

PANDRAMAXX SERIES

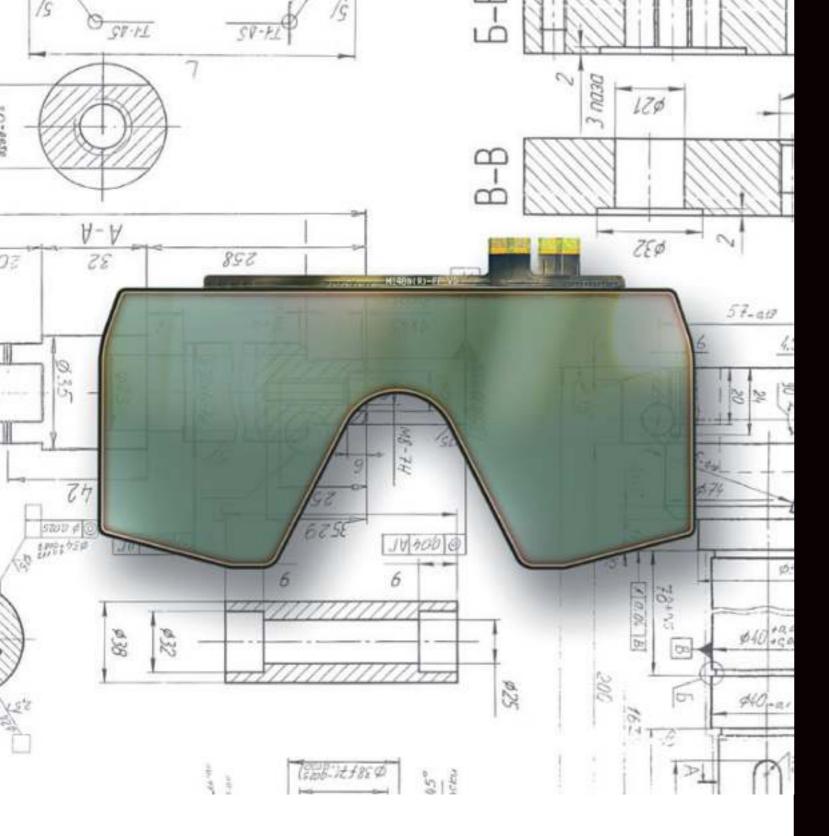
Maxximize your horizon.





SEE WHAT YOU CANDO





Closer. Further ahead.

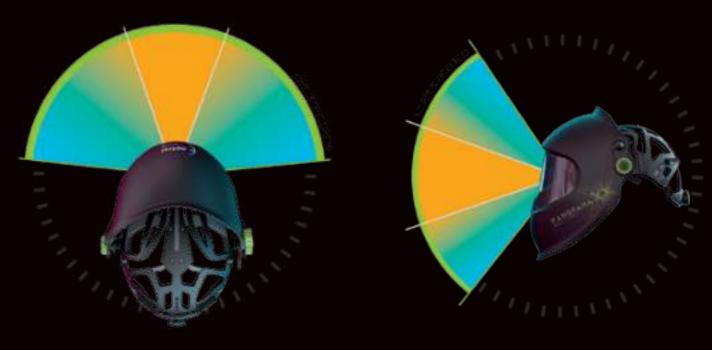
A nose cut-out changes everything.

Without a doubt, the nose is one of our most important organs and takes our senses into the fifth dimension. But when it comes to enlarging the welder's field of vision by positioning the anti-glare display, ergonomically optimal, closer to the eye, the nose gets in our way.

So we threw all conventions overboard and dared the technological chin-up to give the display a nose cutout. The result is impressive. More than 600% enlargement of the field of view without increasing the weight and shape of the welding helmet. The practical additional benefit is, due to the clear separation from the mouth area, you no longer breathe on the display and thus prevent the anti-glare window from tarnishing.

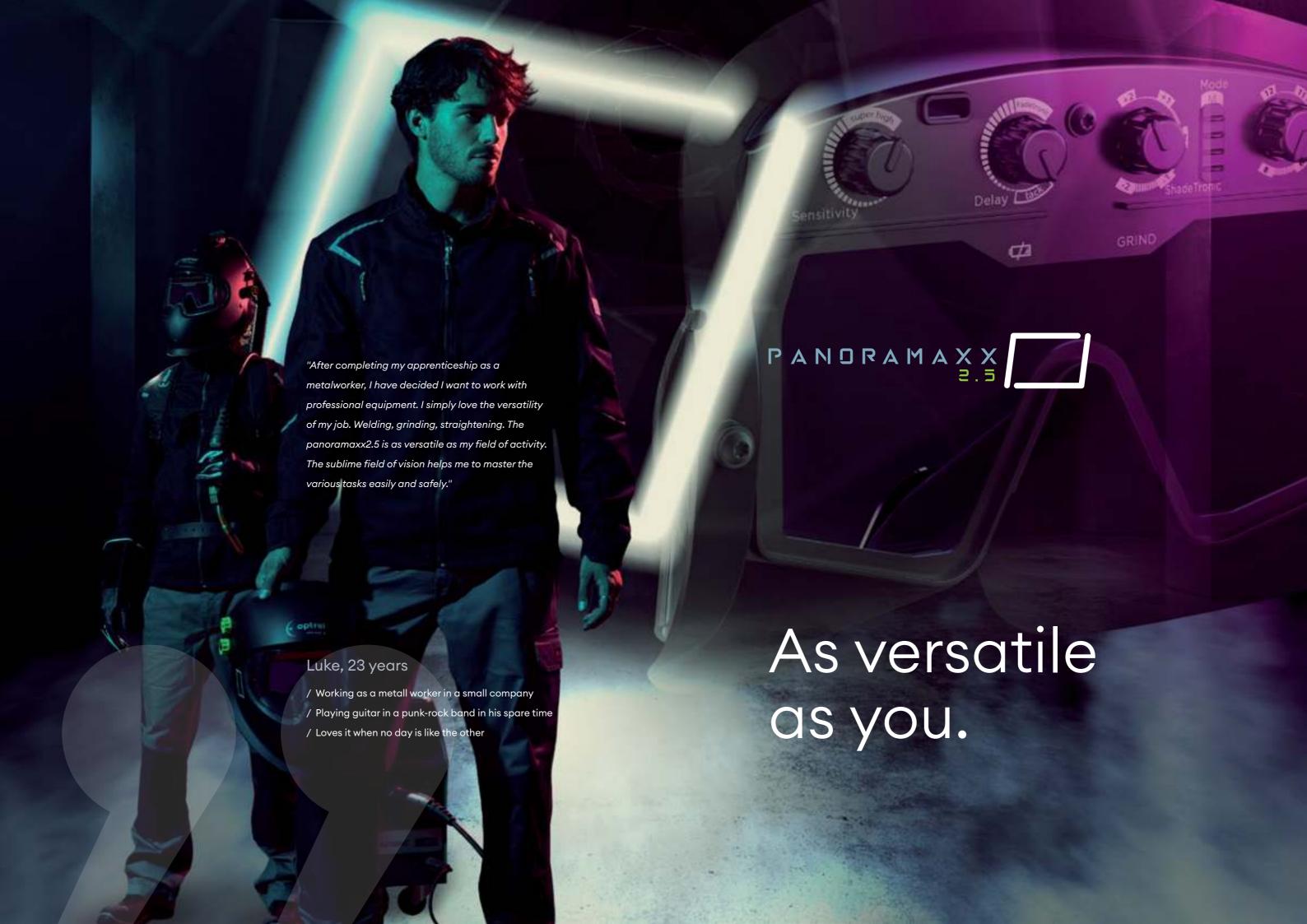
Our pragmatic approach is so new and innovative that several patents have been granted for it - and guarantees its uniqueness.

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.



Industry standard 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 immediately 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®

The patented optrel ShadeTronic® technology automatically adjusts the protection level to the changing light conditions of the welding arc. This allows welders to work without interruption. A sophisticated Shadetronic sensor continuously measures the light intensity of the welding arc and regulates the glare protection progressively and fully automatically.



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.



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.



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.



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 another button, the glare shield is then immediately ready for welding work. Your optrel welding helmet becomes a true multifunctional work safety device.



Product comparison

PANORAMAXX PANORAMAXX PANORAMAXX 2.5 QUATTRO CLT

Extended panoramic field of vision

ShadeTronic® (fully automatic protection level adjustment with individual calibration option of ± 2)

Suitable for welding overhead and in a constrained position

Ampere range

Light level
FadeTronic

EN 379 classification

Grinding mode

Power supply

Sensor system
Sensitivity

Switching time

Dimensional stability
Eye protection
Resistance against
energy impact, helmet shell
Operating temperature
Storage temperature

Gross weight

Areas of application

Scope of supply

Standards

Warranty

| X | X | X |
|------------------------|------------------------|------------------------|
| X | X | X |
| X | X | X |
| 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 |
| X | X | X |
| 1/1/1/2 | 1/1/1/1 | 1/1/1/2 |
| X | X | X |

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 Hig | gh" sensitivity | |
| 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: | Dark to light: | Dark to light: | |
| 0.1 s to 2.0 s (with FadeTronic) | 0.1 s to 2.0 s (with FadeTronic) | 0.1 s to 2.0 s (with FadeTronic) | |
| Welding mo | ask: 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 | 5. 共產黨主義政治 |
| 575g (20.3 oz) / | 575g (20.3 oz) / | silver 610g (21.5 oz) / PAPR 780g (27.5 oz) |
| PAPR 745g (26.3 oz) | PAPR 745g (26.3 oz) | black 600g (21.2 oz) PAPR 770g (27.2 oz) |
| All electrical welding process | ses: Flectrode welding (Stick Weldin | g SMAW) / MIG/MAG (Meto |

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 supplied air 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

Products

| Welding hel | mets and accessories | Art. no. | Welding hel | mets and accessories | Art. no. |
|-------------|--|----------|-------------|--|----------|
| 100 | optrel panoramaxx2.5 welding helmet (SN 2.5/5-12 ShadeTronic®) – black | 1010.000 | D. | 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 | 500 | optrel panoramaxx elt welding helmet (SN 2/4-12 ShadeTronic®) – silver | 1010.201 |
| (P) | optrel panoramaxx quattro welding helmet (SN 3/4-13 ShadeTronic®) – black | 1010.100 | (A) | optrel panoramaxx clt fresh air helmet (SN 2/4-12 ShadeTronic®) – black | 4441.780 |
| 6 | optrel panoramaxx quattro fresh air helmet (SN 3/4-13 ShadeTronic®) – black | 4441.760 | 57 | optrel panoramaxx clt fresh air helmet (SN 2/4-12 ShadeTronic®) – silver | 4441.781 |
| | optrel e3000X blower respiratory protection system with 18h Power battery and bag | 4553.000 | 90 | optrel backpack for helmets | 8000.100 |



| | | - 79 | |
|----|---|----------------------------------|--|
| Sp | are parts and accessories | Item no. | |
| 1 | Viewing pane (5x) | 5000.270 | |
| 2 | Nose protection pads (2x) | 5003.600 | |
| 3 | Inside cover pane (5x) | 5000.010 | |
| 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 | |
| ба | Head and neck protection, leather | 4028.016 | |
| бb | Head and neck protection fresh air helmet, leather | 4028.031 | |

4028.015

7 Chest protection, leather

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