

## PANDRAMAXX SERIES

## Maxximize your horizon.



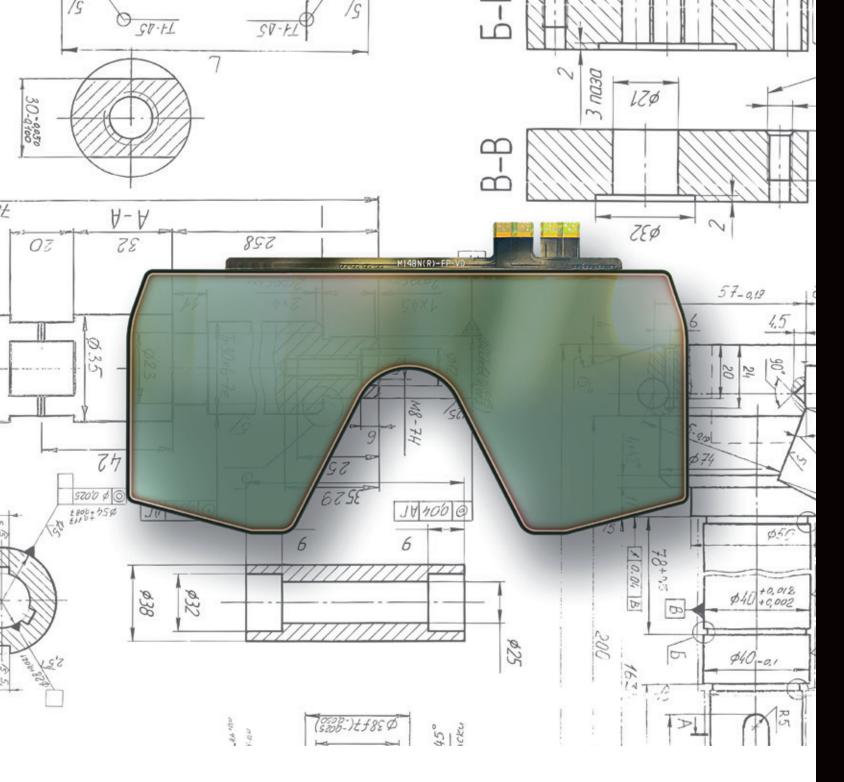
2.5



SEE WHAT YOU CANDO







Closer. Further ahead.

# A nose cut-out changes everything.

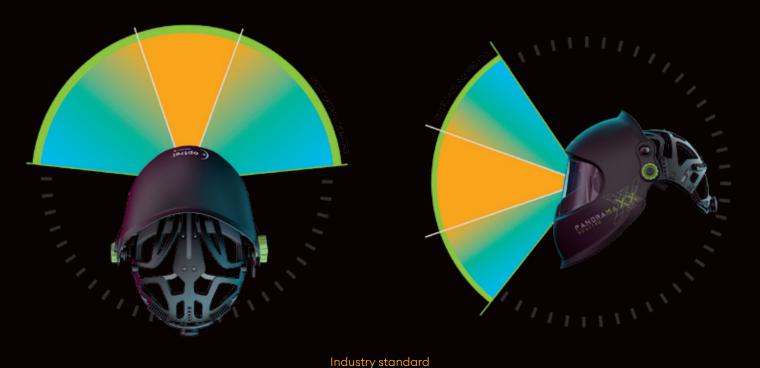
Without a doubt, the nose is one of our most important organs and takes our senses into the fifth dimension. However, when it comes to enlarging the welder's field of vision with the antiglare display, the nose can often get in the way.

Thus, we removed all conventional characteristics and created the innovative nose cutout to enhance comfort and visibility. The result is impressive. More

than a 600% larger field of view without an increase in the weight and shape of the helmet. Additionally, this prevents you from breathing on the display and causing the lens to fog.

Our pragmatic approach is so new and innovative that several patents have been granted for it - and guarantees its uniqueness.

For comparison: A conventional ADF without nose cut-out would have to have a size of  $180 \times 120 \text{ mm}$  (W x L) to achieve the same field of view as the panoramaxx Series.



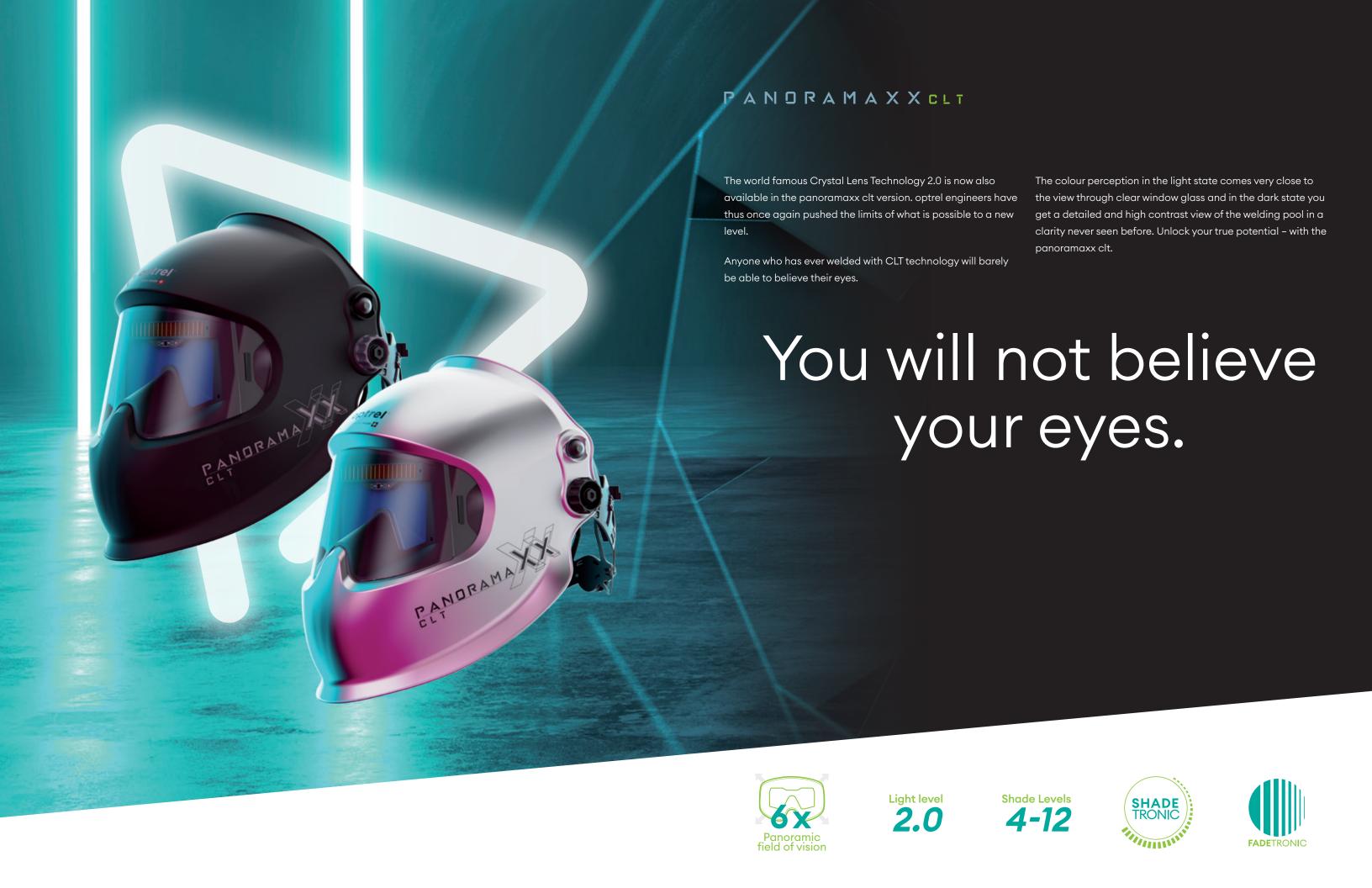
optrel panoramaxx field of vision













## Comes with every optrel panoramaxx helmet as standard.

The optrel IsoFit® headgear sets a new standard in terms of wearing comfort. It is the only product worldwide that can be adjusted in width, length and height – i.e. three-dimensionally – to any head shape, so that the helmet really fits "like a glove". panoramaxx 2.5, quattro and clt all come with this headgear as standard.

Outside, secure layer position

Large, replaceable comfort pad to make wearing it pleasant offers 100% more contact surface for perfect weight distribution

Inside, flexible layer support

Individually adjustable forehead stabiliser

Individually height adjustable

Individually adjustable stabiliser for the back of the head

Precise and infinitely adjustable cable pull system for a perfect fit

With a quick release function to allow it to be opened in milliseconds

OPTREL ISONT HEADGEAR

Just fits perfectly.

The optrel panoramaxx as a personal assistance system.

## Fully equipped as standard.

In addition to the large field of vision and crystal-clear optics, which form an actual assistance system, all members of the panoramaxx series are equipped with the latest digital electronics. The patented Shadetronic and Fadetronic technologies in combination with the 5-point sensor system and the re-charge energy concept are the core elements.

They enable welders to focus on their work and allow them to work without interruption. This results in quality and efficiency. Thanks to the ergonomic design of the perfectly fitting optrel IsoFit® headgear, the panoramaxx is light as a feather and fatigue-free. All panoramaxx welding helmets are highly robust at the lowest weight and protect users against external mechanical impacts such as high speed particles which hit the helmet at up to 120 m/s. And thanks to grinding mode, which can be easily operated externally, and the incomparable appearance, even grinding work is more fun.



### ShadeTronic®

Setting the correct shade level is the most important and at the same time the most neglected function on a welding helmet.

This important task is performed by the patented optrel ShadeTronic® technology. A highly developed light sensor permanently measures the intensity of the welding arc and regulates the glare protection in the active state continuously from protection level 4 to the maximum protection level 13 fully automatically. This enables the welder to achieve optimum dimming and thus uninterrupted work at any welding light intensity. Experience the ShadeTronic® technology in the hot start at the beginning or during the crater filling function at the end of the welding process or simply when welding with different intensities.



#### FadeTronic

With the patented optrel Fadetronic technology, the opening of the anti-glare display can be continuously adjusted

after welding. The unpleasant afterglow is faded out – especially for high ampere applications. Eye fatigue is significantly reduced thanks to the display opening smoothly and being adapted to the eye.



## TrueColor view

All panoramaxx welding helmets are characterized by a realistic color perception, which can be adjusted to the scope

of duties coordinated. The Swiss made UV-IR-protective filters consist of more than 30 ultra-thin high-tech layers, which provide the most natural and clearest view of the welding task in the respective task area. Whether for all-round tasks with 2.5, heavy metal construction with quattro or metal surgery with Crystal Lens Technology: the filter perfectly matched to the task is built into every system.



## 5-point Detection

The optrel 5-point detection integrated in the panoramaxx series is an

intelligent sensor control with five sensors. Sophisticated software and clever positioning of four sensors at the corners and one sensor in the upper centre ensures the glare shield is switched on and off perfectly, even in the most difficult lighting conditions and in constrained positions, as well as permanent dark level adjustment (Shadetronic®, patented) during welding.



## optrel re-charge

The unique and environmentally-friendly optrel re-charge energy concept ensures that welding helmets always

have enough energy. Thanks to the latest solar technology, a rechargeable lithium-polymer battery is recharged either by the welding light or by the ambient light. In addition, the battery can also be charged directly with any USB charger via a micro-USB interface. The tiresome changing of batteries is no longer necessary and the environment is protected.



## Grinding mode

Like most optrel welding helmets, the products in the panoramaxx series have a grinding mode. It can be conveniently

operated externally by means of a robust and well-protected pressure switch. Once activated, the anti-glare display remains deactivated, which guarantees trouble-free grinding work. At the touch of a button, the glare shield is then immediately ready for welding work. Your optrel welding helmet becomes a true multifunctional work safety device.



## roduct comparison

ShadeTronic® (fully automatic protection level adjustment with

Suitable for welding overhead

and in a constrained position

individual calibration option of  $\pm 2$ )

Ampere range

Light level

FadeTronic

Grinding mode

Power supply

Sensor system

Switching time

Sensitivity

EN 379 classification

#### PANDRAMAXX PANDRAMAXX PANDRAMAXX QUATTRO 2.5 CLT Extended panoramic field of vision V V V Up to 280 A Up to 350 A Up to 280 A Protection levels 5-12 Protection levels 4-13 Protection levels 4-12 2.5 3.0 2.0 V V V 1/1/1/2 1/1/1/1 1/1/1/2 1 V Solar cells, Li-polymer battery, can be charged via micro-USB cable, battery life 300 to 500 charging cycles Five sensors Five sensors Five sensors Continuously adjustable, new with "Super High" sensitivity and tack mode Light to dark: Light to dark: Light to dark: 0.090 ms at 20°C 0.090 ms at 20°C 0.090 ms at 20°C 0.070 ms at 55°C 0.070 ms at 55°C 0.070 ms at 55°C Dark to light: 0.1 s to 2.0 s (with FadeTronic) Dark to light: Dark to light: 0.1 s to 2.0 s (with FadeTronic) 0.1 s to 2.0 s (with FadeTronic)

Welding mask: up to 220 °C, viewing pane: up to 137°C

Ultraviolet/infrared protection: Maximum protection over the entire protection level range

B (Impact at medium energy, resistance to a ball with a diameter of 6 mm, 0.86 g, 120 m/s)

-10°C to + 55°C/14°F to 131°F

-20°C to +70°C/ -4°F to 158°F

575g (20.3 oz) /

PAPR 745g (26.3 oz)

All electrical welding processes: Electrode welding (Stick Welding, SMAW) / MIG/MAG (Metal Shielded Arc Welding, GMAW) / GMAW High Performance Welding / Filler Wire Welding /

TIG Welding (TIG, GTAW) / Plasma Welding / Plasma Cutting / Gas Welding / Grinding in Grinding Mode / Not suitable for gas and laser welding!

Welding helmet, operating instructions, storage bag, micro-USB charging cable,

viewing pane, warranty card CE, ANSI, EAC, AS/NZS, compliant with CSA Z94.3, additionally with PAPR version EN 12941 (TH3) and suppliedair version EN 14594 (3B) Compliant with pr ISO 16321 standard "WIG+" ("low amp Tig")

2 years, Additional 1-year warranty extension (battery excluded) for product

registration within the first 6 months at register.optrel.com

575g (20.3 oz) /

PAPR 745g (26.3 oz)

silver 610g (21.5 oz) / PAPR 780g (27.5 oz)

black 600g (21.2 oz) / PAPR 770g (27.2 oz)

#### Dimensional stability

### Eye protection

Resistance against energy impact, helmet shell

Operating temperature

Storage temperature

Gross weight

Areas of application

Scope of supply

Standards

Warranty

Products

Welding helmets and accessories		Item no.	Welding helmets and accessories		Item no.	
150	optrel panoramaxx2.5 welding helmet (SN 2.5/5-12 ShadeTronic®) – black	1010.000		optrel panoramaxx clt welding helmet (SN 2/4-12 ShadeTronic®) – black	1010.200	
	optrel panoramaxx2.5 fresh air helmet (SN 2.5/5-12 ShadeTronic®) – black	4441.660-US		optrel panoramaxx clt welding helmet (SN 2/4-12 ShadeTronic®) – silver	1010.201	
	optrel panoramaxx2.5 RTW Ready-to-Weld Package, incl. e3000X PAPR system, panoramaxx2.5 fresh air helmet black and parking buddy	4550.551		optrel panoramaxx quattro welding helmet (SN 3/4-13 ShadeTronic®) – black	1010.100	
	<b>optrel hardhat</b> Hard hat white, ANSI Z89.1-2009	5011.141	\$	<b>optrel hardhat adapter</b> Usable with all optrel helmets	5011.180	
	optrel e3000X blower respiratory protection system with 18h power battery and bag	4553.000	91	optrel backpack for helmets	8000.100	



Sp	are parts and accessories	Item no.
1	Front cover lens external (set of 5)	5000.270
2	Nose protection pads (set of 2)	5003.600
3	Inside cover lens (set of 5)	5000.010
3а	Magnifying lens +1.00 Magnifying lens +1.50 Magnifying lens +2.00 Magnifying lens +2.50	5000.150 5000.151 5000.152 5000.153
4	IsoFit® headgear, black, black buttons IsoFit® headgear, black, green buttons IsoFit® headgear, black, grey buttons	5003.290 5003.291 5003.292
 5	Replacement pads for Tricot pad suitable for optrel IsoFit® headgear (5x, each consisting of 4 parts)	5004.290
<u>б</u> а	Head and neck protection, leather	4028.016
6b	Head and neck protection fresh air helmet, leather	4028.031
7	Chest protection, leather	4028.015

