

## LASER EYEWEAR WITH TRUE COLOUR VISION OR OPTIMIZED COLOUR VISION

Wavelength range*	Filter Number	Filter Description	Filter material Filter colour	Optical Density	EN 207 : 2009 certification					Frame	P/N	ANTI-FOG COATED	ANTI-SCRATCH COATED
					Wavelength nm	D LB	I LB	R LB	MLB				
IR	188	NEW GENERATION IR True Colour Vision	polymer grey 47%	OD>5 @ 1020-1050nm OD>7 @ 1050-1065nm OD>6 @ 1065-1070nm OD>5 @ 1070-1075nm OD>4 @ 1075-1085nm	>1020-1050	5	5	5	5Y	Encore (cladded)	31-21188CL <i>July from stock</i>	-	anti-scratch
					>1050-1065	6	7	7	7Y				
					>1065-1070	6	6	6	6Y	XC	31-80188 <i>May from stock</i>	anti-fog	anti-scratch
					>1070-1075	5	5	5	5Y				
					>1075-1085	4	4	4	4Y	Encore	31-21188 <i>May from stock</i>	-	anti-scratch
					>1020-1050	5	5	5	5Y				
					>1050-1065	6	7	5	6Y				
					>1065-1070	6	6	5	6Y				
				>1070-1075	5	5	5	5Y					
				>1075-1085	4	4	4	4Y					

  

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					Wavelength nm	D LB	I LB	R LB	MLB				
IR	186	NEW GENERATION IR True Colour Vision	polymer grey 25%	960-1070 OD >5	960 - 1070	5	-	-	-	Encore	31-21186	-	anti-scratch
												XC	31-80186

  

Wavelength range*	Filter Number	Filter Description	Filter material Filter colour	Optical Density	EN 207 : 2009 certification					Frame	P/N	ANTI-FOG COATED	ANTI-SCRATCH COATED
					Wavelength nm	D LB	I LB	R LB	MLB				
IR	185	NEW GENERATION IR-Red Optimized Colour Vision	polymer grey 20%	OD>1 @ 650-665nm OD>5 @ 955-1070nm	EN208: 650-665 RB1					Encore	31-21185	-	anti-scratch
					650 - 665	1	-	-	-				
									960 - 1070	5	-	-	-

### EN 207 laser eyewear - Standard product range

Wavelength range*	Filter Number	Filter Description	Filter material Filter colour	Optical Density	EN 207 : 2009 certification					Frame	P/N	ANTI-FOG COATED	ANTI-SCRATCH COATED
					Wavelength nm	D LB	I LB	R LB	MLB				
UV - IR	113	Excimer-CO2	polymer light pink 70%	190-380nm OD>9 9000-11000nm OD>5	180 - 315	7	4	4	-	LGF	31-3988	-	anti-scratch
					9000 - 11000	3	-	-	-				
UV-visible	103	Argon/KTP	polymer orange 50%	190-532nm OD7	180 - 315	8	4	4	-	XC	31-80103	anti-fog	anti-scratch
					>315 - 532	6	7	7	-	Flex Seal	31-70103	anti-fog	anti-scratch
					180 - 315	8	4	4	-				
					>315 - 532	6	7	7	-	LGF	31-30103	-	anti-scratch
					180 - 315	8	4	4	-				
					>315 - 532	6	7	7	-	Encore	31-21103	-	anti-scratch
					180 - 315	8	4	4	-				
					>315 - 532	6	7	5	-				

  

Wavelength range*	Filter Number	Filter Description	Filter material Filter colour	Optical Density	EN 207 : 2009 certification					Frame	P/N	ANTI-FOG COATED	ANTI-SCRATCH COATED
					Wavelength nm	D LB	I LB	R LB	MLB				
UV-visible		Ar-Kr-Cu-Diode	glass red 16%	not marked with ODs	180-315	8	4	4	-	BM Low	B-S000000-4015.436	-	-
					> 315-400	5	7	6	-				
					> 400-545	5	7	6	6Y				
					> 545-560	5	6	6	6				
					> 560-565	5	5	5	5	KB Low	B-205413-0000.005	-	-
					> 565-570	4	4	4	4				
					180-315	9	4	4	-				
					> 315-545	5	7	7	7Y				
					> 545-560	5	6	6	6				
					> 560-565	5	5	5	5				
> 565-570	4	4	4	4									



					Wavelength nm	D LB	I LB	R LB	M LB													
IR	182	Alex-Diode-YAG	polymer green-brown 32%	OD>6 @ 755-765nm OD>6 @ 800-815nm OD>6 @ 1064nm	755-765 800-815 1064	6 6 6	6 6 6	6 6 6	- - -	XC	31-80182	anti-fog	anti-scratch									
UV-IR	162	High Transmission HT-YAG & Diodes	polymer green 57%	200-400nm OD>8 401-415nm OD>5 800-825nm OD>6 920-1064nm OD>6 10600nm OD>6	Wavelength nm	D LB	I LB	R LB	M LB	XC	31-80162	anti-fog	anti-scratch									
					315 - 400	6	6	6	6													
					800 - 825	6	6	6	5													
					>825-835	5	5	5	5													
					910 - 920	5	5	5	5													
					>920 - 1064	6	6	6	6													
					10600	3	3	-	-													
					315 - 400	6	6	6	6													
					800 - 825	6	6	6	-													
					>825 - 835	5	5	5	-													
					>920 - 1064	6	6	6	6													
					10600	3	3	-	-													
					315-400	6	6	5	6													
					800-825	6	6	5	-													
					>825 - 835	5	5	5	-													
910-920	5	5	5	5																		
>920-1064	6	6	5	6																		
10600	3	3	-	-																		
IR	40	Crystal Clarity 755-2850nm	glass/dielectric light grey 72%	755 - 810 OD>5 950-2300nm OD>4 1040-1550nm OD>5 2850-10600nm OD>4 10600nm OD>5	Wavelength nm	D LB	I LB	R LB	M LB	Encore	B-21040	-	-									
					755 - 810	5	5	5	-													
					950 - 1040	4	4	4	-													
					>1040 - 1400	5	5	5	-													
					>1400 - 2300	4	4	-	-													
					>2850 - 3000	4	4	-	-													
					>3000 - 11000	3	3	-	-													
					IR	70	Diode-Nd:YAG	glass light blue >50%	690-1320nm OD>5 720-1220nm OD>7					Wavelength nm	D LB	I LB	R LB	M LB	Encore	B-21070	-	-
														720-1220	6	6	5	6				
IR	137	High Transmission HT-YAG	polymer yellow-green 55%	841-869nm OD>4 870-919nm OD>5 920 - 1064nm OD>7 10600nm OD>7						Wavelength nm	D LB	I LB	R LB	M LB	Rio	31-23137	-	anti-scratch				
					810 - 840	3	3	3	-													
					841 - 869	4	4	4	-													
					870 - 919	5	5	5	-													
					920 - 1064	5	7	7	-													
					9000 - 11000	3	3	-	-													
					900 - 919	5	5	5	-													
					920 - 1065	5	7	7	-													
					870 - 919	5	5	5	-													
					920 - 1064	5	7	5	-													
					9000 - 11000	3	3	-	-													
					870 - 919	5	5	5	-													
920 - 1064	5	7	7	-																		
9000 - 11000	3	3	-	-																		
IR	188	NEW GENERATION IR True Colour Vision	polymer grey 47%	OD>5 @ 1020-1050nm OD>7 @ 1050-1065nm OD>6 @ 1065-1070nm OD>5 @ 1070-1075nm OD>4 @ 1075-1085nm	Wavelength nm	D LB	I LB	R LB	M LB	Encore (cladded)	31-21188CL July from stock	-	anti-scratch									
					>1020-1050	5	5	5	5Y													
					>1050-1065	6	7	7	7Y													
					>1065-1070	6	6	6	6Y													
					>1070-1075	5	5	5	5Y													
					>1075-1085	4	4	4	4Y													
					>1020-1050	5	5	5	5Y													
					>1050-1065	6	7	5	6Y													
					>1065-1070	6	6	5	6Y													
>1070-1075	5	5	5	5Y																		
>1075-1085	4	4	4	4Y																		
IR	188	NEW GENERATION IR True Colour Vision	polymer grey 47%	OD>5 @ 1020-1050nm OD>7 @ 1050-1065nm OD>6 @ 1065-1070nm OD>5 @ 1070-1075nm OD>4 @ 1075-1085nm	Wavelength nm	D LB	I LB	R LB	M LB	XC	31-80188 May from stock	anti-fog	anti-scratch									
					>1020-1050	5	5	5	5Y													
					>1050-1065	6	7	5	6Y													
					>1065-1070	6	6	5	6Y													
					>1070-1075	5	5	5	5Y													
					>1075-1085	4	4	4	4Y													
					IR	188	NEW GENERATION IR True Colour Vision	polymer grey 47%	OD>5 @ 1020-1050nm OD>7 @ 1050-1065nm OD>6 @ 1065-1070nm OD>5 @ 1070-1075nm OD>4 @ 1075-1085nm					Wavelength nm	D LB	I LB	R LB	M LB	Encore	31-21188 May from stock	-	anti-scratch
														>1020-1050	5	5	5	5Y				
														>1050-1065	6	7	5	6Y				
>1065-1070	6	6	5	6Y																		
>1070-1075	5	5	5	5Y																		
>1075-1085	4	4	4	4Y																		

					Wavelength nm	D LB	I LB	R LB	MLB								
IR	186	NEW GENERATION IR True Colour Vision	polymer grey 25%	960-1070 OD >5	960 - 1070	5	-	-	-	Encore	31-21186	-	anti-scratch				
													XC	31-80186	anti-fog	anti-scratch	
					Wavelength nm	D LB	I LB	R LB	MLB								
IR	170	YAG-Diode OD8	polymer yellow-green 45%	875-1075nm OD>8 1076-1080nm OD>7 910-1066nm OD>8 1067-1082nm OD>6	920 -1065	6	8	8	8	XC	31-80170	anti-fog	anti-scratch				
					>1065 -1080	6	6	6	6								
					920-1065	6	8	8	8Y	Rio	31-23170	-	anti-scratch				
					>1065-1080	6	6	6	6Y								
					Wavelength nm	D LB	I LB	R LB	MLB								
IR	108	NdGa:YAG	polymer green 32%	770-810nm OD>5 810-1100nm OD>7 1064nm OD>10	770 - 1100	5	-	-	-	Flex Seal	31-70108	anti-fog	anti-scratch				
					770 - 810	5	5	5	-								
					>810 - 1080	5	7	7	-								
									9000 - 11000	3	3	-	-	LGF	31-3982	-	anti-scratch
									770 - 1100	5	-	-	-				
									770 - 810	5	5	5	-				
				>810 - 1080	5	7	7	-									
				9000 - 11000	3	3	-	-									
					Wavelength nm	D LB	I LB	R LB	MLB								
IR	96	Nd:YAG-Ho-Er-CO2	glass grey 75%	950-1000nm OD>6 1000-1060nm OD>7 1060-1400nm OD>8 1400-2600nm OD>4 2600-2800nm OD>3 2800-11000nm OD>4	>950-1000	6	6	6	6	Rio	B-23096	-	-				
					>1000-1060	6	7	7	7Y								
					>1060-1400	6	8	8	8Y								
					>1400-2600	4	4	-	-								
									>2600-2800	3	3	-	-	New York	B-61096	-	-
									>2800-11000	4	4	-	-				
									>950-1040	4	4	4	-				
									>1040-1400	5	5	5	-				
									>1400-2300	4	4	-	-				
									2850 - 3000	4	4	-	-				
									>3000-11000	3	3	-	-				
									>950-1000	6	6	5	6	Encore	B-21096	-	-
									>1000-1400	6	7	5	6Y				
									>1400-2600	4	4	-	-				
									>2600-11000	3	3	-	-				
									>950-1000	6	6	6	-	LS6 Goggle	B-LS696	-	-
				>1000-1060	6	7	7	-									
				>1060-1400	6	8	8	-									
				>1400-2600	4	4	-	-									
				>2600-2800	3	3	-	-									
				>2800-11000	4	4	-	-									
					Wavelength nm	D LB	I LB	R LB	MLB								
IR		Nd:YAG-Ho-Er-CO2	glass grey >70%	not marked with ODs	900-1000	5	5	5	-	BM Light	B-205436-9415.004	-	-				
					> 1000-1030	7	7	7	7Y								
					> 1030-1400	7	8	8	8Y								
					> 1400-2500	5	5	5	-								
					> 2500-2800	4	4	4	-								
					> 2800-3000	5	5	5	-								
									9000-11500	5	5	-	-				
									900-1000	5	5	5	-	KB AL	B-205480-9006.004	-	-
									> 1000-1030	7	7	7	7Y				
									> 1030-1400	7	8	8	8Y				
									> 1400-2500	5	5	5	-				
									> 2500-2800	4	4	4	-				
				> 2800-3000	5	5	5	-									
				9000-11500	5	5	-	-									

					<i>Wavelength nm</i>	<i>D LB</i>	<i>I LB</i>	<i>R LB</i>	<i>M LB</i>				
IR	107	Diode 804-1755	polymer green 16%	804-1300nm OD>3 1064nm OD>5 1300 - 1700nm OD>4 1700 - 1900nm OD2	804 - 1400	3	3	3	-	LGF	31-2219	-	anti-scratch
					1064	5	5	5	5				
					>1400 - 1700	3	3	3	-				
					>1700 - 1900	2	2	2	-				
					804 - 1400	3	3	3	-				
					1064	5	5	5	5				
					> 1400 - 1700	3	3	-	-				
>1700 - 1900	2	2	-	-									
					<i>Wavelength nm</i>	<i>D LB</i>	<i>I LB</i>	<i>R LB</i>	<i>M LB</i>				
IR	131	High Transmission Erbium - Diode	polymer yellow 72%	810nm OD>6 808 - 820nm OD 5 821 - 830nm OD>3 2775 - 3780nm OD>7	808 - 810	5	6	-	-	LGF	31-30131	-	anti-scratch
					2775 - 3000	3	3	-	-				
					808 - 810	5	6	-	-				
					821 - 830	3	3	-	-				
					2775 - 3000	3	3	-	-				
					<i>Wavelength nm</i>	<i>D LB</i>	<i>I LB</i>	<i>R LB</i>	<i>M LB</i>				
IR	183	CO2	polymer clear 90%	9000-11000nm OD>5					Rio	31-23183	-	anti-scratch	
					9000 - 11000	4	4	-					-
					<i>Wavelength nm</i>	<i>D LB</i>	<i>I LB</i>	<i>R LB</i>	<i>M LB</i>				
IR	100	CO2	polymer clear >89%	9000-11000nm OD>5 10600 OD>7	9000 - 11000	4	4	-	-	XC	31-80100	anti-fog	anti-scratch
					9000 - 11000	3	3	-	-	LGF	31-3984	-	anti-scratch
					9000 - 11000	3	3	-	-	Encore	31-21100	-	anti-scratch
					<i>Wavelength nm</i>	<i>D LB</i>	<i>I LB</i>	<i>R LB</i>	<i>M LB</i>				
IR	9	CO2	glass clear 90%	9000-11000nm OD>5	5	5	-	-	Rio	B-23009	-	-	
				<i>not marked with ODs</i>	9000-11500	5	5	-	-	BM Light	B-S000000-3014.437	-	-
					9000-11500	5	5	-	-	KB AL	B-205480-9008.003	-	-