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UNIVET®
OPTICAL TECHNOLOGIES



LASER
INNOVATION FOR SAFETY

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RESEARCH AND DEVELOPMENT

Univet is the only company able to supply a complete range of industrial eyewear, medical, laser and personal protection, thanks to an optical laboratory, the in-house departments of Design and Research & Development, and a manufacturing factory with the most updated and innovative machinery.

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MANUFACTURING

Univet, with a Quality Management System according to ISO 9001, is a specialized company exclusively dedicated to the manufacturing of protection eyewear and the ongoing development of optical technologies.
Established in 1997 it is today the leading manufacturer in Italy and 70% of the turnover is due to the export market.
With regards to Laser applications, Univet is today amongst the first players in Europe.

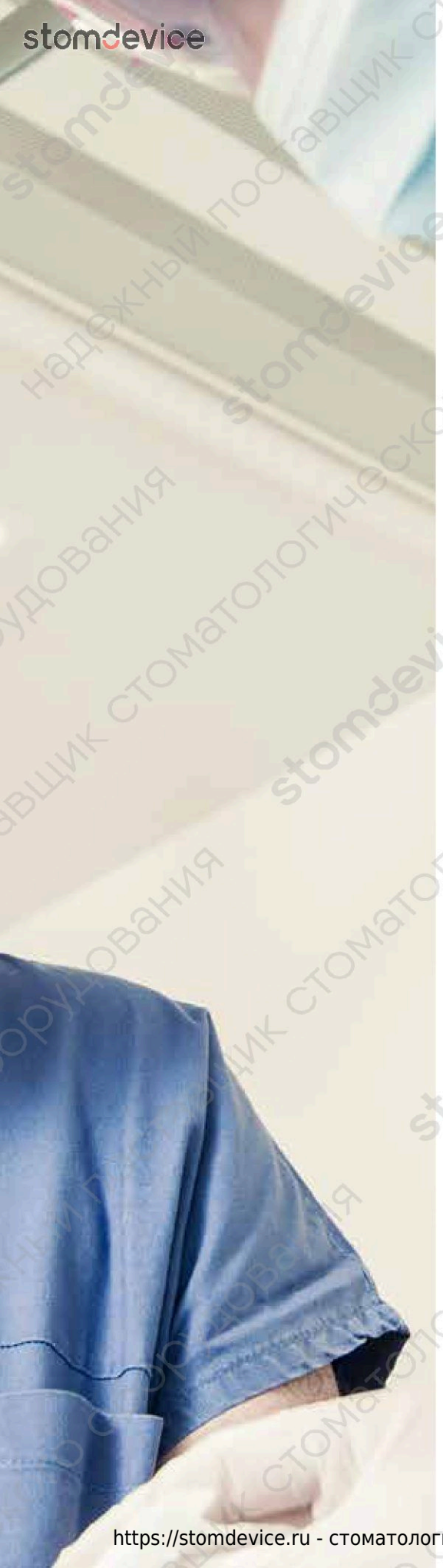
Univet is certified ISO 9001: 2008.

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DESIGN

Univet has designed a dedicated Laser eyewear range. This range incorporates patented accessories, technology and materials. Since inception, Univet's main principles are to take into consideration the varying and numerous needs of the end users, whilst never forgetting each specific application.
To do this we offer:
Maximum protection
Comfort, Ergonomics and Wearability
Italian Design and Style

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5X7
100% overspec

5X7 is a device with performance features: it is fully overspec to all types of corrective glasses and, due to the breadth of the lens, provides an optimal protection in addition to an extended field of view. The temples are adjustable and equipped with Softpad technology, a structural arrangement that provides the perfect adjustment of the spectacle according to the individual characteristics of the user.



- Developed to be worn over every prescription glasses with no compromise on comfort
- Excellent coverage
- Wide vision single-lens absorbing filters made of polycarbonate
- Equipped with patented Softpad technology
- Adjustable temples

Frame: white/grey

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562
Universal protection

With a frame made of Sylex, a technologically advanced material, 562 is a unique device equipped with filters both in polycarbonate and glass.
Thanks to a wide frame, it can be worn over any prescription glasses, offering maximum versatility. The adjustable temples with SoftPad technology allow perfect stability in any working condition.





- 6-Base absorbing polycarbonate and glass filters
- Wide field of vision
- Asian fitting
- Adjustable temples
- Ergonomic wraparound design fit perfectly on user face
- Universal overspec on every prescription glasses

Frame: white/grey

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546

Lightweight and enveloping

The design of 546 model has clean lines that lead to an immediately recognizable style: it is lightweight, streamlined and aggressive. Particularly appreciated by the market, its main strength is the wraparound shape, a structural feature that allows a snug fit to the face ensuring maximum protection.
The over-moulded rubber temples and the soft nose pad reduce pressure on sensitive areas for an absolute comfort.





- Wraparound shape with outstanding protection
- Extremely lightweight
- Soft anti-slip rubber nose pad
- 8-Base absorbing polycarbonate filters
- Over-moulded temple tips reduce pressure on sensitive areas

Frame: white/grey

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561

Versatile and innovative

A spectacle with high technical content, result of Univet research and experience, it fits perfectly on user face thanks to the temples with Softpad technology. It is made of Sylex, a patented plastic material used exclusively by Univet, which allows to obtain frames with higher levels of protection. The two-lens structure offers maximum versatility allowing to assemble a great variety of filters.





- Smart design
- Soft nose pad
- Asian fitting version upon request
- 6-Base absorbing polycarbonate and glass filters
- Adjustable temples
- Ergonomic wraparound temples fit perfectly on user face

Frame: white/grey

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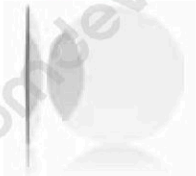


RANGE OF FILTERS

The unique characteristics of laser radiation make it dangerous especially for eyes. Therefore protective glasses and filters that match the wavelength and power of the specific source of laser radiation are needed. Univet develops and furnishes a complete range of laser filters including absorbing plastics or glass designed to guarantee the best laser protection for all users. These filters are made of materials studied to block radiation of a defined wavelength range of the spectrum: they absorb dangerous laser radiation before it can reach the eye of the operator.

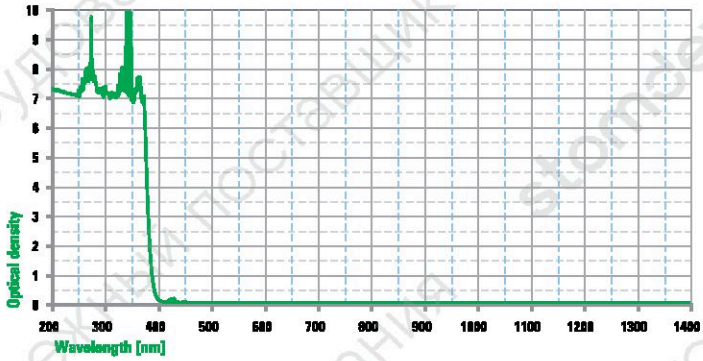
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POLYCARBONATE FILTERS



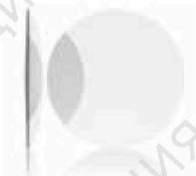
Filter code: UL-1001

Filter	Full protection
Colour	Clear
Material	Polycarbonate
VLT	90%
Alignement laser wavelength (T%>10%) 400-780 nm	



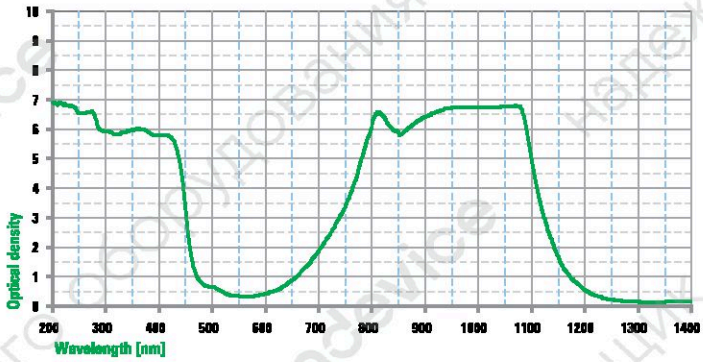
Wavelength		OD	561 561H.00.00.300	562 562H.00.00.300
190	315	7	D LB7 IR LB3	D LB7 IR LB3
10600		6	DI LB4	DI LB4

Color recognition according
CE standards EN166:2001 – ISO12313-1:2013



Filter code: UL-1005

Filter	Full protection
Colour	Green
Material	Polycarbonate
VLT	42%
Alignement laser wavelength (T%>10%) 470-650 nm	



Wavelength		OD	561 561H.00.00.309	562 562H.00.00.309
190	315	5	D LB5 IR LB3	D LB5 IR LB3
315	430	5	DIR LB5	DIR LB5
750	1100	3	DIR LB3	DIR LB3
775	1100	4	DIR LB4	DIR LB4
790	1090	5	DIR LB5	DIR LB5
920	1075	6	DIR LB6 M LB6Y	DIR LB6 M LB6Y
1000	1070	7	D LB6 IR LB7 M LB7Y	D LB6 IR LB7 M LB7Y
1030	1065	8	D LB6 IR LB8 M LB7Y	D LB6 IR LB7 M LB7Y
10600		6	DI LB4	DI LB4

Wavelength		OD	546 546L.00.10.551	5X7 5X7L.00.00.651
745	1115	3	DIR LB3	DIR LB3
770	1100	4	DIR LB4	DIR LB4
785	1085	5	DIR LB5	DIR LB5
800	825	6	DIR LB6	DIR LB6
885	1075	6	DIR LB6	DIR LB6
1000	1070	7	D LB6 IR LB7 M LB7Y	D LB6 IR LB7 M LB7Y
1030	1065	8	D LB6 IR LB8 M LB7Y	D LB6 IR LB8 M LB7Y
9000	11000	6	DI LB4	DI LB4

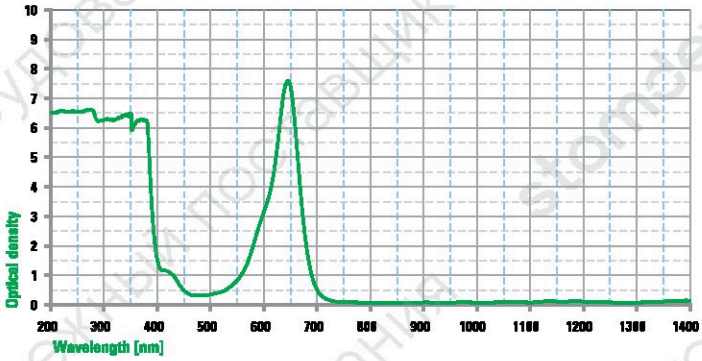
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POLYCARBONATE FILTERS

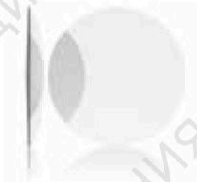


Filter code: UL-1007

Filter	Full protection
Colour	Blue
Material	Polycarbonate
VLT	20%
Alignement laser wavelength (T%>10%)	425-555 nm

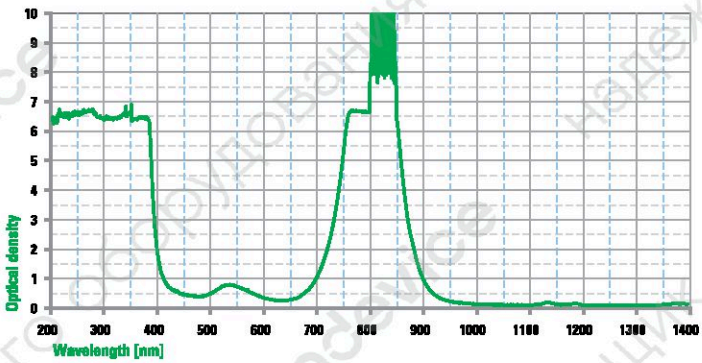


Wavelength		OD	561 561H.00.00.311	562 562H.00.00.311
190	315	6	D LB6 IR LB3	D LB6 IR LB3
315	375	6	D LB4 IR LB5	D LB4 IR LB5
600	670	3	DI LB3	DI LB3
620	665	4	DI LB4	DI LB4
625	660	5	D LB4 I LB5	D LB4 I LB5
629	658	6	D LB4 I LB6	D LB4 I LB6



Filter code: UL-1008

Filter	Full protection
Colour	Pink
Material	Polycarbonate
VLT	40%
Alignement laser wavelength (T%>10%)	410-695 nm

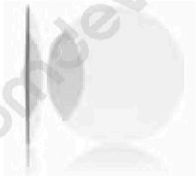


Wavelength		OD	561 561H.00.00.312	562 562H.00.00.312
190	315	6	D LB6 IR LB3	D LB6 IR LB3
740	860	3	DIR LB3	DIR LB3
750	855	4	DIR LB4	DIR LB4
755	850	5	DIR LB5	DIR LB5
770	845	6	DIR LB6	DIR LB6
800	840	7	D LB6 IR LB7	D LB6 IR LB7

Wavelength		OD	546 546L.00.10.552	5X7 5X7L.00.00.652
735	870	3	DIR LB3	DIR LB3
745	865	4	DIR LB4	DIR LB4
750	858	5	DIR LB5	DIR LB5
755	852	6	DIR LB6	DIR LB6
765	850	7	D LB6 IR LB7	D LB6 IR LB7
775	840	8	D LB6 IR LB8	D LB6 IR LB8
9000	11000	6	-	DI LB3

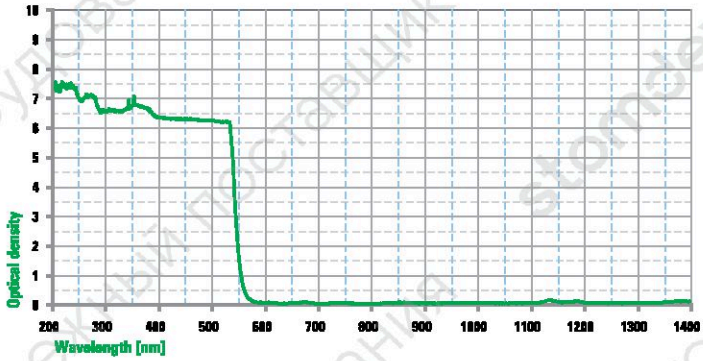
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POLYCARBONATE FILTERS



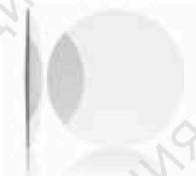
Filter code: UL-1009

Filter	Full protection
Colour	Orange
Material	Polycarbonate
VLT	40%
Alignement laser wavelength (T%>10%)	560-780 nm



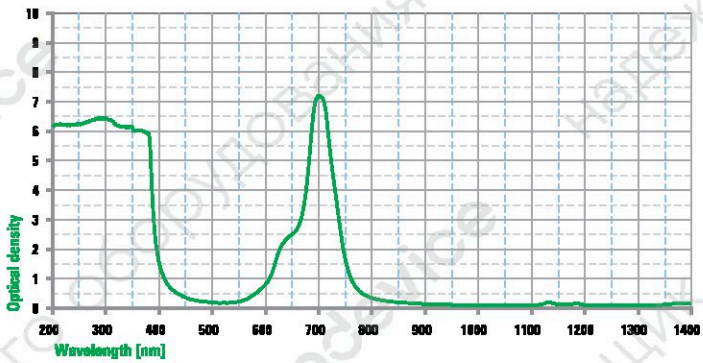
Wavelength		OD	561 561H.00.00.313	562 562H.00.00.313
190	315	5	D LB5 IR LB3	D LB5 IR LB3
315	535	5	DIR LB5	DIR LB5

Wavelength		OD	546 546L.00.10.553	5X7 5X7L.00.00.653
180	315	7	D LB7 IR LB4	D LB7 IR LB4
315	534	6	DIRM LB6	DIRM LB6
315	536	5	DIRM LB5	DIRM LB5
315	538	4	DIRM LB4	DIRM LB4
315	541	3	DIRM LB3	DIRM LB3



Filter code: UL-1014

Filter	Full protection
Colour	Green
Material	Polycarbonate
VLT	45%
Alignement laser wavelength (T%>10%)	415-610 nm



Wavelength		OD	561 561H.00.00.319	562 562H.00.00.319
190	315	6	D LB6 IR LB3	D LB6 IR LB3
667	735	3	DIR LB3	DIR LB3
677	730	4	DIR LB4	DIR LB4
683	723	5	DIR LB5	DIR LB5
687	717	6	D LB5 IR LB6	D LB5 IR LB6
693	710	7	D LB5 IR LB7	D LB5 IR LB7

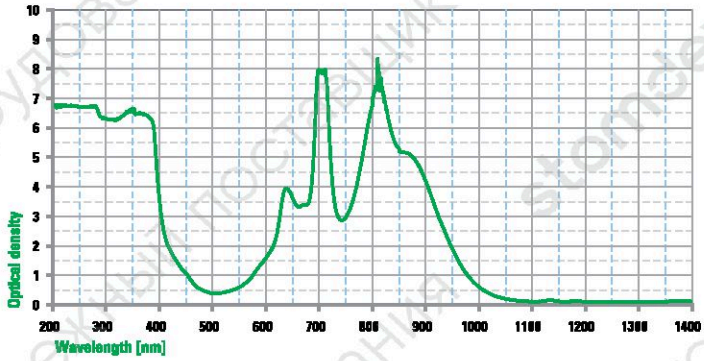
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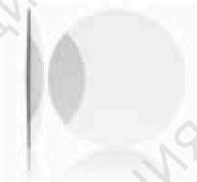
Filter code: UL-1015

Filter	Full protection
Colour	Dark green
Material	Polycarbonate
VLT	20%
Alignement laser wavelength (T%>10%) 450-580 nm	



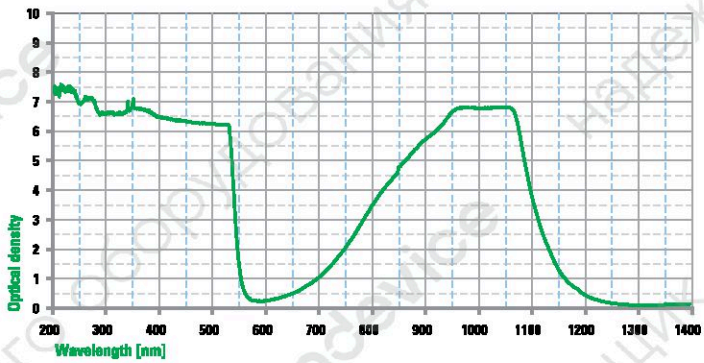
Wavelength		OD	561 561H.00.00.326	562 562H.00.00.326
190	315	7	D LB7 IR LB3	D LB7 IR LB3
315	380	6	DIR LB5	DIR LB5
625	730	3	DIR LB3	DIR LB3
685	722	4	DIR LB4	DIR LB4
689	719	5	DIR LB5	DIR LB5
...				

Wavelength		OD	561 561H.00.00.326	562 562H.00.00.326
...				
692	715	6	D LB5 IR LB6	D LB5 IR LB6
755	920	3	DIR LB3	DIR LB3
775	900	4	DIR LB4	DIR LB4
785	870	5	DIR LB5	DIR LB5
795	825	6	D LB5 IR LB6	D LB5 IR LB6



Filter code: UL-1016

Filter	Full protection
Colour	Dark Orange
Material	Polycarbonate
VLT	25%
Alignement laser wavelength (T%>10%) 555-695 nm	



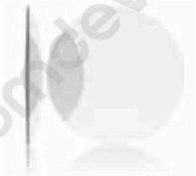
Wavelength		OD	561 561H.00.00.329	562 562H.00.00.329
190	315	6	D LB6 IR LB3	D LB6 IR LB3
315	532	8	D LB6 IR LB8 M LB7Y	D LB6 IR LB7 M LB7Y
800	1105	3	DIR LB3	DIR LB3
850	1090	4	DIR LB4	DIR LB4
905	1080	5	DIR LB5	DIR LB5
945	1070	6	DIR LB6	DIR LB6
970	1068	7	DIR LB6 M LB7Y	DIR LB6 M LB7Y
10600		6	DI LB4	DI LB4

Wavelength		OD	546 546L.00.10.554
180	315	7	D LB7 IR LB4
315	534	6	DIRM LB6
315	536	5	DIRM LB5
315	538	4	DIRM LB4
315	541	3	DIRM LB3
800	1100	3	DIR LB3
850	1085	4	DIR LB4
910	1075	5	DIR LB5
960	1065	6	DIRM LB6

Wavelength		OD	5X7 5X7L.00.00.654
180	315	7	D LB7 IR LB4
315	535	8	D LB6 IR LB8 M LB7Y
950	1070	8	D LB6 IR LB8 M LB7Y

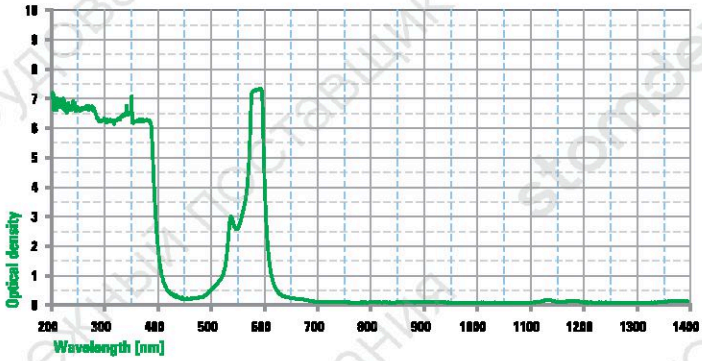
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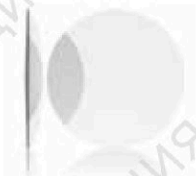


Filter code: UL-1020

Filter	Full protection
Colour	Purple
Material	Polycarbonate
VLT	12%
Alignement laser wavelength (T%>10%) 406-520 nm	

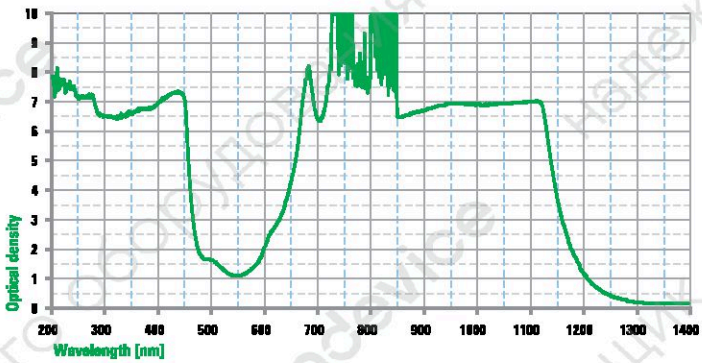


Wavelength		OD	546 546L.00.10.555	562 562H.00.00.455	5X7 5X7L.00.00.655
560	600	3	DIR LB3	DIR LB3	DIR LB3
570	598	4	DIR LB4	DIR LB4	DIR LB4
574	597	5	DIR LB5	DIR LB5	DIR LB5
577	596	7	D LB6 IR LB7	D LB6 IR LB7	D LB6 IR LB7



Filter code: UL-1022

Filter	Full protection
Colour	Dark Green
Material	Polycarbonate
VLT	10%
Alignement laser wavelength (T%>10%) 516-585 nm	



Wavelength		OD	546 546L.00.10.559	562 562H.00.00.459
630	1150	3	DIR LB3	DIR LB3
670	1135	4	DIR LB4	DIR LB4
680	1125	5	DIR LB5	DIR LB5
685	725	6	DIR LB6	DIR LB6
750	1115	6	DIR LB6	DIR LB6
765	1100	7	D LB6 IRM LB7	D LB6 IR M LB7Y

Wavelength		OD	5X7 5X7L.00.00.659
630	1150	3	DIR LB3
670	1135	4	DIR LB4
680	1125	5	DIR LB5
685	1115	6	DIR LB6 M LB6Y
725	1100	7	D LB6 IR LB7 M LB7Y
735	1080	8	D LB6 IR LB8 M LB7Y
9000	11000	6	DI LB3

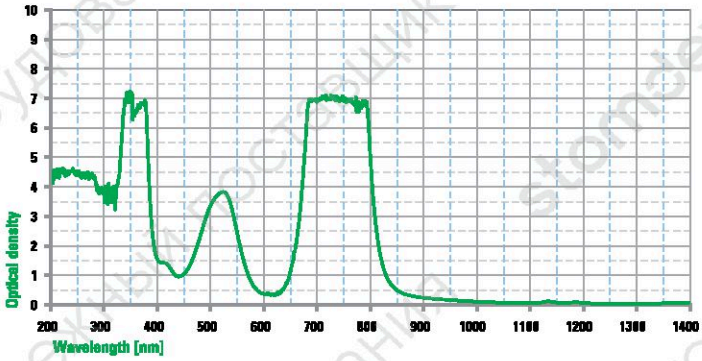
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POLYCARBONATE FILTERS

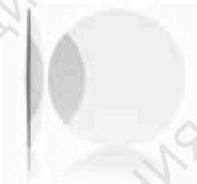


Filter code: UL-1026

Filter	Full protection
Colour	Pink
Material	Polycarbonate
VLT	10%
Alignement laser wavelength (T%>10%) 570-640 nm	

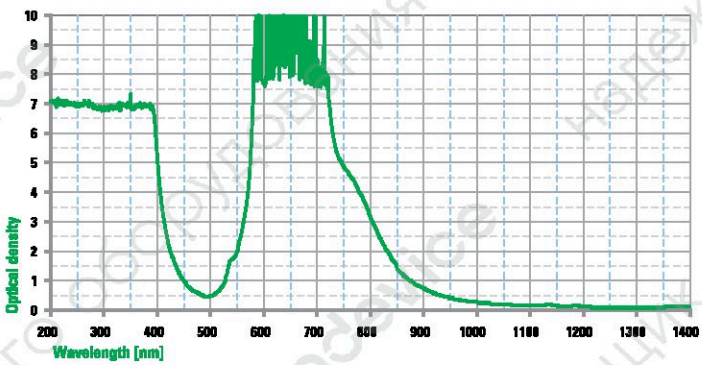


Wavelength		OD	561 561H.00.00.346	562 562H.00.00.346
680	790	5	DIR LB5	DIR LB5
685	785	6	D LB5 IR LB6	D LB5 IR LB6
690	780	7	D LB5 IR LB7	D LB5 IR LB7



Filter code: UL-1028

Filter	Full protection
Colour	Blue
Material	Polycarbonate
VLT	8%
Alignement laser wavelength (T%>10%) 435-532 nm	



Wavelength		OD	561 561H.00.00.348	562 562H.00.00.348
565	800	3	DIR LB3	DIR LB3
572	770	4	DIR LB4	DIR LB4
577	735	5	DIR LB5	DIR LB5
578	725	6	DIR LB6	DIR LB6
582	720	7	D LB6 IR LB7	D LB6 IR LB7
610	710	8	D LB6 IR LB8	D LB6 IR LB7

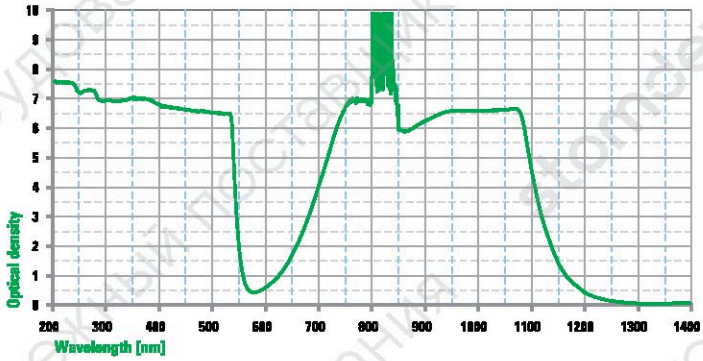
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

POLYCARBONATE FILTERS



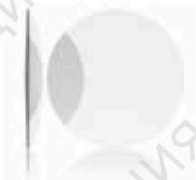
Filter code: UL-1029

Filter	Full protection
Colour	Dark orange
Material	Polycarbonate
VLT	12%
Alignement laser wavelength (T%>10%)	560-620 nm



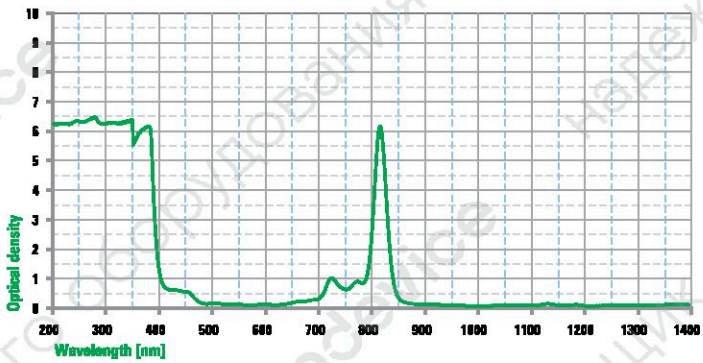
Wavelength		OD	561 561H.00.00.349	562 562H.00.00.349
190	315	6	D LB5 IR LB3	D LB5 IR LB3
315	535	6	D LB5 IR LB6	D LB5 IR LB6
680	1115	3	DIR LB3	DIR LB3
690	1100	4	DIR LB4	DIR LB4
...				

Wavelength		OD	561 561H.00.00.349	562 562H.00.00.349
...				
715	1095	5	DIR LB5	DIR LB5
732	850	6	DIR LB6	DIR LB6
880	1085	6	D LB5 IR LB6	D LB5 IR LB6
10600		6	DI LB3	DI LB3



Filter code: UL-1030

Filter	Full protection
Colour	Light Yellow
Material	Polycarbonate
VLT	82%
Alignement laser wavelength (T%>10%)	405-720 nm



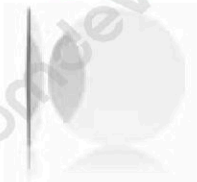
Wavelength		OD	561 561H.00.00.350	562 562H.00.00.350
804	831	3	DIR LB3	DIR LB3
807	827	4	DIR LB4	DIR LB4
809	824	5	DIR LB5	DIR LB5



Color recognition according
CE standards EN166:2001 – ISO12313-1:2013

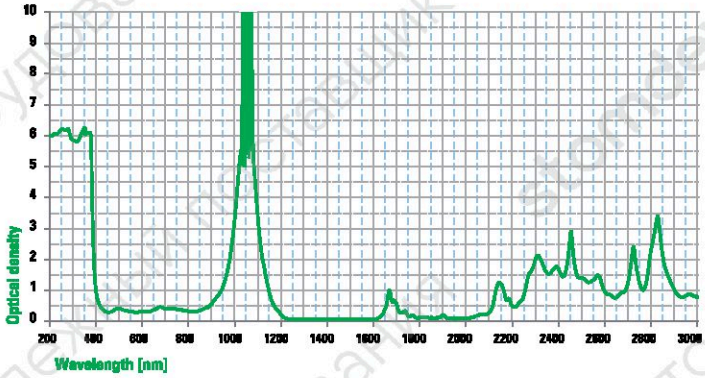
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POLYCARBONATE FILTERS



Filter code: UL-1036

Filter	Full protection
Colour	Light Gray
Material	Polycarbonate
VLT	40%
Alignement laser wavelength (T%>10%) 400-700 nm	



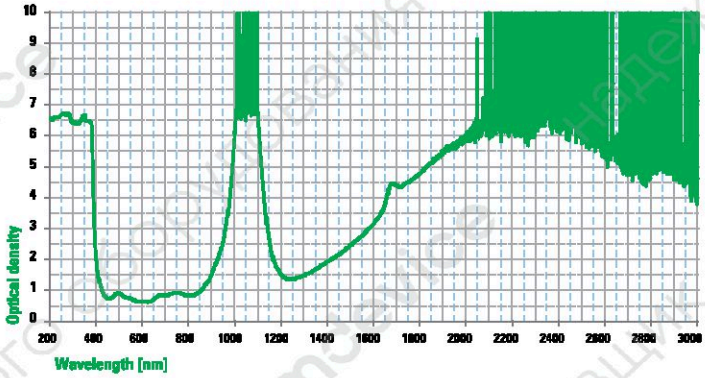
Color recognition according
CE standards EN166:2001 – ISO12313-1:2013

Wavelength		OD	5X7 5X7L.00.00.664
1060	1070	8	D LB6 I LB8 R LB7 M LB7Y



Filter code: UL-1037

Filter	Full protection
Colour	Gray
Material	Polycarbonate
VLT	20%
Alignement laser wavelength (T%>10%) 400-700 nm	

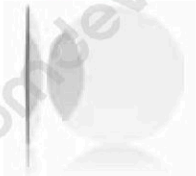


Color recognition according
CE standards EN166:2001 – ISO12313-1:2013

Wavelength		OD	5X7 5X7L.00.00.665
995	1100	6	DIR LB6 M LB6Y
1010	1090	7	D LB6 IR LB7 M LB7Y
1050	1080	8	D LB6 IR LB8 M LB7Y
1420	3000	2	DI LB2
1585	3000	3	DI LB3
1660	3000	4	DI LB4
10000	11000	6	DI LB4

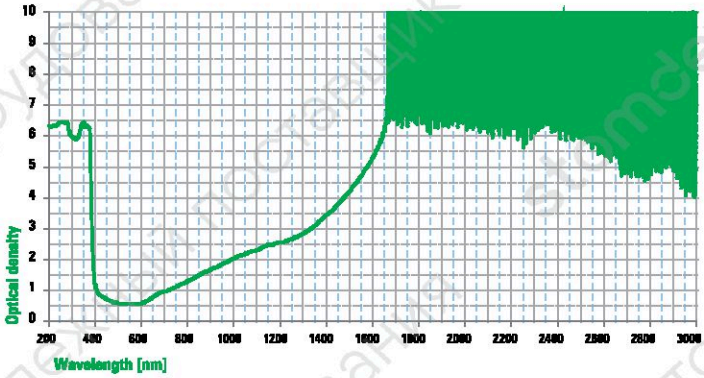
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POLYCARBONATE FILTERS



Filter code: UL-1038

Filter	Full protection
Colour	Gray/Green
Material	Polycarbonate
VLT	25%
Alignement laser wavelength (T%>10%) 400-700 nm	



Wavelength		OD	5X7 561L.00.00.668
1335	3000	3	DIR LB3
1465	3000	4	DIR LB4
10000	11000	6	DI LB4

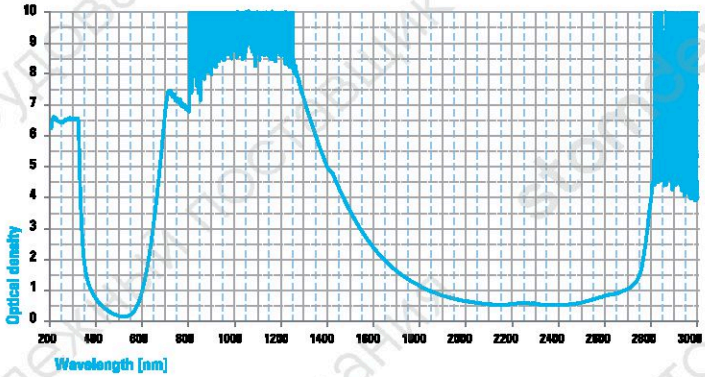
Color recognition according
CE standards EN166:2001 – ISO12313-1:2013

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Filter code: UL-2001

Filter	Full protection
Colour	Green
Material	Glass
VLT	40%
Alignement laser wavelength (T%>10%)	380-590 nm



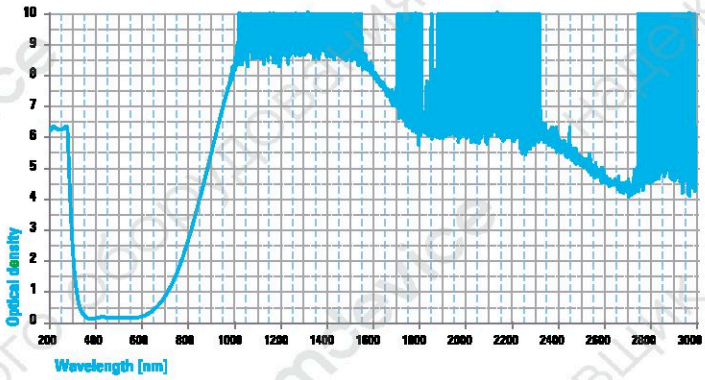
Wavelength		OD	561 561H.00.00.201	562 562H.00.00.201	616 616.00.0.003
190	315	9	D LB8 IR LB4	D LB8 IR LB4	D LB9 IR LB4
645	1400	3	DIR LB3	DIR LB3	DIR LB3
660	1400	4	DIR LB4	DIR LB4	DIR LB4
675	1360	5	DIR LB5	DIR LB5	DIR LB5
685	1345	6	DIR LB6	DIR LB6	DIR LB6
...					

Wavelength		OD	561 561H.00.00.201	562 562H.00.00.201	616 616.00.0.003
...					
695	1300	7	D LB6 IR LB7	D LB6 IR LB7	D LB6 IR LB7
720	1250	8	D LB6 IR LB8	D LB6 IR LB7	D LB6 IR LB8
1400	1525	3	DI LB3	DI LB3	DI LB3
2800	3300	4	DI LB4	DI LB4	DI LB4
10600		6	DI LB4	DI LB4	DI LB4



Filter code: UL-2004

Filter	Full protection
Colour	Acqua
Material	Glass
VLT	70%
Alignement laser wavelength (T%>10%)	380-720 nm



Wavelength		OD	561 561H.00.00.200	562 562H.00.00.200	616 616.00.0.008
190	260	9	D LB8 IR LB4	D LB8 IR LB4	D LB9 IR LB4
815	1400	3	DIR LB3	DIR LB3	DIR LB3
850	1400	4	DIR LB4	DIR LB4	DIR LB4
890	1400	5	DIR LB5	DIR LB5	DIR LB5
930	1400	6	DIR LB6	DIR LB6	DIR LB6
950	1400	7	D LB6 IR LB7	D LB6 IR LB7	D LB6 IR LB7
990	1400	8	D LB6 IR LB8	D LB6 IR LB7	D LB6 IR LB8
1400	3000	5	DI LB4	DI LB4	DI LB4
10600		6	DI LB4	DI LB4	DI LB4

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616/617
Patient care

During specific operations or treatments that require the use of laser instruments, the patient may be subjected to radiation harmful for the eyes. To avoid the associated risks, Univet developed two specific glasses, blind or with selected laser filters, that ensure patient safety. Washable, sterilizable and equipped with interchangeable parts, they are the ideal solution for clinics and surgeries.







616.00.0.000
- Adjustable nose pad and cord
- Soft interchangeable face-foam
- Can be sterilized by autoclave
- Available with laser filters or blind

MARKING - blind version
190-315 D LB9 IR LB4
315-1400 D LB7 I LB9 R LB8
1400-3300 DI LB5
10600 DI LB5

617.00.0.000
- Made of lightweight alloy
- Cord with slider
- Easily cleaned surfaces
- Can be sterilized by autoclave

MARKING
190-315 D LB9 IR LB4
315-1400 D LB7 I LB9 R LB8
1400-3300 DI LB5
10600 DI LB5

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IPL
High technology

Univet offers specific items for patients and operators working with IPL (Intense Pulsed Light); these products are ideal for medical field, especially in outpatient and cosmetic sectors, being the high intensity flash lamp therapy used mainly for hair removal or treatment of liver or sun spots.
Safety eyewear for IPL systems needs to be certified according only to working protection standards and must protect the user against the bright light flash.



SHADE 3
5X3.03.35.30IPL
5X7.03.35.30IPL



SHADE 5
5X3.03.35.50IPL
5X7.03.35.50IPL



A selection of frames has been settled to carry this type of lens: all the models are extremely light and comfortable, with optimum lateral protection.

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Laser Flip-Up

Performance and protection

Thanks to its long standing experience in optical technologies, Univet develops products that provide maximum performance and user well-being. Laser Flip-up loupes are special products that combine design and technology, with particular attention to protection. A system developed and studied by Univet with interchangeable lenses for maximum protection from the most common laser wavelengths ensuring safe and precise operations.





- Interchangeable lens for laser protection
- Flip-up systems easily adjustable
- Wide range of magnifications
- Can be worn over prescription eyewear
- Available filters: UL1001 - UL1005 - UL1008 - UL1009 UL1036 - UL1037 - UL1038

EVO - Available magnifications - Galilean 2,5x
AIR-X - Available magnifications - Prismatic XS 3,5x, 4,5x, 6,0x

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ACCESSORIES



Cod. 023345
Safety glass neck cord in black cotton



Cod. 4PA114--ASSEMB-
Safety glass neck cord



Cod. 3PA225-
Univet cloth



Cod. 4QL001-ASSEMB
Anti-fog cleaner



Cod. 3QL004-
Univet liquid cleaner - 30ml



Cod. 2300072
Microfibre case



Cod. 3AT028-
Black case with zip and logo



Cod. 3AT029-
Black case with zip and logo



Cod. 3QL002-
Univet Cleaning station



Cod. 3QL003-
Univet cleaning tissue (pack of 24pcs)

QUICK CHART

		Excimer	Excimer	Excimer	Nd:YAG(4x)	Excimer	Nd:YAG (3x)	Argon	Argon	Nd:YAG KTP	Dye	HeNe	Krypton	Diode	Ruby	Alexandrite	Diode	Diode	Yb:YAG	Nd:YAG	Diode	Er:Glass	Tm:YAG	Ho:YAG	Er:YAG	CO2
		193	222	248	266	308	355	488	515	532	595	632	647	650	694	755	808	940	1030	1064	1470	1540	2000	2100	2940	10600
PLASTIC	UL-1001	•	•	•	•	•																				•
	UL-1005	•	•	•	•	•	•										•	•	•	•						•
	UL-1007	•	•	•	•	•	•					•	•	•												
	UL-1008	•	•	•	•	•										•	•									
	UL-1009	•	•	•	•	•	•	•	•	•																
	UL-1014	•	•	•	•	•									•											
	UL-1015	•	•	•	•	•									•		•									
	UL-1016	•	•	•	•	•	•	•	•	•								•	•	•						
	UL-1020										•															
	UL-1022														•	•	•	•	•	•						
	UL-1026														•	•										
	UL-1028										•	•	•	•	•											
	UL-1029	•	•	•	•	•	•	•	•	•						•	•	•	•	•						
	UL-1030																•									
	UL-1036																			•						
	UL-1037																			•	•	•	•	•	•	•
	UL-1038																				•	•	•	•	•	•
GLASS	UL-2001	•	•	•	•										•	•	•	•	•	•					•	
	UL-2004	•	•	•	•													•	•	•				•	•	•

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LASER FILTERS

ULTIMATE TECHNOLOGY FOR YOUR PROTECTION

TECHNICAL PARAMETERS OF FILTERS

OPTICAL DENSITY: is the attenuation of light that passes through an optical filter: the higher the OD value, the higher the attenuation; it's important that optical density will also remain stable in case of a direct laser hit on the filter.

VISIBLE LIGHT TRANSIMITTANCE (VLT): it is a parameter that describes the ratio of visible light that reaches the human eye passing through the filter. It expresses the ability of a lens to provide good visibility, defining the percentage of transparency: the higher this value, the higher the visibility.

COLOR RECOGNITION: wearing laser safety eyewear blocking some wavelengths of the visible spectrum, will alter the user perception of the environment. Attenuation of the light and block of some wavelengths make the environment darker or change the color perception. Perfect color recognition is a feature obtained by filters fulfilling specific requirements detailed in CE standards EN 166:2001 and ISO 12312-1:2013.

ALIGNEMENT LASER WAVELENGTH: this is the range of wavelengths which is not attenuated by the protective filter (OD<1.0). This parameter could be used to evaluate if the aiming beam of the laser source (if present) could be seen by looking through the eyewear.

MARKING ON THE EYE PROTECTORS

Laser safety goggles are not universal and must be used only for those types of laser for which were designed (wavelength; type of laser: CW, pulsed, giant-pulsed, mode locked etc.).

Safety standards require protection level and related wavelength range shall be marked on each eyewear, allowing the user to verify if the item is properly designed to guarantee protection against the laser source in use.

EN 207

EN 207 requires that the filter must withstand 5-second impact from a continuous-wave laser, or 50 pulses from a pulsed laser, with predefined levels of energy/density, with no loss of protection.

Filters that meet these requirements are marked with the appropriate protection level LB, in relation to the wavelengths against which protection is provided, as indicated in the example below:

1000-1100	D	LB6	Y	U	S	CE

1000-1100:	Wavelength (or wavelength interval) in nm against which the filter provides protection
D:	Laser type [D: Continuous wave - I: Pulsed – R: Giant Pulsed – M: coupled mode pulsed]
LB6:	Scale number (protection level)
Y:	Y suffix is added if the eye-protector is not tested with low repetition rates ≤25Hz (where applicable)
U:	Manufacturer ID (Univet)
S:	Mechanical resistance symbol (where applicable)
CE:	Conformity to directive CE 89/686/CEE

US LASER SAFETY NORMS

Laser safety in the US is based on the standard ANSI Z136. This norm requires a specification of the safety equipment according to OD (optical density).

To combine this requirement with the EN207 marking, Univet apply the ANSI OD specification as follow:

1000-1100	D LB6 + IR LB7	(OD 7)

1000-1100:	Wavelength (or wavelength interval) in nm against which the filter provides protection
D LB6 + IR LB7	CE marking according EN207
(OD 7)	Minimum OD guaranteed at the wavelength (or in the whole wavelength range) specified

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