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YESWELDER LYG-22800F

YESWELDER LYG-22800F Auto Darkening Welding Helmet User Manual

Model: LYG-22800F | Brand: YESWELDER

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your YESWELDER LYG-22800F Auto Darkening Welding Helmet. Please read these instructions thoroughly before operation and retain for future reference. This helmet is designed to protect your eyes and face from sparks, spatter, and harmful radiation under normal welding conditions.



Image: The YESWELDER LYG-22800F Auto Darkening Welding Helmet, showcasing its sleek black design and large viewing screen.

2. SAFETY INFORMATION

Always prioritize safety when welding or grinding. Failure to follow these safety guidelines can result in serious injury.

- **Eye Protection:** This helmet provides protection against ultraviolet (UV) and infrared (IR) radiation, sparks, and spatter. However, it is not suitable for laser welding.
- **Impact Protection:** The helmet is designed to protect against moderate impact. Always wear appropriate primary eye protection (safety glasses) underneath the helmet.
- **Ventilation:** Ensure adequate ventilation in your work area to avoid inhaling hazardous fumes and gases.
- **Inspection:** Before each use, inspect the helmet for any damage, cracks, or loose parts. Replace damaged components immediately.
- **Temperature Range:** Do not use the helmet outside its specified operating temperature range.
- **Modifications:** Never modify the helmet or its components. Unauthorized modifications can compromise safety.

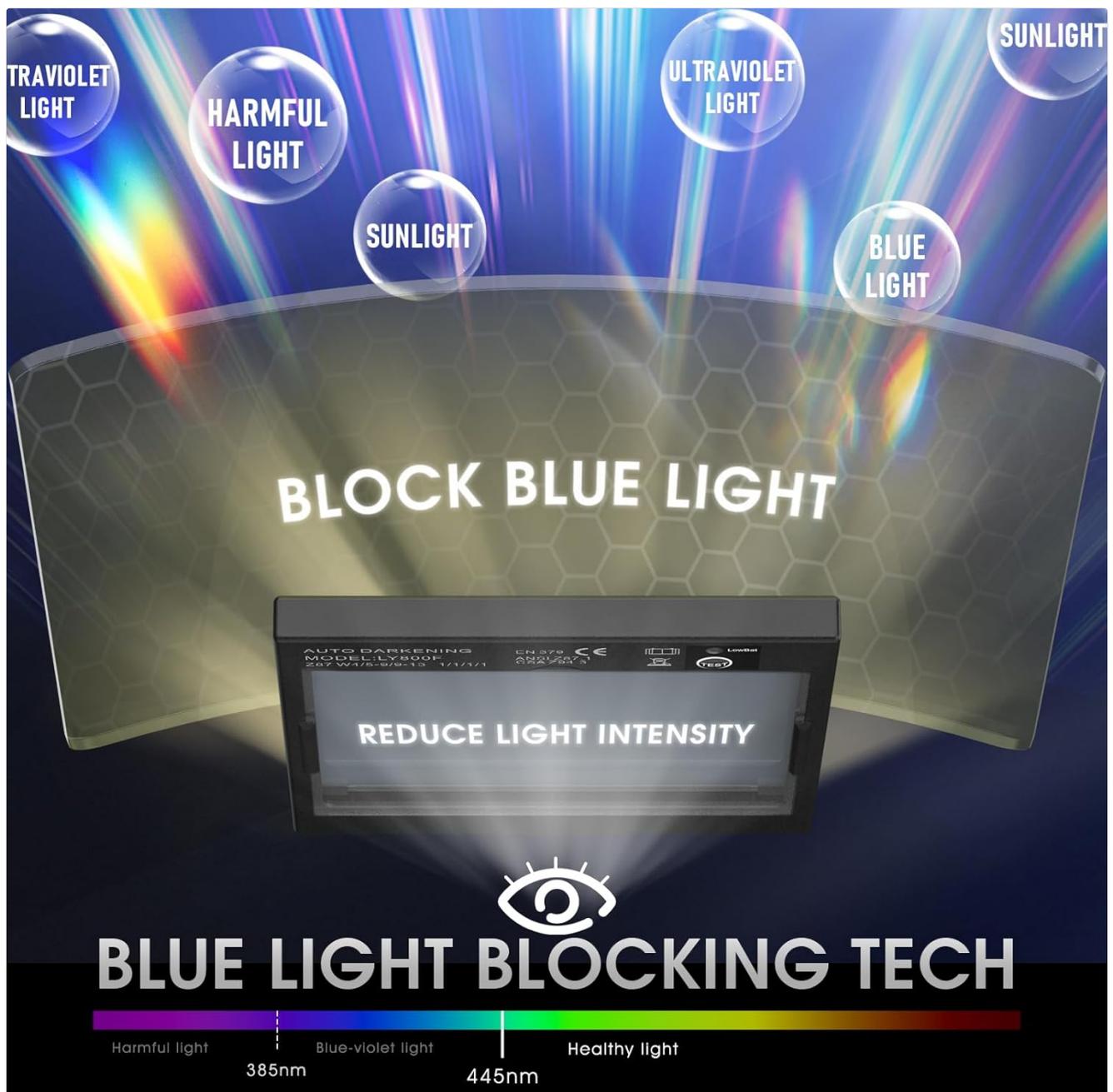


Image: Diagram illustrating the helmet's blue light blocking technology, protecting against harmful light spectrums.

3. PRODUCT FEATURES

- **Large Viewing Screen:** Equipped with a 3.94" x 3.66" viewing window, featuring 1/1/1/1 optical clarity lenses and true color technology for enhanced visual experience.
- **Faster Auto Darkening:** Features 4 advanced sensors, switching from light to dark in 1/30,000 seconds to protect eyes from harmful rays during welding.
- **Superior Safety and Comfort:** Constructed from 100% recyclable upgraded PP material for durability and protection. Includes an ergonomically designed adjustable headgear with breathable padding for comfort during extended use.
- **Long Service Life:** Powered by solar panel technology and a replaceable CR2450 lithium battery, promoting energy conservation.



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



Image: A visual comparison demonstrating the improved clarity and real color view provided by the upgraded true color lenses compared to traditional green-tinted lenses.



Image: Close-up of the helmet's large viewing lens, highlighting its dimensions of 3.93" x 3.66".

HARD SHELL

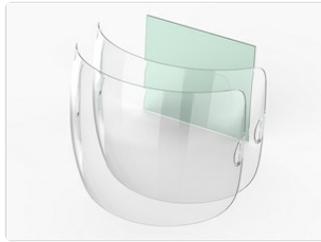


Image: Illustration of the helmet's hard shell, highlighting its resistance to falls, impacts, corrosion, and flames.

4. PACKAGE CONTENTS

Your YESWELDER LYG-22800F Welding Helmet package includes:

- 1 x YESWELDER LYG-22800F Auto Darkening Welding Helmet
- 2 x Replacement Outer Lenses
- 1 x CR2450 Lithium Battery (pre-installed or included separately)
- 1 x Storage Bag
- 1 x User Manual (this document)



Images: The welding helmet, replacement lenses, CR2450 battery, and storage bag included in the package.

5. SETUP

5.1 Headgear Adjustment

Proper adjustment of the headgear is crucial for comfort and stability. The headgear allows for circumference, angle, and distance adjustments.

1. **Circumference Adjustment:** Use the knob at the back of the headgear to adjust the fit around your head. Turn clockwise to tighten, counter-clockwise to loosen.
2. **Angle Adjustment:** Adjust the forward tilt of the helmet using the side mechanisms to ensure optimal viewing angle.
3. **Distance Adjustment:** Adjust the distance between your face and the lens for clear vision and comfort.

COMFORTABLE HEADGEAR



Headgear with oversized comfortable cushion provides extensive adjustability and settings, and improves experience of better fit and comfort.

Image: The comfortable headgear, highlighting its adjustable nature and features like sweatproof, antiskid, and damp proof design.

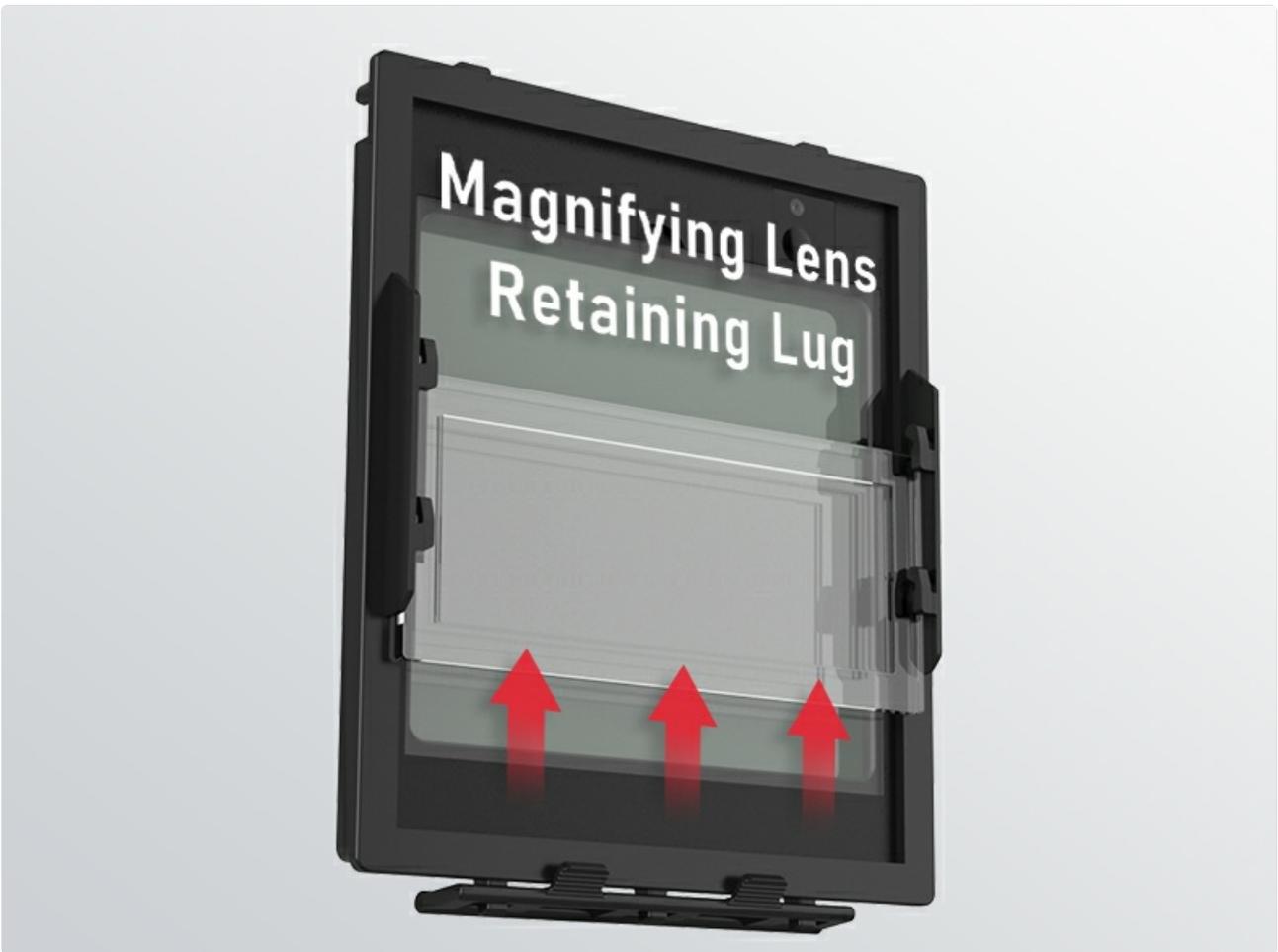


Image: Close-up of the headgear's angle adjustment mechanism, demonstrating how to set the forward tilt of the helmet.



Image: Close-up of the headgear's distance adjustment mechanism, illustrating how to set the distance between the face and the

lens.

5.2 Battery Installation/Check

The helmet is powered by a solar panel and a replaceable CR2450 lithium battery. Ensure the battery is correctly installed and functional before use.

1. Locate the battery compartment, usually on the inside of the auto-darkening filter (ADF) cartridge.
2. Insert the CR2450 battery with the correct polarity.
3. Press the "TEST" button on the ADF to verify the auto-darkening function. The lens should momentarily darken.

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Video: A demonstration of the YESWELDER M800H Welding Helmet's features, including the auto-darkening function and controls. This video is relevant for understanding the general operation of YESWELDER auto-darkening helmets.

6. OPERATING INSTRUCTIONS

6.1 Mode Selection

The helmet supports various modes for different applications:

- **Grind Mode:** Set to Shade 4. The lens remains light, suitable for grinding tasks without auto-darkening.
- **Cut Mode:** Adjustable shade range from 5 to 9, suitable for plasma cutting and similar operations.
- **Weld Mode:** Adjustable shade range from 9 to 13, ideal for TIG, MIG, and Arc welding.

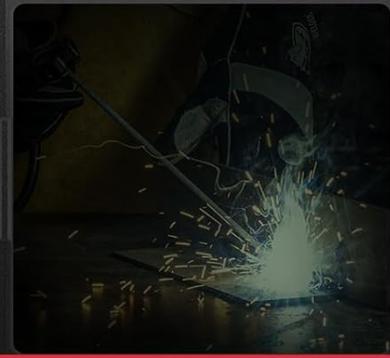
WIDE APPLICATION



Image: The helmet's versatility across various applications: MIG, Stick, TIG welding, as well as cutting and grinding.

DELAY CONTROL

Slows lens dark-to-light, set to 0.1s / 0.5s / 1.0s respectively.



SHADE

Grind Mode 4 / Cut Mode 5~ 9 / Weld Mode 9~13



SENSITIVITY

Stepless control



Image: Close-up of the helmet's control panel, detailing the knobs for Delay, Shade, and Sensitivity adjustments.

6.2 Adjusting Settings

1. **Shade Control:** Rotate the "SHADE" knob to select the appropriate shade level (4-5/9-9/13) for your welding or cutting process. Refer to welding standards for recommended shade levels.
2. **Sensitivity Control:** Adjust the "SENSITIVITY" knob to accommodate different lighting conditions and prevent the lens from flashing on and off. Turn towards "HI" for weak arcs and "LO" for strong arcs.
3. **Delay Control:** Use the "DELAY" knob to set the time it takes for the lens to return to its clear state after welding. "MIN" provides a fast return, while "MAX" provides a slow return, useful for preventing eye fatigue from afterglow.

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Video: A demonstration of the YESWELDER M800H Welding Helmet's auto-darkening and adjustment features. This video is relevant for understanding the general operation of YESWELDER auto-darkening helmets.

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Video: An overview of the YESWELDER M800H Series Auto Darkening Welding Helmet, showcasing its design and functionality. This video is relevant for understanding the general operation of YESWELDER auto-darkening helmets.

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Video: A short demonstration of the VORITO Welding Helmet VR-B12, highlighting its auto-darkening feature and true color view. This video is useful for illustrating the auto-darkening function.

7. MAINTENANCE

7.1 Cleaning

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

7.2 Lens Replacement

Replace the outer and inner protective lenses regularly, especially if they become scratched, pitted, or cloudy, to maintain clear vision and protection.

1. Carefully remove the old protective lens by unclipping or sliding it out of its frame.
2. Insert a new protective lens, ensuring it is securely seated.

7.3 Battery Replacement

If the low battery indicator illuminates or the ADF fails to darken, replace the CR2450 battery.

1. Open the battery compartment on the ADF.
2. Remove the old CR2450 battery and insert a new one, observing polarity.
3. Test the ADF function using the "TEST" button.

8. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Lens does not darken when arc is struck.	Low battery; Sensors blocked; Incorrect sensitivity setting; ADF damaged.	Replace battery; Clean sensors; Adjust sensitivity; Replace ADF.
Lens remains dark after welding.	Incorrect delay setting; Low battery.	Adjust delay to a faster setting; Replace battery.
Poor visibility.	Scratched/dirty protective lenses; Incorrect shade setting.	Clean or replace lenses; Adjust shade.
Helmet feels uncomfortable or unstable.	Improper headgear adjustment.	Adjust headgear circumference, angle, and distance.

9. SPECIFICATIONS

Feature	Detail
Model Number	LYG-22800F
Viewing Area	3.94" x 3.66"
Optical Clarity	1/1/1/1
Arc Sensors	4
Switching Time	1/30,000 seconds (Light to Dark)
Shade Range	Grind Mode: DIN 4; Cut Mode: DIN 5-9; Weld Mode: DIN 9-13
Power Supply	Solar Cell & Replaceable CR2450 Lithium Battery
Material	PP (Polypropylene)
Item Weight	998 g
Product Dimensions	50.8 x 60.96 x 88.9 cm

10. WARRANTY AND SUPPORT

Your YESWELDER LYG-22800F Auto Darkening Welding Helmet comes with a **1-year warranty** from the date of purchase, covering manufacturing defects.

For technical assistance, troubleshooting, or warranty claims, please contact YESWELDER customer support. Our team is available for **24/7 customer support** to assist you.

Visit the official YESWELDER website for more information and contact details: [YESWELDER Store](#)