



OPTREL

PROTECTING PROFESSIONALS

SPHERE X

SERIES



SPHERE X SERIES

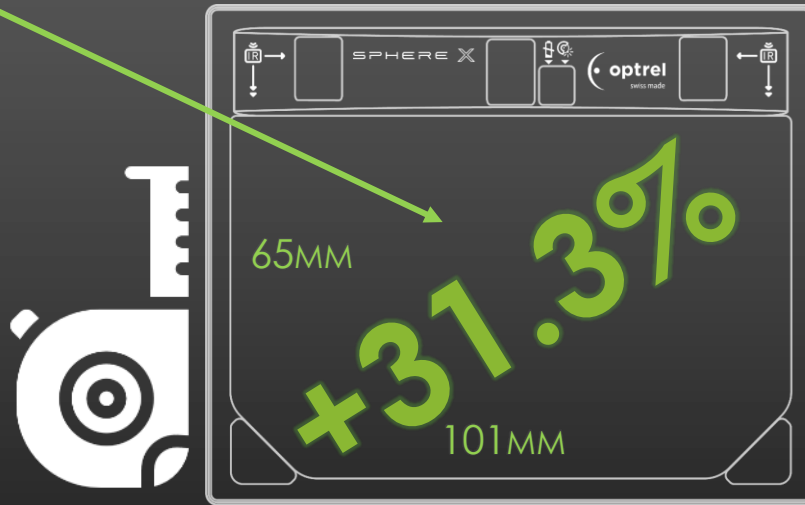
The further development of the sphere series

- ✓ Over 30% more visibility allows every detail to be seen perfectly during the work process
- ✓ The IsoFit® X headband with Position Locker ensures the perfect fit and maximum wearing comfort.
- ✓ Thanks to ShadeTronic®, automatic protection level selection is included in all models.
- ✓ With 5 instead of 3 sensors, the system reacts even faster and more precisely.
- ✓ The smoke-repellent helmet shell design perfectly rounds off the well thought-out overall package.



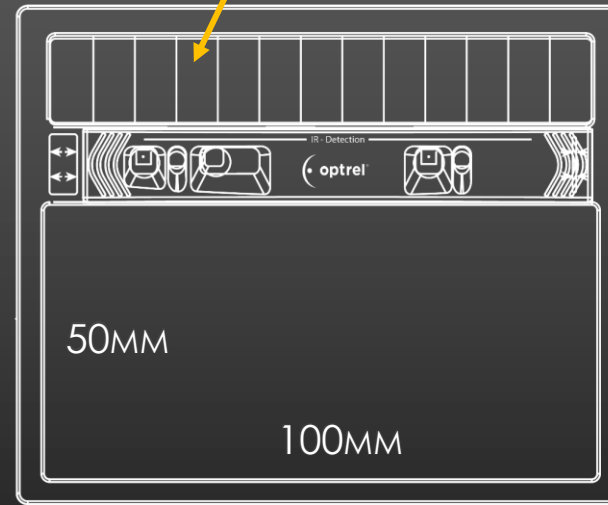
SPHERE X SERIES

Over 30% more field of view
✓ Opposed to sphere series



Elimination of solar cells

- ✓ For a wider field of vision
- ✓ Dark storage recommended
- ✓ Battery life now approx. 1500 hours instead of 3000



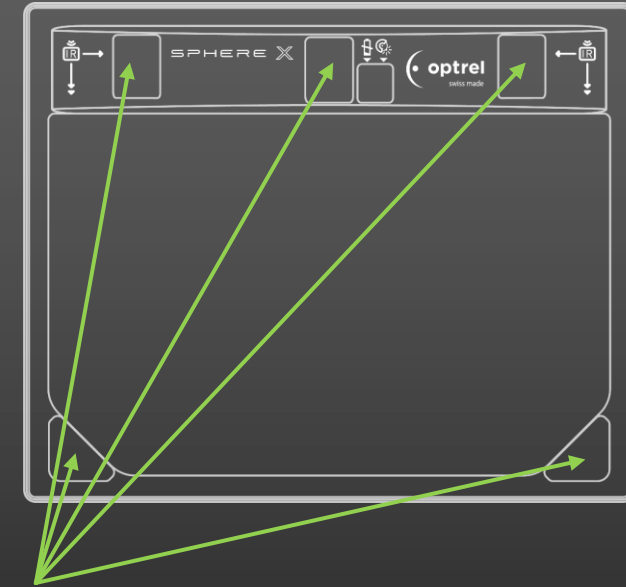
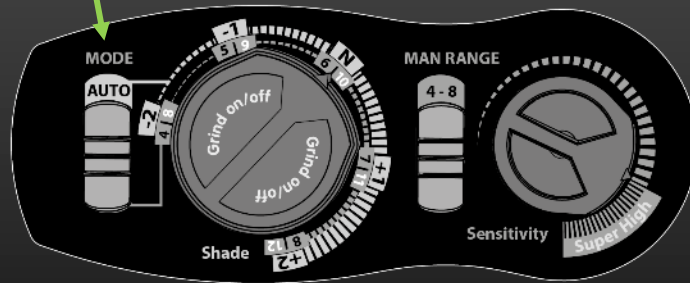
WHAT IS NEW?

SPHERE X SERIES

sphere X 2.5 new with ShadeTronic

- ✓ The vegaview2.5 was still without ShadeTronic function

Vgl. vegaview2.5

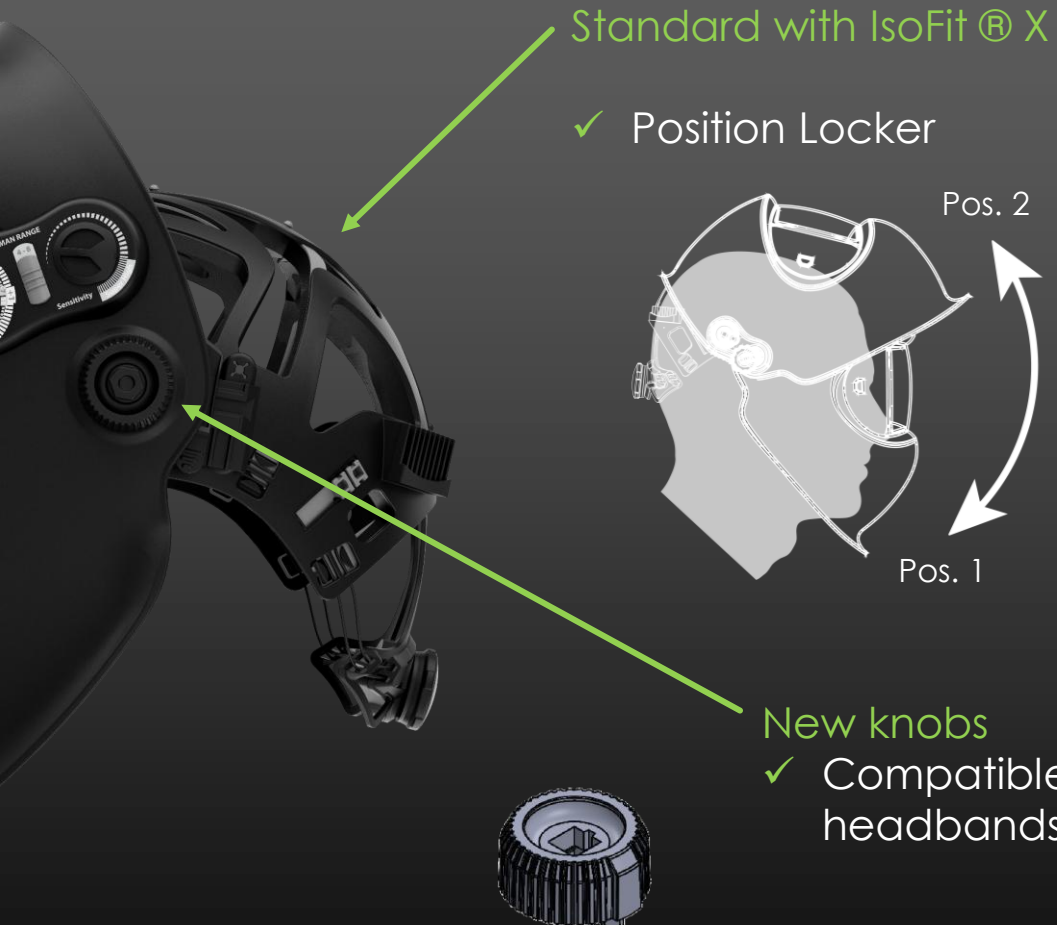


New with 5 Sensore

- ✓ Instead of 3 as with the sphere series

WHAT IS NEW?

SPHERE X SERIES



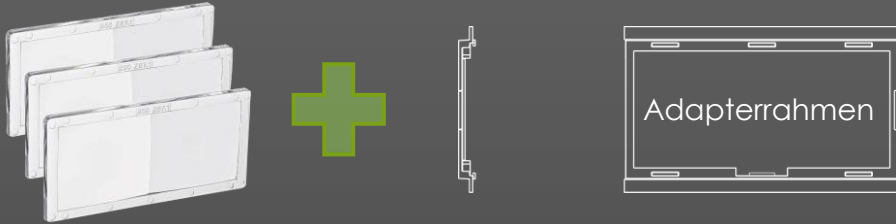
Industrial Safety Helmet

- ✓ Possibility of mounting the optrel industrial safety helmet (except PAPR versions)



WAS IST NEU?

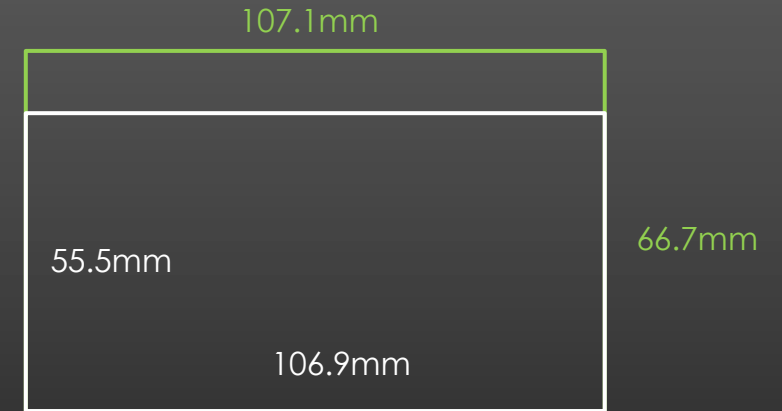
SPHERE X SERIES



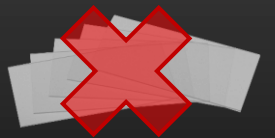
Dioptrics with adapter
due to larger field of vision
(Dioptrics themselves the same
as in sphere series)



New inner cover lenses
due to larger field of vision
(not compatible with sphere
series)



5000.001



WHAT IS NEW?

SPHERE X SERIES

5000.210
5000.212



- ✓ Same front cover lens as sphere series



4160.000

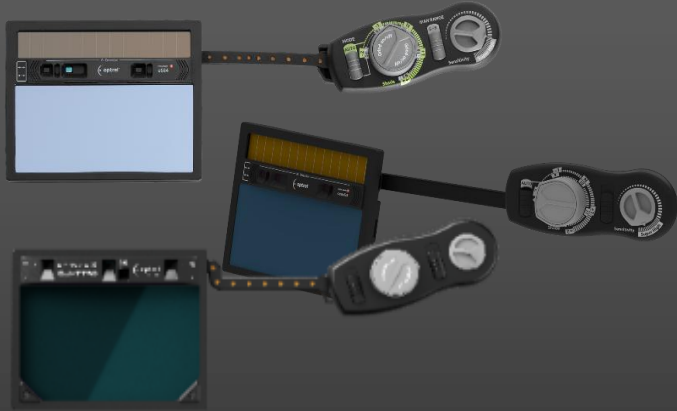
- ✓ Same face seal as sphere series



- ✓ All optrel headbands are compatible

COMPATIBILITY

SPHERE X SERIES



- ✓ Anti-glare cassettes compatible with each other (sphere / sphere X series)

optrelACADEMY  swiss made

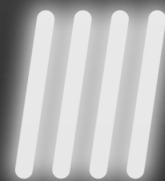


- ✓ Sphere Series / e-Series helmet shells are also compatible (same cassette size)

COMPATIBILITY



SPHERE X
CLT



SPHERE X
QUATTRO



SPHERE X
2.5

SPHERE X CLT



Can be used in all arc welding applications. Excellent for TIG welding and grinding work

2.0 Crystal Lens Technology (CLT) (patented) UV-IR-Filter

- ShadeTronic®
- FadeTronic
- SN 2.0 open state
- SN 5 < 12 ShadeTronic®
- SN 4 - 8 and 8 - 12 manual
- EN 379 1/1/1/2 Classification

SPHERE X QUATTRO



Can be used in all arc welding applications. Ideal for high-power and constraint applications

3.0 and best viewing angle dependency
True Color UV IR Filter

- ShadeTronic®
- FadeTronic
- SN 3.0 open state
- SN 5 < 13 ShadeTronic®
- SN 5 - 9 and 9 - 13 manual
- ISO 16321-2 **V1** (best viewing angle dependency)

SPHERE X 2.5



The all-rounder, versatile and excellent for sanding work

2.5 All-rounder
True Color UV IR Filter

- ShadeTronic®
- FadeTronic
- SN 2.5 open state
- SN 5 < 12 ShadeTronic®
- SN 4 – 8 and 8 - 12 manual
- ISO 16321-2 V2



EN 379 includes the optical classifications:

- Optical class
- Light scattering
- Homogeneity
- Viewing angle dependency

Each with a rating of 1-3

The standards are very similar, only that with ISO the first 3 values must always be 1, and only the viewing angle dependency makes the difference. EN 379 is a discontinued standard that will be replaced by ISO 16321-2 (New certifications only according to ISO)

ISO 16321-2 includes the same optical classifications:

- Optical class
- Light scattering
- Homogeneity
- Viewing angle dependency

The optical class, light scattering and homogeneity are always a 1 here, which is the prerequisite for this standard. Only the viewing angle dependency is divided into 3 levels, V1 – V3, with V1 being the best class.



But why is the CLT certified according to EN, while the quattro and 2.5 are certified according to ISO?

sphere X clt
EN 379



- sphere crystal2.0 was already certified according to EN 379 and still has the validity period of the certificate
- sphere X clt therefore does not require re-certification
- At the next re-certification, the clt will also be certified according to ISO 16321-2

sphere X quattro
ISO 16321-2



- sphere e684 was still certified according to EN 379
- sphere X quattro now has a light level of 3.0, the e684 still had a 4.0, so it had to be recertified according to ISO 16321-2

sphere X 2.5
ISO 16321-2



- vegaview 2.5 was still certified according to EN 379
- sphere X 2.5 is newly equipped with ShadeTronic® and therefore had to be recertified according to ISO 16321-2

SPHERE X SERIES



optrelACADEMY  swiss made

SPHERE X
CLT 



SPHERE X
E3000X

SPHERE X
QUATTRO 



SPHERE X
E3000X

SPHERE X
2.5 



SPHERE X
E3000X



SWISS AIR



SWISS AIR

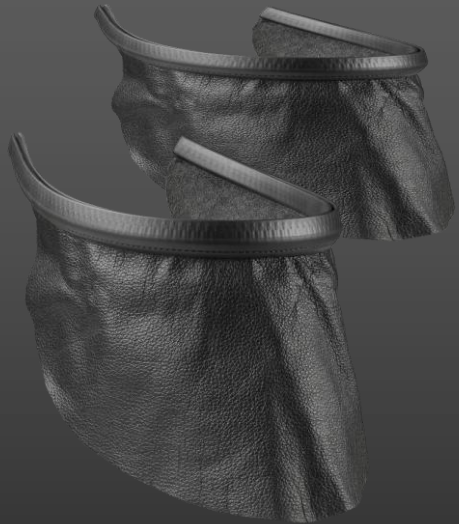


SWISS AIR

RTW PACKAGES

SPHERE X SERIES

optrelACADEMY  swiss made



4028.015 Chest protector leather
short
4028.029 Chest protector leather
long

4028.016 Head and neck
protection made of leather



5011.400
optrel industrial safety helmet black
5011.401
optrel industrial safety helmet white

ACCESSORIES

SPHERE X SERIES

HELME

Part N°	Description
1006.580	sphereX quattro black
1006.980	sphereX clt black
1006.680	sphereX 2.5 black



RTW MIT SWISS AIR

Part N°	Description
4600.180	RTW swiss air + sphereX quattro black
4600.190	RTW swiss air + sphereX clt black
4600.200	RTW swiss air + sphereX 2.5 black



SPHERE X PORTFOLIO

SPHERE X SERIES

FRISCHLUFTHELME (PURE AIR)

Part N°	Description
4441.605	sphereX pure air quattro black
4441.905	sphereX pure air clt black
4441.805	sphereX pure air 2.5 black



RTW MIT E3000X

Part N°	Description
4550.466	RTW e3000X + sphereX pure air quattro black
4530.055	RTW e3000X + sphereX pure air clt black
4580.056	RTW e3000X + sphereX pure air 2.5 black

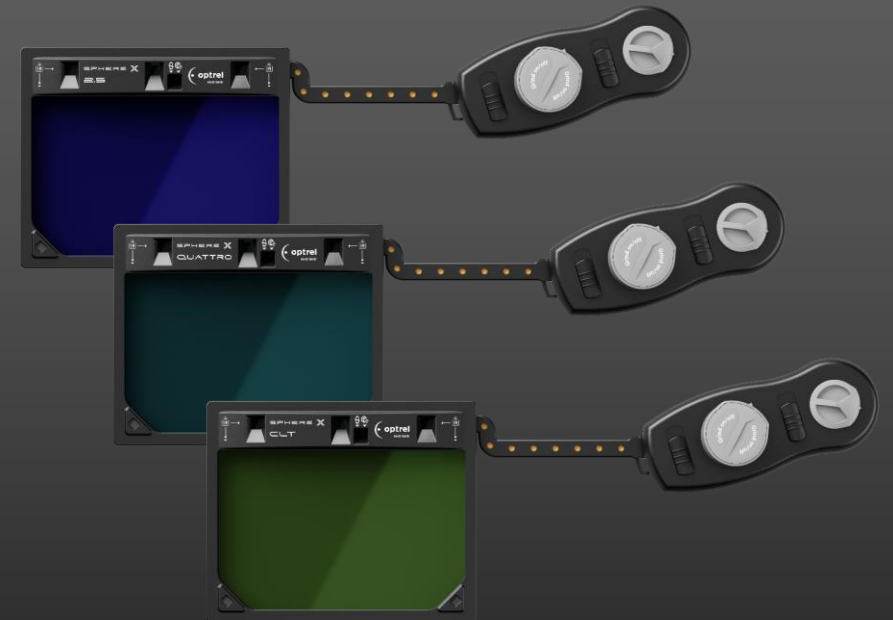


SPHERE X PORTFOLIO

SPHERE X SERIES

ERSATZKASSETTEN

Part N°	Description
5012.486	sphereX quattro replacement ADF
5012.905	sphereX clt replacement ADF
5012.476	sphereX 2.5 replacement ADF

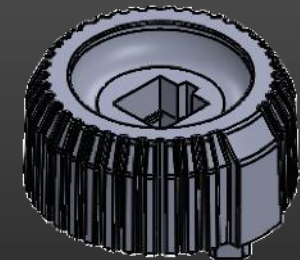


SPHERE X PORTFOLIO

SPHERE X SERIES

NEUE TEILE SPHERE X SPEZIFISCH

Part N°	Description
5000.520	Inside cover lens sphere X (5pcs)
5000.195	Inside cover lens +1.0 sphere X (5pcs)
5001.689	Sphere X replacement helmet shell
4441.686	Sphere X replacement helmet shell pure air
5003.335	IsoFit headgear sphere X (new knobs)
5003.548	Repair set IsoFit headgear sphere X (new knobs)
5000.066-069	Magnifying lens +1.00-+2.50 sphere X



SPHERE X PORTFOLIO

Danke!

Fragen?

