

ANDELI ADLDH9242-A

ANDELI ADLDH9242-A Auto-Darkening Welding Helmet User Manual

Model: ADLDH9242-A

INTRODUCTION

Thank you for choosing the ANDELI ADLDH9242-A Auto-Darkening Welding Helmet. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your welding helmet. Please read this manual thoroughly before use and keep it for future reference.

SAFETY PRECAUTIONS

Always prioritize safety when welding. Failure to follow safety guidelines can result in serious injury or damage to equipment.

- **Eye Protection:** This helmet provides protection against harmful UV/IR radiation and intense visible light during welding. However, it is not suitable for laser welding.
- **Impact Protection:** This helmet is designed to protect against light impact, but it is not a substitute for safety glasses or face shields for heavy impact applications.
- **Ventilation:** Ensure adequate ventilation in your work area to avoid inhaling welding fumes.
- **Temperature:** Do not use the helmet in temperatures outside its specified operating range.
- **Maintenance:** Regularly inspect the helmet for damage. Replace any damaged parts immediately.
- **Cleaning:** Clean the lens and helmet body with a soft cloth and mild detergent. Avoid abrasive cleaners.

PRODUCT FEATURES

- **True Color Lens Technology:** Provides clearer and more accurate color views, enhancing visibility of the weld puddle.
- **Wide Application:** Suitable for TIG, MIG, MMA welding, plasma cutting, and grinding operations.
- **Fast Auto-Darkening:** Switches from light to dark in 1/15000 seconds upon arc ignition.

- **Solar Powered with Replaceable Battery:** Combines solar charging with a replaceable CR2032 battery for extended life and reliability.
- **Adjustable Headgear:** Ergonomically designed headgear for comfortable and secure fit.
- **Optical Clarity:** Rated 1/1/1/2 for superior optical performance.



Image: Comparison of True Color Lens technology with traditional lens technology, showing clearer vision with the True Color lens.

TRUE COLOR

CLEARER AND MORE ACCURATE
COLOR VIEWS



Image: The helmet being used for various welding processes including MMA, MIG, and TIG.

SETUP AND ASSEMBLY

1. **Unpacking:** Carefully remove all components from the packaging. Ensure all parts are present: helmet shell, auto-darkening filter (ADF) lens, headgear, and spare protective lenses.
2. **Headgear Adjustment:**

- Attach the headgear to the helmet shell using the pivot points.
- Adjust the top strap to fit the crown of your head.
- Rotate the rear adjustment knob to tighten or loosen the headband for a snug, comfortable fit.
- Adjust the distance between the helmet and your face using the side knobs to ensure proper viewing angle and balance.



Image: Detailed view of the adjustable headgear, showing the various adjustment points for a custom fit.

3. Protective Lens Installation:

- Ensure the inner and outer protective lenses are free from scratches or damage.
- Remove the protective film from both sides of the new protective lenses before installation.
- Insert the outer protective lens into the designated slot on the front of the helmet.
- Insert the inner protective lens behind the ADF unit.

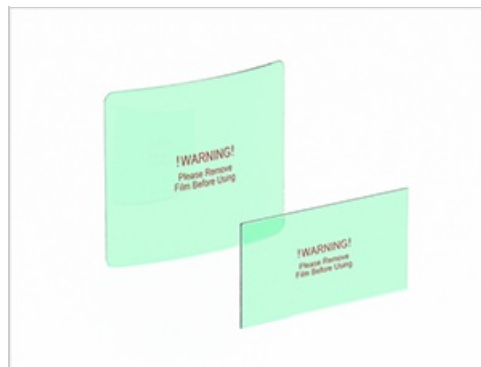


Image: Protective films for the inner and outer lenses, with a warning to remove them before use.

4. **Battery Check:** The helmet is equipped with a solar panel and a replaceable CR2032 battery. The battery is typically pre-installed. Ensure the battery is properly seated.

OPERATING INSTRUCTIONS

1. **Power On/Off:** The helmet automatically powers on when exposed to light and powers off after a period of darkness. There is no manual on/off switch.
2. **Sensitivity Adjustment:** Use the sensitivity knob on the side of the ADF unit to adjust how quickly the lens reacts to light. Higher sensitivity is suitable for low-amp TIG welding.
3. **Delay Adjustment:** Use the delay knob to set the time it takes for the lens to return from dark to light state after welding stops. A longer delay is useful for high-amp welding to prevent eye fatigue from afterglow.
4. **Shade Adjustment:** The helmet offers variable shade settings from DIN 4/9-13. Use the external shade knob to select the appropriate shade level for your welding process.
 - **Shade 4:** For grinding mode.

- **Shade 9-13:** For various welding processes (TIG, MIG, MMA). Refer to welding shade charts for specific recommendations.

5. **Grinding Mode:** Activate the grinding mode (usually a switch on the ADF unit) to lock the lens in a light state (Shade 4) for grinding operations. Remember to switch back to welding mode before welding.

6. **Test Button:** Press the "Test" button on the ADF unit to verify the auto-darkening function. The lens should momentarily darken and then return to its light state.

SCENE WELDING

9844-BASIC MODEL

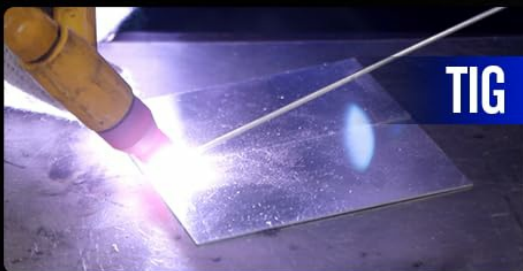


Image: Close-up of the ADF lens showing the arc sensors, adjustment knobs for sensitivity and delay, and the replaceable battery compartment.

MAINTENANCE

- **Cleaning the Helmet:** Clean the helmet shell with a mild soap and water solution. Avoid strong solvents.
- **Cleaning the ADF Lens:** Gently wipe the ADF lens with a soft, lint-free cloth. Do not use abrasive materials or cleaning solutions that could damage the lens coating.
- **Replacing Protective Lenses:** Replace the outer and inner protective lenses when they become scratched, pitted, or too dirty to clean effectively.
- **Battery Replacement:** When the low battery indicator illuminates (if present) or the auto-darkening function becomes unreliable, replace the CR2032 battery.

REPLACEABLE BATTERY

2*CR2032
BATTERY

AMAZING
USAGE TIME

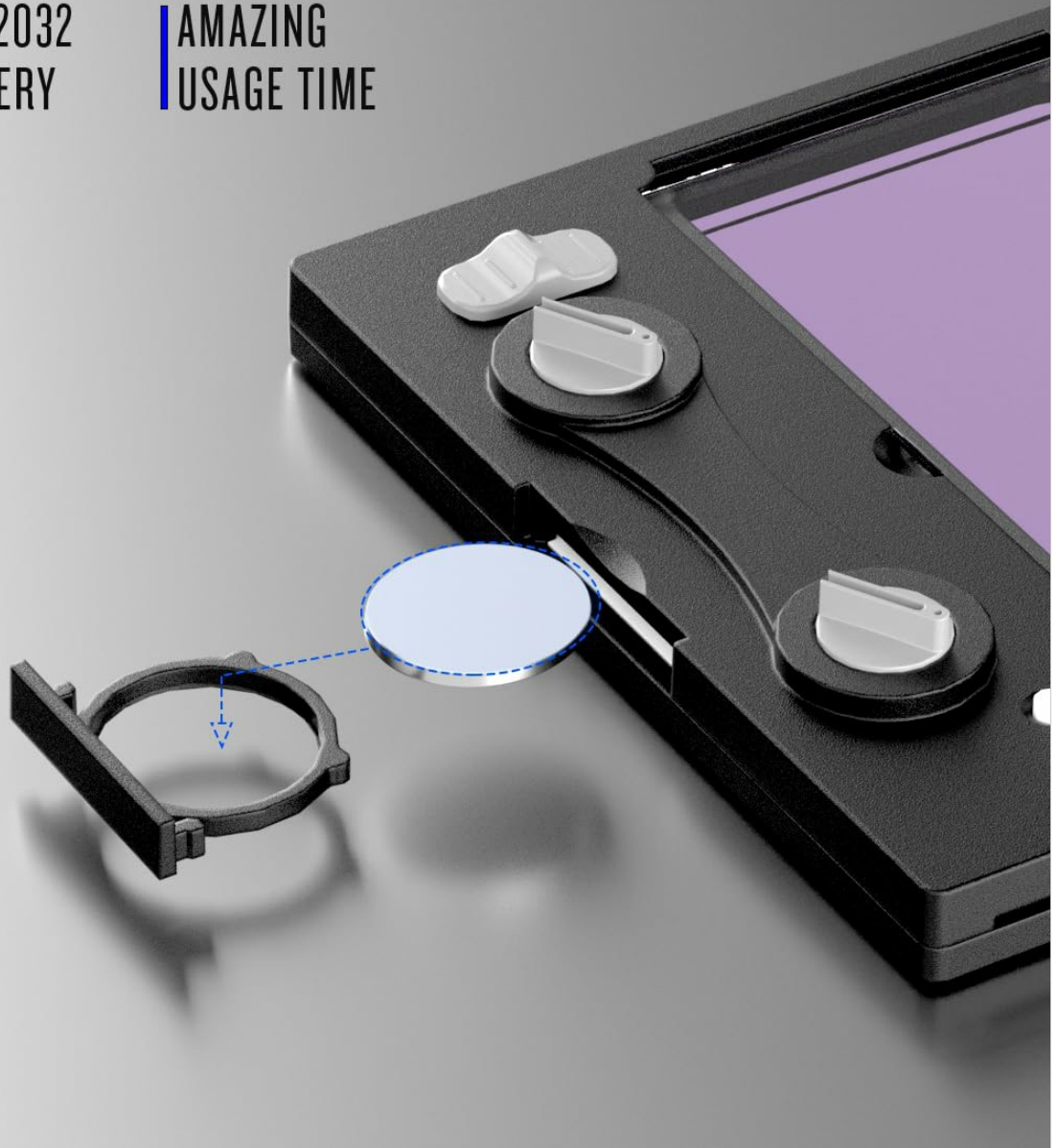


Image: Illustration showing how to access and replace the CR2032 battery in the auto-darkening filter unit.

- **Storage:** Store the helmet in a dry, clean place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lens does not darken when welding arc starts.	<ul style="list-style-type: none"> • Low battery. • Arc sensors are dirty or obstructed. • Sensitivity setting is too low. • Helmet is in grinding mode. 	<ul style="list-style-type: none"> • Replace CR2032 battery. • Clean arc sensors. • Increase sensitivity setting. • Switch out of grinding mode.
Lens remains dark after welding stops.	<ul style="list-style-type: none"> • Delay setting is too high. • Low battery. 	<ul style="list-style-type: none"> • Decrease delay setting. • Replace CR2032 battery.
Poor visibility through the lens.	<ul style="list-style-type: none"> • Protective lenses are dirty or scratched. • Protective film not removed from lenses. 	<ul style="list-style-type: none"> • Clean or replace protective lenses. • Remove protective film from new lenses.

SPECIFICATIONS

Feature	Specification
Model	ADLDH9242-A
Brand	ANDELI
Optical Class	1/1/1/2
Viewing Area	92mm x 42mm (3.63" x 1.66")
Light State Shade	DIN 4
Dark State Shade	DIN 9-13 (Adjustable)
Switching Time	1/15000 seconds
Delay Time	Adjustable (Short-Long)
Sensitivity	Adjustable
Arc Sensors	2
Power Supply	Solar Cell & Replaceable CR2032 Battery
Material	Plastic
Weight	0.48 kg
Applications	TIG, MIG, MMA, Plasma Cutting, Grinding

92mm×42mm(3.63"×1.66")

2 advanced photosensitive sensors



Image: Diagram illustrating the viewing area dimensions of the auto-darkening filter: 92mm x 42mm.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ANDELI website or contact your local distributor. Keep your purchase receipt as proof of purchase.

Manufacturer: ANDELI

Contact: [ANDELI Official Store JP](#)

