

You won't believe your eyes.







CRYSTAL LENS TECHNOLOGY TRUE COLOR VISION DIRECTLY WHEN WELDING.

For the first time in the history of welding you as a welder see 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 37% Light Transmission

Qsignal * T

CLT20

Attendent Contractor



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

OPTREL REVOLUTIONISES THE WELDER'S WORK. CRYSTAL LENS TECHNOLOGY CHANGES EVERYTHING.

PROTECTION

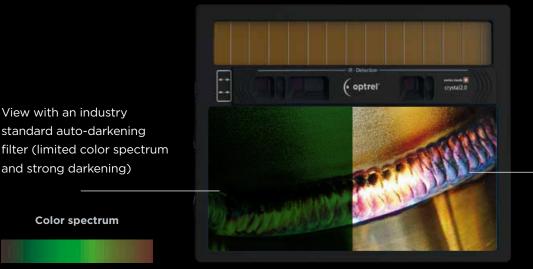
Superior visibility before and during welding dramatically increases your safety at work. No stumbling. No unintentional contact with dangerous workpieces. Fewer injuries. Perfect all-around safeguard.

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.



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

Color spectrum

Reduces the risk of accidents and improves occupational safety.

View with an industry

and strong darkening)

Color spectrum

standard auto-darkening

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

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Toowoomba Welding Supplies : www.tweld.com.au : Ph +61 7 4659 0044

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.

auto shade 4<12

AUTOPILOT INCLUDING PROTECTION LEVEL 2/4 -12

Light state

mode and

grinding

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 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.



Helmet system		Item no.	Main accessories		Item no.
	crystal 2.0 welding helmet, aluminium style	1006.900		optrel parking buddy (belt hook)	5002.900
29	crystal 2.0 welder's helmet including safety helmet, aluminium style	1006.660		Front cover lens (2 pcs.) Front cover lens (5 pcs.)	5000.210 5000.212
	crystal 2.0 fresh air helmet, aluminium style	4441.900		Adjustable headband	5003.250
3.	crystal 2.0 fresh air helmet including safety helmet, aluminium style	4441.910	L'annie	optrel backpack for helmets	8000.100
	- minite fifty				

Sp	are parts and accessories	Art. no.	
1	Front cover lens (2 pcs.) Front cover lens (5 pcs.)	5000.210 5000.212	
2a	Helmet shell crystal 2.0	4261.005	
2b	PAPR helmet shell crystal 2.0	4261.008	
3	Spare auto-darkening cassette crystal 2.0	5012.900	
4	Inside cover lens (5 pcs.)	5000.001	
5	Adjustable headband (includes sweatband and comfort band)	5003.250	
6	Cotton sweatband (2 pcs.)	5004.073	
7	Comfort band (2 pcs.)	5004.020	
8	Chest protection leather	4028.015	
9a	Head and neck protection, leather	4028.016	
9b	Head and neck protection PAPR. leather	4028.031	

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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



HEAT REFLECTIVE PAINT Helping you keep a cool head at all times



AUTOPILOT PROTECTION LEVEL 4 TO 12 The welder's helmet automatically adapts to changing light conditions



TWILIGHT FUNCTION You can always remain relaxed even in case of fast lighting changes



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 register.optrel.com

WARNING: Welding with the crystal 2.0 is addictive

A TOTALLY DIFFERENT WELDING EXPERIENCE. OPTREL CRYSTAL 2.0

TECHNICAL DATA

Fully automatic welder's helmet with very bright and clear vision, both before and during welding (light level 2.0 in combi- nation with Crystal Lens Technology).		Dimensional stability	/ Welding mask: up to 220 °C Front cover lens: up to 130 °C		
		Eye protection	Ultraviolet/infrared protection: Maximum protection over the entire protection leve		
inactive	Access level 2.0		range		
active, manual:	Protection levels 4-12	Operating	-10°C to + 70°C/ 14°F to 158°F		
Automatic protection level regulation over the protection level range 4<12M with individual calibration option of ±2.		temperature			
		Storage temperature	age temperature -20°C to + 80°C/ -4°F to 176°F		
		Gross weight	497 g/17.0 oz		
Solar cells, 2 lithium button cells (CR2032)		Areas of application	All electrical welding processes: Electrode welding (Stick Welding, SMAW) / MIG/MAG (Metal Shielded Arc Welding, GMAW) / GMAW High Performance Wel- ding / Filler Wire Welding / TIG Welding (TIG, GTAW) / Plasma Welding / Plasma Cutting / Gas Welding / Grinding in Grinding Mode Not suitable for laser welding!		
Three sensors					
Continuously adjustable, new with "Super High" sensitivity					
Light to dark: 0.100 ms at room temperature 0.070 ms at 55°C Dark to light: 0.1 s to 2.0 s (including lighting control function)					
		Scope of supply	Welder's helmet, operating instructions, storage bag, batteries, warranty card and front cover lens		
•		Standards	CE, ANSI, EAC, fulfils CSA		
Optical class:IScattered light class:1Homogeneity class:1Angle dependence class1of light transmittance:2		Warranty	2 years		
			Additional 1 year warranty extension for		
			product registration within the first 6		
			months on http://register.optrel.com		
	bright and clear v during welding (lii nation with Crysta inactive active, manual: Automatic protectio over the protectio with individual cal Solar cells, 2 lithiu (CR2032) Three sensors Continuously adju "Super High" sens Light to dark: 0.100 ms at room 0.070 ms at 55°C Dark to light: 0.1 s to 2.0 s (inclu function) Optical class: Scattered light clas Homogeneity class	bright and clear vision, both before and during welding (light level 2.0 in combi- nation with Crystal Lens Technology). inactive Access level 2.0 active, manual: Protection levels 4-12 Automatic protection level regulation over the protection level range 4<12M with individual calibration option of ±2. Solar cells, 2 lithium button cells (CR2032) Three sensors Continuously adjustable, new with "Super High" sensitivity Light to dark: 0.100 ms at room temperature 0.070 ms at 55°C Dark to light: 0.1 s to 2.0 s (including lighting control function) Optical class: 1 Homogeneity class: 1 Angle dependence class	Initial end clear vision, both before and during welding (light level 2.0 in combi- nation with Crystal Lens Technology).Eye protectioninactiveAccess level 2.0 active, manual:Coperating temperatureAutomatic protection level regulation over the protection level range 4<12M with individual calibration option of ±2.Operating temperatureSolar cells, 2 lithium button cells (CR2032)Gross weightThree sensorsGross weightContinuously adjustable, new with "Super High" sensitivityAreas of applicationLight to dark: 0.100 ms at room temperature 0.070 ms at 55°CScope of supplyDark to light: 0.1 s to 2.0 s (including lighting control function)StandardsOptical class: Scattered light class:1Homogeneity class: Angle dependence class1		

ABN 21 060 672 979

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We are an Australian locally owned family business

