

ARCCAPTAIN ARCCAPTAIN Welding Helmet and Welding Cap

ARCCAPTAIN Large Viewing Screen Auto-Darkening Welding Helmet and Welding Cap User Manual

Model: ARCCAPTAIN Welding Helmet and Welding Cap

1. INTRODUCTION

Thank you for choosing the ARCCAPTAIN Large Viewing Screen Auto-Darkening Welding Helmet and Welding Cap. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your new welding helmet and cap. Please read this manual thoroughly before use and retain it for future reference.



Image 1.1: ARCCAPTAIN Large Viewing Screen Auto-Darkening Welding Helmet and Black Welding Cap.

2. SAFETY INFORMATION

Always prioritize safety when performing welding, grinding, or cutting operations. This welding helmet is designed to protect your eyes and face from sparks, spatter, and harmful radiation under normal welding conditions. However, it is not a substitute for other personal protective equipment (PPE).

General Safety Precautions:

- Always wear appropriate eye protection, such as safety glasses, under the welding helmet.
- Ensure the helmet is properly adjusted and fits securely before beginning any work.
- Do not use the helmet if any part is damaged or appears to be malfunctioning.
- Avoid direct exposure to welding arcs without proper protection.
- Ensure adequate ventilation in your work area to avoid inhaling hazardous fumes.
- The welding cap provides additional head and hair protection from sparks and heat.



Image 2.1: Welding protection in use, highlighting neck and head coverage.

3. PRODUCT OVERVIEW

The ARCCAPTAIN Welding Helmet features an auto-darkening filter (ADF) with a large viewing screen, designed for enhanced visibility and comfort. The included welding cap offers additional protection.

Key Features:

- **Large Viewing Screen:** Provides an expansive view of the work area.
- **Fast Darkening:** Upgraded dimming system with 0.04ms darkening response time.
- **4 Premium Arc Sensors:** Ensures reliable arc detection and consistent darkening.
- **Optical Class 1/1/1/1:** High optical clarity for reduced eye strain.
- **True Color Technology:** Improves visibility of the weld puddle and surrounding environment.
- **PA Durable Material:** Constructed from robust materials for longevity.
- **Solar Powered:** Utilizes solar cells for extended battery life and simultaneous charging.
- **Military Grade Drop Protection:** Designed to be shock-resistant, lightweight, flame-resistant, and corrosion-resistant.
- **Black Welding Cap:** Size 7 1/4, provides additional head protection.

UPGRADED WELDING HELMET



Image 3.1: Key features of the ARCCAPTAIN Welding Helmet.

4. SETUP

4.1 Headgear Adjustment

1. **Fit the Headgear:** Place the headgear on your head and adjust the top strap for a comfortable fit.
2. **Adjust Headband Diameter:** Use the knob on the back of the headgear to tighten or loosen the headband until it fits snugly without being too tight.
3. **Adjust Helmet Distance:** Adjust the distance between the helmet and your face using the side knobs. Ensure there is enough space for air circulation but not so much that light can enter from the sides.
4. **Adjust Helmet Angle:** Tilt the helmet up and down to find a comfortable working angle. Tighten the side knobs to secure the angle.

4.2 Welding Cap Fitting

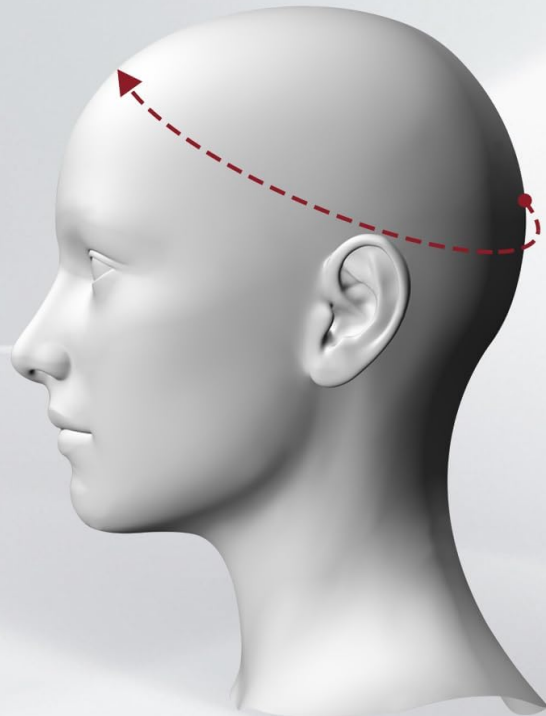
The included welding cap is size 7 1/4. Ensure it fits comfortably on your head before wearing the helmet. The cap provides an additional layer of protection for your head and hair from sparks and heat.



Image 4.1: Proper fitting of the welding cap under the helmet.

HOW TO CHOOSE

Size Chart Unit: inches



Where to Measure

Cap size	Head Circumference
6 7/8	21 5/8
7	22
7 1/8	22 1/2
7 1/4	23
7 3/8	23 1/2
7 1/2	23 7/8
7 5/8	24 1/4
7 3/4	24 7/16
7 7/8	24 7/8
8	25 1/4

Image 4.2: Welding cap size chart for reference.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

The auto-darkening filter (ADF) is solar-powered and automatically turns on when exposed to light. There is no manual on/off switch. The helmet is always ready for use when exposed to sufficient light.

5.2 Shade Level Adjustment

The helmet features an external knob for adjusting the shade level. Rotate the knob to select the appropriate shade for your welding process. Refer to standard welding shade charts for recommended settings based on amperage and material.

5.3 Sensitivity and Delay Settings

Internal controls allow adjustment of sensitivity and delay:

- **Sensitivity:** Adjusts how readily the filter reacts to the welding arc. Higher sensitivity is suitable for low-amperage TIG welding.
- **Delay:** Controls the time the filter remains dark after the arc ceases. A longer delay is useful for high-amperage welding or when working with hot materials to prevent eye fatigue.

5.4 Application Modes

This helmet is suitable for various applications:

- **Welding:** Suitable for Stick, MIG, and TIG welding processes.
- **Grinding:** A dedicated grind mode prevents the filter from darkening, allowing clear vision for grinding tasks. Ensure the helmet is switched to grind mode before grinding.
- **Cutting:** Can be used for plasma cutting applications.



Image 5.1: Wide application suitability for various welding and cutting processes.

6. MAINTENANCE

6.1 Cleaning the Helmet and Lenses

- Clean the helmet shell with a mild soap and water solution. Avoid harsh chemicals or solvents.
- Clean the inner and outer cover lenses with a soft, clean cloth and a non-abrasive lens cleaner. Do not use abrasive materials that could scratch the lenses.
- Regularly inspect the ADF for any damage or scratches.

6.2 Replacing Cover Lenses

The inner and outer cover lenses are consumable parts and should be replaced when scratched, pitted, or otherwise damaged to maintain optical clarity and protection.

6.3 Storage

Store the helmet in a clean, dry place away from direct sunlight and extreme temperatures. Protect the lenses from scratches during storage.

7. TROUBLESHOOTING

Common Issues and Solutions:

- **Lens not darkening:**
 - Ensure the arc sensors are clean and unobstructed.
 - Verify sufficient ambient light for solar charging.
 - Check if the sensitivity setting is too low for the current welding process.
- **Poor visibility:**
 - Clean the inner and outer cover lenses.
 - Replace scratched or damaged cover lenses.
 - Adjust the shade level for optimal viewing.
- **Helmet slipping:**
 - Tighten the headband adjustment knob.
 - Adjust the top strap for a more secure fit.

8. SPECIFICATIONS

Feature	Specification
Optical Class	1/1/1/1
Darkening Response Time	0.04ms (1/25000s)
Arc Sensors	4 Premium Sensors
Power Supply	Solar Cells
Material	PA Durable Material
Color	Black
Welding Cap Size	7 1/4 (Large)
Protection Features	Shock Resistant, Lightweight, Flame Resistant, Corrosion Resistant

9. WARRANTY AND SUPPORT

The ARCCAPTAIN Large Viewing Screen Auto-Darkening Welding Helmet and Welding Cap comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use.


For warranty claims, technical support, or any questions regarding your product, please contact ARCCAPTAIN customer service through the retailer where the product was purchased or visit the official ARCCAPTAIN website for support contact information.


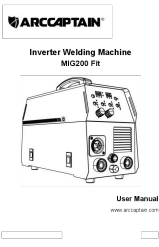
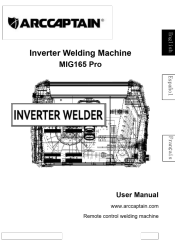

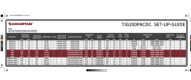


Image 9.1: The ARCCAPTAIN welding helmet, highlighting its long-lasting life and 2-year warranty.

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