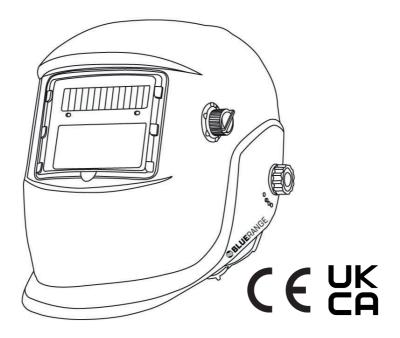


USER MANUAL

SOLAR POWERED AUTO-DARKENING WELDING HELMET

MODEL NO: UNL12 PART NO: BR9008000



IMPORTANT NOTICE:

Keep these instructions safe for future reference.

Read instructions carefully, follow the safe working practices outlined and heed the warnings. Failure to do so may lead to personal injury or damage the product.

1) Introduction

Auto-darkening welding helmets are designed to protect the eyes and face from sparks, splatter, and harmful radiation under normal welding conditions. The auto-darkening filter (ADF) automatically changes from a light to dark state when an arc is struck and returns to the light state when the welding arc disappears.

The Auto-darkening welding helmet comes ready to use. The only thing you need to do before welding is to adjust the position of the headband and select the correct shade number for your application.

WARNING \Lambda PLEASE READ THIS MANUAL CAREFULLY BEFORE USING

2) Technical Specifications

Great for MMA, MIG, MAG and TIG.

110mm × 90mm × 9mm
92mm × 42mm
DIN4
DIN9-13
Variable adjusted by external knob
Auto
1/25000S
Variable adjusted by external knob
0.1S~1.0S Variable adjusted by external knob
Solar cells and replaceable CR2032 lithium battery
-5°C+55°C
-20°C+70°C
4
DIN16
Yes
Yes
Yes
>5amps





1. Delay time adjust:adjust the auto d arkening welding filter from the dark to light time

2. Sensitivity adjust :according to the operation situation to adjust the sensitivity

- 3. Dark shade adjust: according to the operation situation to adjust the dark shade from DIN9 DIN13
- 4. Replace which need to put 1pcs battery
- 5. Sensor: high sensitive sensors
- 6. High quality LCD: .light evenly image clearly

3) Operating Instructions

3.1 Before Welding

5.1.1 Ensure that the internal and external protective films are removed from the lenses.

5.1.2 Check that the batteries have sufficient power to operate the helmet. The filter cartridge can last for 5,000 working hours powered by the lithium batteries and solar cells.



5.1.3 Check that the arc sensors are clean and not blocked by dust or debris.

5.1.4 Check for headband tightness before each use.

5.1.5 Inspect all operating parts before use for signs of wear or damage. Any scratched, cracked, or pitted parts should be replaced immediately before using again to avoid severe personal injury.

5.1.6 Select the shade number you require at the turn of a shade knob . Finally, be sure that the shade number is the correct setting for your application.

Shade Guide Table

Welding Current (A) Welding Type	0.5	2 1 	2.5	1 5 	0	20	30	40	60 	80 10	125	5 1 ⁻ 150	75 2: 200 	25 25 	275 D 3	3: 00	50 45 400 	50 50	0
SMAW							9		10		11			12			13		14
MIG (Heavy)										10	:	11		12			13		14
MIG (Light)										10	:	11	12		13		14		15
TIG GTAW					9		10		11		:	12		13			14		
MAG / (C02)									10	1	1	12		13			14	15	5
SAW												10	11	12	: :	13	14	15	5
PAC										1	1		12				13		
PAW				8	9	10	1:	1	12			13			:	14		15	5

Note:

SMAW - Shielded Metal Arc Welding. TIG GTAW - Gas Tungsten Arc (GTAW)(TIG). MIG (Heavy) - MIG on heavy metals. SAW Shielded Semi - Automatic Arc Welding. MIG (Light) - MIG on light alloys. PAC - Plasma Arc Cutting PAW - Plasma Arc Welding

3.2 Sensitivity

The sensitivity control is set according to the welding process and ambient light.

3.2.1 Low Setting- suitable for high amperage welding and welding in areas with high levels of natural sunlight.

3.2.2 Medium Setting - suitable for most indoors and outdoors welding.

3.2.3 High Setting- suitable for low amperage welding and welding in areas with low light conditions, especially for low amperage argon-arc welding.

3.3 Grinding Mode

The welding helmet can also be used to protect the face during grinding.Switching to Grind mode will prevent the filter cartridge from darkening when bright sparks are created.

3.4 Delay Time

Delay time refers to the time the cartridge filter is set to change from the dark to bright state after welding stops. The delay can be adjusted up to a one second delay.

3.4.1 The minimum delay is set between 0.1 to 0.2 seconds, suitable for spot or short welds.

3.4.2 The maximum delay time is set between 0.85 to 1.0 second, suitable for heavy current welding or when visible light is produced.

3.4.3 Selections between minimum and maximum are suitable to most indoor and outdoor welding operations.



3.5 Adjust the headband

3.5.1 Adjusts headband for proper depth on the head to ensure correct balance and stability. (See No.1). 3.5.2 Adjusts the distance between the face and the lens.To adjust, adjust the positioning screw moved to another location slot, forward or backward. Screw down the screws.(Both sides must be equally positioned for proper vision,See No.2)

3.5.3 Turn the adjusting knob located on the back of the headband left or right to desired tightness.(See No.3)

3.5.4 Shift the segmental plate with different positioning hole to adjust the window angle for clear view. (See No.4) Numbers on the adjustment slides indicate set position so both sides can be adjusted equally.



NO.1

NO.2

NO.3

NO.4



3.3 Replacing The Battery

When the battery power is low, the filter cartridge lens may not work correctly. Replace the Batteries. To replace the battery, first unscrew the front lens retaining frame and remove this. Locate the battery holder at the top of the Auto Darkening Filter and slide upwards to open. Remove the old battery and replace with a new CR2032 battery. Close the battery holder and screw the front lens retaining frame back into position.



4) How to Install the Headgear to Welding Helmet Shell



Begin and continue your welding work.

5) Maintenance

5.1. Cleaning and disinfection: Clean filters surfaces regularly; do not use strong cleaning solutions. Always keep sensors and solar cells clean using a clean lint-free tissue/cloth. You can use alcohol and cotton to wipe.

- 5.2. Use neutral detergent to clean the welding shell and headband.
- 5.3. Replace outer and inner protection plates periodically.
- 5.4. Do not immerse the lens in water or any other liquid. Never use abrasives, solvents or oil based cleaners.
- 5.5. Do not remove the auto-darkening filter from the helmet. Never try to open the filter.

6) Safety Warning

- Recommended usage period of 3 years from date of first use. The duration of the helmet depends on various factors such as usage, cleaning, storage and maintenance. Frequent inspections and replacement of damaged components is recommended.
- Materials that may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals
- Eye-protectors against high speed particles worn over standard ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer.particles at room temperature.



- If protection against high speed particles at extremes of temperature is required, then the selected eyeprotector should be marked with the letter T immediately after the impact letter, i.e. FT, BT or AT. If the impact letter is not followed by the letter T then the eye protector shall only be used against high speed
- 1. This Auto-Darkening filter welding helmet is not suitable for laser welding and Oxyacetylene welding.
- 2. Never place this Helmet and Auto-Darkening filter on a hot surface.
- 3. Never open or tamper with the Auto-Darkening filter.
- 4. Before operating, please make sure that the function-setting switch is set to the suitable location ("WELDING" / "GRINDING"). This Auto-darkening filter welding helmet will not protect against severe impact hazards.
- 5. This helmet will not protect against explosive devices or corrosive liquids.
- 6. Do not make any modifications to either the filter or helmet, unless specified in this manual.
- 7. Should this helmet not darken upon striking an arc, stop welding immediately and contact us.
- 8. Do not immerse the filter in water.
- 9. Do not use any solvents on filters' screen or helmet components.
- 10. Use only at temperatures: -5°C ~ + 55°C (23°F ~ 131°F)
- 11. Storing temperature: 20°C ~ +70°C (-4 °F ~ 158°F)
- 12. Protect filter from contact with liquid and dirt.
- 13. Clean filters' surfaces regularly; do not use strong cleaning solutions. Always keep sensors and solar cells clean using a clean, lint-free tissue/cloth.
- 14. Regularly replace the cracked/scratched/pitted front cover lens.

7) Troubleshooting

Irregular Darkening or Dimming

• Headband has been set unevenly and there is an uneven distance from the eyes to the filter's lens (reset headband to reduce the difference to filter)

Auto-Darkening Filter Does Not Darken Or Flickers

- Front cover lens is soiled or damaged (change lens cover)
- · Sensors are soiled (clean the sensors surface)
- Welding current is too low (change the "SENSITIVITY" to "HIGH")

Slow Response

• Operating temperature is too low (do not use at temperatures below -5°C or 23°F)

Poor Vision

- Front/inside cover lens and/or filter lens are soiled (change lens)
- · There is insufficient ambient light
- Shade number is incorrectly set (reset the shade number)

Welding Helmet Slips

· Headband is not adjusted properly (readjust headband)

WARNING . Operator must stop using the auto-darkening filter welding helmet immediately and contact the supplier if the above-mentioned problems cannot be corrected.

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11) Spare Parts

Model	BR9008000
Outside Lens	BR9008010
Inside Lens	BR9008020
Battery	BR9008030

12) Product Warranty

- 12.1. The manufacture's sole obligation under this warranty is limited to making replacement of repairs, or refund of the purchase price for the products with defects.
- 12.2. This warranty does not cover product malfunctions or damage resulting from products tampering, misuse or abuse. Please follow the operating instructions carefully to maintain this warranty. Failure to do so will void the warranty. The manufacturer shall also not be held liable for any indirect or consequential damages arising out of the use of this product.
- 12.3. This product has a 12 month warranty from the purchase date.

The warranty is in addition to any consumer rights you may have under UK law.



PROTECT THE ENVIRONMENT

When this product reaches the end of its useful/working life it should be recycled in line with local policies and regulations. Take the product to your recycling centre to be disposed of in an environmentally friendly manner

IMPORTANT:

We reserve the right to update our product specification, data and parts with out notice, as part of our continuous improvement policy.

We accept no liability for any incorrect use of this product.

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Document UN9000 Dated

1st May 2023 - Rev1.2

