



product code: 080-05-VX27K
product ean: 5900391254905

Set includes:

- SPARTUS® Ultra VX27 with safety helmet and adaptor
- 5 pcs outer protective cover
- 2 pcs inner protective cover

Standards compliance:

EN 207:2017
EN ISO 16321

Product variants

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

SPARTUS Ultra VX27 laser welding helmet
080-05-VX27

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, created with maximum user protection in mind. It is not just an auto-darkening filter that protects your eyes – it is a comprehensive facial protection system that, thanks to a special coating, effectively shields against both reflected and scattered laser radiation. The active filter provides protection in the **1000-1100 nm range at the level of D LB7 + IR LB8**, while the external coating complements it with **1000-1100 DIR LB8** class. The helmet is suitable for work with Class 4 lasers and meets the requirements of **EN 207:2017** and **EN ISO 16321**. SPARTUS® Ultra VX27 is a reliable piece of equipment wherever safety in contact with a laser beam is essential.

EXCELLENT VISIBILITY AND PROTECTION

With an optical class of 1/1/1/2 and a response time of 1/25,000 of a second, the auto-darkening filter in the SPARTUS® Ultra VX27 ensures excellent visibility and instant darkening upon flash detection. Shading can be adjusted in two ranges: DIN 4–8 and DIN 8–12, allowing precise settings based on the laser beam intensity and type of work being performed. In standby mode, the filter remains exceptionally bright – **DIN 2** provides excellent visibility of the surroundings and details without removing the helmet, greatly facilitating workstation setup and work between welds.



ADVANCED OPERATING MODES AND FULL CONTROL

The helmet offers three operating modes – **GRIND**, **MIX**, and **DARK** – which help adapt it to various tasks. MIX mode minimizes eye fatigue during spot welding and high-power laser applications by smoothly transitioning through intermediate shading levels. The user can also freely adjust sensor sensitivity and delay time to ensure maximum comfort and safety.

USER COMFORT AND ERGONOMIC DESIGN

Ultra VX27 is not only about safety but also daily work comfort. Thanks to its lightweight design and fully adjustable headgear, the helmet fits the user's head perfectly. Adjustment of the viewing angle, distance between the filter and the face, and stable mounting ensure the equipment performs well even during prolonged use.

INTEGRATED HELMET VERSION - COMPREHENSIVE PROTECTION FOR EVERY WORKSTATION

For users working in environments where additional head protection is required, SPARTUS® Ultra VX27 is also available in a version integrated with an industrial safety helmet. This combination provides not only full face protection against laser radiation but also effective head protection from impacts or other mechanical hazards. The helmet mounting system has been designed for comfort and stability – the user can freely raise or lower the helmet while maintaining full functionality of the safety helmet. It is the ideal solution for people working in harsh industrial conditions, where safety and ergonomics must go hand in hand.

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 craftsmanship. It is a laser welding helmet that meets the requirements of modern industrial technologies and responds to 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