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## YESWELDER LYG-L600A

# YESWELDER LYG-L600A Auto-Darkening Welding Helmet

Instruction Manual

## 1. Introduction

This manual provides essential information for the safe and effective use of your YESWELDER LYG-L600A Auto-Darkening Welding Helmet. Please read these instructions carefully before operation and retain them for future reference. This helmet is designed to protect your eyes and face from sparks, spatter, and harmful radiation under normal welding conditions.




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

## 2. Safety Information

Always observe the following safety precautions to prevent personal injury and equipment damage:

- This auto-darkening welding helmet is not suitable for laser welding or oxyacetylene welding/cutting applications.
- Never place the helmet or auto-darkening filter on a hot surface.
- Never open or tamper with the auto-darkening filter cartridge.
- This helmet will not protect against severe impact hazards, explosive devices, or corrosive liquids.
- Immediately discontinue use if the auto-darkening filter does not darken upon striking an arc.

- Protect the filter from liquid and dirt. Clean the filter cartridge regularly.
- The helmet is compliant with ANSI Z87.1, EN 379, CSA Z94.3, and EN ISO 16321 standards.

The helmet provides continuous UV/IR protection up to Shade 16, regardless of whether the power is on or off.

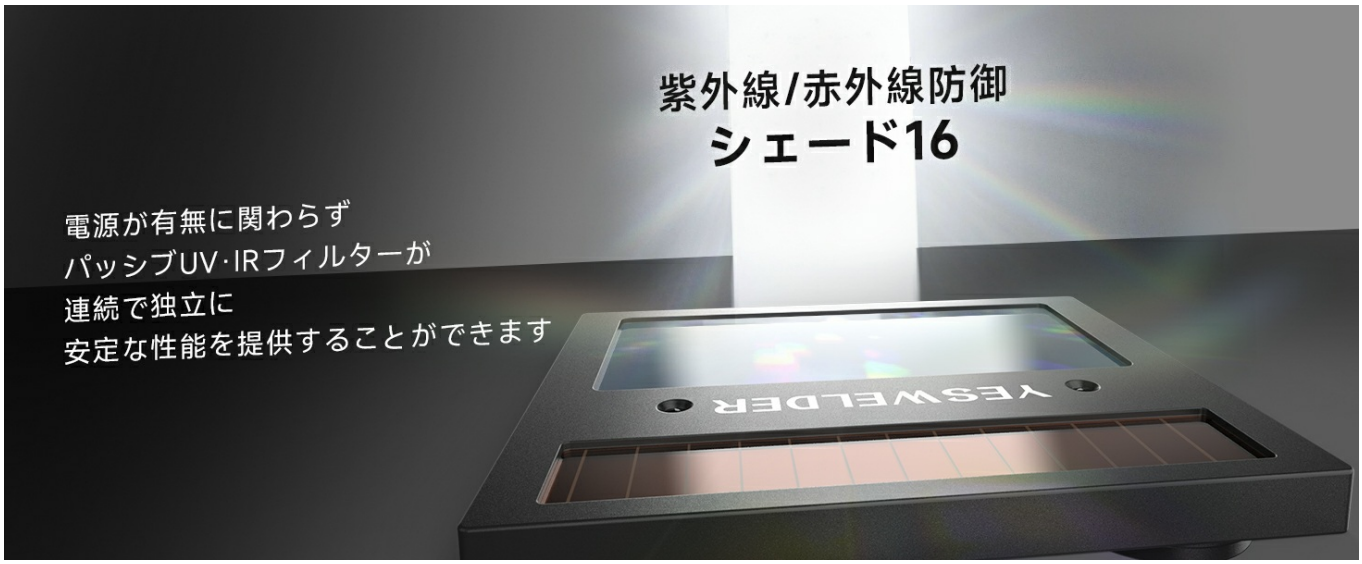



Figure 2: UV/IR Protection up to Shade 16.

## 3. Product Overview

The YESWELDER LYG-L600A welding helmet features an advanced auto-darkening lens and ergonomic design for enhanced user experience.

### Key Features:

- **Viewing Area:** 92 x 42 mm.
- **Arc Sensors:** Equipped with 2 high-sensitivity arc sensors.
- **Response Time:** High-speed darkening with a response time of 1/30000 second.
- **Optical Class:** V2 (1/1/1/2) for high-definition and natural color reproduction.
- **Power Source:** Solar powered with a replaceable CR2450 lithium battery.
- **Material:** Constructed from high-quality PP material for durability.
- **Headgear:** Pivot-style headgear with anti-slip design for an excellent fit.
- **Lightweight:** Total weight approximately 500g.
- **Magnifying Lens Compatibility:** Designed to be compatible with magnifying lenses.




Figure 3: Key benefits including true color view, fast darkening, durable material, arc light blocking, and replaceable battery.




Figure 4: Lens dimensions, shade adjustment, solar power, arc sensors, and UV/IR filter.




Figure 5: Comparison of standard vs. advanced helmet coating for protection and aesthetics.

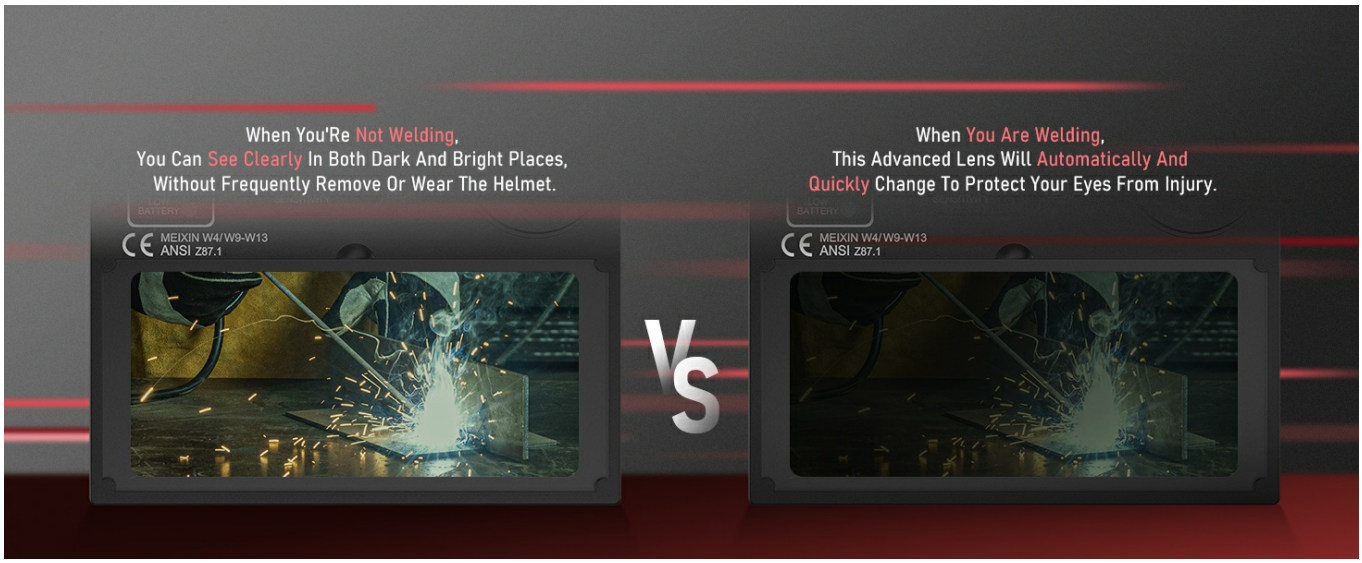



Figure 6: The lens provides clear visibility when not welding and automatically darkens upon arc strike.




Figure 7: The helmet is compatible with magnifying lenses for improved visibility.

## 4. Setup

### 4.1 Headgear Adjustment

Adjust the headgear for a comfortable and secure fit. The headgear features multiple adjustment points:

- **Elasticity:** Adjust the tension of the head strap.
- **Head Stop:** Position the top strap for optimal balance.
- **Angle Adjustment:** Adjust the forward tilt angle of the helmet.
- **Distance Adjustment:** Adjust the distance between your face and the lens.




Figure 8: Headgear adjustment points for a customized fit.

### 4.2 Battery Installation and Test

The helmet uses a replaceable CR2450 lithium battery in conjunction with solar power. Ensure the battery is correctly installed.

- **Low Battery Indicator:** A low battery indicator will illuminate if approximately 2-3 days of battery life remain.
- **Battery Replacement:** To replace the battery, remove the cover on the auto-darkening filter unit and insert a new CR2450 battery.
- **Test Button:** Press the 'TEST' button on the filter unit to confirm the lens is functioning correctly before each use.




Figure 9: Location of the test button, low battery indicator, and battery compartment.




Figure 10: The CR2450 replaceable lithium battery.

## 5. Operating Instructions

The LYG-L600A helmet automatically darkens when an arc is struck and returns to a light state when welding stops.

### 5.1 Mode Selection

The helmet supports various modes for different applications:

- **Grind Mode:** For grinding operations.
- **Stick Mode (MMA):** For shielded metal arc welding.
- **MIG Mode:** For gas metal arc welding.
- **TIG Mode:** For gas tungsten arc welding.




Figure 11: The helmet is compatible with STICK, MIG, TIG welding, and CUT/Grinding operations.




Figure 12: Visual representation of Grind, Stick, MIG, and TIG modes.

## 5.2 Adjustments

Use the external knobs on the filter unit to adjust settings:

- **Shade Adjustment:** Adjust the shade level from DIN 9 to DIN 13. The light state is DIN 4.
- **Sensitivity Adjustment:** Adjust the sensitivity to detect the arc. Higher sensitivity is suitable for low amperage welding.
- **Delay Adjustment:** Adjust the time it takes for the lens to return to its light state after welding stops, from 0.1 to 0.8 seconds.




Figure 13: Controls for delay, shade, and stepless sensor adjustment.

Your browser does not support the video tag.

Video 1: Overview of the YESWELDER LYG-L600A welding helmet features, including auto-darkening, sensitivity, and headgear adjustments.

## 6. Maintenance

### 6.1 Cleaning

- Clean the helmet and auto-darkening filter regularly with a soft, damp cloth.
- Do not use harsh solvents or abrasive cleaners.
- Ensure the protective lenses are free from scratches and dirt for optimal visibility.

### 6.2 Battery Replacement

Replace the CR2450 battery when the low battery indicator illuminates or if the auto-darkening function becomes unreliable. Refer to section 4.2 for instructions.

### 6.3 Storage

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

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Lens does not darken when arc is struck. | Low battery; sensors obstructed; sensitivity too low; incorrect mode. | Check/replace battery; clean sensors; increase sensitivity; ensure welding mode is selected. |
| Poor visibility through the lens. | Protective lens scratched or dirty; incorrect shade setting. | Clean or replace protective lenses; adjust shade level. |
| Lens flickers during welding. | Sensitivity too low; ambient light interference. | Increase sensitivity; ensure no strong light sources interfere with sensors. |
| Helmet feels uncomfortable. | Headgear not properly adjusted. | Adjust headgear straps, angle, and distance for a better fit. |

## 8. Specifications




Figure 14: Visual representation of key specifications and certifications.

| Feature | Specification |
|---|---|
| Model | LYG-L600A |
| Viewing Area | 92 x 42 mm |
| Optical Clarity | 1/1/1/2 |
| Light State Shade | DIN 4 |
| Dark State Shade | DIN 9-13 (Adjustable) |
| Response Time | 1/30000 s |
| Delay Time | 0.1 - 0.8 s (Adjustable) |

| Feature | Specification |
|---|---|
| Arc Sensors | 2 |
| Power Supply | Solar Cell & Replaceable CR2450 Lithium Battery |
| Material | High-Quality PP |
| Total Weight | Approx. 500 g |
| Certifications | ANSI Z87.1, EN 379, CSA Z94.3, EN ISO 16321 |

## 9. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official YESWELDER website. Keep your purchase receipt as proof of purchase.


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