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ANDELI AMZBYMOON1LEDS

ANDELI Auto-Darkening Welding Helmet with LED Light User Manual

Model: AMZBYMOON1LEDS

1. Introduction

Thank you for choosing the ANDELI Auto-Darkening Welding Helmet with LED Light. This helmet is designed to provide superior eye protection and enhanced visibility during welding, cutting, and grinding operations. It features a large viewing area, advanced optical clarity, and a long-lasting rechargeable battery, ensuring comfort and safety for extended periods of use.
Key features include:

- **Ultra-Large Viewing Area:** Central area of 100mm x 95mm, with additional non-auto-darkening side views of 48.8mm x 77.8mm on each side.
- **True Color Technology:** 1/1/1/1 optical clarity for accurate color perception.
- **Integrated LED Headlight:** Motion-sensor activated with two brightness levels for improved visibility in low-light conditions.
- **6 Arc Sensors:** Ensures rapid and reliable auto-darkening response (less than 1/30,000 seconds).
- **2100mAh Rechargeable Battery:** Provides extended operating time, significantly longer than button cell alternatives.
- **Comfortable 6-Point Headgear:** Lightweight PA material with multiple adjustment points for a secure and comfortable fit.



Figure 1: ANDELI Auto-Darkening Welding Helmet (Gray Knight LED)

2. Safety Information

WARNING: Read and understand all safety instructions before using this welding helmet. Failure to do so may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE) in addition to the welding helmet, including safety glasses, gloves, and protective clothing.

- This helmet is designed for arc welding, cutting, and grinding. Do not use it for laser welding or oxyacetylene welding/cutting unless specifically rated for those applications.
- Do not expose the helmet to extreme temperatures or moisture.
- Inspect the helmet and lenses regularly for any damage. Replace damaged parts immediately.
- Ensure the auto-darkening function is working correctly before each use by pressing the TEST button.
- Do not modify the helmet or its components.
- Keep children and unauthorized persons away from the welding area.
- UV/IR protection is always active, regardless of whether the auto-darkening function is engaged or the battery is low.

3. Package Contents

Verify that all items are present in your package:

- Welding Helmet x 1
- Portable Cloth Bag x 1
- Outer Protective Sheet x 1
- Inner Protective Sheet x 1
- USB Type-C Charging Cable (for LED light) x 1 (*Note: May not be included with all models, please check packaging.*)

4. Product Overview and Features

4.1. Digital Lens Controls

The helmet features an intuitive digital control panel for easy adjustments.



Figure 2: Digital Lens Controls

1. **Delay Control:** Adjusts the time it takes for the lens to return to its light state after welding.
2. **Battery Level Indicator:** Shows the remaining battery charge.
3. **Mode Selection:** Switch between Weld, Cut, and Grind modes.
4. **Sensitivity & On/Off:** Adjusts the sensitivity of the arc sensors and powers the unit on/off.
5. **Test Button:** Verifies the auto-darkening function.
6. **Low Battery Indicator:** Alerts when the battery is low.
7. **Function Display Lamp:** Indicates the current operating mode.
8. **Shade Level Display Lamp:** Shows the selected shade level.

4.2. Integrated LED Headlight

The helmet is equipped with a powerful LED headlight (up to 400 lumens) to illuminate your workspace, especially useful in dimly lit environments. It features a motion sensor for convenient hands-free operation.



Figure 3: LED Headlight with Motion Sensor



Figure 4: LED Headlight in Use

4.3. Comfortable and Adjustable Headgear

The 6-point adjustable headgear is designed for maximum comfort during long working hours. Made from lightweight PA material, it reduces strain on the neck and head.



Figure 5: 6-Point Adjustable Headgear

4.4. True Color Technology

Experience clear and accurate color perception with the helmet's True Color lens technology, enhancing visibility of the weld puddle and surrounding area.



Figure 6: True Color Lens View

5. Setup

5.1. Headgear Adjustment

1. **Fit Adjustment:** Place the helmet on your head. Use the top strap and rear knob to adjust the circumference for a snug, comfortable fit.
2. **Angle Adjustment:** Adjust the pivot points on the sides of the helmet to set the desired viewing angle when the helmet is lowered.
3. **Distance Adjustment:** Adjust the front-to-back distance between your face and the lens for optimal viewing and comfort.

5.2. Protective Sheet Installation

Ensure the inner and outer protective sheets are clean and free of scratches. Replace them if damaged or obscured.

Refer to the diagram below for component assembly.



Figure 7: Helmet Component Diagram

5.3. Charging the LED Light

The LED headlight is powered by a rechargeable 2100mAh battery. Connect the provided Type-C USB cable to the charging port on the helmet and to a 5V DC power source (e.g., USB wall adapter, computer USB port). The battery indicator will show charging status.

6. Operating Instructions

6.1. Power On/Off and Mode Selection

Press the power button (usually combined with sensitivity control) to turn the helmet on. Use the mode selection button to cycle through the available modes: Weld, Cut, and Grind.

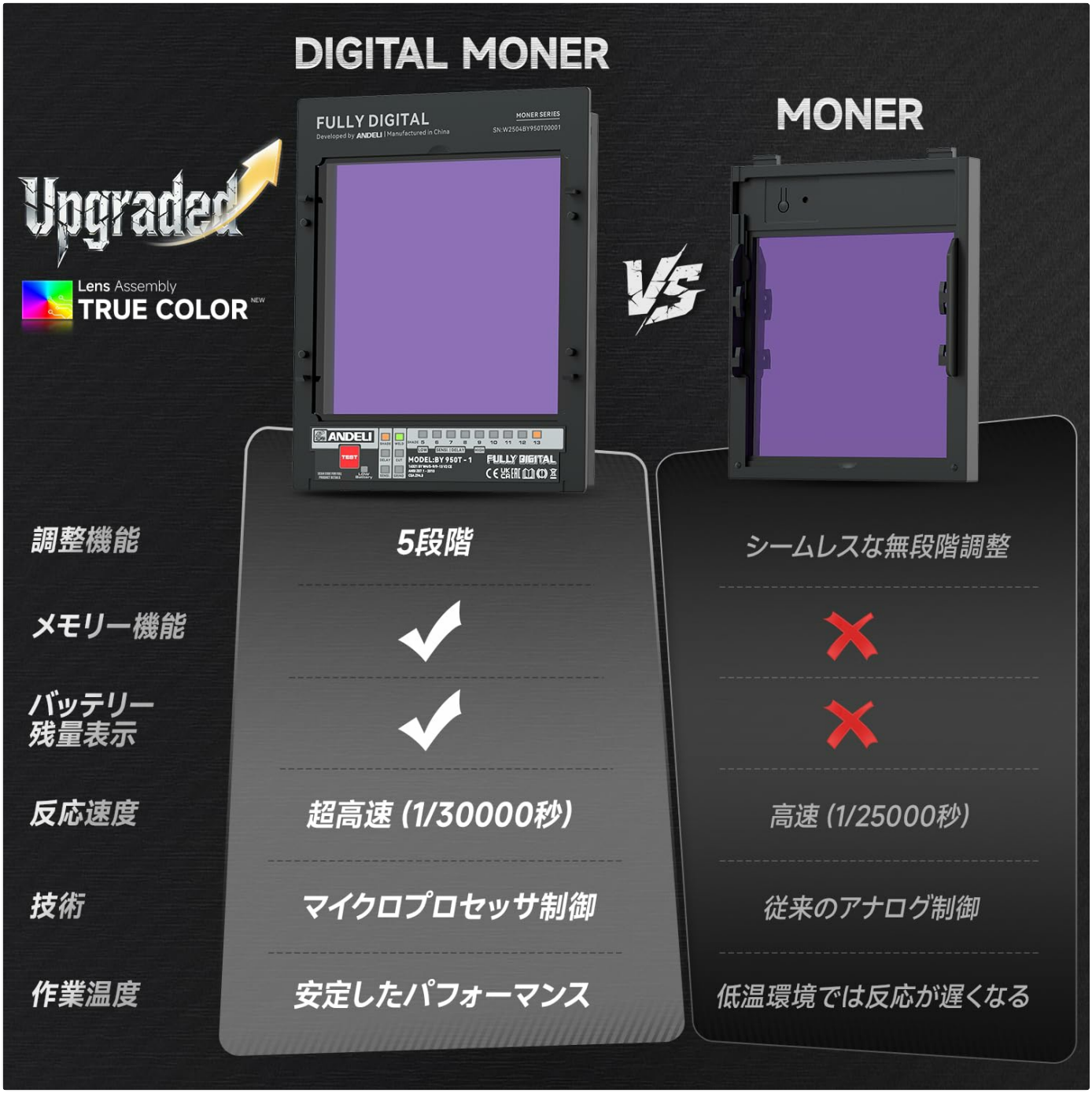


Figure 8: Operating Modes and Shade Levels

- **Grind Mode:** Shade level DIN 4. For grinding operations where no arc is present. The auto-darkening function is deactivated.
- **Cut Mode:** Shade level DIN 5-9. For plasma cutting or similar applications.
- **Weld Mode:** Shade level DIN 9-13. For various arc welding processes (MIG, TIG, MMA).

6.2. Shade Level Adjustment

In Weld or Cut mode, use the shade adjustment dial (typically on the side of the helmet) to select the appropriate shade level (DIN 9-13 for Weld, DIN 5-9 for Cut) based on your welding process and amperage. Refer to welding safety standards for recommended shade levels.

6.3. Sensitivity and Delay Control

- **Sensitivity:** Adjust the sensitivity dial to ensure the helmet darkens reliably when an arc is struck, but not from ambient light or other welders nearby.

- **Delay:** Adjust the delay dial to control how long the lens remains dark after the arc stops. A longer delay is useful for high amperage welding or tack welding to protect against afterglow.

6.4. LED Headlight Operation

To activate the LED headlight, ensure the helmet is powered on. Wave your hand slowly within 5cm of the motion sensor on the side of the helmet to turn the light on or off. Wave again to switch between the two brightness levels (if applicable) or to turn it off.

6.5. Battery Check (for Auto-Darkening Function)

Press and hold the TEST button on the digital lens control panel. The lens should momentarily darken to its darkest shade and then return to the light state. If it does not darken, or the low battery indicator is on, charge the helmet's main battery (if rechargeable) or replace the button cells (if applicable, refer to specifications for your model).

7. Maintenance

7.1. Cleaning

- **Helmet Shell:** Clean with a mild soap and water solution. Avoid harsh chemicals or solvents.
- **Lenses:** Gently wipe the inner and outer protective lenses with a soft, clean cloth. Do not use abrasive materials or cleaners that could scratch the surface.
- **Auto-Darkening Filter:** The ADF unit itself should not be cleaned with liquids. If it becomes dirty, gently wipe with a dry, soft cloth.

7.2. Replacing Protective Sheets

The outer and inner protective sheets are consumable parts and should be replaced when they become scratched, pitted, or otherwise obscure your vision. Follow the instructions in the helmet's design to carefully remove and replace these sheets.

7.3. Battery Charging

Regularly charge the 2100mAh battery for the LED headlight using the Type-C USB port. For the auto-darkening function, if your model uses a separate button cell battery (e.g., CR2032), replace it when the low battery indicator appears. Ensure correct polarity when replacing batteries.

8. Troubleshooting

Problem	Possible Cause	Solution
Helmet does not darken when arc is struck.	Low battery; Sensitivity too low; Sensors blocked; Helmet in Grind mode.	Charge/replace battery; Increase sensitivity; Clean/unblock sensors; Switch to Weld/Cut mode.
LED Headlight not working.	Low battery; Motion sensor not detecting hand; Light switch off.	Charge LED battery; Wave hand closer to sensor; Press light switch.
Vision is blurry or unclear.	Protective lenses scratched/dirty; Incorrect headgear adjustment.	Clean or replace protective lenses; Adjust headgear for optimal viewing distance.

Problem	Possible Cause	Solution
Helmet darkens intermittently or too slowly.	Low battery; Sensitivity too low; Sensors partially blocked.	Charge/replace battery; Increase sensitivity; Clean sensors.

9. Specifications

Optical Class	1/1/1/1
LCD Viewing Area	100mm x 95mm (Central)
UV/IR Protection	DIN16 (Permanent)
Arc Sensors	6
Operating Modes & Shade	Weld: DIN 9-13 Cut: DIN 5-9 Grind: DIN 4 Light State: DIN 4
TIG Rating	AC/DC 5A and above
Sensitivity Control	5 levels
Delay Control (Dark to Light)	5 levels
Power (LED Light)	Rechargeable Battery (2100mAh)
Charging (LED Light)	Type-C (DC 5V)
Switching Speed (Light to Dark)	1/30,000 seconds
Operating Temperature	-5°C to +55°C
Storage Temperature	-20°C to +70°C
Manufacturer Model Number	AMZBYMOON1LEDS

10. Warranty and Support

ANDELI products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official ANDELI website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact ANDELI customer service through the retailer where you purchased the product or via the official ANDELI support channels.

Online Support: Visit the ANDELI Brand Store on Amazon

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