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YESWELDER LYG-Q800D

YESWELDER LYG-Q800D Auto Darkening Welding Helmet Instruction Manual

Model: LYG-Q800D

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your YESWELDER LYG-Q800D Auto Darkening Welding Helmet. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: YESWELDER LYG-Q800D Auto Darkening Welding Helmet.

Key Features:

- **Panoramic Large View:** Equipped with a 3.94" x 3.23" main viewing area and side views (DIN5, non-auto-darkening) for a 180° panoramic field of vision. Features 1/1/1/1 optical clarity lenses and True Color technology.
- **Multi-Process Capability:** Versatile shade range (4/5-9/9-13) suitable for TIG, MIG, MMA, CUT, and GRIND applications.
- **Fast Auto-Darkening:** Utilizes 4 Arc Sensors for reliable arc detection, ultra-fast switching (1/30000 sec), and adjustable Sensitivity and Delay controls.
- **Comfort & Durability:** Features pivot-style headgear for comfort and a secure fit. Constructed from reinforced PP materials for durability.
- **Long Service Life:** Powered by solar panel technology and a replaceable CR2450 lithium battery.
- **Advanced Eye Protection:** Includes Blue Light Blocking outer lens technology to filter harmful high-energy blue light rays.

2. Components Included

The following components are typically included with your YESWELDER LYG-Q800D Welding Helmet:

- 1 x YESWELDER Auto Darkening Welding Helmet (LYG-Q800D)
- 1 x Replaced CR2450 Lithium Battery (pre-installed or spare)
- 1 x Storage Bag
- 3 x Replacement Outer Lenses
- Instruction Manual

3. Setup and Adjustments

Headgear Adjustment:

Proper adjustment of the headgear is crucial for comfort and stability during use. The LYG-Q800D features multiple adjustment points:

- **Size Adjustment:** Use the knob at the back of the headgear to adjust the circumference for a snug fit.
- **Tightness Adjustment:** Ensure the headgear is secure without being overly tight.
- **Angle Adjustment:** Adjust the forward tilt of the helmet to your preferred working angle.
- **Distance Adjustment:** Adjust the distance between your face and the lens for optimal viewing and comfort.



Figure 2: Headgear adjustment points for personalized fit.

Initial Power-Up:

The helmet is powered by a solar panel and a replaceable CR2450 lithium battery. Ensure the battery is correctly installed and charged (exposure to bright light may be needed for initial charge if stored for long periods).

4. Operating Instructions

Control Panel Overview:

The helmet features external and internal controls for various settings:

- **Shade Control:** Adjusts the darkness level (DIN 4/5-9/9-13).
- **Sensitivity Control:** Adjusts the sensor's responsiveness to arc light.
- **Delay Control:** Sets the time for the lens to return to its clear state after welding.
- **Mode Selector:** Switch between Weld, Cut, and Grind modes.



Figure 3: External controls for Delay, Shade, and Sensitivity.

Selecting Operating Mode:

Use the mode selector switch to choose the appropriate setting for your task:

- **Grind Mode:** Set to DIN 3. The auto-darkening function is deactivated, providing clear vision for grinding tasks.
- **Cut Mode:** Shade range DIN 5-9. Suitable for plasma cutting and similar operations.
- **Weld Mode:** Shade range DIN 9-13. Ideal for TIG, MIG, and MMA welding.



Figure 4: Visual representation of Grind, Cut, and Weld modes.

Visibility and Eye Protection:

The helmet is designed for optimal visibility and protection:

- **180° Panoramic View:** The main lens (3.94" x 3.23") combined with DIN5 side lenses offers an expansive field of view.
- **True Color Lens Technology:** Enhances clarity and reduces the lime green tint common in traditional welding helmets.
- **UV/IR Protection:** A passive UV/IR filter provides continuous protection, independent of power.
- **Blue Light Blocking:** Filters harmful high-energy blue light rays (400-440 nm) to reduce eye fatigue.



Figure 5: Illustration of the super large panoramic view.

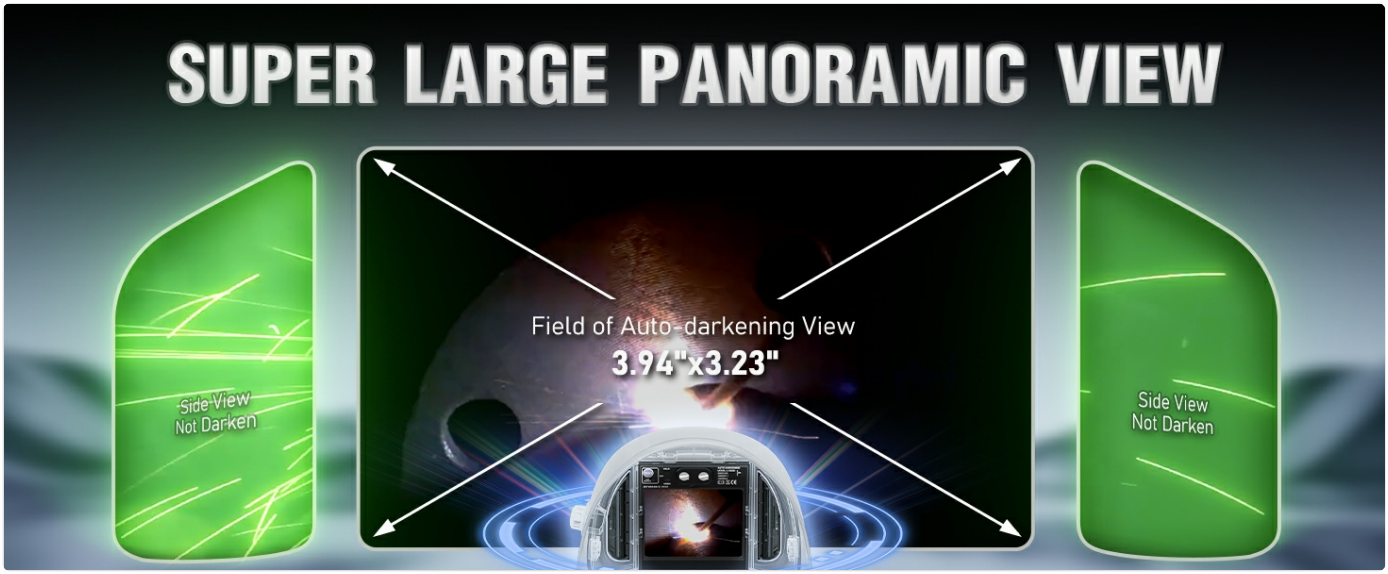


Figure 6: Comparison of True Color Lens Technology with standard lenses.

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Video 1: Overview of the YESWELDER Auto Darkening Welding Helmet, demonstrating its side view and auto-darkening features.

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Video 2: Demonstration of the panoramic view during welding, showing enhanced peripheral vision.

5. Maintenance

Cleaning the Helmet:

Clean the helmet regularly with a soft cloth. Avoid abrasive cleaners or solvents that could damage the lens or helmet material.

Replacing Lenses:

The helmet comes with replacement outer lenses. Replace them if they become scratched or damaged to maintain clear vision and protection.

Battery Replacement:

The helmet uses a replaceable CR2450 lithium battery. If the auto-darkening function becomes inconsistent or fails, replace the battery.



Figure 7: Dual power sources: solar panel and replaceable CR2450 battery.

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Video 3: Detailed instructions on how to replace the CR2450 battery in your YESWELDER helmet.

6. Troubleshooting

If you encounter issues with your welding helmet, consider the following:

- **Lens Not Darkening:** Check battery level and replace if necessary. Ensure sensors are clean and unobstructed. Verify correct mode selection (Weld/Cut, not Grind).
- **Inconsistent Darkening:** Adjust sensitivity settings. Ensure sufficient ambient light for solar charging.
- **Poor Visibility:** Replace scratched or dirty outer/inner lenses. Clean the main auto-darkening filter.
- **Helmet Uncomfortable:** Re-adjust headgear settings (size, angle, distance) for a better fit.

For further assistance, refer to the contact information in the Support section.

7. Specifications

Feature	Specification
Manufacturer	YESWELDER
Model Number	LYG-Q800D-CP
Item Weight	2.2 pounds
Product Dimensions	10.14 x 7.8 x 12.87 inches
Viewing Size	3.94" x 3.23" (Main)
Optical Clarity	1/1/1/1
Shade Range	DIN 4/5-9/9-13
Switching Time	1/30000s
Arc Sensors	4
Power Supply	Solar Panel & Replaceable CR2450 Lithium Battery
Material	PP (Polypropylene)
Operating Temperature	14°F ~ 131°F (-10°C ~ +55°C)
Standards	ANSI Z87.1, EN379 CE, CSA Z94.3

8. Warranty and Support

Warranty Information:

The YESWELDER LYG-Q800D Auto Darkening Welding Helmet typically includes a 1-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, warranty inquiries, or replacement parts, please contact YESWELDER customer support. Refer to the product packaging or the official YESWELDER website for the most current contact information.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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