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YESWELDER LYG-L600A-W

YESWELDER Auto Darkening Welding Helmet LYG-L600A-W Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective use of your YESWELDER Auto Darkening Welding Helmet, model LYG-L600A-W. This helmet is designed to offer advanced eye protection and clear visibility during various welding and grinding operations. Please read this manual thoroughly before initial use and retain it for future reference.



Figure 1: YESWELDER Auto Darkening Welding Helmet LYG-L600A-W

2. Safety Information

WARNING: Welding and grinding operations produce intense light, heat, and sparks that can cause severe eye and skin damage. Always wear appropriate personal protective equipment (PPE).

- This welding helmet meets ANSI Z87.1 and CSA Z94.3 standards for safety.
- The helmet is equipped with Blue Light Blocking technology to filter harmful blue light rays, enhancing eye comfort and safety during extended use.
- The auto-darkening filter (ADF) provides continuous UV/IR protection, regardless of whether the filter is light or dark.
- Do not use the helmet if the lens is cracked, scratched, or damaged. Replace damaged parts immediately.

- Ensure the helmet is properly adjusted to your head for a secure and comfortable fit before beginning any work.
- Always inspect the helmet and lens for any damage before each use.

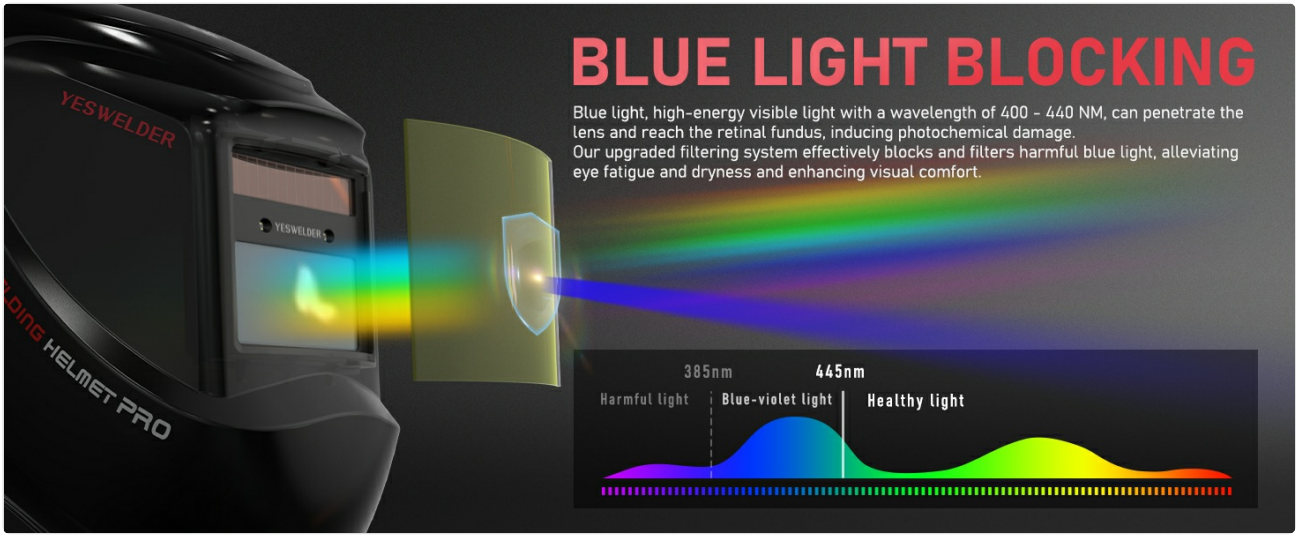


Figure 2: Illustration of Blue Light Blocking Technology

3. Product Components and Parts Identification

Your YESWELDER LYG-L600A-W welding helmet package includes the following items:

- Welding Helmet (1)
- Inner Replacement Lens (1)
- Outer Replacement Lens (2)
- CR2450 Lithium Battery (1, pre-installed or included as spare)

Key features of the helmet include:

- **Auto-Darkening Filter (ADF):** Automatically darkens upon arc ignition.
- **Solar Panel:** Powers the ADF and extends battery life.
- **External Controls:** For shade, sensitivity, and delay adjustments.
- **Comfortable Headgear:** Adjustable for a secure and balanced fit.



Figure 3: Upgraded Lens and Control Layout

4. Setup and Assembly

4.1 Headgear Adjustment

The helmet features a pivot-style headgear designed for comfort and a secure fit. Adjust the headgear to ensure the helmet sits comfortably and stably on your head, allowing for proper viewing through the lens.

1. Place the helmet on your head.
2. Use the rear adjustment knob to tighten or loosen the headband until it fits snugly without being too tight.
3. Adjust the top strap to position the helmet correctly over your eyes.
4. Ensure the helmet can be smoothly flipped up and down, and that it stays in the desired position when raised.



Figure 4: Headgear Adjustment Points

4.2 Battery Installation/Check

The helmet is powered by a solar panel and a replaceable CR2450 lithium battery. The battery is typically pre-installed. Before first use, ensure the battery is correctly seated and functional.

1. Locate the battery compartment on the auto-darkening filter.
2. If installing a new battery, ensure the positive (+) side faces upwards.
3. Press the 'TEST' button on the ADF to verify the darkening function. If the lens darkens, the battery is working.

4.3 Lens Protection Film Removal

The auto-darkening filter and outer protective lenses may have a clear protective film. Remove these films from both sides of the lenses before use to ensure optimal clarity.

5. Operating Instructions

The LYG-L600A-W helmet offers various adjustments for different welding and grinding applications.

5.1 Powering On/Off

The helmet is solar-powered and automatically activates when exposed to light. There is no manual on/off switch. The replaceable CR2450 battery provides backup power and ensures operation in low light conditions.



Figure 5: Solar Powered and Battery Backup System

5.2 Mode Selection (Weld/Grind)

The helmet supports both welding and grinding modes. Use the external knob to select the appropriate mode.

- **Weld Mode (Shade 9-13):** For TIG, MIG, MMA (Stick), and ARC welding. The lens will automatically darken to the selected shade when an arc is detected.
- **Grind Mode (Shade 3.5):** For grinding operations. In this mode, the auto-darkening function is deactivated, and the lens remains in a light shade (DIN 3.5) to provide clear vision while protecting against sparks and debris.



Figure 6: Helmet Applications

5.3 Shade Adjustment (DIN 3.5/9-13)

The shade level can be adjusted externally using the knob on the side of the helmet. Select a shade appropriate for your welding process and amperage.

5.4 Sensitivity Control

The sensitivity knob adjusts how readily the sensor reacts to welding light. Increase sensitivity for low-amperage TIG welding or when the arc is partially obscured. Decrease sensitivity to prevent accidental darkening from ambient light or other welders.

5.5 Delay Control

The delay control adjusts the time it takes for the lens to return from the dark state to the light state after the welding arc ceases. A longer delay is recommended for high-amperage welding to protect against afterglow.



Figure 7: External Controls for Delay, Shade, and Sensitivity

5.6 Test Button

Press the 'TEST' button on the ADF to confirm the auto-darkening function is working correctly before starting any welding task. The lens should momentarily darken and then return to its clear state.

6. Maintenance

6.1 Cleaning

- Clean the helmet shell with a mild soap and water solution. Avoid harsh solvents.
- Clean the inner and outer protective lenses with a soft, clean cloth and a non-abrasive lens cleaner.
- Keep the solar panel clean to ensure efficient charging.

6.2 Lens Replacement

Replace scratched, pitted, or damaged inner and outer protective lenses immediately to maintain clear vision and protection.

6.3 Battery Replacement

When the 'LOW BATTERY' indicator illuminates, replace the CR2450 lithium battery.

1. Use a flat-head screwdriver to open the battery compartment cover.
2. Remove the old battery.
3. Insert a new CR2450 battery with the positive (+) pole facing upwards.
4. Close the battery compartment cover securely.



Figure 8: Steps for Battery Replacement

7. Troubleshooting

Problem	Possible Cause	Solution
Lens does not darken when arc is struck.	Low battery; Grind mode active; Sensors blocked; Sensitivity too low.	Check/replace battery; Switch to Weld mode; Clean sensors; Increase sensitivity.
Lens darkens intermittently or too slowly.	Low battery; Sensors partially blocked; Sensitivity too low; Ambient light interference.	Check/replace battery; Clean sensors; Increase sensitivity; Adjust helmet position.
Poor visibility through the lens.	Scratched/dirty lenses; Protective film not removed.	Clean or replace lenses; Remove protective films.
Helmet feels uncomfortable or unstable.	Headgear not properly adjusted.	Re-adjust headgear for a secure and balanced fit.

8. Specifications

Viewing Area: 3.64" x 1.67"

Optical Clarity: 1/1/1/1 (True Color)

Shade Range: DIN 3.5 (Grind Mode), DIN 9-13 (Weld Mode)

Switching Time: 1/30,000 seconds

Arc Sensors: 2

Power Supply: Solar Cell + Replaceable CR2450 Lithium Battery

Operating Temperature: -5°C to +55°C (23°F to 131°F)

Delay Control: Adjustable (0.1s - 1.0s)

Sensitivity Adjustment: Stepless Control

Material: PP (Polypropylene)

Weight: Approximately 1.9 pounds

Standards Compliance: ANSI Z87.1, CSA Z94.3, CE DIN EN 379



Figure 9: Key Product Specifications

9. Warranty and Support

This YESWELDER welding helmet comes with a**1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. For warranty claims or technical support, please contact YESWELDER customer service through the retailer where the product was purchased or visit the official YESWELDER website for contact information.
Please retain your proof of purchase for warranty validation.

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