

# Auto Darkening Welding Goggles

## FITTED WITH TRUE COLOUR LENS



High speed switching time from light to dark 0.3ms ensures operator protection

A light and well-balanced design with adjustable headband provide a comfortable fit for the operator.

Sensitivity and delay time selectors



Powered by lithium battery.

Shade Setting adjustment 5-9 / 9-13 & Grind mode selector

Photoelectric sensors technology combined with a high quality LCD display provides the operator with an optimised view and effective protection.

### MAIN SPECIFICATIONS

Model	GL-WH11-1015A
Auto Filter Model	GL-1015A
Auto Filter Size	190(W) x 80(H) x 75(T) mm
Viewing Field	50 x 35mm x (L,R)
Shade Control Light States:	DIN 4
Shade Control Dark States:	DIN 5 – 9 / 9 – 13 Outside Adjustable
Switching Time	Light - Dark: 0.3 ms
Delay Time	Dark - Light: 0.1 – 0.8 sec
Sensitivity & Delay Time	Outside Adjustable
Power Supply	3V Lithium Battery (1 x CR2450, Replaceable)
Grinding Mode	Yes
Grind Mode & LED Indicator	Yes
Arc Sensors	3 Sensors
Operating Temperature	-5°C to + 55°C
Storing Temperature	-20°C to + 55°C
Helmet Material	PA
Total Weight	265g

**MIG**

**TIG**

**MMA**

**PLASMA**

**GRIND**

**OXY CUTTING**



- MIG / TIG / ARC / PLASMA OXY CUTTING & GRINDING applications
- Ideal for confined space work / mobile welding
- Bump cap for head protection

- Fire retardant hood for protection.
- Soft Silicon lined goggles for user comfort.
- Detachable mask

*"Ultimate Welding Products"*



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## Important information Please read before use

**THESE WELDING GOGGLES ARE DESIGNED FOR USE BY PERSONS WITH A FULL UNDERSTANDING OF THE HAZARDS AND SAFETY RISKS WITH WELDING**

GL-WH11-1015A auto-darkening welding goggles are a high-tech product manufactured with spectral filtering technology, photoelectric sensors and control unit technology. The photoelectric sensor makes liquid crystal change from bright state to dark state as soon as it receives arc light and changes from dark to bright state when welding is finished to protect the eyes of users from arc light, splash and harmful radiations of IR/UV

Parts included in this package include the following:

- Welding shell with auto-darkening lens
- Elastic Headband assembly
- Outer protection lens
- Bump Cap
- Fire Retardant Hood
- Instructions

### ASSEMBLY INSTRUCTIONS

1. Install elastic headband by putting the plastic buckle at the headband ends into the remaining clips on both sides of the goggles. The elastic headband can be fastened or loosened by adjusting the buckle in the middle of headband. Clip face shield to goggles

### WARNING!

- \* Welding helmets do not provide unlimited eye, ear and face protection. If you are uncertain do not use this product as misuse may result in serious injury. These goggles provide protection against the hazards of welding but are not designed or intended to be used without other appropriate personal protective equipment (PPE) additional PPE is required for all other areas of exposed skin such as face and neck.
- \* These auto-darkening goggles are not suitable for laser welding.
- \* Do not use these welding goggles whilst working with or around explosive or corrosive liquids.
- \* Never place these goggles and auto-darkening filter on a hot surface
- \* Inspect the auto-lens frequently. Immediately replace any scratched, cracked, or pitted cover lenses or auto-lenses.

### REPLACING THE PROTECTION LENSES

1. Ensure that the goggle is always fitted with an outer protection lens.
2. Outer protection lenses must be replaced if broken,

damaged or covered with welding spatter to the extent that vision is impaired.

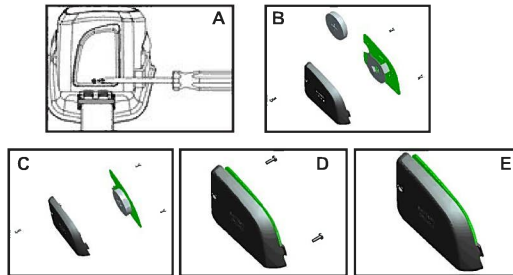
3. Outer protection lenses are consumables and must be replaced regularly with genuine certified spare parts.
4. Replace outer lens: Remove used outer lens by peeling from the gap in the top middle of lens. Install the lens by gently bowing it in the center and inserting it, one end at a time, into the retaining clips located on the outside of the goggle



### BATTERY REPLACEMENT

When the Low Battery indicator is lit up with red, please change battery at once and please pay attention to positive and negative terminals and replace battery according to following operations:

1. Unscrew the battery cover on the right side and removed used battery
2. Replace battery, then screw on the battery cover.



### BEFORE WELDING

1. Please check whether outer protection lens fitted correctly and in good order.
2. Please make sure that there is enough power in the battery if the Low battery indicator is red, change battery before use.
3. Please check that ADF filter darkens normally.
4. Please check that outer protection lens is not damaged

- or blocked by dust or particles, pay attention to whether arc sensor are blocked or covered by any dust and particles.
5. Please check all operating parts to see whether they are worn out or damaged. Any scratched or broken parts should be replaced immediately to avoid injury to the welder's eyes.
  6. Please ensure goggles are sealing against light before use.
  7. Before using these welding goggles for the first time, the protective film that covers the protection lenses must be removed from both sides of the lens.
  8. Adjust the shade control knob clockwise to the desired welding shade before starting welding.

### Caution:

**Ensure grind mode is not selected before welding**

9. Before welding, the window will be in light DIN 4 state and you can see the work piece. The lens will automatically darken when an arc is struck.

**TEST THE LENS OPERATION BEFORE STRIKING AN ARC DO NOT USE IF LENS DOES NOT DARKEN.**

The "Grind" LED will twinkle with green color when Grinding, "Low battery" LED will twinkle with red color when low battery. To use the Grind mode, turn the Shade knob clockwise to the far right position (Grind), and the grind light will keep flashing. To resume welding, return the control to the desired shade setting. **Note! Do not weld in the Grind mode; the lens will not darken.**



### WHEN WELDING

1. Change dark shade between 5 and 9 or between 9 and 13 via selector switch as desired by using the variable adjustment knob. Refer to Shade Guide Table if necessary.
2. Adjust the Sensitivity and Delay Time as desired by using the variable adjustment knobs.



### PRODUCT FEATURES

1. Powered by 1 x CR2450 lithium battery.
2. Setting adjustment knobs can adjust shade 5-9/9-13. Sensitivity and delay time, and grinding function is also selective.
3. Photoelectric sensors technology, liquid crystal of high quality and spectrum filter provide welders a clear view of observation and effective protection.
4. The speed of filter changing from light to dark is 0.3ms to ensure that eyes are protected from injury
5. Light and well-balanced design and adjustable headband provides comfortable fit and less fatigue for the operator.

### GENERAL CARE AND MAINTENANCE

1. The filter lens should be cleaned when the outer cover lens is replaced.
  2. Wipe with clean dry cloth
  3. Apply ordinary disinfectant with a clean cloth or paper towel.
  4. Replace parts with our genuine parts replacements only.
- DO NOT APPLY CLEANER DIRECTLY TO THE FILTER LENS. DO NOT USE ALCOHOL TO CLEAN.**

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Helmet Material	PA
Total Weight	265g

## TROUBLE SHOOTING

- Not ON – auto lens will not darken. Check battery and verify it is in good condition and installed properly. Check battery for proper contact and gently adjust contact points if necessary. Change cover lens if dirty or damaged. If auto lens still won't darken return to dealer for replacement. Do not continue to use goggles.
  - Not Switching – auto lens stays light and will not darken when welding. Stop welding immediately; Change the battery if Low Battery Light indicates. If power is on, review the sensitivity recommendations and adjust sensitivity. Clean lens cover and sensors of any obstructions. If auto lens still won't switch return to dealer for replacement. Do not continue to use goggles.
  - If goggles are flickering during use causes could be incorrect distance from arc and sensitivity too low
- Note!** Making sure the sensors are clean and facing the arc; angles of 45° or more will not allow the arc light to reach the sensors.
- Not switching – auto lens stays dark after the weld arc is extinguished, or the auto-lens stays dark when no arc is present. Fine-tune the sensitivity setting by making small adjustments to the control by turning it toward the 'Lo' setting. In extreme light conditions, it may be necessary to reduce the surrounding light levels. If auto lens still won't switch return to dealer for replacement. Do not continue to use goggles.
  - In case of any malfunction during test or using, please stop using goggles and contact your dealer for replacement.

## CAUTIONS

1. The goggle is not suitable to laser welding
2. Do not put goggles near to heat or damp (extreme temperature hot or cold)
3. Do not open the goggles except changing battery or front cover lens as detailed in the manual
4. Please check whether welding/grinding is chosen correctly before use.
5. Protective lens must be installed on the outside of goggles. Otherwise, goggles will be damaged.
6. Do not alter or modify the goggles. Use only genuine Metalarc replacement cover lens.
7. Please immediately stop using goggles and contact dealer if filter cannot become dark in welding.
8. Do not use solvents or strong chemicals such as alcohol, gasoline or diluents to clean goggle.
9. Do not put the goggles into water.

10. The reaction of goggles will be slower if ambient temperature is low but it will not affect protective functions.
  11. Please replace the goggles immediately if they are broken or scratched because this damage will seriously reduce the protective performance.
  12. Please replace protective lens immediately if it is broken or scratched. Do not use hard objects to contact the glasses of the filter.
  13. Please clean the surface of goggle, and sensor regularly.
  14. Goggle bump cap cannot resist damage caused by a violent hit, explosion or corrosive liquid.
  15. Do not drop or expose goggles to excessive force or impact
  16. Clean with cloth dampened with glass cleaner or mild detergent.
  17. Store goggles in goggle bag when not in use.
  18. Do not wear the goggles when not actual welding or when walking around as this may result in accident or injury
- Notice: If the used does not follow the above cautions, it may result in serious injury.**

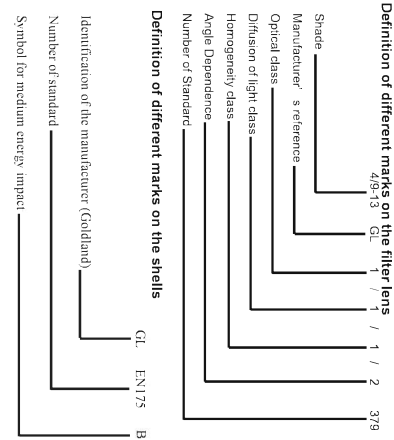
## SPARE PARTS LISTING: UMAWG PART No.

- |                               |              |
|-------------------------------|--------------|
| 1. METALARC Auto Filter.      | GL-1015A     |
| 2. METALARC Protective Shield | MEGMASK      |
| 3. Elastic Headband           | MEGSTRAP     |
| 4. Outer protection lens      | UMGOP        |
| 5. Fire Retardant Hood        | MEGHOOD      |
| 6. Bump Cap                   | UMGBUMP      |
| 7. Battery CR2450             | UMABT        |
| 8. Battery Cover              | UMG1015A05   |
| 9. Battery cover screw        | UMGM2-67TPA  |
| 10. PCB Battery screw         | UMG1015APCBB |
| 11. Auto filter carry bag.    |              |
- An inner protection lens is not needed for these goggles.

## 2 Years WARRANTY

We offer a limited warranty for this product against any defects in material and workmanship for a period of two years. This warranty does not include any damages arising from misuse of this product or modification without authorization.

**ARCENT**  
**IMPORTED & DISTRIBUTED BY**  
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**SHADE GUIDE TABLE**

(as per EN 169 and BS 379)

Welding Process	Arc Current (Amperes)																			
	10	20	30	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	600
SAW			9		10											12			13	14
MIG(heavy)										10						12			13	14
MIG(light)										10						12			13	14
TIG-GTAW										9						12			13	14
MAGCO2										10						12			13	14
SAW										10						11			12	13
PAC										11						12			13	14
PAW										9						10			11	12
																				13
																				14
																				15

**METALARC**  
 Auto Darkening Welding Goggles  
**MANUAL**

**Tested and complies to standards:**  
 DIN EN 379 : 2003 + A1 : 2009  
 AS/NZS 1338.1 : 2012  
 ANSI / ISEA Z87.1 - 2015  
 CSA Z94.3 - 15