CRYSTALE

Crystal Lens Technology changes everything. You won't believe your eyes.

optrel





SEE WHAT YOU CAN DO



Crystal Lens Technology True color vision directly when welding.

With Crystal Lens Technology you see as a welder the joining. How the weld pool melts, how the weld seam is created. You can see how the filler material is immersed in the welding pool and gain complete control over your work.

Crystal Lens Technology 31% Light Transmission

Attenue

Scale + 10 x

Qsignal * "

CLT20



Crystal Lens Technology, CLT, offers you a brilliant vision, like through a window pane. Crystal clear. Thanks to optrel ShadeTronic you will always have the right protection level.

Optrel revolutionises the welder's work. Crystal Lens Technology changes everything.

Protection

Superior visibility before and during welding dramatically increases your safety at work. No stumbling. No unintentional contact with dangerous workpieces. Fewer injuries. Perfect all-around safeguard.

Comfort

The crystal 2.0 helmet makes previous occupational safety a worry of the past. The helmet is there, but it does not impede your work. You can work with ease as if you were not wearing it at all. Like all optrel helmet, the crystal 2.0 is one of the lightest welding helmets available, weighing just one pound.

Efficiency

Thanks to CLT, you can clearly see where the weld needs to start and where it ends. You can see grains and marks on the workpiece during welding. No more annoying interruptions to check the position of your welding torch.

View with an industry standard auto-darkening filter (limited color spectrum and strong darkening)

Color spectrum



Vision with Crystal Lens Technology (natural color spectrum and minimal darkening)

Color spectrum

Reduces the risk of accidents and improves occupational safety.

Leaves you less tired and ensures a more pleasant work day and better work results. Clear vision boosts performance by up to 30% due to fewer work interruptions, superior welding results and less rework.

approx. 1920 Welding with passive glass 1986 Welding with auto-darkening filter 2018 Welding with Crystal Lens Technology

optrel crystal 2.0 The enlightenment in welding.

Welding helmet and transparent visor in one

With the **crystal 2.0**, optrel for the first time offers a welding helmet equipped with the new CLT auto-darkening technology. This gives you a visual impression comparable to that through a window pane. In fact, 92% of the visible color spectrum corresponds to that of a neutral window pane. This also has a positive effect on the brightness level. With a protection level of 2.0 in it's light state, you can see your working environment as if you were not wearing an auto darkening lens at all.



ShadeTronic including protection level 2/4 -12

Light state

and

grinding

mode

Adjusts automatically to the changing light

ShadeTronic Range

for all important work sequences

conditions of the current welding method. automatic adjustment up to shade level 12!

Adaptive protection level control sets the right protection level automatically in a range between 4 and 12. This is ensured by an additional brightness sensor which measures the intensity of the welding arc. This means that you are perfectly protected at all times, no matter what parameters you are welding with. Manual adjustments are no longer necessary.



trel crystal2.0 silver	1006.900		Ready-to-Weld Package crystal2.0	4530.050
			e3000X with crystal2.0 silver, parking buddy & e3000X bag	
trel crystal2.0 black	1006.901		Ready-to-Weld Package crystal2.0 e3000X with crystal2.0 black, parking buddy & e3000X bag	4530.054
trel crystal2.0 PAPR silver	4441.900	23	Ready-to-Weld Package crystal2.0 swiss air with crystal2.0 silver, parking buddy & e3000X bag	4600.040
trel crystal2.0 PAPR black	4441.901		Ready-to-Weld Package crystal2.0 swiss air with crystal2.0 black, parking buddy & e3000X bag	4600.120
t	rel crystal2.0 PAPR silver	rrel crystal2.0 PAPR silver 4441.900	trel crystal2.0 PAPR silver 4441.900	Interference Interferee Interference I



			Spare parts	ltem no.
Accessories	optrel hardhat EN 397 industrial safety helmet, available in black, white, red, orange and yellow	Item no. 5011.130 5011.131 5011.132 5011.133 5011.133 5011.134	 Front cover lens (2 pcs.) Front cover lens (5 pcs.) 2a Helmet shell crystal 2.0 silver 2b Helmet shell crystal 2.0 black 2c PAPR Helmet shell crystal 2.0 	5000.210 5000.212 5001.690 5001.691 4261.008
	optrel hardhat adapter Usable with all optrel helmets	5011.180	 2d PAPR Helmet shell crystal 2.0 black 3 Spare auto-darkening cassette crystal 2 4 Inside cover lens (5 pcs.) 	4261.011
	optrel parking buddy	5002.900	 5 Adjustable headband (includes sweatba and comfort band) 6 Cotton sweatband (2 pcs.) 	
optrel backpo	optrel backpack for helmets	8000.100	7 Comfort band (2 pcs.)8 Chest protection leather	5004.020 4028.015
			9a Head and neck protection, leather 9b Head and neck protection PAPR, leather	4028.016 4028.031

The full-featured welder's helmet. optrel crystal 2.0

optrel's new flagship is packed with innovative technologies that make your work easier and more convenient.



Crystal Lens Technology with light State 2.0 Now you can clearly see what happens before, during and after welding.



ShadeTronic Protection level 4 to 12 The welder's helmet automatically adapts to changing light conditions.



FadeTronic You can always remain relaxed even in case of fast lighting changes.



Heat reflective paint Helping you keep a cool head at all times. (silver version only)



Sensor slide Set the sensor detection angle individually to suit your requirements.



Patented eccentric Positions the helmet optimally on your head – with just one twist.



Sensitivity control Adapts the helmet to your environment and requirements.



Comfort headband Guarantees optimal weight distribution and is easy on the neck.



Grinding mode

The brightest vision during grinding work ever to be offered by a welder's helmet.



3-year warranty after registration Simply register at optrel.com/register

WARNING: Welding with the crystal 2.0 is addictive

A totally different welding experience. optrel crystal 2.0

Technical data

Description	Fully automatic welder's helmet with very bright and clear vision, both before and during welding (light level 2.0 in combination with Crystal Lens Technology).		Dimensional stability		up to 220 °C	
			Eye protection	Front cover lens:up to 130 °CUltraviolet/infrared protection:Maximumprotection over the entire protection level		
Protection levels						
rotectionnevels	active, manual:	Protection levels 4-12		range		
ShadeTronic	dctive, manual. Protection levels 4-12 Automatic protection level range 4<12M with		Operating temperature	-10°C to + 70°C/ 14°F to 158°F		
			Storage temperature	-20°C to + 80°C/ -4°F to 176°F		
Voltage supply			Gross weight	497 g/17.0 oz		
Sensor system			Areas of application	All electrical welding processes: Electrode welding (Stick Welding, SMAW) / MIG/MAG (Metal Shielded Arc Welding, GMAW) / GMAW High Performance Welding / Filler Wire Welding / TIG Welding (TIG, GTAW) / Plasma Welding / Plasma Cutting / Grinding in Grinding Mode Not suitable for gas and laser welding!		
Sensitivity						
Switching time						
			Standards	CE, ANSI, EAC, fulfils CSA		
			Warranty	from date of purchase: 2 years for manufacturing and material defects, 6 months for battery		
Classification EN379						
			Warranty extension	1 year additional (battery excluded) for online product registration within the first 6 months (from date of purchase) on optrel.com/register		
						0 1

Your optrel retailer:



optrel AG industriestrasse 2 CH-9630 wattwil switzerland www.optrel.com info@optrel.com



industrial.optrel.com