CRYSTALE

Crystal Lens Technology changes everything.

You won't believe your eyes.







SEE WHAT YOU CAN DO



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.

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.

Adjusts automatically to the changing light mode and conditions of the current welding method. automatic adjustment up to shade level 12!* grinding mode

Autopilot including protection level 2/4 -12

Autopilot Range for all important work sequences

Light state

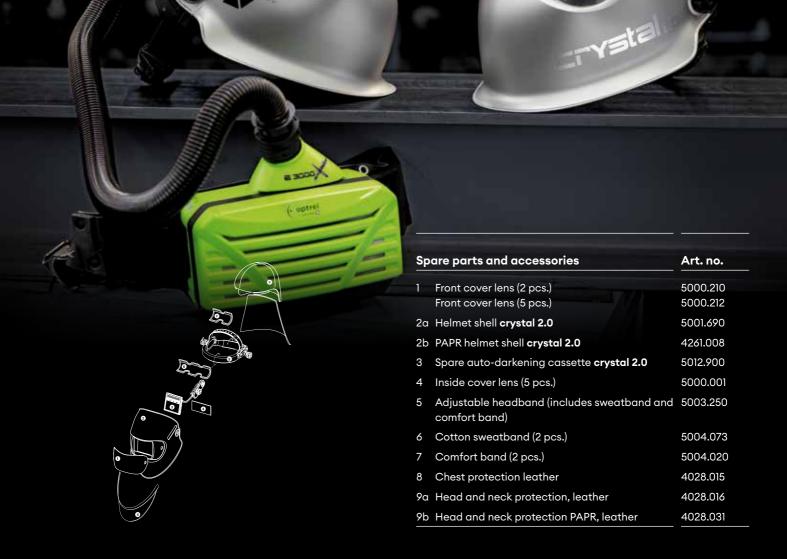
Inactive



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 | 1 | optrel parking buddy (belt hook) | 5002.900 |
| 6.38 | 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 | 1/1 | optrel backpack for helmets | 8000.100 |
| | SK. | | | | FOID |



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 r egister.optrel.com.

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). | | | |
|-------------------|--|------------------------|--|--|
| 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 (includin function) | ng lighting control | | |
| Classification | Optical class: | 1 | | |
| EN379 | Scattered light class: 1 | | | |
| | Homogeneity class: 1 | | | |
| | Angle dependence class of light transmittance: 2 | | | |
| | Angle dependence | | | |

| 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 level range | | |
| Operating temperature | -10°C to + 70°C/ 14°F to 158°F | : | |
| Storage temperature | -20°C to + 80°C/ -4°F to 176° | F | |
| Gross weight | 497 g/17.0 oz | | |
| 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! | | |
| Scope of supply | Welder's helmet, operating storage bag, batteries, ward front cover lens | | |
| Standards | CE, ANSI, EAC, fulfils CSA | | |
| Warranty | 2 years Additional 1 year warranty extension for product registration within the first 6 months on http://register.optrel.com | | |

Your optrel retailer:



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