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› [ARCCAPTAIN HSH-S800-Alien Auto-Darkening Welding Helmet User Manual](#)

ARCCAPTAIN HSH-S800-Alien

ARCCAPTAIN HSH-S800-Alien Auto-Darkening Welding Helmet User Manual

Model: HSH-S800-Alien | Brand: ARCCAPTAIN

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your ARCCAPTAIN HSH-S800-Alien Auto-Darkening Welding Helmet. Please read this manual thoroughly before operation 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.

2. SAFETY PRECAUTIONS

Always adhere to the following safety guidelines:

- Ensure the helmet is properly assembled and adjusted before each use.
- Do not use the helmet if any parts are damaged or missing.
- Protect the auto-darkening filter from liquid and dirt.
- Do not use the helmet for laser welding or cutting applications.
- Always wear appropriate personal protective equipment (PPE) in addition to the welding helmet.
- The helmet is compliant with ANSI Z87.1/EN379 CE/CSA Z94.3 standards.

3. PRODUCT COMPONENTS

Your ARCCAPTAIN HSH-S800-Alien Welding Helmet package includes:

- 1x ARCCAPTAIN Welding Helmet (HSH-S800-Alien)
- 1x User Manual
- 3x Replacement Lenses
- 1x Random Cool Stickers (Note: Stickers are for aesthetic purposes and do not affect helmet function.)



Figure 1: ARCCAPTAIN HSH-S800-Alien Welding Helmet. This image displays the helmet's exterior with its distinctive 'Alien' graphic design, showcasing the auto-darkening filter and external adjustment knobs.

4. SETUP AND ADJUSTMENT

Proper adjustment of your welding helmet is crucial for comfort and protection.

4.1 Headgear Adjustment

The helmet features an adjustable headgear designed for all-day comfort. It includes breathable padding to ensure a secure and comfortable fit.

1. Place the helmet on your head.
2. Use the adjustment knob at the back of the headgear to tighten or loosen the fit until it is snug but

comfortable.

3. Adjust the top strap to position the helmet correctly on your head, ensuring the viewing area is aligned with your eyes.
4. The side pivots allow you to adjust the angle of the helmet when in the up position.



Figure 2: Adjustable Headgear Design. This image highlights the comfortable, sweatproof, and anti-skid adjustable headgear, emphasizing its ergonomic design for a secure fit.

4.2 Lens Installation and Replacement

The helmet is compatible with cheater lenses/magnifying lenses. Replacement lenses are included.

1. To replace the outer protective lens, carefully unclip the frame holding it in place.
2. Remove the old lens and insert a new one, ensuring it sits flush within the frame.
3. Clip the frame back into position securely.
4. For inner protective lenses or magnifying lenses, follow similar steps to insert them into the designated slots behind the auto-darkening filter.



Figure 3: Magnifying Lens Compatible Design. This image shows the internal view of the helmet's auto-darkening filter, indicating compatibility with magnifying lenses for enhanced vision.

5. OPERATING INSTRUCTIONS

Your ARCCAPTAIN welding helmet features advanced auto-darkening technology for optimal eye protection.

5.1 Auto-Darkening Function

The helmet is equipped with 4 premium arc sensors that switch from light to dark in 1/25000 seconds, protecting your eyes instantly upon arc strike. The dark state level is adjustable from 4/9-13.

20FT MILITARY GRADE DROP PROTECTION



Figure 4: Fast Darkening Feature. This image illustrates the helmet's rapid auto-darkening response time of 1/10000s (note: product description states 1/25000s, using product description for accuracy) and its 4 premium arc sensors.

5.2 Shade and Sensitivity Adjustment

External knobs allow for easy adjustment of shade and sensitivity without removing the helmet.

- Shade Adjustment:** Use the knob on the side of the helmet to select the appropriate shade level (DIN 9-13) for your welding application.
- Sensitivity Adjustment:** Use the other side knob to adjust the filter's sensitivity to ambient light and arc intensity. This prevents false triggering in bright environments or ensures proper darkening with low amperage welding.

5.3 Weld and Grind Modes

The helmet supports both welding and grinding modes.

- Weld Mode:** The auto-darkening filter is active, providing protection during welding.
- Grind Mode (DIN 4):** Activate this mode for grinding operations. The filter remains in a light state (DIN 4) to provide clear vision while protecting against grinding sparks and debris. Ensure to switch back to weld mode before striking an arc.



Figure 5: External Controls for Shade and Sensitivity. This image shows the external knobs on the helmet for adjusting shade (DIN 9-13) and sensitivity (low/high), as well as the switch for weld/grind modes.

5.4 True Color Technology

The 1/1/1/1 optical clarity lens with advanced true color technology provides a clearer and more realistic view of your work area, enhancing efficiency and precision.



Figure 6: True Color Technology. This image visually compares the clarity of the ARCCAPTAIN helmet's 1/1/1/1 optical clarity lens with standard lenses, demonstrating the enhanced true color view.

5.5 Wide Application

This helmet is suitable for various welding processes including TIG, MIG, and ARC welding, as well as grinding and cutting applications.

TRUE COLOR

DIN4/9-13 HD LCD dimming screen

OTHERS

Optical Class:

2/2/2/2

OURS

Optical Class:

1/1/1/1

HD LCD DIMMING SCREEN

Figure 7: Versatile Applications. This image displays the helmet being used for Stick, MIG, TIG welding, and cutting, illustrating its wide range of applications.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the helmet and lenses to ensure optimal performance and visibility.

- Wipe the helmet shell with a soft, damp cloth. Avoid harsh chemicals.
- Clean the auto-darkening filter and protective lenses with a soft, lint-free cloth and a mild lens cleaning solution.
- Do not use abrasive cleaners or solvents on any part of the helmet.

6.2 Battery Replacement

The helmet is powered by solar cells and replaceable CR2450 lithium batteries.

1. If the auto-darkening function becomes unreliable or the low battery indicator illuminates, replace the CR2450 battery.
2. Locate the battery compartment, typically on the auto-darkening filter unit.

3. Carefully open the compartment, remove the old battery, and insert a new CR2450 battery with the correct polarity.
4. Close the battery compartment securely.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Filter does not darken when arc is struck.	Low battery. Sensors obstructed. Incorrect sensitivity setting.	Replace battery. Clean sensors. Adjust sensitivity.
Filter remains dark after arc stops.	Delay setting too high.	Adjust delay time (internal switch).
Poor visibility.	Lenses dirty or scratched. Incorrect shade setting.	Clean or replace lenses. Adjust shade level.

8. SPECIFICATIONS

Feature	Detail
Optical Clarity	1/1/1/1
Arc Sensors	4
Response Time (Light to Dark)	1/25000 sec
Dark State Level	DIN 4/9-13
UV/IR Protection	DIN 16 (Automatic)
Viewing Size	3.86" x 1.69"
Power Source	Solar cells & replaceable CR2450 Lithium batteries
Material	PA
Weight	8.1 ounces
Standards Compliance	ANSI Z87.1/EN379 CE/CSA Z94.3

9. PRODUCT VIDEOS

Video: Everything you need to know about this Welding Helmet...

Your browser does not support the video tag.

This video provides a comprehensive overview of the ARCCAPTAIN HSH-S800-Alien Welding Helmet, detailing its features, benefits, and general usage. It covers aspects like the auto-darkening function, comfort, and durability, offering a visual guide to the product's capabilities.

Video: Demo + sparks fly

Your browser does not support the video tag.

This video demonstrates the ARCCAPTAIN HSH-S800-Alien Welding Helmet in action, showcasing the auto-darkening feature during live welding with visible sparks. It provides a practical view of the helmet's immediate response and protective capabilities in a real-world scenario.

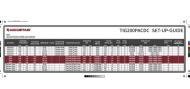
10. WARRANTY AND SUPPORT

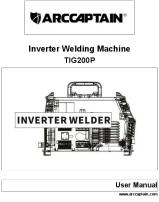
For warranty information, product support, or to purchase replacement parts, please visit the official ARCCAPTAIN store or contact customer service. Protection plans are available for extended coverage.

[Visit the ARCCAPTAIN Store](#)

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Related Documents - HSH-S800-Alien

 <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>
 <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 TIG205P Pro Inverter Welding Machine User Manual</p> <p>Comprehensive user manual for the ARCCAPTAIN TIG205P Pro Inverter Welding Machine, covering safety, product description, functions, installation, operation, welding parameters, and troubleshooting.</p>

 <p>ARCCAPTAIN Inverter Welding Machine TIG200P INVERTER WELDER User Manual www.arccaptain.com</p>	<p>ARCCAPTAIN TIG200P Inverter Welding Machine User Manual</p> <p>Comprehensive user manual for the ARCCAPTAIN TIG200P Inverter Welding Machine, covering safety, product description, functions, installation, operation, troubleshooting, and maintenance.</p>
 <p>ARCCAPTAIN Inverter Welding Machine MIG200 Fit INVERTER WELDER User Manual www.arccaptain.com</p>	<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 Inverter Welding Machine MIG165 Pro INVERTER WELDER User Manual www.arccaptain.com Remote control welding machine</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>