

Protection level: automatic. Colors: natural. Comfort: all-inclusive.

PERFECT VIEW DURING WELDING - ONLY FROM OPTREL:

- Fully automated shade level adjustment for any welding procedure in the 5-13 shade range.
- Natural-color view in the entire protection level range.
- Ultra-HD quality in classes 1/1/1/1.





AUTOPILOT WITH PROTECTION LEVELS 4/5-13



Light state

mode

Autopilot Range for all important work sequences

Adjusts automatically to the changing light conditions of the current welding method.

Automatic adjustment up to shade level 13!

optrel's exclusive Adaptive Shade Autopilot automatically adjusts to the appropriate shade level as you weld. An additional brightness sensor immediately detects changes in arc intensity and adjusts accordingly. You remain perfectly protected, regardless of your current welding parameters. Manual adjustment is no longer necessary – but it's available at the push of a button whenever you want it.

* The automatic pilot can be turned off and the shade level adjusted manually if necessary.



TWILIGHT FUNCTION

The sudden opening of conventional autodarkening lenses has been replaced by optrel's patented Twilight technology, opening the filter more fluidly from dark to light and reducing eye fatigue. DISCOVER OPTREL'S COMFORT FUNCTIONS.



www.optrel.com >> technology

Fully automatic with ultra-HD quality.



TRUE COLOR

A specially developed UV/IR filter allows the realistic color perception typical of optrel, bringing color to the welder's world.

STANDARD WELDING HELMET COLOR SPECTRUM

COLOR SPECTRUM OF THE OPTREL E684 WITH TRUE COLOR VIEW



The normal world of the welder: a green environment with weak color contrasts.

optrel's revolution: at long last, true color perception even during the welding procedure.



FOUR SUPERLATIVES: WELDING IN ULTRA-HD QUALITY

The optrel e684's autodarkening lens achieves the highest image quality standard in all four classifications:

OPTICAL CLASS:

CLASS 1

SCATTERED LIGHT:

CLASS 1

HOMOGENITY:

CLASS 1

ANGULAR DEPENDENCE:

CLASS 1

Its excellent viewing angle dependency in particular demonstrates the quality of the optrel autodarkening lens and makes working with the optrel e684 so enjoyable.



RESPIRATORY PROTECTION (PAPR)

The **optrel e684** can be used in perfect harmony with the optrel e3000 ventilated breathing system. With its integrated particle filter of the highest class (TH3), it reliably protects the welder's airways from smoke, aerosol, and dust.

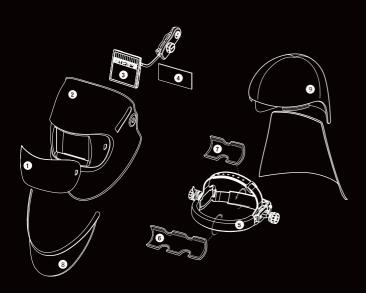


2+1-YEAR WARRANTY

Register your **optrel e684** at http://register.optrel.com and receive an additional year of warranty coverage free of charge.

Helmet sys	tem	Item no.	Helmet system	Item no.
	e684 welding helmet silver black dark blue	1006.500 1006.501 1006.502	optrel parking buddy	5002.900
Deg.	e684 welding helmet silver, with hard hat black, with hard hat dark blue, with hard hat	1006.550 1006.551 1006.552	Front cover lens (2 pcs Front cover lens (5 pcs	
	e684 PAPR helmet silver black dark blue	4441.600 4441.601 4441.602	Adjustable headband	5003.250
	e684 PAPR helmet silver, with hard hat black, with hard hat dark blue, with hard hat	4441.650 4441.651 4441.652	optrel bag for helmets	9410.043.00





Sp	are parts and accessories	Item no.
1	Front cover lens (2 pcs.) Front cover lens (5 pcs.)	5000.210 5000.212
2a	Helmet shell e684 silver black dark blue	5001.684 5001.610 5001.601
2b	PAPR helmet shell e684 silver black dark blue	4441.684 4241.007 4241.008
3	Spare ADF cartridge e684	5012.480
4	Inside cover lens (5 pcs.)	5000.001
5	Adjustable headband (including sweatband and comfortband)	5003.250
6	Cotton sweatband (2 pcs.)	5004.073
7	Comfortband (2 pcs.)	5004.020
8	Breast protector, leather	4028.015
9a	Head and neck protector, leather	4028.016
9b	Head and neck protector PAPR, leather	4028.031



Description	Fully automatic welding helmet (no manual adjustment necessary) with true color view, ADF with shade level range 4/5-13 with autopilot.		
Shade levels	inactive: Shade level	4	
	active: Shade level	5-13	
Autopilot	ADF with shade level range 4/5-13 autopilot (automatic shade level acment), +/- 2 individual manual offs	djust-	
Manual mode	Continuous external adjustment in shade level ranges 5-9 and 9-13	two	
Sensitivity	Continuously adjustable, new with "Super High" sensitivity		
Grind mode	External adjustment, shade level 4		
Twilight function	Patented twilight adjustment, adjustable from 0.1 to 2.0 seconds.		
Switching time	light to dark: 0.170 ms at room temperature 0.110 ms at 55 °C / 137 °F dark to light: 0.1 s - 2.0 s (with twilight function)		
Classification	Optical class:	1	
	Scattered light:	1	
	Homogeneity:	1	
	Angular dependence:	1	
Power supply	Solar cells, 2 pcs batteries 3V exchangeable (CR2032)		
Operating time batteries	Approx. 3,000 hours (operating)		

Sensors	movable sensor slider		
Field of view	50 x 100 mm / 1.97 x 3.94"		
Shape stability	Welding mask: up to 220 °C / 428 °F		
	Front cover lens: up to 137 °C / 279 °F		
Eye protection	Ultraviolet / Infrared Protection: maximum protection at any shade level		
Operating temperature	-10°C to + 70°C / 14°F to 158°F		
Storage temperature	-20°C to + 80°C / -4°F to 176°F		
Weight	500g / 17.6 oz		
Application ranges	Any electric arc welding process Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Plasmacutting & Oxy-gas Welding Prohibited for laser welding!		
Scope of delivery	Welding helmet, instruction manual, storage bag, batteries, warranty card and one front cover lens		
Standards	CE, ANSI, EAC, AS/NZS, complies with CSA Z94.3		
Warranty	2 years (except batteries)		
	1 year warranty extension for online product registration within the first 6 months. http://register.optrel.com		

Weld professionally in true color.



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