industrial,
 Research,
 Welding

Available Frames

R14



T1Q01

Color: Green
Material: Glass
VLT: 35%



Optical Density (OD)

690 - 795 DIRM LB7 (OD 7+)
 >795 - 1100 DIR LB7 + M LB9 (OD 9+)
 >1100 - 1200 DIR LB7 + M LB8 (OD 8+)
 >1200 - 1320 DIRM LB7 (OD 7+)
 >1320 - 1400 DIRM LB3 (OD 3+)
 >1400 - 1550 DIR LB3 (OD 3+)
 10600 DI LB4 (OD 4+)
 0,1 W 2*10E - 5J 633 RB2 (OD 2-3)
 LV CE

Lasers

Argon,
 Diode,
 Disc,
 Dye,
 Excimer,
 Fiber,
 Nd:YAG,
 Nd:YAG (KTP, 2H),
 Nd:YAG (3H),
 Nd:YAG (4H)

Applications

Cutting,
 Drilling,
 Industrial,
 Marking,
 Research,
 Welding

Available Frames

R14



P - Polycarbonate Filters

Eyewear Filters

Polycarbonate absorbing filters are manufactured with either clear base polycarbonate materials mixed with organic dyes or from preformulated pellets where the dyes are already added. After the lens blanks are molded, a special UV-cured coating is applied to both front and back surfaces to add a scratch resistant layer. Polycarbonate protective eyewear provides an excellent low-cost, lightweight safety solution, but may have slightly lower OD and VLT values..



P5B01

Color: Orange
Material: Polycarbonate
VLT: 54%



Optical Density (OD)
 OD 1 @ 532 nm

Lasers
 Nd:YAG (KTP, 2H)

Applications
 Alignment

P5B02

Color: Orange
Material: Polycarbonate
VLT: 49%



Optical Density (OD)
 OD 2 @ 532 nm

Lasers
 Nd:YAG (KTP, 2H)

Applications
 Alignment

Available Frames



Available Frames



P - Polycarbonate Filters

P5B03

Color: Blue
Material: Polycarbonate
VLT: 67%
Optical Density (OD)
 OD 1@ 633 nm



Lasers
 He Ne

Applications
 Alignment

P4B05

Color: Blue
Material: Polycarbonate
VLT: 42%

Optical Density (OD)
 650 - <660 DIR LB2 (OD 2+)
 660 - <665 DIR LB3 (OD 3+)
 665 - <670 DIR LB4 (OD 4+)
 670 - 680 D LB 5 + IR LB 7 (OD 7+)
 610 - 650 0,1W 2x10E-5J RB2 (OD 2-3)
 LV CE



Lasers
 Diode

Applications
 Alignment

Available Frames



Available Frames



P5B06

Color: Blue
Material: Polycarbonate
VLT: 15%



Optical Density (OD)

OD 6+ @ 585 nm
 OD 6+ @ 650 nm

Lasers

Diode, Dye

Applications

Dermatology,
 Skin Rejuvenation

P5C02

Color: Green
Material: Polycarbonate
VLT: 60%



Optical Density (OD)

OD 4+ @ 810 - 900 nm
 OD 6+ @ 900 - 980 nm
 OD 7+ @ 980 - 1064 nm
 OD 6+ @ 1064 - 1080 nm

Lasers

Diode,
 Dye,
 Nd:YAG

Applications

Cutting,
 Dental,
 Dermatology,
 Industrial,
 Material Processing,
 Medical Device Manufacturing,
 Urology,
 Veterinary,
 Welding

Available Frames



Available Frames



P - Polycarbonate Filters

P4C06

Color: Pink
Material: Polycarbonate
VLT: 65%



Optical Density (OD)
OD 5 @ 800 - 820 nm

DIR LB5 @ 800 - 820
LVCE

Lasers
Diode

Applications
Dental,
Dermatology

Available Frames

F22



P5D02

Color: Clear
Material: Polycarbonate
VLT: 91%



Optical Density (OD)
OD 3+ @ 2750 - 3000 nm
OD 2+ @ 9000 - 11200 nm

Lasers
CO₂
Er:YAG

Applications
Dental,
Dermatology,
Laser Resurfacing,

Available Frames

F16



F18



F22



F24



F25



P5D03

Color: Clear
Material: Polycarbonate
VLT: 91%



Optical Density (OD)
OD 4+ @ 2780 - 2940 nm

Lasers
Er:YAG

Applications
Dermatology,
Laser Resurfacing

Available Frames



“As a Medical Laser Safety Officer it is my job to make sure that my staff is protected”



P - Polycarbonate Filters

P5D04

Color: Clear
Material: Polycarbonate
VLT: 90%



P5 Optical Density (OD)
 OD 5+ @ 9000 - 11000 nm

P5/P1 Optical Density (OD)

OD 5+ @ 190 - 390 nm
 OD 6+ @ 9000 - 11000 nm



9000 - 11000 DI LB3
 LV CE

Lasers

CO₂

Applications

Cutting,
 Dermatology,
 Engraving,
 Industrial,
 Marking,
 Material Processing,
 Medical,
 Military,
 Ophthalmology,
 Skin Rejuvenation,
 Surgery,
 Veterinary

P5D07

Color: Clear
Material: Polycarbonate
VLT: 80%



Optical Density (OD)
 OD 4+ @ 2050 - 3000 nm
 OD 5+ @ 10600 nm

Lasers

CO₂,
 Er:YAG,
 Ho:YAG

Applications

Dermatology,
 Medical,
 Laser Resurfacing,
 Surgery,
 Urology

Available Frames



Available Frames



P5D08

Color: Clear
Material: Polycarbonate
VLT: 75%



Optical Density (OD)

OD 1+ @ 1260 - <1400 nm
 OD 1+ @ 1400 - <1410 nm
 OD 2+ @ 1410 - <1530 nm
 OD 3+ @ 1530 - 11500 nm

Lasers

CO₂
 Diode

Applications

Telecommunications

P5D09

Color: Clear
Material: Polycarbonate
VLT: 55%



Optical Density (OD)

OD 4+ @ 1800 - 3000 nm
 OD 5+ @ 1980 - 2550 nm
 OD 6+ @ 10600 nm

Lasers

CO₂
 Er:YAG,
 Ho:YAG

Applications

Dermatology,
 Medical,
 Laser Resurfacing,
 Surgery,
 Urology

Available Frames

F18



F22



Available Frames

F01



F02



R10



F07



F09



F12



F14



F16



F19



F20



F21



F18



F22



F24



F25



F30



F31



F32



P - Polycarbonate Filters

P5E01

Color: Orange
Material: Polycarbonate
VLT: 40%



Optical Density (OD)
 OD 7+ @ 190 - 315 nm
 OD 6+ @ 315 - 532 nm

Lasers

Argon,
 Excimer,
 Nd:YAG (KTP, 2H),
 Nd:YAG (3H),
 Nd:YAG (4H)

Applications

Research,
 Urology,
 Welding

P5E02

Color: Blue
Material: Polycarbonate
VLT: 14%



Optical Density (OD)
 OD 6+ @ 585 - 600 nm
 OD 5+ @ >600 - 605 nm

Lasers

Dye

Applications

Cutting,
 Marking,
 Skin Rejuvenation,
 Welding

Available Frames



Available Frames



P5E03

Color: Blue-Green
Material: Polycarbonate
VLT: 45%



Optical Density (OD)

OD 3+ @ 630 - 690 nm
 OD 7+ @ 690 - 710 nm

Lasers

Dye,
 He Ne,
 Ruby

Applications

Cutting,
 Marking,
 Skin Rejuvenation,
 Veterinary,
 Welding

P5E07

Color: Grey
Material: Polycarbonate
VLT: 28%



Optical Density (OD)

OD 3+ @ 180 - 315 nm
 OD 3+ @ >315 - 446 nm
 OD 2+ @ >446 - 450 nm
 OD 1+ @ >450 - 455 nm
 OD 1-2 @ 515 - <522 nm
 OD 2-3 @ 522 - 533 nm
 OD 1-2 @ >533 - 540 nm
 OD 1-2 @ 622 - <635 nm
 OD 2-3 @ 635 - 659 nm
 OD 1-2 @ >659 - 666 nm

Lasers

Green,
 Red,
 Blue

Applications

Alignment,
 Aviation,
 Law Enforcement,
 Military

Available Frames



Available Frames



P - Polycarbonate Filters

P5F01

Color: Pink
Material: Polycarbonate
VLT: 35%



Optical Density (OD)

OD 5+ @ 190 - 375 nm
 OD 4+ @ 730 - 855 nm
 OD 7+ @ 755 - 840 nm

Lasers

Alexandrite,
 Diode,
 Dye,
 Excimer,
 Nd:YAG (4H),
 Ti:Sapphire

Applications

Dental,
 Dermatology,
 Industrial,
 Alignment

P5G04

Color: Clear
Material: Polycarbonate
VLT: 90%



Optical Density (OD)

OD 10+ @ 180 - 384 nm
 OD 8+ @ 384 - 388 nm
 OD 4+ @ 388 - 396 nm
 OD 3+ @ 396 - 400 nm
 OD 5+ @ 5250 - 14000 nm
 OD 8+ @ 10600

Lasers

Alexandrite,
 Diode,
 Dye,
 Excimer,
 Nd:YAG (4H),
 Ti:Sapphire

Applications

Dental,
 Dermatology,
 Industrial,
 Alignment

Available Frames



Available Frames



P5H01

Color: Light Green
Material: Polycarbonate
VLT: 35%



Optical Density (OD)

OD 4+ @ 770 - 800 nm
 OD 6+ @ 800 - 980 nm
 OD 7+ @ 980 - 1065 nm
 OD 5+ @ 1065 - 1100 nm

Lasers

Alexandrite,
 Diode,
 Dye,
 Ti:Sapphire

Applications

Dental,
 Dermatology,
 Industrial,
 Material Processing,
 Medical Device Manufacturing,
 Urology

P5H02

Color: Green
Material: Polycarbonate
VLT: 42%



Optical Density (OD)

OD 5+ @ 700 - 820 nm

Lasers

Alexandrite,
 Diode,
 Dye,
 Ruby,
 Ti:Sapphire

Applications

Cutting,
 Dermatology,
 Marking,
 Skin Rejuvenation,
 Welding

Available Frames



Available Frames



P - Polycarbonate Filters

P5H03

Color: Blue
Material: Polycarbonate
VLT: 10%



Optical Density (OD)

OD 1+ @ 570 - <578 nm
OD 2+ @ 578 - <595 nm
OD 3+ @ 595 - <610 nm
OD 5+ @ 610 - <630 nm
OD 6+ @ 630 - <660 nm
OD 7+ @ 660 - 775 nm
OD 6+ @ >775 - 790 nm
OD 5+ @ >790 - 800 nm
OD 4+ @ >800 - 820 nm
OD 3+ @ >820 - 835 nm
OD 2+ @ >835 - 850 nm
OD 1+ @ >850 - 870 nm

Lasers

Alexandrite,
Diode,
Ruby

Applications

Dermatology,
Hair Removal,
Tattoo Removal

Available Frames

F18



F22



Veterinary Protection

Veterinarian and Pet Patient Eyewear

See more on page 63

“Bark, bark, bark,
bark, bark.....woof”



P5K01

Color: Green
Material: Polycarbonate
VLT: 10%



Optical Density (OD)

OD 3+ @ 800 - 830 nm
 OD 4+ @ >830 - 900 nm
 OD 5+ @ 900 - <1060 nm
 OD 7+ @ 1060 - 1090 nm
 OD 6+ @ >1090 - 1400 nm
 OD 3+ @ >1400 - 1650 nm

Lasers

Diode,
 Dye,
 He Ne,
 Nd:YAG,
 Ti:Sapphire

Applications

Dental,
 Veterinary

Available in Laser Doggles®

P5L02

Color: Brown
Material: Polycarbonate
VLT: 30%



Optical Density (OD)

OD 6+ @ 190 - 536 nm
 OD 3+ @ 780 - 810 nm
 OD 4+ @ 810 - 900 nm
 OD 6+ @ 900 - 980 nm
 OD 7+ @ 980 - 1065 nm
 OD 6+ @ 1065 - 1080 nm

Lasers

Argon,
 Diode,
 Dye,
 Excimer,
 Nd:YAG,
 Nd:YAG (2H, KTP),
 Nd:YAG (3H),
 Nd:YAG (4H),
 Ti:Sapphire

Applications

Dermatology,
 Industrial,
 Material Processing,
 Ophthalmology,
 Research,
 Surgery

Available Frames



Available Frames



P - Polycarbonate Filters

P5L07

Color: Brown
Material: Polycarbonate
VLT: 10%



Optical Density (OD)

OD 10+ @ 180 - 315 nm	OD 8+ @ 745 - <755 nm
OD 8+ @ >315 - 534 nm	OD 9+ @ 755 - 1120 nm
OD 6+ @ >534 - 540 nm	OD 7+ @ >1120 - 1130 nm
OD 3+ @ >540 - 545 nm	OD 6+ @ >1130 - 1135 nm
OD 2+ @ 630 - <660 nm	OD 5+ @ >1135 - 1145 nm
OD 2+ @ 660 - <680 nm	OD 4+ @ >1145 - 1155 nm
OD 3+ @ 680 - <700 nm	OD 3+ @ >1155 - 1165 nm
OD 4+ @ 700 - <715 nm	OD 2+ @ >1165 - 1180 nm
OD 5+ @ 715 - <725 nm	OD 1+ @ >1180 - 1210 nm
OD 6+ @ 725 - <735 nm	
OD 7+ @ 735 - <745 nm	

Lasers

Alexandrite,
 Argon,
 Diode,
 Dye,
 Excimer,
 Nd:YAG,
 Nd:YAG (2H, KTP),
 Nd:YAG (3H),
 Nd:YAG (4H),
 Ti:Sapphire

Applications

Dermatology,
 Industrial,
 Material Processing,
 Ophthalmology,
 Research,
 Surgery

Available Frames



P1L07

Color: Brown
Material: Polycarbonate
VLT: 10%



Optical Density (OD)

180 - 315 D LB10 + IR LB4 + M LB6 (OD 10+)	1135 - 1145 DIRM LB5 (OD 5+)
>315 - 534 D LB6 + IRM LB8 (OD 8+)	>1145 - 1155 DIRM LB4 (OD 4+)
>534 - 540 DIRM LB6 (OD 6+)	>1155 - 1165 DIRM LB3 (OD 3+)
>540 - 545 DIRM LB3 (OD 3+)	>1165 - 1180 DIRM LB2 (OD 2+)
630 - <660 DIRM LB1 (OD 1+)	>1180 - 1210 DIRM LB1 (OD 1+)
660 - <680 DIRM LB2 (OD 2+)	LV CE
680 - <700 DIRM LB3 (OD 3+)	
700 - <715 DIRM LB4 (OD 4+)	
715 - <725 DIRM LB5 (OD 5+)	
725 - <735 DIRM LB6 (OD 6+)	
735 - <745 D LB6 + IRM LB7 (OD 7+)	
745 - <755 D LB6 + IRM LB8 (OD 8+)	
755 - 1120 D LB6 + IR LB8 + M LB9 (OD 9+)	
>1120 - 1130 D LB6 + IRM LB7 (OD 7+)	
>1130 - 1135 DIRM LB6 (OD 6+)	

Lasers

Alexandrite,
 Argon,
 Diode,
 Dye,
 Excimer,
 Nd:YAG,
 Nd:YAG (2H, KTP),
 Nd:YAG (3H),
 Nd:YAG (4H),
 Ti:Sapphire

Applications

Dermatology,
 Industrial,
 Material Processing,
 Ophthalmology,
 Research,
 Surgery

Available Frames



P5L10

Color: Orange
Material: Polycarbonate
VLT: 40%



Optical Density (OD)

OD 8+ @ 180 - 315 nm
OD 6+ @ >315 - 500 nm
OD 4+ @ >500 - 532 nm
OD 2+ @ 800 - <975 nm
OD 4+ @ 975 - 1070 nm

Lasers

Nd:YAG

Applications

Alignment

Available Frames

F29



P5L12

Color: Grey
Material: Polycarbonate
VLT: 30%



Optical Density (OD)

OD 9+ @ 180 - 315 nm
OD 6+ @ 315 - 445 nm
OD 4+ @ 705 - 755 nm
OD 8+ @ 755 - 1100 nm

Lasers

Diode,
Excimer,
Fiber,
Nd:YAG,
Thin Disc

Applications

Dental,
Dermatology,
Industrial

Available Frames

F18



F22



F29



P - Polycarbonate Filters

P5L13

Color: Brown
Material: Polycarbonate
VLT: 20%



Optical Density (OD)

OD 3+ @ 180 - 532 nm
OD 2+ @ >532 - 538 nm
OD 1+ @ >538 - 545 nm
OD 1+ @ 620 - <631 nm
OD 2+ @ 631 - <637 nm
OD 3+ @ 637 - 661 nm
OD 2+ @ >661 - 666 nm
OD 1+ @ >666 - 674 nm
OD 1+ @ 755 - <940 nm
OD 2+ @ 940 - 1064 nm
OD 1+ @ >1064 - 1100 nm

Lasers

Red,
Green,
Blue

Applications

Alignment,
Aviation,
Law Enforcement,
Military

Available Frames



P5M01

Color: Blue
Material: Polycarbonate
VLT: 35%



Optical Density (OD)

OD 10+ @ 180 - 315 nm
OD 8+ @ >315 - 385 nm
OD 4+ @ >385 - 400 nm
OD 2+ @ 780 - <840 nm
OD 3+ @ 840 - <920 nm
OD 4+ @ 920 - 1400 nm
OD 4+ @ >1400 - 2550 nm
OD 3+ @ >2550 - 3600 nm
OD 2+ @ >3600 - 5200 nm
OD 4+ @ >5200 - 11500 nm

Lasers

CO₂
Diode,
Disk,
Fiber,
Nd:YAG,

Applications

Industrial,
Laser Resurfacing,
Material Processing,
Manufacturing,
Military,
Surgery,

Available Frames





Polycarbonate Filters - P

P5M02

Color: Grey
Material: Polycarbonate
VLT: 40%



Optical Density (OD)

OD 9+ @ 180 - 315 nm
 OD 4+ @ 1002 - <1020 nm
 OD 6+ @ 1020 - <1030 nm
 OD 7+ @ 1030 - 1070 nm
 OD 6+ @ 1070 - 1080 nm
 OD 4+ @ >1080 - 1096 nm
 OD 6+ @ 9000 - 11500 nm

Lasers

Disk,
 Fiber,
 Nd:YAG

Applications

Dermatology,
 Industrial,
 Marking,
 Military

Available Frames

F18



F22



P5P03

Color: Dark Green
Material: Polycarbonate
VLT: 11%



Optical Density (OD)

OD 6+ @ 10600 nm

Lasers

CO₂

Applications

Cutting,
 Engraving,
 Industrial,
 Material Processing,
 Marking,
 Veterinary

Available Frames

F02



F07



F09



F19



F20



F21



F24



F25



F30



F31



F32



P5P10

Color: Blue
Material: Polycarbonate
VLT: 16%



Optical Density (OD)

OD 8+ @ 180 - 385 nm
 OD 4+ @ 800 - 840 nm
 OD 5+ @ 840 - 880 nm
 OD 6+ @ 880 - 960 nm
 OD 7+ @ 960 - 1030 nm
 OD 8+ @ 1030 - 2200 nm
 OD 4+ @ 1400 - 3600 nm
 OD 6+ @ 10600 nm

Lasers

CO₂,
 Diode,
 Disk,
 Fiber,
 Nd:YAG,

Applications

Industrial,
 Laser Resurfacing,
 Manufacturing,
 Material Processing,
 Military,
 Surgery

Available Frames



P1P10

Color: Blue
Material: Polycarbonate
VLT: 16%



Optical Density (OD)

180 - 315 D LB10 + IRLB4 + MLB6 (OD 10+)
 >315 - 385 D LB6 + IRMLB8 (OD 8+)
 >385 - 400 DIRMLB4 (OD 4+)
 730 - <770 DIRMLB2 (OD 2+)
 770 - <800 DIRMLB3 (OD 3+)
 800 - <840 DIRMLB4 (OD 4+)
 840 - <880 DIRMLB5 (OD 5+)
 880 - <960 DIRMLB6 (OD 6+)
 960 - <1030 D LB6 + IRMLB7 (OD 7+)
 1030 - 1400 D LB6 + IRMLB8 (OD 8+)
 >1400 - 3600 D LB3 + ILB4 (OD 4+)
 >1400 - 2000 R LB3 (OD 4+)
 >3600 - 4800 DI LB3 (OD 3+)
 >4800 - 11500 DI LB4 (OD 4+)
 640 - 700 RB1,0,01W 2x10E-6J (OD 1+) LV F CE

Lasers

CO₂,
 Diode,
 Disk,
 Fiber,
 Nd:YAG,

Applications

Industrial,
 Laser Resurfacing,
 Manufacturing,
 Material Processing,
 Military,
 Surgery

Available Frames



Alignment Laser Safety

Laservision's 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.



Glass

T5B01 Page 19



T5B02 Page 20



Also available from Laservision:

Laser Safety Lab Curtains



Laser Safety Lab Table Panels



Modular design with time saving assembly. Providing accessibility to the optical components while maintaining laser safety parameters

Polycarbonate

P5B01 Page 35



P5B02 Page 35



P5B03 Page 36



P4B05 Page 36



P5E07 Page 43



P5L10 Page 49



P5L13 Page 50



Medical Laser Safety

Our innovative laser safety products for doctors, nurses, medical staff and their patients provide protection during laser surgery, dentistry, dermatology and veterinary procedures.



Surgical	Page 56
Dermatology	Page 57
Patient	Page 60
Dentistry	Page 62
Veterinary	Page 63

Medical Laser Safety Audits, Consulting and Training

Programs developed for doctors, nurses and other medical personnel working in a medical setting using lasers. **Laservision Academy** uses only Board of Laser Safety Certified Medical Laser Safety Officers to perform all consultations and training. All training is designed to address safety issues and present methods for controlling hazards. In accordance with the OSHA referenced:

ANSI Z136.3 standard
“Safe Use of Lasers in Health Care Facilities”

- **Medical Laser Safety Awareness**
 Training for clinical and technical aspects are covered in this course, including you and your patients health as the number one concern.
- **Medical Laser Safety Officer (MLSO)**
 Clinical, technical and administrative aspects are covered including how to set up and administer a laser safety program.



Medical Laser Safety

Surgical Laser Safety

Our innovative laser safety eyewear is made with medical professionals in mind: doctors, nurses, staff and patients. We have your eyes covered.



Holmium Filters

Lightweight Clear Filter

- First polycarbonate for Holmium laser (2100 nm)
- 3 times lighter than glass filters
- Clear filter with high VLT, helps reduce eye fatigue
- Anti-fog coated

Polycarbonate

P5D07 Page 40



P5D09 Page 41



Other surgical filters available from Laservision:

Glass

T5K02 Page 28



T5K04 Page 29



T5K07 Page 29



T5K11 Page 30



Polycarbonate

P5D09 Page 41



P5L02 Page 47



P5L07 Page 48



P5M01 Page 50



P5P10 Page 53



Dermatology / Aesthetic

Our laser safety eyewear provides certified protection for dermatologists and their patients.



Glass

T5B03 Page 20



T5B05 Page 22



T5H05 Page 27



T5K02 Page 28



T5K08 Page 30



T5K11 Page 30



T5K12 Page 31



Polycarbonate

P5B06 Page 37



P5C02 Page 37



P5D09 Page 41



P5L02 Page 47



P5L07 Page 48



P5L12 Page 49



P5M02 Page 52



Medical Laser Safety

Dermatology - Intense Pulse Light (IPL) Protection

For use during IPL procedures to reduce the amount of intense light, and to protect your eyes from dermatology procedures.



Grey IPL Eyewear

F18.P5L04.5000 and F22.P5L04.5000
 F18.P5L05.5000 and F22.P5L05.5000

- Provides excellent color recognition and is ideal for cosmetic applications
- Lightweight and fits over prescription eyewear
- Innovative flex temples with hinges



See page 13 for frame specifications



P5L04
Grey Shade 3

P5L05
Grey Shade 5

Green IPL Eyewear

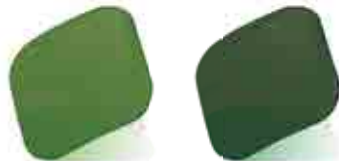
F.4.P5IPL3.5000 and F.4.P5IPL5.5000

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



F.4 Specifications

Lens Width	122 mm
Lens Height	46 mm
Distance Between Lenses	0
Frame Height	55 mm
Frame Length	140 - 152 mm
Frame Width	148 mm
Temple Length	88 - 110 mm

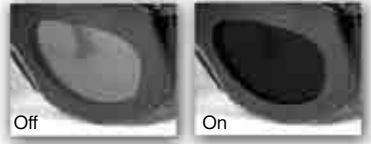


P5IPL3
Green Shade 3

P5IPL5
Green Shade 5

IPL Auto Darkening Protection

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



Pulse F04.P5IPLH.5000 (Clear)

- Patented auto-darkening technology
- Glare reduction factor 9 in Protection Mode
- Sensor detects IPL and darkens filter in 0.5 milliseconds
- Recovery time between modes is 0.5 seconds

Pulse Frame Specifications

Lens Width	48 mm
Lens Height	35 mm
Distance Between Lenses	30 mm
Frame Height	60 mm
Frame Length	120 - 140 mm
Frame Width	154 mm
Temple Length	110 - 125 mm



Also available:
F04.P5IPLP.5000 (Green)



Pulse XTR F04.P5L11.5000

- Transitions between viewing and protection modes in less than one millisecond
- Full color visible transmission in viewing mode
- Glare reduction factor of 9+ in protection mode
- Flip-up shield protects auto-darkening LCD
- Weight of 42 grams makes this the lightest weight auto-darkening eyewear on the market

Pulse XTR Frame Specifications

Lens Width	45 mm
Lens Height	32 mm
Distance Between Lenses	30 mm
Frame Height	48 mm
Frame Length	162 mm
Frame Width	154 mm
Temple Length	105 mm



Medical Laser Safety

Patient Protection

During medical laser treatments, patient eye protection is extremely important. Laservision provides your patients with excellent protection for laser treatments performed over the facial area.



Silicone Eye Shields

P07.PIP11.1000

Developed in close cooperation with medical professionals and is compatible with virtually all medical lasers.

- High Protection rating and comfortable to wear
- Flexible nose bridge and strap
- Re-usable self-adhesive eye caps
- Bridge moves to allow treatment of the nose



P07 Specifications

Eye Cap Width	45 mm
Eye Cap Height	32 mm
Distance Between Caps	15 - 50 mm
Frame Height	40 mm
Frame Length	82 mm
Frame Width	170 - 220 mm
Temple Length (Strap)	Adjustable

Specifications - CE Certified

180 - 315 nm D LB10 + IRLB5 + MLB6
 >315 - 1400 nm D LB6 + IRLB9 + M LB7
 >1400 - 11500 nm DILB4
 LV CE



Stainless Steel Eye Shields

P04.M1P02.5000

- Bend-to-fit adjustable nose piece
- Non-reflective brushed stainless steel
- Easy to clean and strong to last
- Access to nose and around eyes



P04 Specifications

Eye Cap Width	48 mm
Eye Cap Height	30 mm
Distance Between Caps	25 mm
Frame Height	30 mm
Frame Length	Adjustable
Frame Width	122 mm
Temple Length	Adjustable

Specifications - CE Certified

180 - 315 nm D LB9 + R LB3
 >315 - 1400 nm D LB6 + IRLB7
 >1400 - 11600 nm DILB4

EyeLids

P10.P5P13.5001

Ergonomically shaped to fit the contours of eye for maximum protection and comfort

- High laser protection rating
- Disposable - Economical solution
- Comfortable soft material
- High resistance to thermal and optical energy
- Easy to grip handles allow for repositioning
- Access to nose and around eyes

Sold in a pack of 12



P10 Specifications

Eye Cap Width	50 mm
Eye Cap Height	32 mm
Eye Cap Depth	22 mm

Specifications

OD7+ @ 190 - 11000 nm



Safe for use with:

Lasers, IPL, LED, UV, Microdermabrasion, Chemical Peel, Facial Therapies

Pediatric Laser Safety

PKT.P5P10.5000

Pediatric Laser Safety Eyewear Kit is designed to protect children's eyes from laser exposure during laser procedures. Eyewear is sold individually or as a kit.

- Kit includes two eyewear and cleaning solution
- Frame colors may vary
- Available in most polycarbonate filters

PKT Frame Specifications

Lens Width	49 mm
Lens Height	28 mm
Distance Between Lenses	18 mm
Frame Height	33 mm
Frame Length	144 mm
Frame Width	130 mm
Temple Length	100 mm



Medical Laser Safety

Dental Protection



Laservision provides laser safety protection for dentists, medical staff and their patients.

Glass

T5K02 *Page 28*



Polycarbonate

P4C06 *Page 38*



P5C02 *Page 37*



P5D02 *Page 38*



P5H01 *Page 45*



P5L12 *Page 49*



P5M02 *Page 52*



Veterinary Protection

Our laser safety eyewear is designed specifically for veterinarians performing laser therapy and their furry patients.



Veterinary Filters

Filters

- Polycarbonate: 3 times lighter than glass
- Maximum protection and optimal comfort
- Available in over 20 different frames

Plus other Laser Safety Products:

Equine Masks, Mats and Laser Safety Gloves

Polycarbonate

P5C02 Page 37



P5K01 Page 47



Veterinarian Eyewear Kit

Filters cover most therapeutic lasers.



Kit: KT0.P1C03.5000
Includes: Two eyewear
and cleaning solution

ANSI and CE Specifications

OD 4+ @ 800 - 820 nm
OD 4+ @ 920 - <955 nm
OD 5+ @ 955 - 1064 nm
800 - 820, 920 - < 955 DIR LB4 (OD 4+)
955 - 1064 DIR LB5 (OD 5+)
LV CE

Laser Safety DOGGLES® for your Patients

Product is designed to protect animal's eyes from laser exposure during laser therapy. Kit includes three sizes to fit most pets from a small cat to a large dog.



Kit: DKT.P5K01.5000
Includes: D01, D02, D03
and cleaning solution

ANSI Specifications

OD 5+ @ 800-1100 nm



See more info in our Laser Safety Veterinary Brochure