

# SERVOGLAS

ULTRA LIGHTEN SPEEDY  
AUTO DARKENING WELDING HELMET

NEW  
**4000V**

Advanced Lightweight Design.



SERVOGLAS

## Function

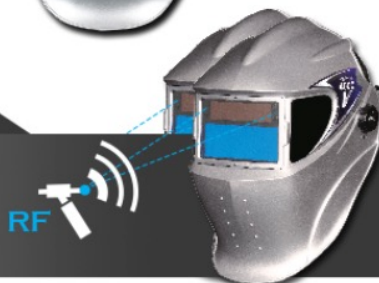
### 01. Wide View Window

The wide view LCD screen is 7mm wider and provides a wider view before and after welding.



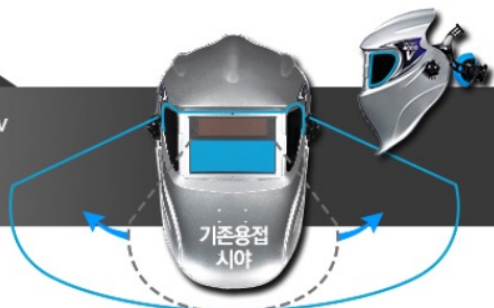
### 02. 2 photo sensors + RF sensor / solar guard

Shading is fast and stable even in low current TIG welding. Even if the sensor is blocked by the structure, the shading does not open and the eyes are protected.



### 03. Side view window

The side view window provides a wider field of view than conventional helmets, ensuring a comfortable and safer view before and after welding.



## NEW Headband

Highly adjustable, balanced comfortable New headband



- 1 Smooth ratchet for precise tightening.
- 2 Dual-back cushioning pads to fit personal head sizes and comfort settings.
- 3 Swiveling, self-adjusting, turnable back strap accommodate a cap worn backwards.
- 4 Two adjustable crown straps for better stability.
- 5 Easy-lock lever, Sliding pivot to adjust the shields distance to face.
- 6 Slip-resistant knob for adjusting the helmet's pivot action with glove hands. The smooth up and down pivot action can be locked in the up position.
- 7 Non-slip cell pads contour to your forehead.

## Filter Cartridge



### 1 Solar Cell POWER AUTO ON/OFF

Battery power consumption is minimized by supplying power from the solar cell of welding arc, which allows extended use of battery. Its auto power ON/OFF function through solar cell provides enhanced usability

### 2 ARC Light Detection Photo Sensor

Provides superior shading effect through its robust four independent photo sensors even in unique and precision welding environment such as below 5 amp low current TIG welding

### 3 Auto-darkening welding filter

The welding filter of the highest optical class (1/1/1/1) safely blocks harmful rays (UV, IR) of the welding arc and protects the welder's eyes comfortably and safely with a fast shading speed of 1/25,000 seconds.



### Mode switch

This switch changes the RF mode that detects electromagnetic waves using an RF sensor and PT mode that detects a welding arc using only a photo sensor. Also, when grinding, change to GR mode.



### Sensitivity Control

Ensures top welding performance by optimizing sensor sensitivity through four sensor installed according to various types of welding environment and it makes welding easy by preventing light interference from surrounding welding work or lights



### Shade Control

Shade level can be adjusted in 5 levels from #9 to #13 according to welding type and current (welding ARC)



### Delay Control

Allows welders to maintain comfortable vision by preventing eye fatigue from remaining heat after thick plate welding and maintaining shade during fast tack welding by delaying the brightening speed

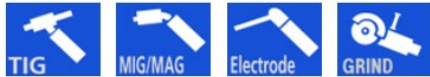


### Low Battery Warning



## Specifications

|                      |                 |   |
|----------------------|-----------------|---|
| Optical Class        |                 | 1/1/1/1   |
| Switching Speed      |                 | 1 / 25,000 sec (0.04ms)                           |
| Shade Control        | Inactivated     | SHADE #3  |
|                      | Activated(Dark) | SHADE #9 ~ #13                                    |
| Delay Control        |                 | 0.05s ~ 0.8s (Fast-Slow)                          |
| Sensitivity Control  |                 | LOW - HIGH  |
| Dual Sens            | Photo Sensor    | 2   |
|                      | RF Seonsor*     | 0   |
| TIG Performance*     |                 | Low Amp. < 5A                                     |
| Mode Switch*         |                 | RF-Photo-Grind (3step)                            |
| Grind mode           |                 | 0   |
| Side Window          |                 | 0   |
| Power Source         |                 | 3V Lithium(CR2032) 2EA + Solar cell (Auto On/Off) |
| Battery life         |                 | 3000h (Replaceable)                               |
| ADF Size             |                 | 125X82X13mm                                       |
| ADF Viewing area     |                 | 111X42mm 104X42mm(before)                         |
| ADF Weight           |                 | 111g  |
| Product Total Weight |                 | 492g  |
| Operating Temp.      |                 | - 5℃ ~ +55℃                                       |
| Storage Temp.        |                 | -20℃ ~ +70℃                                       |



## Parts Diagram

- 1 Front Cover Frame
- 2 Front Cover Lens
- 3 Battery(CR2032)/Case
- 4 AWE
- 5 Inner Cover Lens
- 6 Helmet shell
- 7 Magnifying Lens
- 8 Side Window Cover
- HB Headband
- HK Helmet knob set

