

# HORIZON 9-13

All new 9-13 Automatic helmet



**2**  
YEAR  
WARRANTY

Horizon 9-13

The Horizon helmet has been designed to offer ideal functionality, performance and comfort whilst also offering exceptional reliability to all types of welders.

The welding ADF lens offers a high clarity of view, resulting in an excellent optical quality utilising the latest ADF technology. This, coupled with our latest true colour + technology offers a superior view of the welding environment

- Lightweight shell design. High impact resistance Nylon
- 98x48mm 1/1/1/2 – 9-13 ADF
- True colour ADF technology
- Externally activated grind mode button
- Ergonomic multiple adjustable headgear, with rear pivot pad

Visit [www.universalppwelding.com](http://www.universalppwelding.com) for more information.

## FEATURES



SENSORS



EXTERNAL  
GRIND BUTTON



TRUE COLOUR  
+



VARIABLE  
SHADE ADF



COMFORT  
HEADGEAR



LARGE  
VIEWING  
AREA



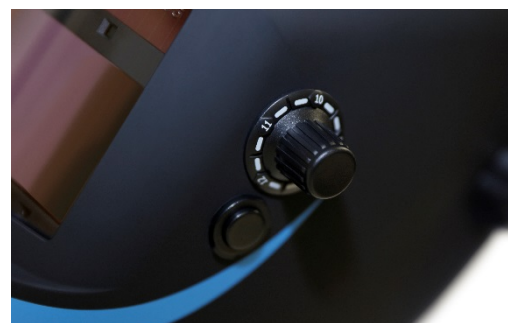
CONVEX  
COVER LENS



LIGHTWEIGHT  
490G



Ergonomic headgear



External  
GRIND button

## Specifications / Technical Data

|                             |                                                                       |
|-----------------------------|-----------------------------------------------------------------------|
| Cartridge Dimensions        | 110(W) x 90(H) x 9(T) mm                                              |
| Viewing Area                | 98 x 48mm (3.85"x 1.88")                                              |
| Lens Shade                  | DIN 9-13 (open state 4)                                               |
| Power Supply                | Solar Cells Batteries, 3V Lithium Batteries (CR2450 1EA, Replaceable) |
| Sensors                     | 4                                                                     |
| Switch Time @ 23C           | 0.1 - 0.2 ms                                                          |
| Optical Class               | 1/1/1/2                                                               |
| Standards                   | DIN EN379, AS/NZS 1338.1, ANSI Z87.1, CSA Z94.3                       |
| Delay Control Time          | 0.1 - 1.9 sec                                                         |
| Sensitivity / Delay Control | Internal                                                              |
| Lens Control                | Auto-ON, Auto-OFF 15-20 minutes (when not on welding)                 |
| Grind Mode                  | Grind Mode selected via external switch                               |
| Battery Voltage Indicator   | Yes                                                                   |
| Operating Temperature       | -5°C to + 55°C                                                        |
| Storage Temperature         | -20°C to + 55°C                                                       |
| Shell Material              | Nylon                                                                 |
| Weight                      | 490g                                                                  |

## Ordering Information

| Description                  | Part Number       |
|------------------------------|-------------------|
| Horizon 9-13 helmet complete | EP235-000-005-000 |
| 1. Headgear complete         | AC235-000-005-000 |
| 2. Sweatband                 | AC236-000-005-000 |
| 3. Front cover lens          | EP236-000-041-000 |
| 4. Inside cover lens         | EP237-000-041-000 |
| 5. Lens retainer with screws | AC237-000-005-000 |
| * Replacement battery CR2450 | AC399-000-000-000 |
| * Dioptre +1,0               | EP158-000-041-D10 |
| * Dioptre +1,5               | EP158-000-041-D15 |
| * Dioptre +2,0               | EP158-000-041-D20 |
| * Dioptre +2,5               |                   |

