

# SPHERE X SERIES



**NEW**  
Field of view over  
30% larger!



Light State  
**2-3\***  
\*depending on model



Your view into infinity



PROTECTING  
PROFESSIONALS



Perfect for  
your mission

**A welding helmet  
of the next generation –  
developed for perfect results.**

**Take advantage of its clever features now:**

- A **field of view** that is **over 30% larger**, combined with **Crystal Lens Technology (CLT)** for a perfect viewing experience in every situation.
- Three-dimensionally adjustable **IsoFit® X headgear** for increased comfort. Ideal for work where a helmet is required thanks to its **integrated industrial safety helmet adapter**. You can easily attach the **industrial safety helmet with just 2 clicks**.
- Stabilisation of your helmet shell with our **two-position locking function (Position Locker)**, because we always offer you comfortable and safe working solutions.
- Proven technologies such as **ShadeTronic®** and **Multi-Sensor Detection with 5 sensors** ensure that your PPE keeps pace with technological advances in safety.
- The **smoke-repellent helmet shell design** protects your health even better against harmful substances and always gives you a clear view. For higher quality work with fewer errors.

**What makes CLT different from other technologies?**

While standard helmets depict the world in neutral tones, CLT 2.0 renders exact colours across the entire spectrum, in high contrast and with unparalleled brightness. The result is a **precise** and **true-colour view** of the welding area. This makes it easier for you to machine the weld pool while offering an unimpeded and **crystal-clear view** of the entire work area before, during and after welding. All of this is possible **thanks to a high-tech coating process** which is carried out in a vacuum chamber with atmospheric conditions simulating the space environment.

Try it now  
and experi-  
ence the  
difference!

# SPHERE X

## SERIE



### SPHERE XCLT

#### Perfect for TIG and precision welding

Vision like in daylight – even in the lowest ampere range. Ideal for delicate seams and the highest demands.

- Crystal-clear brightness level 2.0 for an optimum view, even between the welding points
- Perfect for stainless steel, aluminium and thin sheet metal
- Minimal colour distortion, highest level of detail



### SPHERE XQUATTRO

#### For high-ampere applications and heavy-duty steel construction

Maximum protection when working with the very highest of currents. Unbeatable viewing angle class VI combined with colour fidelity for precise seam inspections.

- Perfect for heavy-duty constructions
- Protection levels 5–13 for extreme applications
- Robust design for harsh environments



### SPHERE X2.5

#### The all-rounder for everyday use

Versatility meets comfort – for welders who have to tackle new challenges on a daily basis.

- TrueColor view for realistic colours
- Protection levels 5–12 for MIG, MAG, electrode welding and grinding
- Durable, lightweight and versatile

#### Ready-to-weld (RTW) complete solution – for even greater safety:



- Automatic welding helmet + respiratory protection **swiss air** (device-independent)



- Automatic welding helmet (PAPR-version) + respiratory protection **e3000X**

#### Trade in your old optrel helmet and receive a credit towards a new purchase:

- € 100.– for helmets,
- € 200.– for respiratory protection devices, and
- € 300.– for complete systems.

Contact your optrel dealer to learn more!

Trade-In offer!

# AVAILABLE IN THREE VERSIONS

## TECHNICAL DATA



### SPHERE X QUATTRO

Art. no. 1006.580  
pure air: Art. no. 4441.605



### SPHERE X CLT

Art. no. 1006.980  
pure air: Art. no. 4441.905



### SPHERE X 2.5

Art. no. 1006.680  
pure air: Art. no. 4441.805

**Field of view over 30% larger**  
(compared to the sphere series)



System weight of  
sphereX welding helmet  
incl. IsoFit® X headgear

640 g

640 g

640 g

**optrel industrial safety helmet**  
(according to EN 397 standard)

**Including  
IsoFit® X headgear**

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IsoFit® X headgear**

ShadeTronic®  
(fully automatic protection  
level adjustment, infinitely  
variable, can be switched off)

Shade levels 5 – 13  
with ShadeTronic®  
(5 – 13 manual)

Shade levels 5 – 12  
with ShadeTronic®,  
(4 – 12 manual)

Shade levels 5 – 12  
with ShadeTronic®,  
(4 – 12 manual)

Brightness level

3.0

2.0

2.5

Overhead welding and  
welding in extreme positions



Position Locker (safe open and  
closed helmet position)



FadeTronic (Twilight mode)



Classification

ISO 16321-2 V1  
(best viewing angle  
dependence class)

EN 379 1/1/1/2

ISO 16321-2 V2  
(viewing angle dependence)

Power supply

Battery  
(approx. 1500 hrs  
operating time)

Battery  
(approx. 1500 hrs  
operating time)

Battery  
(approx. 1500 hrs  
operating time)

**Areas of application**

**High-ampere applications,  
heavy-duty steel construction**

**Ideal for TIG**

**All-rounder**

All electric welding processes

Electrode welding (stick welding, SMAW) / MIG / MAG (gas metal arc welding, GMAW) / GMAW  
GMAW high-performance welding / flux-cored wire welding / TIG welding (GTAW) /  
plasma welding / micro plasma welding / plasma cutting  
gas welding, grinding work in grinding mode

**Not suitable for laser welding!**

Grinding with Grind mode



**Sensors**

**5 sensors**

Sensitivity

Infinitely variable adjustment, now with "Super High" sensitivity

Standards and norms

CE, ANSI, EAC, UKCA, AS/NZS, CSA Z94.3 complied with

Warranty

2-year warranty **+1 additional year** upon registration  
(excludes battery, product registration within the first 6 months) at  
[www.optrel.com/register](http://www.optrel.com/register)



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