YESWELDER LYG-Q910D

YESWELDER LYG-Q910D Auto Darkening Welding Helmet User Manual

Model: LYG-Q910D

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your YESWELDER LYG-Q910D Auto Darkening Welding Helmet. Please read this manual thoroughly before use and retain it for future reference.

Image 1.1: The YESWELDER LYG-Q910D Auto Darkening Welding Helmet, showcasing its design and included protective lenses.

2. Safety Information

WARNING: Welding and cutting processes can cause serious injury or death. Always follow safety precautions and wear appropriate personal protective equipment (PPE).

- Always wear safety glasses under the welding helmet.
- Ensure the helmet is properly adjusted and functioning before each use.
- Do not use the helmet if the auto-darkening filter is damaged or not darkening correctly.
- Protect the helmet from extreme temperatures, moisture, and direct sunlight when not in use.
- Replace scratched or damaged protective lenses immediately.
- Ensure adequate ventilation in the work area to avoid inhaling fumes.
- Keep children and unauthorized persons away from the welding area.

3. Product Features

The YESWELDER LYG-Q910D welding helmet incorporates advanced features for enhanced safety and performance.

Image 3.1: Overview of the helmet's key advantages including True Color, Anti-Blue Ray, Fast Darkening, Replaceable Battery, PP-Strong Material, and LED Light.

3.1. Auto-Darkening Filter

Equipped with 4 arc sensors, the auto-darkening filter provides a rapid switching time of 1/30,000 seconds, ensuring immediate eye protection upon arc ignition. The digital control panel allows for precise adjustment of sensitivity and delay.

3.2. Panoramic View & True Color Technology

The helmet features a 3.94" x 3.27" main viewing area complemented by side views (DIN5, non-auto-darkening) for a 180° panoramic field of vision. True Color technology provides a clear and natural view of the workpiece, enhancing visibility and reducing eye strain. The optical clarity rating is 1/1/1/1.

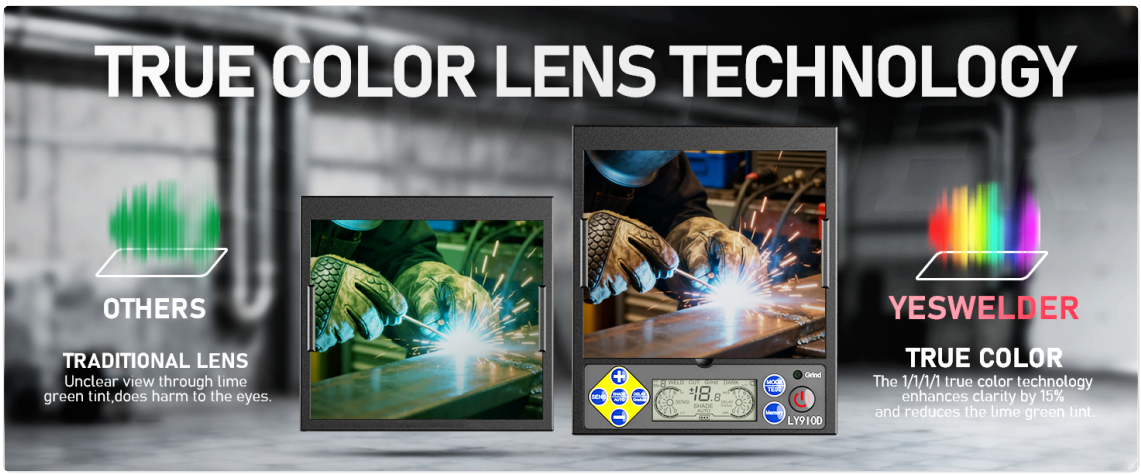


Image 3.2: Comparison illustrating the clarity of True Color lens technology versus traditional lenses.

3.3. Blue Light Blocking & UV/IR Protection

The helmet incorporates blue light blocking technology to filter harmful high-energy blue light rays, reducing eye fatigue during extended welding sessions. Continuous UV/IR protection is provided by the filter, regardless of whether the auto-darkening function is active or not.

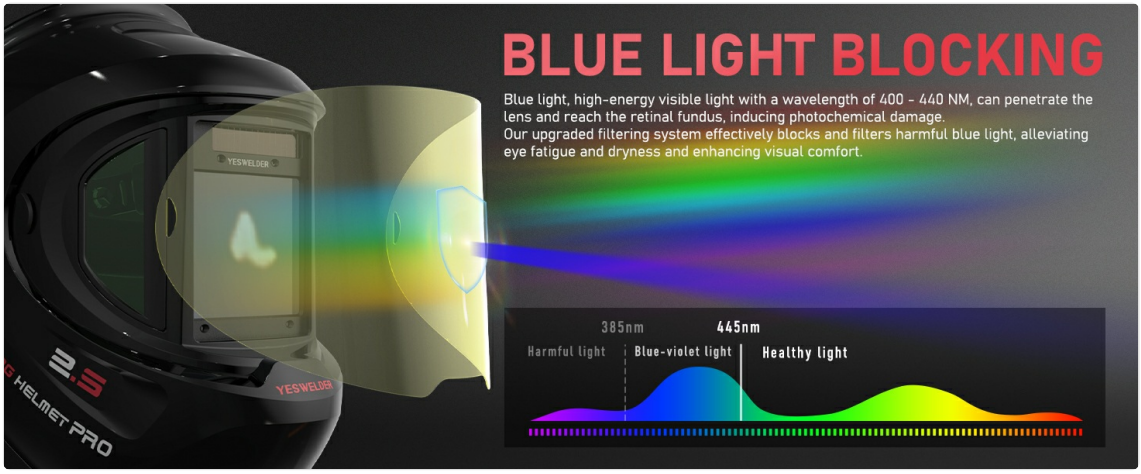


Image 3.3: Diagram explaining how the helmet's blue light blocking technology filters harmful light wavelengths.

3.4. Rechargeable LED Light

An integrated, USB-rechargeable LED light provides illumination for the work area, offering both a larger lighting area and concentrated lighting modes. This feature is particularly useful in low-light environments.

Image 3.4: The rechargeable LED light feature, showing its charging port and two distinct lighting modes.

3.5. Dual Power Sources

The helmet is powered by a combination of solar panel technology and a replaceable CR2450 lithium battery, ensuring long service life and energy efficiency. It includes automatic sleep and shutdown functions to conserve power.

3.6. Durability

Constructed from PP-strong material, the helmet is designed for fall resistance, impact resistance, corrosion resistance, and flame resistance, providing robust protection in demanding work environments.

4. Setup and Adjustment

4.1. Headgear Adjustment

Proper adjustment of the headgear is crucial for comfort and stability. Use the various adjustment points to achieve a secure and balanced fit.

- **Size Adjustment:** Use the knob at the back of the headgear to adjust the headband's circumference to fit your head.
- **Distance Adjustment:** Adjust the distance between the helmet and your face for optimal

observation and comfort.

- **Angle Adjustment:** The helmet's angle knob allows adjustment to any desired viewing angle.
- **Tightness Adjustment:** The headband's fixing knob eases adjustment and prevents the helmet from falling off during use.

Image 4.1: Detailed view of the headgear adjustment points for size, distance, angle, and tightness.

4.2. Battery Installation/Check

The helmet comes with a CR2450 lithium battery installed. Ensure it is properly seated. The digital control panel includes a battery indicator to show the current charge level.

4.3. Protective Lens Installation

The helmet includes replacement protective lenses. To install or replace, carefully remove the old lens and insert the new one, ensuring it is securely fitted to prevent dust and debris from entering.

5. Operating Instructions

Familiarize yourself with the digital control panel for optimal performance.

Image 5.1: Diagram of the digital control panel, indicating arc sensors, UV/IR filter, and control buttons.

5.1. Power On/Off

Press the power button on the digital control panel to turn the helmet on or off. The helmet also features automatic sleep and shutdown functions.

5.2. Mode Selection

The helmet supports multiple operating modes: Weld, Cut, and Grind. Use the 'MODE/TEST' button to cycle through these modes.

- **Grind Mode (DIN 3):** For grinding operations. The filter remains in a light state.
- **Cut Mode (DIN 5-9):** For cutting applications.
- **Weld Mode (DIN 9-15):** For various welding processes (TIG, MIG, MMA/STICK).

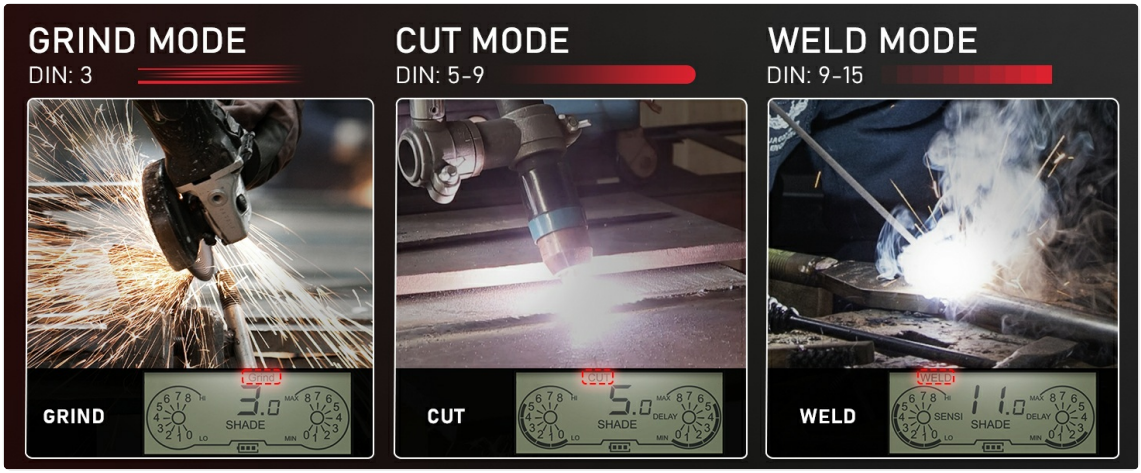


Image 5.2: Visual representation of the shade settings for Grind, Cut, and Weld modes.

5.3. Digital Control Panel Adjustments

The digital control panel allows for fine-tuning of the helmet's performance.

- **Sensitivity Control:** Adjusts the filter's sensitivity to arc light. Use the 'SENS' buttons (+/-) to set the desired level.
- **Delay Control:** Adjusts the time it takes for the lens to return from dark to light state after welding. Use the 'DELAY' buttons (+/-) to set between 0.1 and 1.0 seconds.
- **Shade Control & Auto Button:** In Weld/Cut mode, use the 'SHADE' buttons (+/-) to manually select the shade level. Long press the 'SHADE AUTO' button for 2 seconds to enter Auto mode, where the helmet automatically adjusts shade according to the arc.
- **Memory Function:** Short press the 'MEMORY' button to select stored setup parameters. Long press for 2 seconds to save current settings to one of 9 memory slots.

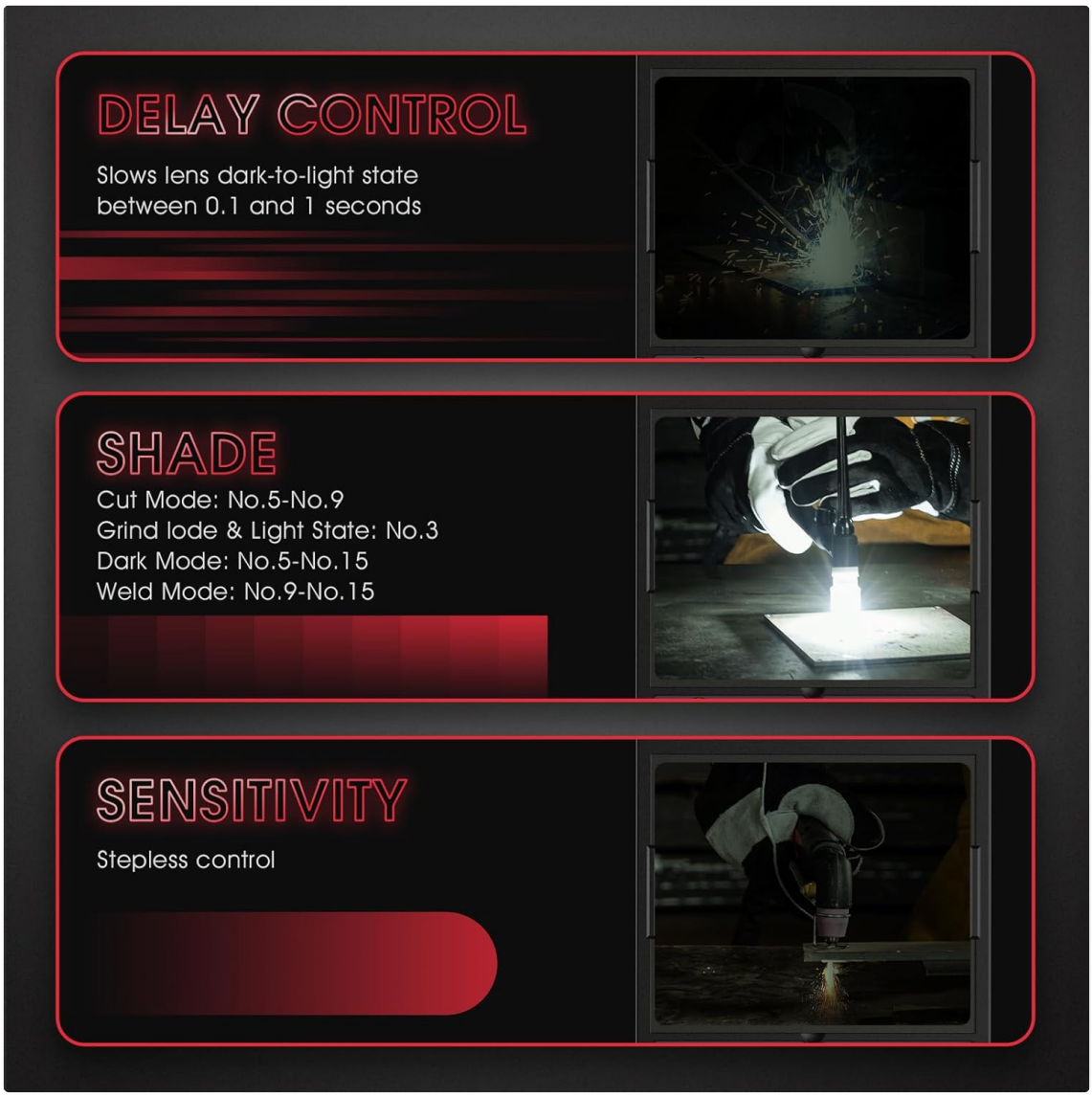


Image 5.3: Explanations for Delay Control, Shade Control, and Sensitivity settings.

5.4. LED Light Operation

Press the button on the LED light module to cycle through its lighting modes (larger lighting area, concentrated lighting) or to turn it off.

6. Maintenance

6.1. Cleaning the Helmet

- Clean the helmet shell with mild soap and water. Avoid harsh solvents.
- Wipe the auto-darkening filter and protective lenses with a soft, clean cloth. Do not use abrasive materials or cleaners that could scratch the surface.

6.2. Replacing Protective Lenses

Regularly inspect the inner and outer protective lenses for scratches, cracks, or excessive spatter. Replace them as needed to maintain clear vision and protect the auto-darkening filter.

6.3. Battery Replacement

When the battery indicator shows low power, replace the CR2450 lithium battery. Refer to the diagram on the digital control panel for battery compartment location.

6.4. Storage

Store the helmet in a dry, clean environment, away from direct sunlight and extreme temperatures. Use the provided storage bag or a protective case if available.

7. Troubleshooting

Problem	Possible Cause	Solution
Filter does not darken	Low battery; Arc sensors obstructed; Incorrect mode selected; Filter damaged.	Check/replace battery; Clean arc sensors; Select Weld/Cut mode; Contact support if damaged.
Poor visibility	Scratched/dirty protective lenses; Incorrect shade setting.	Clean or replace lenses; Adjust shade setting.
Helmet slips or is uncomfortable	Headgear not properly adjusted.	Adjust headgear for size, distance, angle, and tightness.
LED light not working	Low battery; Not charged.	Recharge the LED light using the USB cable.

8. Specifications

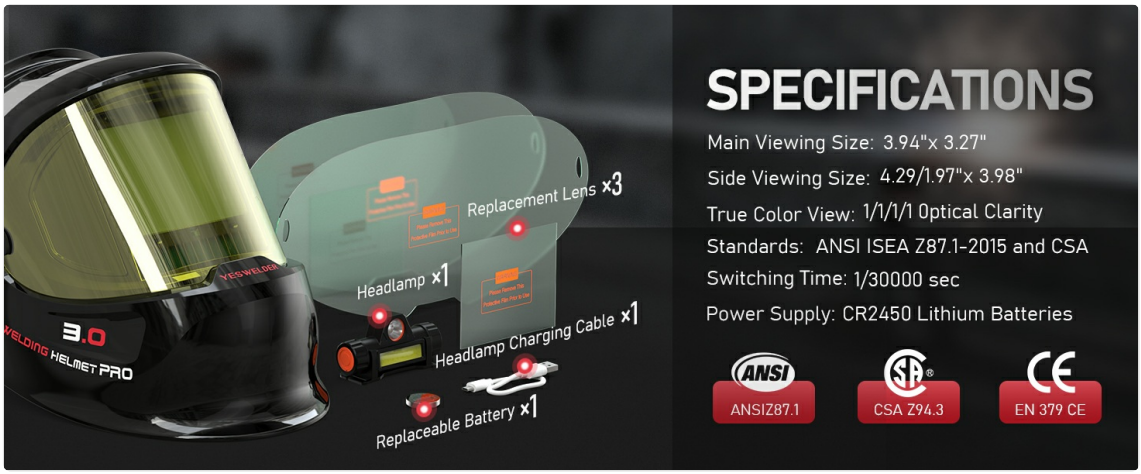


Image 8.1: Visual summary of the helmet's key specifications and included accessories.

- **Model:** LYG-Q910D
- **Main Viewing Size:** 3.94" x 3.27" (100mm x 83mm)
- **Side Viewing Size:** 4.29" x 1.97" x 3.98" (DIN5, non-auto-darkening)
- **Optical Clarity:** 1/1/1/1
- **Shade Range:** DIN 3 (Grind), DIN 5-9 (Cut), DIN 9-15 (Weld)
- **Switching Time:** 1/30,000 seconds
- **Arc Sensors:** 4
- **Power Supply:** Solar panel and replaceable CR2450 Lithium Battery (included)
- **Standards:** ANSI ISEA Z87.1-2015, CSA Z94.3, EN 379 CE
- **Item Weight:** Approximately 2.74 pounds
- **Included Components:** Welding helmet, 3x replacement lenses, 1x headlamp, 1x headlamp

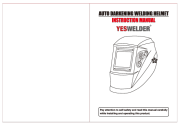
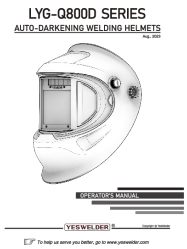
charging cable, 1x replaceable battery.

9. Warranty and Support

YESWELDER products are designed for quality and reliability. This product comes with a 1-year warranty from the date of purchase, covering manufacturing defects.

- **Warranty Coverage:** Covers defects in materials and workmanship under normal use.
- **Exclusions:** Does not cover damage due to misuse, neglect, unauthorized modification, or normal wear and tear.
- **Customer Support:** For warranty claims, technical assistance, or any questions regarding your product, please contact YESWELDER customer support. Refer to the official YESWELDER website for current contact information.

Related Documents - LYG-Q910D

	YESWELDER LYG-L600A Series Auto-Darkening Welding Helmet Operator's Manual Comprehensive operator's manual for YESWELDER LYG-L600A Series auto-darkening welding helmets, including safety precautions, specifications, operating instructions, maintenance, troubleshooting, and warranty information for models MX-L, LY600, and LYG-0L-6000.
	YESWELDER Auto Darkening Welding Helmet Instruction Manual Comprehensive instruction manual for the YESWELDER Auto Darkening Welding Helmet, detailing its features, operating principles, technical specifications, assembly, usage instructions, maintenance, warranty, and storage guidelines.
	YESWELDER LYG-Q800D Series Auto-Darkening Welding Helmet Operator's Manual Operator's manual for the YESWELDER LYG-Q800D Series auto-darkening welding helmets, covering safety precautions, specifications, operating instructions, adjustments, maintenance, troubleshooting, and warranty information.
	YESWELDER LYG-Q800D Series Auto-Darkening Welding Helmet Operator's Manual Comprehensive operator's manual for the YESWELDER LYG-Q800D Series auto-darkening welding helmet. Covers safety precautions, specifications, operating instructions, maintenance, troubleshooting, and warranty information.

	[YesWelder LYG-L500A Series Auto-Darkening Welding Helmets Operator's Manual] Operator's manual for the YesWelder LYG-L500A Series auto-darkening welding helmets, covering safety precautions, specifications, operating instructions, maintenance, troubleshooting, and warranty information.
	[YESWELDER MIG-205DS Welder Settings and Guide] Detailed welding parameters, consumables, and operational guide for the YESWELDER MIG-205DS welder. Covers MAG, CO2, Gasless, Lift TIG, and ARC welding processes, including wire selection, current, voltage, and gas flow rates.