




AVAILABLE IN THREE VERSIONS
TECHNICAL DATA

			
	SPHERE X QUATTRO	SPHERE X CLT	SPHERE X 2.5
	Art. no. 1006.580 pure air: Art. no. 4441.605	Art. no. 1006.980 pure air: Art. no. 4441.905	Art. no. 1006.680 pure air: Art. no. 4441.905
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 hart hat (according to EN 397 standard)	IsoFit® X Headgear inclusive	IsoFit® X Headgear inclusive	IsoFit® X Headgear inclusive
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 years for manufacturing and material defects, 6 months for battery 1 year additional (battery excluded) for online product registration within the first 6 months (from date of purchase) on optrel.com/register		

The following applies to all products in this catalogue: Subject to errors, alterations and prior sale. The same applies to any images.

SPHERE X
SERIES



NEW
Field of view over 30% larger!

Your view into infinity



Light State
2-3*
*depending on model



Position Locker



IsoFit® X
Headgear



optional
industrial safety
helmet



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 dif-
ference!

SPHERA X SERIES



SPHERA X CLT

Perfect for TIG and precision welding

Vision like indaylight – 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



SPHERA X QUATTRO

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



SPHERA X 2.5

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

PAPR
Versions
available!

**Also available in Ready-to-weld (RTW) kits -
a complete solution for even greater safety:**



NIOSH Approved PAPR helmet
with e3000x respiratory protection
blower and carry bag
Available in all lens versions