

PANDRAMAXX

LASER SERIES



laser welding
eye protection



crystal lens
technology



panoramic
field of view

NEW!

The revolution
in welding!



for laser welding
& arc welding

2 IN 1

A COOPERATION OF



laservision
ENGINEERED
LASER PROTECTION



Ideal companion for hand-held laser welding and conventional arc welding

During laser welding, the infrared radiation can cause immediate and irreparable damage to eyesight due to its deep penetration depth. Damage is even possible from reflections. Suitable eye as well as face protection is therefore essential. Respiratory protection systems are also essential to prevent the inhalation of invisible pollutants during the laser process.

The best of both worlds

A COOPERATION OF

Expert know-how in all aspects
of **welding protection**



Expertise in the field
of **laser protection**

laservision
ENGINEERED
LASER PROTECTION

A helmet series with many user benefits:



INTEGRATED LASER SAFETY GOGGLES

Closed eye protection thanks to the patent-pending inner-frame solution.



CRYSTAL LENS TECHNOLOGY (CLT)

For improved perception and crystal-clear vision.



POSITION LOCKER

New two-position locking function for a securely opened or closed helmet. The helmets without fresh air (pure air) can also be fitted with the optrel hard hat (construction helmet).



PANORAMAXX- XXL FIELD OF VIEW

Six-times larger field of vision than standard welding helmets thanks to the nose cut-out.



LIGHT AS A FEATHER AND WELL BALANCED

For maximum comfort and perfect ergonomics.



LASER AND WELDING PROTECTION

New with ISO certification of the welding filter and certification of the laser protection filter (excluding panoramaxx L).

Say hello to our panoramaxx-laser-series packages:

All helmets of the **new panoramaxx-laser-series** can be upgraded **with** the world's largest selection of **TH3-certified respiratory protection solutions** thanks to full compatibility with e3000X/suppliedair (hybrid models) and swiss air (all models).

Package 1



panoramaxx
hybrid clt / hybrid / L



swiss air
PAPR system

Package 2 or 3



panoramaxx pure air
hybrid clt / hybrid / L



e3000X
PAPR system

or



suppliedair
Respiratory protection system
with compressed air connection

	PANORAMAXX HYBRID CLT	PANORAMAXX HYBRID	PANORAMAXX L
	Art. no. 1010.302 pure air: Art. no. 4441.882	Art. no. 1010.301 pure air: Art. no. 4441.881	Art. no. 1010.300 pure air: Art. no. 4441.880 specific laser applications
Laser protection	✓	✓	✓
Wavelength range	1030 - 1100 nm	1000 - 1100 nm	1000 - 1086 nm
Eye protection	16321 OS W2.5/3-8/4x12 V2 +TIG 1030-1100 D LB7 IR LB7 OS 1030-1100 OD7 C5 PS3 ISO 19818-1 OS CE	16321 OS W3/4-9/5x13 V2 1000-1100 D LB7 IR LB8 OS 1000-1100 OD7 C5 PS3 ISO 19818-1 OS CE	2 OS 1 S 1000-1086 D LB7 IR LB8 OS 1000-1086 OD8 C5 PS3 ISO 19818-1 OS CE
Face and head protection	16321 OS W15 E 1-M 1000-1100 D LB4 IR LB5 OS B 1000-1100 OD5 C2 PS3 ISO 19818-1 OS E CE	16321 OS W15 E 1-M 1000-1100 D LB4 IR LB5 OS B 1000-1100 OD5 C2 PS3 ISO 19818-1 OS E CE	OS 175 B 500g 1000-1100 D LB4 IR LB5 OS B 1000-1100 OD5 C2 PS3 ISO 19818-1 OS E CE
Panorama XXL field of vision	✓	✓	✓
System weight (with IsoFit® Headgear, without fresh air supply)	685 g	695 g	605 g
ShadeTronic®	✓	✓	-
Position Locker	✓	✓	✓
Ampere range	Up to 280 A Protection levels 4-12	Up to 280 A Protection levels 5-13	-
Brightness level	2.5	3.0	2.0
FadeTronic	✓	✓	✓
Welding protection classification EN 379, ISO 16321-2	1/1/1/2	1/1/1/2	-
Laser protection classification EN 207, ISO 19818-1	✓	✓	✓
optrel IsoFit® Headgear	✓	✓	✓
Power supply	Solar cells, Li-polymer battery, rechargeable via micro USB cable, battery life 300 to 500 charging cycles		-
Five sensors	✓	✓	-
Sensitivity	Infinitely variable sensitivity adjustment with "Super High" sensitivity range		-
Dimensional stability	Welding protection mask: Up to 220 °C. Protection lens: 137 °C		
Eye protection	Ultraviolet/infrared protection: Maximum in the entire protection level range		-
Areas of application	Laser welding, laser cleaning, laser cutting. All electric welding processes: Electrode welding (stick welding, SMAW) / MIG / MAG (gas metal arc welding, GMAW) / GMAW high-performance welding / flux-cored wire welding / TIG welding (TIG, GTAW) / plasma welding / microplasma welding / plasma cutting, gas welding, grinding work in grinding mode. Also suitable for overhead welding!		Laser cleaning, laser cutting, inspection tasks with a laser welding robot Grinding work
Standards	CE, ANSI, UKCA, AS/NZS, fulfils CSA Z94.3 Complies with ISO 16321 standards "TIG+" ("low amp TIG" process)	CE, ANSI, UKCA, AS/NZS, fulfils CSA Z94.3	-
Guarantee	2-year warranty + 1 additional year upon registration (excludes battery, product registration within the first 6 months) at www.optrel.com/register		Two years from date of purchase for manufacturing and material defects

