



product code: **080-05-VX27**  
product ean: **5900391253441**

***The set includes:***

- **SPARTUS® Ultra VX27** laser welding helmet
- 5 pcs external protective cover
- 2 pcs internal protective cover

**Compliance with standards:**

EN 207:2017  
EN ISO 16321

## Product variants

### Index

**SPARTUS Ultra VX27 laser welding helmet**  
**080-05-VX27**

**SPARTUS Ultra VX27 laser welding helmet with hard hat and adaptor**  
**080-05-VX27K**

## Product description

### **SPARTUS® ULTRA VX27 HELMET - PROFESSIONAL PROTECTION AGAINST LASER BEAMS**



SPARTUS® Ultra VX27 is a specialized helmet designed for laser welding, cleaning, and cutting, developed with maximum user protection in mind. It's not just an auto-darkening filter that protects your eyes - it's a comprehensive facial protection system that, thanks to a special coating, also effectively shields against reflected and scattered laser radiation. The active filter provides protection in the **1000-1100 nm wavelength range at levels D LB7 + IR LB8**, while the outer coating complements it with a **1000-1100 DIR LB8** rating. The helmet is designed for use with class 4 lasers and complies with **EN 207:2017** and **EN ISO 16321** standards. SPARTUS® Ultra VX27 is a reliable piece of equipment wherever safety in contact with a laser beam is crucial.

## EXCELLENT VISIBILITY AND PROTECTION

Thanks to its optical class 1/1/1/2 and a reaction time of 1/25,000 of a second, the auto-darkening filter in the SPARTUS® Ultra VX27 ensures excellent visibility and immediate darkening upon detecting a flash. Shading can be adjusted in two ranges: DIN 4–8 and DIN 8–12, allowing precise tuning according to the intensity of the laser beam and the type of work being performed. In standby mode, the filter remains exceptionally bright – **DIN 2** level ensures great visibility of the surroundings and details without needing to remove the helmet, significantly facilitating workstation setup and work between welds.



## ADVANCED OPERATING MODES AND FULL CONTROL

The helmet offers three operation modes – **GRIND**, **MIX**, and **DARK** – making it easy to adapt to various tasks. The MIX mode minimizes eye fatigue during spot welding and when using high-power lasers, by smoothly transitioning through intermediate levels of shading. Users can also freely adjust sensor sensitivity and delay time to achieve maximum comfort and safety.

## USER COMFORT AND ERGONOMIC DESIGN

Ultra VX27 offers not only safety but also everyday work comfort. Thanks to its lightweight design and fully adjustable headgear, the helmet fits the user's head perfectly. Adjustable viewing angle, filter-to-face distance, and stable mounting make the equipment ideal even for extended use.

## RELIABILITY CONFIRMED BY SPARTUS® QUALITY

SPARTUS® Ultra VX27 is a solution for professionals who expect not only effective protection but also comfort and top-quality workmanship. It's a laser welding helmet that meets the demands of modern industrial technologies and addresses the real needs of professionals.



## Technical details

Usage	laser welding, cleaning and cutting
Active field of view	96 x 46.5mm
Filter optical class	1 / 1 / 1 / 2
Sensors	2
Shading (standby)	DIN 2
Variable welding shades (operating)	DIN 4 - 8 or DIN 8 - 12
UV/IR protection degree	to DIN16
Light to dark switching time	1/25 000s
Delay control of light to dark switching time	0.1 - 1.0s
Highly specialized filtration	1000 -1100nm D LB7 + IR LB8
Special modes	GRIND, MIX, DARK
Power supply	solar cells and lithium battery
Grinding	yes
Adjustment knob and switch	inside