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› [ARCCAPTAIN](#) /

› [ARCCAPTAIN True Color Auto Darkening Welding Helmet LY600 Instruction Manual](#)

ARCCAPTAIN LY600

ARCCAPTAIN True Color Auto Darkening Welding Helmet LY600

User Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your ARCCAPTAIN True Color Auto Darkening Welding Helmet, model LY600. Please read this manual thoroughly before operating the helmet and retain it for future reference. This helmet is designed to protect your eyes and face from sparks, spatter, and harmful radiation under normal welding conditions.



Image 1: ARCCAPTAIN LY600 Auto Darkening Welding Helmet

2. SAFETY PRECAUTIONS

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

- **Eye Protection:** The auto-darkening filter (ADF) is designed to protect against harmful UV/IR radiation even in the light state. However, direct exposure to welding arc without the helmet in the dark state can cause severe eye damage.
- **Impact Protection:** This helmet is not designed for impact protection against severe hazards such as grinding

wheels or explosive devices. Always wear appropriate primary eye protection (safety glasses) underneath the helmet.

- **Heat Exposure:** Do not place the helmet on hot surfaces.
- **Maintenance:** Do not modify the helmet or the auto-darkening filter. Use only genuine replacement parts.
- **Temperature Range:** Operate the helmet within the specified temperature range of -5°C to 55°C (23°F to 131°F).

3. PRODUCT OVERVIEW AND COMPONENTS

The ARCCAPTAIN LY600 welding helmet consists of several key components designed for optimal performance and user comfort.

UPGRADED WELDING HELMET

A new structure that fits the head better



Image 2: Exploded view of ARCCAPTAIN LY600 Welding Helmet components, showing the lens frame, inside lens cover, lens assembly, outside lens cover, and headset mounts.

Key Features:

- **New Generation Screen:** Features a 3.64" x 1.67" viewing area with 1/1/1/1 optical clarity and true color technology.
- **Upgraded Arc Sensors:** Two new generation arc sensors for faster auto-darkening (1/25000 seconds).
- **Adjustable Controls:** Easily adjustable brightness, sensitivity, and delay.
- **Dual Power Source:** Solar panel and replaceable CR2450 lithium battery.
- **Durable Material:** Made from eco-friendly PP materials.
- **Advanced Eye Protection:** 12-in-1 smart filter with automatic DIN 16 UV/IR protection.
- **Comfortable Headgear:** Newly upgraded knob section for easy adjustment and improved fit.

4. SETUP AND ADJUSTMENT

Proper setup and adjustment are crucial for comfort and safety.

4.1 Initial Setup

1. **Remove Protective Films:** Before first use, carefully remove the protective films from both the inner and outer surfaces of the auto-darkening filter lens. Failure to do so will impair visibility and helmet function.
2. **Install Outer Cover Lens:** Ensure the outer cover lens is securely in place.

4.2 Headgear Adjustment

The helmet features an upgraded headgear system for a secure and comfortable fit.

LARGER ADJUSTMENT KNOB

No need to remove gloves to adjust the welding helmet size

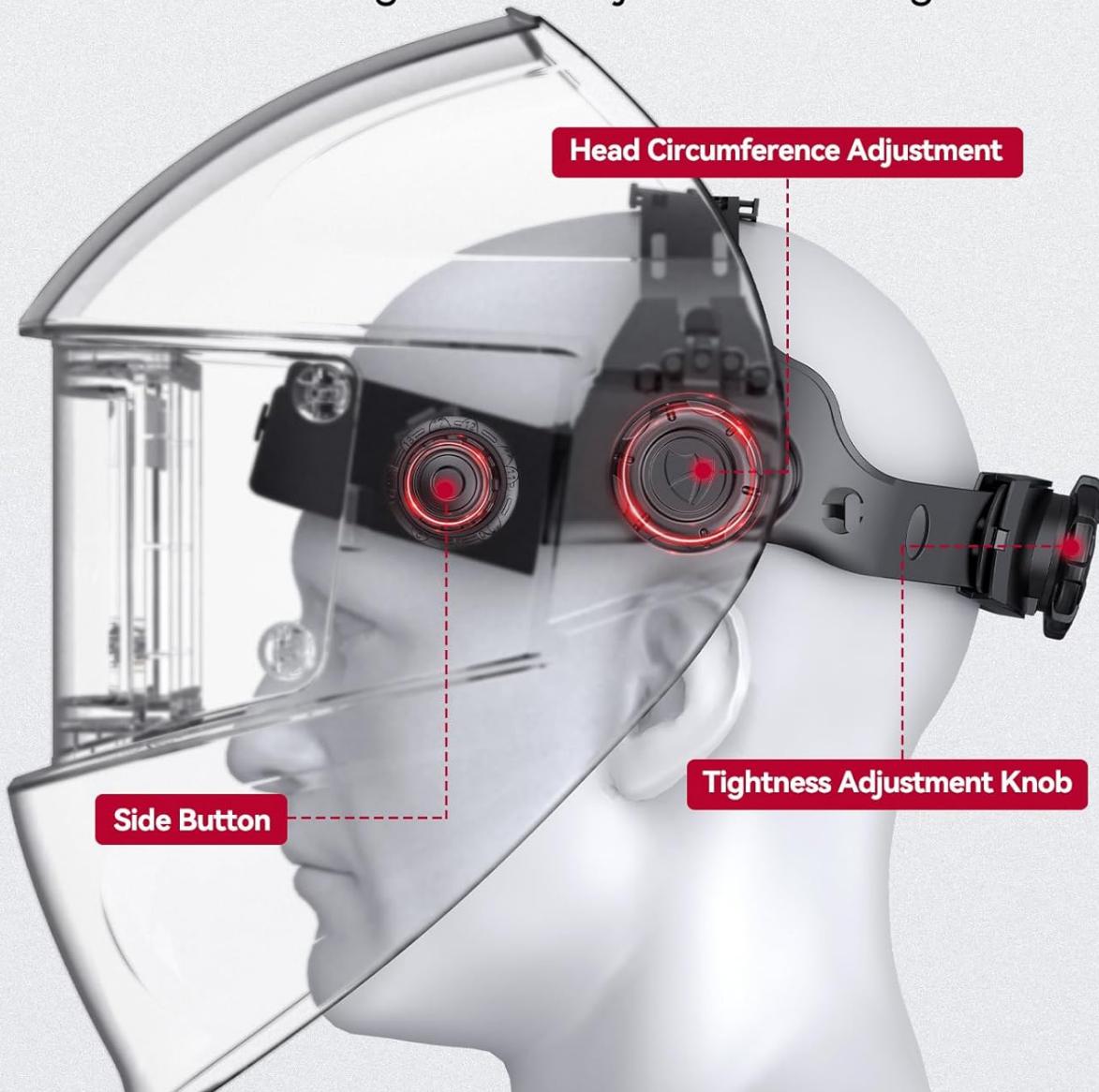


Image 3: Headgear adjustment points, including head circumference adjustment, tightness adjustment knob, and side buttons for angle adjustment.

- **Head Circumference:** Use the knob at the back of the headgear to adjust the circumference for a snug fit.
- **Helmet Angle:** Adjust the side buttons to set the desired angle of the helmet when in the raised position.
- **Distance from Face:** Adjust the pins on the headgear to control the distance between the helmet and your face.
- **Top Strap:** Adjust the top strap for flexible and balanced positioning on your head.

The larger adjustment knobs allow for easy manipulation even while wearing welding gloves.

5. OPERATING INSTRUCTIONS

Understand the controls and modes for effective welding and grinding.

5.1 Auto-Darkening Filter (ADF) Controls

DELAY CONTROL

Slow down the lens from dark to light state to 0.1 to 0.8 seconds



SHADE

Grind mode: DIN 4; Cut mode: DIN 5-9
Weld mode: DIN 9-13



SENSITIVITY

Adjust sensitivity to accommodate different lighting conditions



Image 4: Controls for Delay, Shade, and Sensitivity on the auto-darkening filter.

- **Sensitivity Control:** Adjusts the sensitivity of the arc sensors to ambient light conditions. Turn to 'HI' for weak arcs (e.g., low amperage TIG) or 'LO' for strong arcs (e.g., high amperage MIG/ARC) to prevent false triggering.
- **Delay Control:** Adjusts the time it takes for the lens to return from dark to light state after welding. A shorter delay ('MIN') is suitable for tack welding, while a longer delay ('MAX') is recommended for high amperage welding to reduce eye fatigue.
- **Shade Control:** Sets the darkness level of the filter.
 - **Grind Mode:** DIN 4 (Light state for grinding).
 - **Cut Mode:** DIN 5-9.
 - **Weld Mode:** DIN 9-13 (Adjust according to welding process and amperage).

5.2 Power Source

The helmet is powered by a combination of solar energy and a replaceable CR2450 lithium battery. The solar panel charges the battery during use, extending its lifespan. A 'Low Battery' indicator will illuminate when the battery needs

replacement.

5.3 Applications



Image 5: The ARCCAPTAIN LY600 Welding Helmet is suitable for various applications including Stick, MIG, TIG welding, and grinding.

The ARCCAPTAIN LY600 is suitable for a wide range of welding and grinding applications, including:

- Stick Welding (ARC)
- MIG Welding
- TIG Welding
- Grinding

Ensure the correct shade level is selected for your specific application to ensure adequate eye protection.

5.4 Video Demonstration

Watch this official product video for a visual guide on the helmet's features and operation.

Your browser does not support the video tag.

Video 1: Official ARCCAPTAIN video demonstrating the features and adjustments of the True Color Auto Darkening Welding Helmet.

6. MAINTENANCE

Regular maintenance ensures the longevity and proper function of your welding helmet.

- **Cleaning:** Clean the helmet shell and cover lenses regularly with a mild soap and water solution and a soft cloth. Do not use harsh abrasives or solvents.
- **ADF Cleaning:** Gently wipe the auto-darkening filter with a clean, lint-free cloth. Do not immerse the ADF in water or cleaning solutions.
- **Battery Replacement:** When the 'Low Battery' indicator illuminates, replace the CR2450 lithium battery located at the back of the ADF. Ensure correct polarity.
- **Storage:** Store the helmet in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the helmet for any signs of damage, cracks, or wear. Replace damaged parts immediately.

7. TROUBLESHOOTING

If you encounter issues with your welding helmet, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lens does not darken when welding.	1. Protective films not removed. 2. Low battery. 3. Sensitivity set too low. 4. Arc sensors obstructed.	1. Remove all protective films. 2. Replace CR2450 battery. 3. Increase sensitivity setting. 4. Clean or clear arc sensors.
Poor visibility through the lens.	1. Protective films not removed. 2. Lens or cover plates are dirty/scratched.	1. Remove all protective films. 2. Clean lenses or replace scratched cover plates.
Helmet feels uncomfortable or loose.	Headgear not properly adjusted.	Adjust head circumference, angle, and top strap for a secure fit.

If the problem persists after attempting these solutions, contact ARCCAPTAIN customer support.

8. SPECIFICATIONS

Detailed technical specifications for the ARCCAPTAIN LY600 Welding Helmet:

Feature	Specification
Model Number	LY600
Optical Clarity	1/1/1/1
Viewing Area	3.64" x 1.67"

Feature	Specification
Response Time (Light to Dark)	1/25000 seconds
Dark State Levels	DIN 4/9-13
UV/IR Protection	DIN 16 (Automatic)
Arc Sensors	2
Power Source	Solar Cell & 1x CR2450 Lithium Metal Battery (included)
Operating Temperature	-5°C to 55°C (23°F to 131°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Material	Polypropylene (PP)
Item Weight	1.94 pounds
Included Components	1 x ARCCAPTAIN Storage Bag, 1 x Replaced Lithium Battery, 1x Welding helmet, 3 x Replacement Lens

9. WARRANTY INFORMATION

ARCCAPTAIN products are manufactured to high-quality standards. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official ARCCAPTAIN website. Keep your purchase receipt as proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For further assistance, technical support, or to purchase replacement parts, please contact ARCCAPTAIN customer service or visit our official store:

[ARCCAPTAIN Official Store](#)

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Related Documents - LY600

 <p>ARCCAPTAIN MIG200 Inverter Welding Machine User Manual</p> <p>Comprehensive user manual for the ARCCAPTAIN MIG200 Inverter Welding Machine, covering safety precautions, product overview, functions, performance and system characteristics, technical parameters, operation, installation, maintenance, troubleshooting, transportation, storage, wiring diagrams, and component lists.</p>	
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	<p>ARCCAPTAIN MIG200 Fit Inverter Welding Machine User Manual</p> <p>Comprehensive user manual for the ARCCAPTAIN MIG200 Fit Inverter Welding Machine. Covers safety, product introduction, operation for MIG, Spool gun, Flux-Cored, MMA, and TIG welding, technical parameters, maintenance, and troubleshooting.</p>
	<p>ARCCAPTAIN MIG165 Pro User Manual</p> <p>User manual for the ARCCAPTAIN MIG165 Pro inverter welding machine, covering safety, product introduction, operation, maintenance, and troubleshooting.</p>
	<p>ARCCAPTAIN TIG200PACDC Welding Setup Guide: Material & Parameter Settings</p> <p>Comprehensive setup guide for the ARCCAPTAIN TIG200PACDC welding machine. Provides essential parameters like amperage, pulse, gas flow, and tungsten settings for TIG welding aluminum, steel, and stainless steel.</p>
	<p>ARCCAPTAIN MIG135 Inverter Welding Machine User Manual</p> <p>Comprehensive user manual for the ARCCAPTAIN MIG135 Inverter Welding Machine, covering safety, product overview, operation, installation, maintenance, and troubleshooting.</p>
	<p>ARCCAPTAIN MIG130 Inverter Welding Machine User Manual</p> <p>Comprehensive user manual for the ARCCAPTAIN MIG130 Inverter Welding Machine, covering safety, product introduction, installation, operation, maintenance, and troubleshooting. Learn how to use your MIG130 for MIG, MMA, and TIG welding.</p>