

AWithZ H2

AWithZ H2 Handheld Spot Welder Instruction Manual

Model: H2 | Brand: AWithZ

1. SAFETY INFORMATION

Please read and understand all safety instructions before operating the AWithZ H2 Handheld Spot Welder. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear appropriate personal protective equipment, including safety glasses, when operating the spot welder.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not operate the device in wet conditions or expose it to rain.
- Keep children and unauthorized personnel away from the operating area.
- Do not touch the welding tips immediately after use, as they will be hot.
- Use only the provided charging cable and accessories.
- If the device overheats (reaches 60°C), it will automatically shut down. Allow it to cool before resuming operation.
- Do not attempt to disassemble or modify the device. Contact customer support for repairs.

2. PRODUCT OVERVIEW

The AWithZ H2 is a compact and portable handheld spot welder designed for various battery welding applications. It features an integrated design, eliminating the need for external welding pens, and offers precise control through its 1.5-inch LCD display.

Key Features:

- **Integrated Design:** Power source and welding pen are combined into one unit for convenient one-handed operation.
- **Compact and Lightweight:** Weighing only 260g (product weight) and measuring 8 x 3 x 5 cm, it is ideal for home and outdoor use.

- **1.5-inch LCD Display:** Provides real-time information including temperature, mode selection (automatic/manual), preheating time, trigger time, power level (99 adjustable gears), language settings, sound on/off, display brightness, and auto-power off time.
- **Wide Compatibility:** Suitable for welding various cylindrical lithium batteries (18650, 21700, 26650, 32650), mobile phone batteries, button batteries, nickel-hydrogen batteries, and nickel-cadmium batteries.
- **Material Support:** Capable of welding thin nickel-plated sheets, stainless steel sheets, and other materials. Recommended welding thickness is 0.1mm to 0.2mm.
- **Dual Operating Modes:** Offers both automatic and manual dual-pulse output modes for versatile use.
- **Safety Features:** Built-in temperature sensor automatically shuts down the device if it reaches 60°C to prevent damage.

Package Contents:

- AWithZ H2 Handheld Spot Welder
- Nickel Sheets
- Gauze
- Charging Cable (Type-C)



3. SETUP

3.1 Charging the Device

Before first use, fully charge the spot welder. Connect the provided Type-C charging cable to the charging port on the device and to a suitable USB power adapter (not included). The LCD display will indicate the charging status. A full charge typically takes approximately 2.5 hours.

3.2 Power On/Off

To power on the device, press and hold the power button located on the top of the unit. The LCD screen will illuminate. To power off, press and hold the power button again until the screen turns off.

3.3 Initial Settings

Upon powering on, the LCD display will show various settings. Use the adjustment keys to navigate and select options. The main settings include:

- **Mode:** Switch between Automatic and Manual welding modes.
- **Gear:** Adjust the power level from 1.0 to 9.9 (representing 99 adjustable gears).
- **Preheat:** Set the preheating time (e.g., 0-5ms).
- **Trigger Time:** Set the trigger delay time (e.g., 0.5-5s).
- **Language:** Select your preferred language for the interface.
- **Sound:** Turn sound notifications on or off.
- **Brightness:** Adjust the display brightness.
- **Auto-Power Off:** Set the idle time before automatic shutdown for safety.



Image: Diagram illustrating the LCD screen, Type-C charging port, ON/OFF/Option switch, adjustment keys, manual mode button, and welding pins.

4. OPERATING INSTRUCTIONS

4.1 Preparing for Welding

- Ensure the battery surfaces and nickel strips are clean and free from oxidation or debris. Use the provided gauze if necessary.
- Select the appropriate nickel strip thickness for your application. The AWithZ H2 supports 0.1mm to 0.2mm nickel strips.
- Place the nickel strip firmly on the battery terminal where the weld is to be made.

4.2 Adjusting Welding Parameters

Use the adjustment keys to set the welding parameters on the LCD screen:

- **Mode:** Choose between 'Auto' for automatic pulse output or 'Manual' for controlled pulse output.
- **Gear:** Adjust the power level (1.0-9.9) based on the material thickness and desired weld strength. Start with a lower setting and gradually increase if needed.
- **Preheat:** Adjust the preheating time. This helps prepare the material for a stronger weld.
- **Trigger Time:** Adjust the delay before the welding pulse is triggered.



Image: The LCD display showing various adjustable settings such as temperature, mode, preheat, trigger time, and gear level.

4.3 Performing a Spot Weld

1. Hold the spot welder firmly in one hand.
2. Position the two welding tips onto the nickel strip, ensuring they are parallel and make good contact with the material and the battery terminal. Apply gentle, even pressure.
3. In 'Auto' mode, the weld will trigger automatically after the set trigger time once good contact is detected. In 'Manual' mode, press the manual mode button to initiate the weld.
4. Observe the weld. A good weld should be strong and clean. If the weld is weak or burns the material, adjust the power level (Gear) and other parameters accordingly.
5. Repeat the process for each desired weld point.

99 調整可能なギア

「さまざまな厚さの材料や
使用シナリオに適用できます。」

0.1~0.9 ▶



5.0~5.9 ▶



1.0~1.9 ▶



6.0~6.9 ▶



2.0~2.9 ▶



7.0~7.9 ▶



3.0~3.9 ▶



8.0~8.9 ▶



4.0~4.9 ▶



9.0~9.9 ▶



Image: The AWWithZ H2 handheld spot welder in action, demonstrating the welding process on a battery pack with nickel strips.

AWWithZ



Image: A visual comparison highlighting the ease of use of the integrated AWWithZ H2 spot welder compared to traditional models with external welding pens.

4.4 Video Demonstration

Your browser does not support the video tag.

Video: An official product video demonstrating the features, settings adjustment, and practical application of the AWWithZ H2 Handheld Spot Welder for battery welding. This video shows the device in use, including adjusting settings on the LCD and performing welds on battery packs and other materials.

5. MAINTENANCE

5.1 Cleaning

- Regularly clean the welding tips with fine sandpaper or a suitable abrasive to remove any residue and ensure

optimal conductivity.

- Wipe the body of the device with a soft, dry cloth. Do not use harsh chemicals or solvents.

5.2 Charging and Battery Care

- Charge the device regularly, even if not in frequent use, to maintain battery health.
- Avoid completely draining the battery before recharging.

5.3 Storage

Store the spot welder in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case to prevent damage.

6. TROUBLESHOOTING

If you encounter issues with your AWithZ H2 Handheld Spot Welder, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Weak or inconsistent welds	Low power setting, dirty welding tips, poor contact, incorrect material thickness.	Increase the 'Gear' setting. Clean the welding tips. Ensure firm and even contact. Verify material thickness is within recommended range (0.1-0.2mm).
Device not powering on	Battery is depleted, power button not pressed correctly.	Charge the device fully. Press and hold the power button for a few seconds.
Device overheats and shuts down	Continuous heavy use.	Allow the device to cool down. Avoid prolonged continuous welding.
LCD display not working or showing errors	Software glitch, internal issue.	Try restarting the device. If the problem persists, contact customer support.

If these steps do not resolve the issue, please contact AWithZ customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Brand	AWithZ
Model Number	H2
Product Dimensions	8 x 3 x 5 cm
Item Weight	260 g
Color	Black
Material	Plastic Shell

Feature	Detail
Power Source	Battery Powered
Battery Type	Lithium Polymer
Battery Included	Yes
Display	1.5-inch LCD
Adjustable Gears	99 Levels
Charging Port	Type-C

8. WARRANTY AND SUPPORT

AWithZ products are designed for quality and reliability. For warranty information, technical support, or any questions regarding your AWithZ H2 Handheld Spot Welder, please refer to the contact information provided with your purchase or visit the official AWithZ website.

Please retain your proof of purchase for warranty claims.