

+ SWISS MADE



smartglass S3 STUD

Aktive Schutzbrille

Active Safety Glasses

SCHWEISSEN IN FARBE

2.5  8



ACTIVE EYE PROTECTION

Instruction Manual

Warning! The active safety glasses smartglass S3 STUD are intended exclusively to protect from light pulses as they are emitted from stud welding processes.

Please read the instruction manual before first use.

This personal protective equipment (PPE) is complies with EU regulation 2016/425 , with effect from April 21, 2018.

Characteristics

- Reaction time of less than a millisecond
- Full color recognition and natural view with realcolor optics
- Maximum eye protection with minimum weight
- Combining comfort with safety
- CE certified according EN166, EN170, EN172, EN379, ISO 12609-1

Application

The active safety glasses **smartglass S3 STUD** were specifically developed for people working with stud welding processes. The active safety glasses **smartglass S3 STUD** reliably protect against harmful light pulses as they are emitted when stud welding while working comfortably.

The active safety glasses **smartglass S3 STUD** are fully operational out of the box. There is no on/off switch. The active safety glasses **smartglass S3 STUD** will automatically darken.

Technology

The active safety glasses **smartglass S3 STUD** light state's shade level is 2.5. Upon the firing of a light-pulse, the active safety glasses **smartglass S3 STUD** automatically switches from the light state to a dark state at shade level 8 within less than a millisecond. The electronics were designed to only start darkening once an uncomfortable illuminance threshold is reached.

The active safety glasses **smartglass S3 STUD** protects in the wavelength range of 200 – 3000 nm. The light state of the realcolor optics is clear and color neutral. This allows the user to accurately perceive signal colors.

Technical specifications

- Frame material: Polycarbonate, skin-friendly
- Functional insert material: Glass/Plastics, skin-friendly
- Total weight: 42 g
- Dimensions: 170 x 150 x 50 mm
- Standards: CE: EN166, EN170, EN172, EN379, ISO 12609-1
- Warranty: 5 years
- Lifetime: Min. 6 years including battery lifetime

Marking CE

3 / > 8 / GEO / 1 / 1 / 1 / 2 / 379 CE

Light state	3
Dark state	> 8
Manufacturer	GEO
Optical class	1 / 1 / 1
Diffusion of light class	2
Variations in luminous transmittance class	379
Angle dependence of luminous transmittance	CE
CE standard	

Manufacturer: castelberg design gmbh
Etelstrasse 44E
8820 Wädenswil
Switzerland

Notified body: ECS GmbH (1883)
Hüttfeldstrasse 50
73430 Aalen
Germany

An original **smartglass S3 STUD** must have this marking!

Maintenance, lifetime and warranty

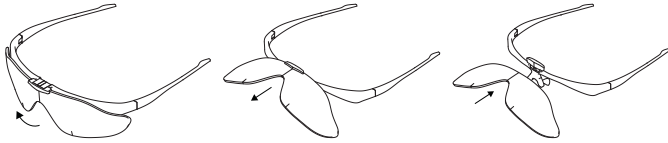
The active safety glasses **smartglass S3 STUD** require no maintenance besides cleaning. They should be cleaned with a microfibre towel or any other towel intended to clean glasses. For disinfection use a standard disinfectant with a towel. Do not pour or spray liquids directly on to the glasses.

Power is provided by an integrated lithium ion battery. The battery lifetime is 6 years at minimum and it can be replaced by the manufacturer. Please dispose the product at the end of its lifetime in an appropriate manner for electronics.

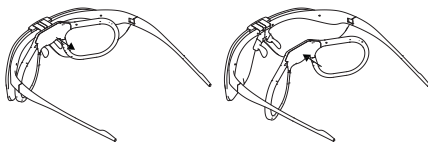
The warranty for material and manufacturing mistakes is 5 years. Damages that result from physical abuse of the product are not covered by the warranty. The warranty only applies for the intended use case and only to unmodified products. Besides legit warranty claims, no other damages are covered.

Changing of cover lens and functional insert

Cover lens:
Flip the cover lens upward. Pull the cover lens out of its holder. Insert a new cover lens and let it snap into position.



Functional insert:
Push a coin or a similar flat solid object between the frame and the functional insert. Twisting the coin will eject the insert. Align the cam of the functional insert with the corresponding hole on the frame. Gently push the functional insert into the hole of the frame until it snaps into position.



Security advice

The active safety glasses **smartglass S3 STUD** may not be used for other purposes besides protection from IPL-pulses.

The active safety glasses **smartglass S3 STUD** should be stored at temperatures from -10°C to +40°C and at a relative humidity below 80%. Avoid moisture and sunlight. The operating temperature is between -10°C and +55°C. Prolonged use outside of ideal temperatures can lead to damages that are not covered by the warranty. Storage together with acids, alkalis, oils or organic solvents can lead to damages to the product.

In rare cases allergic reactions to the glasses are possible. If the glasses cause skin irritation, the active safety glasses **smartglass S3 STUD** must not be used further and medical advice is recommended.

The active safety glasses **smartglass S3 STUD** is certified as the combination frame, cover lens and functional insert. The functional insert must not be used without the cover lens.

If the active safety glasses **smartglass S3 STUD** do not operate normally or are clearly damaged they must not be used further.

Wearing the active safety glasses **smartglass S3 STUD** on top of other glasses can transmit shocks of high-speed particles and can therefore be dangerous to the wearer.

Any application of the **smartglass S3 STUD** outside of the specified conditions, especially under extreme temperatures or exposure to high-speed particles, is forbidden.

Accessories and spare parts

Frame, cover lens and functional insert are easily exchangeable. They can be ordered individually.

Frame white complete with cover lens clear blue
Item no.: 10.051

Cover lens clear blue
Item no.: 10.810

Functional insert S3 STUD
Item no.: 20.065

Distribution

Distribution is taken care of by the qualified retailers, our online shop or by contacting us directly. We will also gladly recommend you a local distribution partner.

Please visit our website castelberg-design.com where you can find further information.

If you have any questions, please do not hesitate to contact us. We will gladly help you.

