



SERVORE



|주| 써보레
SERVORE CO.,Ltd

367-18 Cheongo-ro Cheongbuk-eup Pyeongtaek-si Gyeonggi-do Korea
Tel +82-31-684-6952-3 Fax +82-31-684-6954 Email servore@servore.com



SERVOGLAS





SERVORE

The top priority of Servore is the health and safety of the welder,
The most valuable value is the hope that the welder's eyes,
face and breath can be safely protected to give the joy of welding.

Servore developed and commercialized Korea's first auto-darkening welding helmet "Servoglas" in 1989.

Since then, with the efforts of research and development of new products to protect the safety and health of the welder and to improve various welding solutions and personal welding technologies,

From the small and lightweight auto-darkening welding goggles "Arc Shield" loved by welders around the world, to the development of an auto powered air-mask(PAPR) "Gashad"

SERVOGLAS®

Auto-darkening
welding helmet

ARCSHIELD®

Auto-darkening
welding goggles
with shield

GASHAD®

Auto-powered
air mask PAPR

MISSION

30 years of commitment and history for the development and production of the best auto-darkening welding helmets.

Servore founder Seo Un-soo always emphasized that welding helmets should be light and easy to use so that anyone can easily learn welding and weld well.

Product research and development to improve welding technology and necessary solutions in various welding environments for professional welders, We have been constantly challenging and trying to improve the productivity of our customers and to produce high quality welding products.

Product research and development to improve welding technology and necessary solutions in various welding environments for professional welders, We have been constantly challenging and trying to improve the productivity of our customers and to produce high quality welding products.

VISION

From the development of Korea's first auto-darkening welding helmet that protects the welder's eyes and face from harmful rays, arcs, and spatters

Auto-darkening welding goggles with a spatter protection shield that commercialized the idea of "small tailor-made mask" by welders specialized in shipyard piping for the first time in the world

Until Korea's first development of an auto powered air-mask(PAPR) to protect the welder's respiratory system against welding fumes, harmful gases and dust

he development of new automatic welding PPE for welders, and the efforts of Servore to improve its technology & quality, will continue to develop and grow into a deep-rooted family business.

In addition, under the motto of AUTO of personal protective equipment, Servore, a company specializing in automatic welding PPE, will create a new brand and history of auto powered air-mask(PAPR) with welders around the world.

VALUES

safety

**health
care**

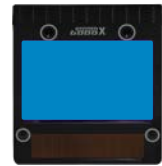
solutions

IT IS TO PROVIDE BETTER **SAFETY, HEALTH CARE,**
AND **SOLUTIONS** TO CUSTOMERS.

Auto Darkening Welding Helmet



Filter Cartridge



ARC Light Detection
Photo Sensor
Auto-darkening
welder filter
Solar Cell
POWER/AUTO ON/OFF



Sensitivity Control

Low Battery Warning(Low Bat)

Delay Control



Grind mode
Control

Mode
switch

Shade
Control



ARC Light Detection
Photo Sensor
Auto-darkening
welder filter
Solar Cell
POWER AUTO ON/DFF



Low Battery
Warning(Low Bat)

Sensitivity
Control

Delay
Control



Mode
switch
Shade
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ARC Light Detection
Photo Sensor
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Mode
switch

Shade
Control

Low Battery
Warning(Low Bat)



**Sensitivity
Control**

**Delay
Control**



ARC Light Detection
Photo Sensor
Auto-darkening
welder filter
Solar Cell
POWER AUTO ON/DFF



Sensitivity Control
Low Battery Warning(Low Bat)







Shade
Control
Delay
Control













































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 accommo date a cap worn backwards.
- ④ Tow 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 hans. The smooth up and down pivot action can be locked in the up position.
- ⑦ Non-slip cell pads contour to your forehead.

Specifications

| | | 6000X2 | 5000X2 | 4000V NEW | 4000V CLASSIC |
|----------------------|-----------------|---|---|---|---|
| | |  |  |  |  |
| Optical Class | | 1/1/1/1 | 1/1/1/1 | 1/1/1/1 | 1/1/1/1 |
| Switching Speed | | 1 / 25,000 sec (0.04ms) | 1 / 25,000 sec (0.04ms) | 1 / 25,000 sec (0.04ms) | 1 / 20,000 sec (0.05ms) |
| Shade Control | Inactivated | SHADE #3 | SHADE #3 | SHADE #3 | SHADE #3 |
| | Activated(Dark) | SHADE #7 ~ #13 | SHADE #9 ~ #13 | SHADE #9 ~ #13 | SHADE #9 ~ #13 |
| Delay Control | | 7 Step (Fast-Slow) | 0.05s ~ 0.8s (Fast-Slow) | 0.05s ~ 0.8s (Fast-Slow) | 0.05s ~ 0.8s (Fast-Slow) |
| Sensitivity Control | | 7 Step (LOW - HIGH) | LOW - HIGH | LOW - HIGH | LOW - HIGH |
| Dual Sens | Photo Sensor | 4 | 2 | 2 | 2 |
| | RF Sensor* | O | O | O | X |
| TIG Performance* | | Low Amp. <5A | Low Amp. <5A | Low Amp. <5A | Low Amp. 10A < |
| Mode Switch* | | RF-Photo (2step) | RF-Photo (2step) | RF-Photo-Grind (3step) | X |
| Grind mode | | Grind button | Autolift Grind shield | O | X |
| Side Window* | | X | X | O | X |
| Power Source | | 3V Lithium(CR2032) 2EA + Solar cell (Auto On/Off) | 3V Lithium(CR2032) 2EA + Solar cell (Auto On/Off) | 3V Lithium(CR2032) 2EA + Solar cell (Auto On/Off) | 3V Lithium(CR2032) 2EA + Solar cell (Auto On/Off) |
| Battery life | | 2000h (Replaceable) | 3000h (Replaceable) | 3000h (Replaceable) | 3500h (Replaceable) |
| ADF Size | | 133X116X10mm | 125X82X13mm | 125X82X13mm | 125X82X13mm |
| ADF Viewing area* | | 100X67mm | 111X42mm | 111X42mm | 111X42mm |
| ADF Weight | | 150g | 108g | 111g | 108g |
| Product Total Weight | | 588g | 612g | 492g | 484g |
| Headband Type | | NEW | NEW | NEW | NEW |
| Operating Temp. | | -5°C ~ +55°C | -5°C ~ +55°C | -5°C ~ +55°C | -5°C ~ +55°C |
| Storage Temp. | | -20°C ~ +70°C | -20°C ~ +70°C | -20°C ~ +70°C | -20°C ~ +70°C |

Selector table

| | | | | |
|--|---|---|---|---|
|  TIG |  |  |  |  |
|  MIG/MAG |  |  |  |  |
|  Electrode |  |  |  |  |
|  GRIND |  |  |  | |
|  Natural Color |  |  |  | |
|  X-view LCD |  | | | |
|  W-view LCD | |  |  |  |
|  RF Sensor |  |  |  | |
|  Dual Power Sensing |  |  |  | |
|  Power Auto ON-OFF |  |  |  |  |



SERVOGLAS 6000X2

High-end welding helmet
equipped with natural color
wide open window
and **ultra-high-speed**
dual RF sensor



Natural color filter

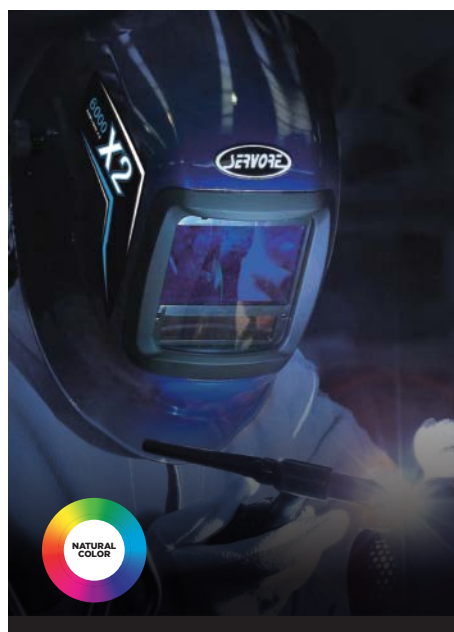
Compared to normal welding filters, the natural color filter provides a clearer and brighter view before and after welding, and protects the eyes more comfortably during welding.

Large X-VIEW window

A wider, high-quality extra-large lens eliminates the stuffiness of the welding helmet and provides a wide field of view when moving in the workplace or working at high places.

Ultra-fast dual RF sensors

In low-current TIG welding, it has a fast pre-shading speed, protects from malfunction of the photo sensors during welding, and enables stable welding even in tasks such as mirror welding where the photo sensors are blocked by the structure.



SERVOGLAS 5000X2

Auto-lift welding helmet
for easy welding and grinding
with a wide view window and
transparent **grinding shield** provided
by **one-touch automatic slide**.



Auto lift grinding shield

The easy-to-use automatic one-touch sliding folder provides a wide, transparent protective shield for grinding after welding.

Ultra-fast dual RF sensors

In low-current TIG welding, it has a fast pre-shading speed, protects from malfunction of the photo sensors during welding, and enables stable welding even in tasks such as mirror welding where the photo sensors are blocked by the structure.

Wide view window

7mm long wide LCD welding screen provides a wide welding field of view to the left and right





SERVOGLAS 4000V *NEW*

The legendary 4000V welding helmet that has returned more powerfully with 180-degree view combined with a **wide welding screen** and **panoramic side view**, and **ultra-fast dual RF sensors**.



Panoramic side view

Equipped with a side-shielding lens (IR #5) to secure a 180 degree field of view when welding, It is safer as it eliminates narrow vision and tightness and allows you to see a wider area around the weld.

Wide view window

7mm long wide LCD welding screen provides a wide welding field of view to the left and right

Ultra-fast dual RF sensors

In low-current TIG welding, it has a fast pre-shading speed, protects from malfunction of the photo sensors during welding, and enables stable welding even in tasks such as mirror welding where the photo sensors are blocked by the structure.



SERVOGLAS 4000V *Classic*

A new ultra-lightweight and cost-effective welding helmet with a **wide welding screen** and a **new ergonomic headband**

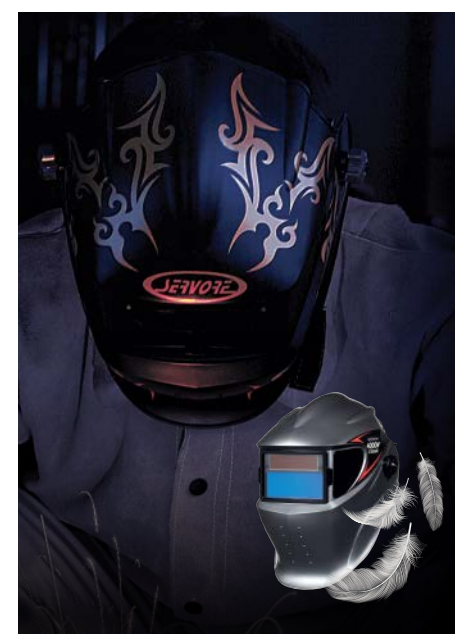


Lightweight shell and ergonomic headband

The ultra-lightweight helmet and comfortable headband minimizes fatigue, pain and discomfort due to weight even when worn for a long time.

Wide view screen

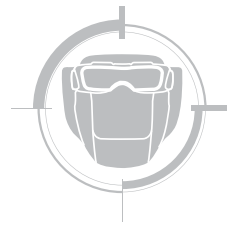
The 7mm long wide LCD screen provides a wide view to the left and right.





ARCSHIELD

Auto Darkening Welding Mask



Function operation

Arcshield2 Arcshield2-Visor



Power/Grind
Function Button



Shade
Control



Delay
Control



Sensitivity
Control

Arcshield1 Arcshield1-Flash



Low Battery
Warning(Low Bat)



Power/Grind
Function Button



Hold
Button

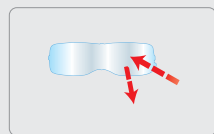


Sensitivity
Control



Shade
Control

User-friendly features



Anti-scratch protection lens

The Front protection lens is hardcoated for increased protection against welding spatter, scratch and external impact.



Eye glasses wearable goggle

Goggle that enables wearing of Safety/Prescription glasses can be worn with the goggle.



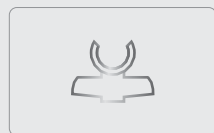
Rx/Mag lens frame

Frame with Rx(prescription)/ Magnifying lens can be attached to the goggle inside.
(Magnifying Lens - D 1.5/2.0/2.5)



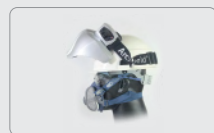
Anti-fog inner protection lens

Excellent anti-fog performance preventing goggles from steaming up.



Flash light holder

Provides a holder that can easily and firmly mount a flash (for AAA batteries) to brightly illuminate the welding spot in a dark and confined space.
(Applied to Arc Shield 2 model)












Safety helmet adaptor

Patented safety helmet adaptor is perfectly balanced ensuring maximum comfort and freedom of movement

Specifications

| | Arcshield2 | Arcshield2-Visor | Arcshield1 | Arcshield1-Flash |
|---------------------|--|---|---|---|
| Switching Speed | 1 / 25,000 sec (0.04ms) | 1 / 25,000 sec (0.04ms) | 1 / 15,000 sec (0.06ms) | 1 / 15,000 sec (0.06ms) |
| Shade Control | Inactivated | SHADE #3 | SHADE #3 | SHADE #3 |
| | Activated(Dark) | SHADE #5 ~ #8(cutting mode) SHADE #9 ~ #13(welding mode) | SHADE #5 ~ #8(cutting mode) SHADE #9 ~ #13(welding mode) | SHADE #5,#7(cutting mode) SHADE #9,#11,#13(welding mode) |
| Delay Control | 7 Step (Fast-Slow) | 7 Step (Fast-Slow) | X | X |
| Sensitivity Control | 7 Step (LOW - HIGH) | 7 Step (LOW - HIGH) | 5 Step (LOW - HIGH) | 5 Step (LOW - HIGH) |
| Dual Sens | Photo Sensor | 2 | 2 | 2 |
| | RF Seonsor* | O | X | X |
| TIG Performance* | Low Amp. <5A | Low Amp. <5A | Low Amp. 10A < | Low Amp. 10A < |
| Power Source | 3V Lithium(CR2450) 1EA | 3V Lithium(CR2450) 1EA | 3V Lithium(CR2032) 2EA | 3V Lithium(CR2032) 2EA |
| Battery life | 1000h (Replaceable) | 1000h (Replaceable) | 1000h (Replaceable) | 1000h (Replaceable) |
| Weight | Goggle | 260g | 162g | 162g |
| | Goggle with shield | 348g | 280g | 220g |
| Operating Temp. | -5°C ~ +55°C | -5°C ~ +55°C | -5°C ~ +55°C | -5°C ~ +55°C |
| Storage Temp. | -20°C ~ +70°C | -20°C ~ +70°C | -20°C ~ +70°C | -20°C ~ +70°C |
| Flash Light Source | | | | LED 2ea |
| Flash Power Source | | | | Lithium3V 2032 2ea |
| Flash Battery life | | | | 80hour |
| Range of use | Grind, Gas welding&cutting, Arc/MIG/TIG welding | Grind, Gas welding&cutting, Arc/MIG/TIG welding | Grind, Gas welding&cutting, Arc/MIG/TIG welding | Grind, Gas welding&cutting, Arc/MIG/TIG welding |

Selector table

| | | | | |
|--|---|---|---|---|
|  TIG | ● | ● | ● | ● |
|  MIG/MAG | ● | ● | ● | ● |
|  Electrode | ● | ● | ● | ● |
|  GRIND | ● | ● | ● | ● |
|  Natural Color | | | | |
|  W-view LCD | ● | ● | | |
|  RF Sensor | ● | ● | | |
|  Dual Power Sensing | ● | ● | | |
|  Power Auto ON-OFF | | | | |



ARCSHIELD 2

The new 2nd generation auto-darkening welding goggles with shield-Professional Series

The new goggles boast faster and more powerful **TIG welding performance** thanks to the surprisingly expanded **field of view** and **function**, and dual RF sensors.



A wider field of view than most welding helmet

When welding structures and pipes in a narrow space, moving in the workplace, and working at high places, the bright and clear wide LCD screen provides a wide, clear view.

Ultra-fast dual RF sensors

In low-current TIG welding, it has a fast pre-shading speed, protects from malfunction of the photo sensors during welding, and enables stable welding even in tasks such as mirror welding where the photo sensors are blocked by the structure.

Convenience that can be combined with various protective equipment

It is possible to mount a hard hat by using a bracket and a wide internal space where safety glasses and dust masks can be worn, and the LED flash (sold separately) can be easily installed by applying a light holder.



ARCSHIELD 2-Visor

The remarkable transformation of the new 2nd generation Arcshield continues from the **light-mounted expandable shield** to the combination of the **headgear using** smart brackets.



Forehead protection extended shield

The expandable visor that can protect the forehead without wearing a hood or hat provides a large interior space for wearing safety glasses and a dust mask, and a dedicated light holder that can be used with LED flashlight.

Combination of Arcshield and headband

By replacing the existing goggle band with a helmet-type headband, the Arc shield can be used up and down for securing visibility and preparation work like a welding helmet.

Smart bracket for headgear

The smart bracket that connects the headband and shield is a patented product designed to easily raise and lower the arc shield by using a spring and a magnetic mechanism to avoid interference from the skirt.



ARCSHIELD 1

1st generation new concept auto-darkening welding goggles with shield-Beginner series

The lightest welding helmet in the world, excellent in preventing musculoskeletal diseases and easy to wear a hard hat



Small welding helmet in pocket

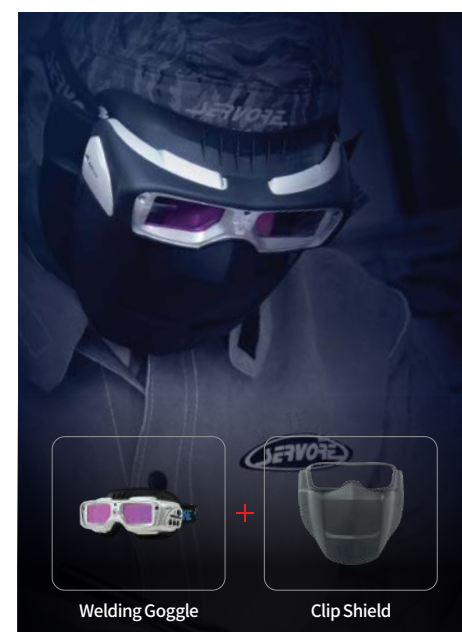
It is lightweight, can be worn easily, and is easy to carry at all times, and its small size satisfies both welders and inspectors.

Optimized for tight working environments

Due to its small size, it is a product that can be used very usefully as a safety protection device for welders in various environments such as pipe welding in narrow spaces, remodeling and repair of automobiles and ships, welding quality inspection, and welding training.

Prevention of musculoskeletal diseases

Even when the shield is attached, it is 220g, which is more than 50% lighter than the existing welding helmet, so it can prevent musculoskeletal disorders that professional welders suffer a lot.



Welding Goggle

Clip Shield



ARCSHIELD 1-Flash

Safety in harsh environments by installing high-brightness flash and expanding the space for respiratory protection.



Equipped with LED flash to illuminate the welding area

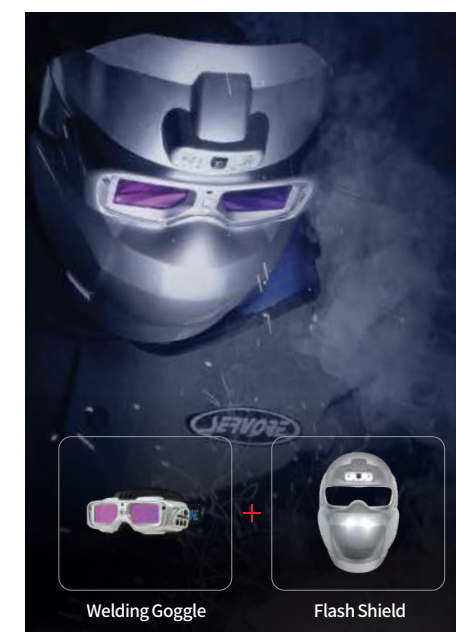
In a dark, backlit environment without lighting, an LED flash is required to illuminate the welding area, and it is convenient and safe when welding.

Expansion of space for wearing breathing protection

With the expansion of the space for respiratory protection, the front expandable shield that allows you to wear a dust mask is more comfortable and you can work in harsh environments.

Optimized for tight working environments

Due to its small size, it is a product that can be used very usefully as a safety protection device for welders in various environments such as pipe welding in narrow spaces, remodeling and repair of automobiles and ships, welding quality inspection, and welding training.



Welding Goggle

Flash Shield