

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.





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.

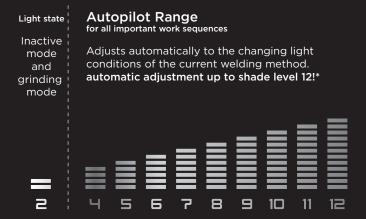
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OPTREL CRYSTAL 2.0 THE ENLIGHTENMENT IN WELDING.

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.

AUTOPILOT INCLUDING PROTECTION LEVEL 2/4 -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 access	Main accessories	
	crystal 2.0 welding helmet, aluminium style	1006.900		optrel parking buddy (belt hook)	5002.900
5	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
	crystal 2.0 fresh air helmet including safety helmet, aluminium style	4441.910		optrel backpack for helmets	8000.100
		2000X			
		(- optrei	Spare parts	and accessories	Art. no.
				er lens (2 pcs.) er lens (5 pcs.)	5000.210 5000.212
				nell crystal 2.0	5001.690
				met shell crystal 2.0	4261.008
				o-darkening cassette crystal 2.0	5012.900
				ver lens (5 pcs.)	5000.001
			5 Adjustabl	e headband (includes sweatband	5003.250

and comfort band)

6 Cotton sweatband (2 pcs.) 7 Comfort band (2 pcs.)

8 Chest protection leather

9a Head and neck protection, leather

9b Head and neck protection PAPR, leather

5004.073

5004.020 4028.015

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



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



SENSOR SLIDE

Set the sensor detection angle individually to suit your requirements



TWILIGHT FUNCTION

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



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

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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).			
Protection levels	inactive	Access level 2.0		
	active, manual:	Protection levels 4-	12	
Autopilot	Automatic protection level regulation over the protection level range 4<12M with individual calibration option of ±2.			
Voltage supply	Solar cells, 2 lithium button cells (CR2032)			
Sensor system	Three sensors			
Sensitivity	Continuously adjustable, new with "Super High" sensitivity			
Switching time	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)			
Classification	Optical class:		1	
EN379	Scattered light class	ss:	1	
	Homogeneity class	:	1	
	Angle dependence			
	of light transmittan	ice:	2	

Welding mask:	up to 220 °C		
Front cover lens:	up to 130 °C		
Ultraviolet/infrared protection: Maximum protection over the entire protection level range			
-10°C to + 70°C/ 14°F to 158°F			
-20°C to + 80°C/ -4°F to 176°F			
497 g/17.0 oz			
All electrical welding proce Electrode welding (Stick V / MIG/MAG (Metal Shielde GMAW) / GMAW High Per ding / Filler Wire Welding (TIG, GTAW) / Plasma We Cutting / Gas Welding / G Grinding Mode Not suitable for laser weld	Velding, SMAW) ed Arc Welding, formance Wel- / TIG Welding lding / Plasma irinding in		
Welder's helmet, operatin storage bag, batteries, wa front cover lens			
CE, ANSI, EAC, fulfils CSA			
2 years			
Additional 1 year warranty product registration within months on http://register.optrel.com			
	Ultraviolet/infrared protection over the entire range -10°C to + 70°C/ 14°F to 1 -20°C to + 80°C/ -4°F to 1 -20°C to + 80°C/ -4°F to 1 497 g/17.0 oz All electrical welding procelectrode welding (Stick V / MIG/MAG (Metal Shielder GMAW) / GMAW High Perding / Filler Wire Welding (TIG, GTAW) / Plasma Welding / Gas Welding / Grinding Mode Not suitable for laser welded Welder's helmet, operating storage bag, batteries, was front cover lens CE, ANSI, EAC, fulfils CSA 2 years Additional 1 year warranty product registration withing months on		

Your optrel retailer:

Metalas NV Slachthuislaan 21 2060 Antwerpen Tel. +32 (0)3/235.77.17

E-mail : <u>info@metalas.be</u> <u>www.metalas.be</u>



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

