

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [ARCCAPTAIN](#) /
- › [ARCCAPTAIN HSH-G999 Auto Darkening Welding Helmet User Manual](#)

ARCCAPTAIN HSH-G999

ARCCAPTAIN HSH-G999 Auto Darkening Welding Helmet User Manual

Model: HSH-G999 | Brand: ARCCAPTAIN



Front view of the ARCCAPTAIN HSH-G999 Auto Darkening Welding Helmet, showcasing its sleek black design and large viewing screen.

INTRODUCTION

The ARCCAPTAIN HSH-G999 Auto Darkening Welding Helmet is designed to provide superior eye protection and enhanced visibility for a wide range of welding, cutting, and grinding tasks. Equipped with advanced auto-darkening technology, true color optics, and a comfortable, adjustable headgear, this helmet ensures safety and efficiency for both professional and hobbyist users.

UPGRADED WELDING HELMET



True Color



Large Viewing



Long-Lasting
Battery



1/25000s
Darkening

Key features of the upgraded ARCCAPTAIN welding helmet, including True Color technology, large viewing area, long-lasting battery, and fast darkening speed.

Key features include:

- High-end auto-darkening lens with four premium arc sensors.
- Optimal eye protection with full automatic protection up to DIN 16 and continuous UV/IR protection.
- Advanced true-color technology and 1/1/1/1 optical clarity for a clear, natural view.
- Large viewing area of 3.94" x 3.66" for enhanced precision.
- Lightweight design (2 pounds) and dynamically adjustable headgear for superior comfort.
- Durable PP material construction, offering shock and flame resistance.
- Solar-powered with a replaceable CR2450 lithium battery.

SETUP

Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the 'What's in the Box' section are present and undamaged. Remove any protective films from the inner and outer lenses before use.



Contents of the ARCCAPTAIN welding helmet package, including the helmet, replacement lenses, lithium battery, and storage bag.

Headgear Adjustment

The helmet features a dynamically adjustable headgear with breathable padding for a perfect fit. Adjust the headgear using the following:

- **Head Size Adjustment Knob:** Rotate the knob at the back of the headgear to tighten or loosen the fit around your head.
- **Angle Adjustment Knob:** Adjust the angle of the helmet relative to your face for optimal viewing and comfort.
- **Sponge Cushion:** Ensure the sponge cushion rests comfortably against your forehead.



Diagram illustrating the adjustable components of the helmet's headgear, including the sponge cushion, angle adjustment knob, and head size adjustment.

Battery Installation/Check

The helmet is powered by a solar cell and a CR2450 lithium battery (included). The battery is typically pre-installed. Ensure the battery is securely in place. The solar panel assists in charging and extending battery life.

OPERATING INSTRUCTIONS

Auto Darkening Function

The helmet features a high-end auto-darkening lens with four arc sensors. When an arc is detected, the lens will automatically darken to the selected shade level within 1/25000 seconds, protecting your eyes from intense light.



Illustration of the auto-darkening feature, highlighting the four smart arc sensors and upgraded solar panels for rapid light protection.

Adjusting Settings (Shade, Sensitivity, Delay)

The control knobs on the side of the helmet allow for easy adjustment of welding parameters:

- **Shade Control:** Adjust the darkness level. The lens operates at DIN4 in the light state and DIN5-9/9-13 in the dark state.
- **Sensitivity Control:** Adjust the sensitivity to accommodate different lighting conditions and welding

processes.

- **Delay Control:** Slow down the lens transition from dark to light state (0.1 to 0.8 seconds) to prevent eye fatigue after the arc stops.



Detailed view of the control knobs on the ARCCAPTAIN welding helmet for adjusting delay, shade, and sensitivity settings.

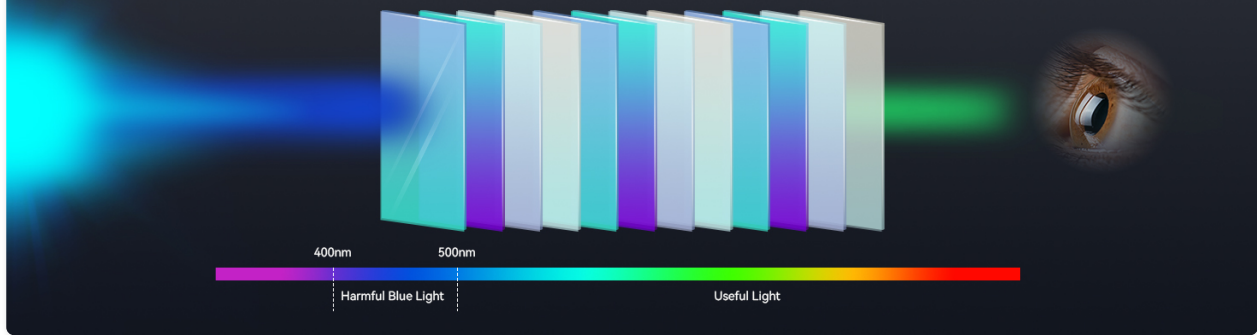
Operating Modes

The helmet supports multiple modes for various applications:

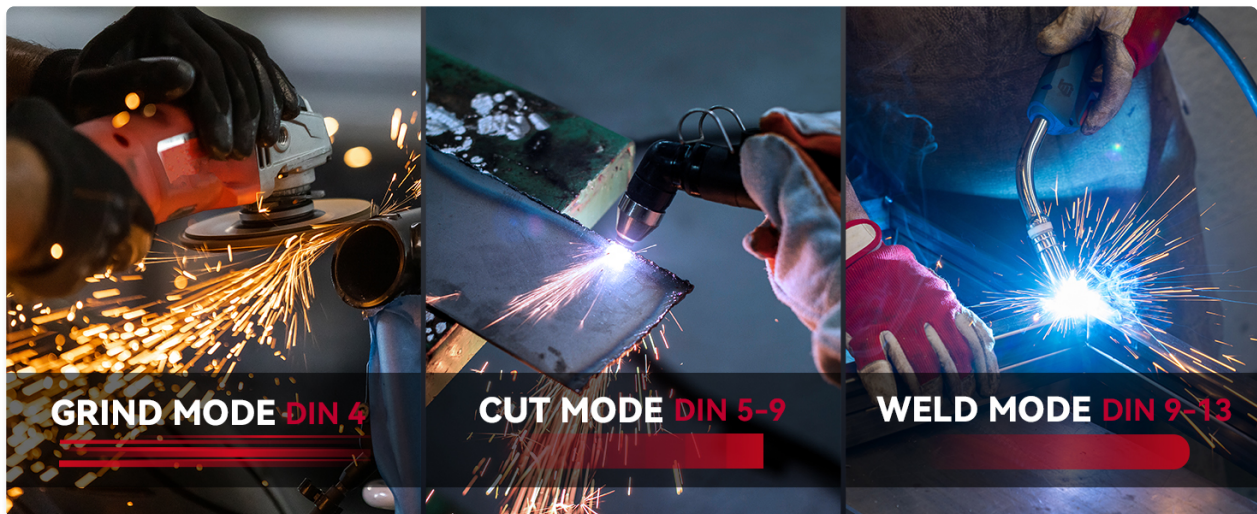
- **Grind Mode:** Set to DIN 4 for grinding operations.
- **Cut Mode:** Set to DIN 5-9 for cutting applications.
- **Weld Mode:** Set to DIN 9-13 for ARC, TIG, and MIG welding.

UPGRADED 12 IN 1 TECHNICAL LENS

Isolate most harmful blue lights



Visual representation of the helmet in Grind Mode, set to DIN 4, suitable for grinding tasks.



Visual representation of the helmet in Cut Mode, set to DIN 5-9, ideal for cutting operations.



Visual representation of the helmet in Weld Mode, set to DIN 9-13, for various welding processes.

True Color and Clearer Vision

The helmet features a top 1/1/1/1 optical clarity lens and advanced true-color technology, providing a significantly enhanced visual experience. This allows for more efficient and precise work, especially when dealing with small details.



Comparison illustrating the superior clarity and true color provided by ARCCAPTAIN's lens technology compared to traditional green-tinted lenses.



An internal view of the welding helmet's lens, demonstrating the clear and unobstructed vision it provides during operation.

MAINTENANCE

Cleaning the Helmet and Lenses

- Regularly clean the helmet shell with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- Clean the inner and outer protective lenses with a soft, lint-free cloth and a mild lens cleaning solution. Do not use harsh chemicals.
- Ensure the arc sensors are clean and free from debris to maintain proper auto-darkening function.

Replacing Protective Lenses

The helmet comes with replacement lenses. Replace them when they become scratched, pitted, or otherwise impair visibility.

- Carefully remove the old protective lens by unlatching its retaining clips.
- Insert a new protective lens, ensuring it is seated correctly and the clips are securely fastened.

Battery Replacement

The CR2450 lithium battery should be replaced when the low battery indicator appears or if the auto-darkening function becomes unreliable. Refer to the battery compartment for specific instructions on replacement.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Lens does not darken when arc is struck.	Low battery; dirty/obstructed sensors; incorrect sensitivity setting.	Replace battery; clean sensors; adjust sensitivity setting.
Poor visibility through the lens.	Scratched/dirty protective lenses; incorrect shade setting.	Clean or replace protective lenses; adjust shade setting.
Helmet feels uncomfortable or unstable.	Improper headgear adjustment.	Adjust head size and angle knobs for a secure and comfortable fit.
Battery compartment catches on glasses.	Headgear positioning.	Slightly reposition the helmet or adjust headgear to avoid interference.

SPECIFICATIONS

Feature	Specification
Brand	ARCCAPTAIN
Model Number	HSH-G999 (LY800F)
Viewing Area	3.94" x 3.66"
Optical Clarity	1/1/1/1
Light State Shade	DIN 4
Dark State Shade	DIN 5-9 / DIN 9-13 (Adjustable)
Arc Sensors	4
Switching Time	1/25000s
Power Source	Solar Cell & Replaceable CR2450 Lithium Battery
Material	Polypropylene (PP) and Polyamide (PA)

Feature	Specification
Item Weight	1.1 Pounds
Product Dimensions	7.09 x 8.66 x 7.87 inches
Certifications	ANSI Z87.1, EN379 CE, CSA Z94.3

WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official ARCCAPTAIN website or contact their customer service directly. Keep your purchase receipt for warranty claims.