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YESWELDER LYG-19800G

YESWELDER LYG-19800G Panoramic Auto Darkening Welding Helmet

User Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective use of your YESWELDER LYG-19800G Panoramic Auto Darkening Welding Helmet. Please read it thoroughly before operation and retain it for future reference.

The YESWELDER LYG-19800G welding helmet is designed to protect your eyes and face from sparks, spatter, and harmful radiation under normal welding conditions. The auto-darkening filter automatically changes from a light state to a dark state when an arc is struck, and returns to the light state when welding stops, providing continuous protection.



Image 1.1: The YESWELDER LYG-19800G welding helmet, shown with its main viewing area and side windows, alongside the included replacement outer and inner lenses.

2. Safety Information

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

- This 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.
- Do not use solvents on the helmet or filter screen.
- Clean the helmet and filter regularly with a soft, dry cloth.
- Replace scratched or damaged cover lenses and auto-darkening filters immediately.
- Ensure the helmet is properly adjusted to your head for a secure and comfortable fit before welding.

3. Package Contents

The YESWELDER LYG-19800G package includes the following items:

- 1 x YESWELDER LYG-19800G Welding Helmet
- 2 x Outer Replacement Lenses
- 3 x Inner Replacement Lenses
- 1 x Type-C USB Charging Cable
- 1 x Storage Bag

4. Product Features

The YESWELDER LYG-19800G welding helmet incorporates advanced features for enhanced performance and user comfort:

- **180° Panoramic View:** Features a large 4.31" x 3.82" main viewing window and side views (DIN5, auto-darkening) for expanded visibility.
- **Blue Light Blocking Technology:** An advanced outer lens filters harmful blue light, reducing eye strain during extended welding sessions.
- **6 Arc Sensors:** Ensures rapid and reliable auto-darkening in 1/30,000 seconds.
- **1/1/1/1 Optical Clarity & True Color:** Provides a clear and natural view of the weld puddle and surrounding environment.
- **Type-C Rechargeable Battery:** Integrated rechargeable battery with solar panel assistance for extended service life, eliminating the need for frequent battery replacement.
- **Durable PP Material:** Constructed from 100% recyclable upgraded PP material for increased protection and longevity.
- **Comfortable Headgear:** Ergonomically designed adjustable headgear with breathable padding for superior comfort during long periods of use.



Image 4.1: Key features include True Color, 6 Arc Sensors, PP-Strong Material, 180° Panoramic View, and Anti-Strong Arc Light.



Image 4.2: The helmet offers three-sided auto-darkening for better peripheral protection compared to helmets with only a main screen darkening.

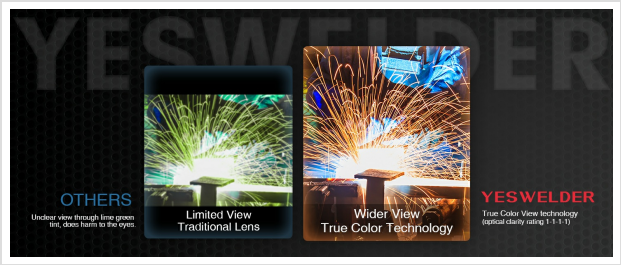


Image 4.3: Blue light blocking technology filters harmful high-energy blue light rays, enhancing eye comfort and safety.

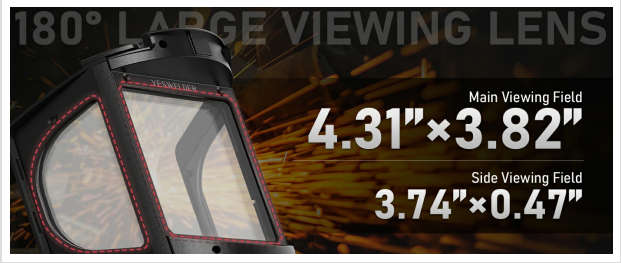


Image 4.4: True Color technology (1/1/1/1 optical clarity) provides a clearer, wider view compared to traditional lenses with a green tint.

5. Setup and Adjustment

Proper setup and adjustment are crucial for comfort and protection.

5.1 Headgear Adjustment

The helmet features an adjustable headgear system to fit various head sizes and shapes:

- **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 tight enough to prevent the helmet from falling down unexpectedly.
- **Angle Adjustment:** Adjust the helmet's angle to your desired position for optimal viewing and comfort.
- **Distance Adjustment:** Modify the distance between your face and the lens for comfortable observation.



Image 5.1: The comfortable headgear features oversized comfort cushions and multiple adjustment points for size, tightness, angle, and distance.

5.2 Initial Charging

The helmet's internal battery is Type-C rechargeable. Before first use, or if the helmet has been stored for an extended period, fully charge the battery using the provided Type-C USB cable. A full charge every 5 months is recommended for continuous service time.



Image 5.2: The Type-C charging port allows for convenient recharging of the internal battery, ensuring longer service life.

6. Operation

The LYG-19800G helmet is suitable for various welding and cutting applications.

6.1 Operating Modes

The helmet supports different modes, each with specific shade settings:

- **Weld Mode:** Darkened state No. 9-13, Light state No. 3. Ideal for STICK, MIG, and TIG welding.
- **Cut Mode:** Darkened state No. 5-9, Light state No. 3. Suitable for plasma cutting.
- **Grind Mode:** Light state No. 3. Provides eye protection during grinding operations without darkening.



Image 6.1: The helmet supports Weld, Cut, and Grind modes, each with appropriate shade levels for different tasks.

6.2 Sensitivity and Delay Settings

Adjust the sensitivity to control when the filter darkens and the delay to control how long it stays dark after the arc stops. These settings are typically found on external knobs or internal controls within the helmet.

7. Maintenance

Regular maintenance ensures the longevity and performance of your welding helmet.

7.1 Cleaning

- Clean the helmet shell with mild soap and water, then wipe dry with a soft cloth.
- Clean the auto-darkening filter and cover lenses with a soft, lint-free cloth. Do not use abrasive cleaners or solvents.

7.2 Lens Replacement

Replace outer and inner cover lenses when they become scratched, pitted, or dirty to maintain optimal visibility and protection. Refer to the helmet's design for specific instructions on how to remove and install replacement lenses.

7.3 Battery Care

The integrated Lithium Polymer battery is charged via Type-C USB and supplemented by a solar panel. Ensure the solar panel is exposed to light during use to assist in charging. Fully charge the battery every 5 months if the helmet is not in regular use to maintain battery health.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Filter does not darken when arc is struck.	Low battery, sensors obstructed, incorrect mode, filter damage.	Charge battery, clean sensors, select correct mode (Weld/Cut), replace filter.
Poor visibility.	Scratched/dirty cover lenses, incorrect shade setting.	Replace/clean cover lenses, adjust shade setting.
Helmet feels uncomfortable or loose.	Headgear not properly adjusted.	Adjust headgear for size, tightness, angle, and distance.

Problem	Possible Cause	Solution
LED lights flicker or do not work.	Low battery, internal connection issue.	Charge battery. If problem persists, contact customer support.

If problems persist after attempting these solutions, please contact YESWELDER customer support.

9. Specifications

Detailed technical specifications for the YESWELDER LYG-19800G welding helmet:



Image 9.1: A visual representation of the helmet's key specifications.

- **Main Viewing Field:** 4.31" x 3.82"
- **Side Viewing Field:** 3.74" x 0.47"
- **True Color View:** 1/1/1/1 Optical Clarity
- **Light State:** No. 3
- **Dark State:** No. 5-No. 13
- **Wide Shade Range:** UV and IR Protection: DIN 13
- **Operating Temperature:** 23°F ~ 131°F / -5°C ~ +55°C
- **Switching Time:** 1/30000s
- **Power Supply:** Type-C charging cable for charging, 1 Lithium Polymer battery (included)
- **Sensors:** Independent / Redundant (Six)
- **Standard:** ANSI Z87.1-2015 and CSA
- **Material:** PP
- **Item Weight:** 2.89 pounds
- **Product Dimensions:** 10.5 x 9.4 x 11.3 inches

10. Warranty and Support

YESWELDER products are designed for durability and performance. For warranty information, technical support, or service inquiries, please refer to the official YESWELDER website or contact their customer service directly.

You can typically find contact information on the product packaging or by visiting theYESWELDER Store on Amazon.

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