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AWithZ H1

AWithZ H1 Handheld Battery Spot Welder User Manual

Model: H1

1. INTRODUCTION

Thank you for choosing the AWithZ H1 Handheld Battery Spot Welder. This compact and powerful device is designed for efficient and precise spot welding of various battery types and metal sheets. Featuring 11 adjustable gears and both automatic and manual modes, it offers versatility for different welding needs. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.



Figure 1.1: AWithZ H1 Handheld Battery Spot Welder and Accessories

The image displays the AWithZ H1 Handheld Battery Spot Welder, a USB-C charging cable, a roll of nickel plated sheet, and a piece of frosted paper, all included in the package.

2. SAFETY INFORMATION

WARNING: Read all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/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 or damp conditions.
- Keep hands and fingers clear of the welding tips during operation.
- Do not attempt to weld materials thicker than recommended (0.1-0.15mm or 0.2mm nickel plate).
- Store the device in a dry, cool place away from children.
- If the device exhibits abnormal behavior, such as excessive heat, smoke, or unusual sounds, immediately cease operation and disconnect power.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- AWithZ H1 Handheld Battery Spot Welder
- 2-meter Nickel Plated Sheet
- 1 piece of Frosted Paper
- 1 Type-C Charging Cable
- English User Manual

4. PRODUCT OVERVIEW

The AWithZ H1 features an integrated design for ease of use and portability. Familiarize yourself with the components and indicators:



Figure 4.1: Product Controls and Indicators

This diagram illustrates the various parts of the spot welder, including the Gear Indicator, Manual Mode Indicator, Automatic Mode Indicator, Power Indicator, ON/OFF Key (also manual mode button), Mode Switching Key (also Gear Switching Key), Type-C Charging Port, and the integrated Spot Welding Pen with a 0.8mm tip spacing.

Key Features:

- **Integrated Spot Welding Pen:** No external pen needed, simplifying operation.
- **11 Adjustable Gears:** Allows precise power adjustment for various materials.
- **Automatic and Manual Modes:** Provides flexibility for different welding scenarios.
- **Multiple Protection Measures:** Includes overcharge, temperature, short circuit, and low voltage protection.

5. SETUP

Before first use, ensure the device is fully charged and prepare your materials.

5.1 Charging the Device

Connect the provided Type-C charging cable to the charging port on the device and a compatible USB power adapter (not included). The power indicator lights will show the charging status. A full charge allows for over 200 spot welds.

5.2 Preparing Materials

- Ensure the nickel sheet or material to be welded is clean, smooth, and free of oxidation or debris.
- For battery welding, ensure the battery surface is also clean and flat.
- Practice on the included nickel sheet and frosted paper to find the optimal gear setting and technique before working on your main project.

6. OPERATING INSTRUCTIONS

The AWithZ H1 offers both automatic and manual welding modes.

6.1 Power On/Off

- To power on, press and hold the ON/OFF Key (side button) for 2 seconds. The indicators will light up.
- To power off, press and hold the ON/OFF Key for 2 seconds again.

6.2 Switching Modes (Automatic/Manual)

- After powering on, press and hold the Mode Switching Key (top button) for more than 2 seconds. The indicator light will switch between Manual and Auto modes.

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Video 6.1: H1 Spot Welder Manual Mode Operation

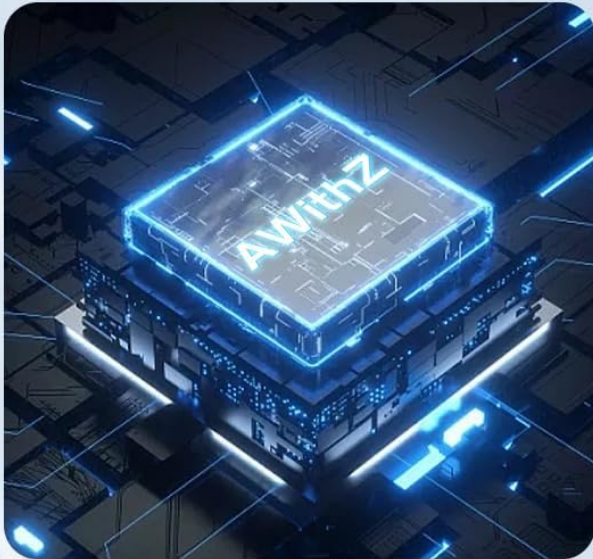
This video demonstrates how to switch the AWithZ H1 spot welder into manual mode and operate it.

6.3 Adjusting Gear Settings

- In either mode, short press the Gear Switching Key (top button) to cycle through the 11 adjustable power gears. The Gear Indicator lights will show the current setting.
- Recommended Gear Settings:
 - **1-3 Gear:** Mobile phone batteries
 - **3-6 Gear:** 0.1mm nickel plate
 - **6-11 Gear:** 0.12-0.15mm nickel plate

Safety Certificated

Safer to welding fast at low temperature



Temperature protection



Multiple Protection



Figure 6.2: Gear Settings and Safety Features

This image illustrates the 11 adjustable gear settings for welding different material thicknesses and highlights the built-in temperature and multiple protection features of the AWITHZ H1 spot welder.

6.4 Welding Process

- Place the nickel sheet onto the battery or material to be welded. Ensure good contact.
- Position the two welding tips firmly and simultaneously onto the nickel sheet. The recommended welding angle is 60 degrees for easier welding.

Welding nickel plated

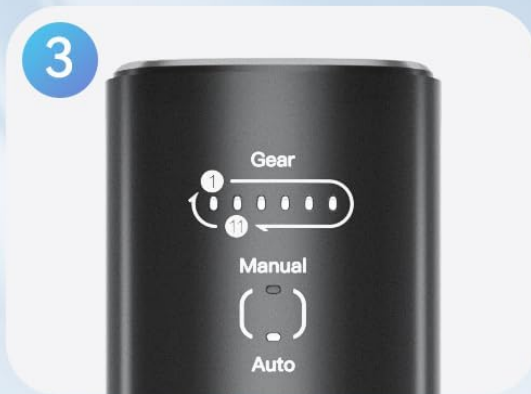
0.1-0.2mm thickness



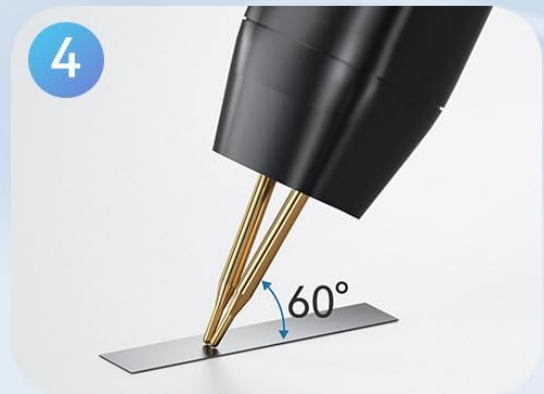
1 Turn on-Press the button 2~3s



2 Welding material--Smooth



3 Select-Gear & Mode



4 60° angle-Easier welding

Figure 6.3: Welding Process Steps

This image outlines the four key steps for welding: 1. Turn on the device by pressing the button for 2-3 seconds. 2. Ensure the welding material is smooth. 3. Select the appropriate gear and mode. 4. Apply the welder at a 60-degree angle for easier welding.

- **Automatic Mode:** The device will automatically detect contact and initiate the weld after a short delay.
- **Manual Mode:** Press the ON/OFF Key (side button) to trigger a weld once the tips are in position.
- After welding, lift the device straight up to avoid damaging the weld.

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Video 6.4: Operation Guide for AWithZ H1 Battery Spot Welder

This video provides a comprehensive guide on how to operate the AWithZ H1 Battery Spot Welder, covering various functions and best practices.

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Video 6.5: How to use the AWithZ H1 Battery Spot Welder

A detailed instructional video demonstrating the usage of the AWithZ H1 Battery Spot Welder for various applications.

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Video 6.6: AWithZ H1 Improve the skills and methods of spot welding

This video offers advanced tips and techniques to enhance your spot welding skills and achieve better results with the AWithZ H1.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your spot welder.

- **Cleaning:** After each use, gently wipe the welding tips with a clean, dry cloth to remove any residue. Ensure the tips are free of oxidation.
- **Storage:** Store the device in a dry, cool environment. Avoid extreme temperatures and direct sunlight.
- **Charging:** Recharge the device when the power indicator shows low battery to prevent deep discharge.

8. TROUBLESHOOTING

If you encounter issues with your AWithZ H1 spot welder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No weld or weak weld	Incorrect gear setting, poor contact, oxidized tips, material too thick.	Increase gear setting. Ensure both tips make firm, simultaneous contact. Clean welding tips. Use appropriate material thickness (0.1-0.15mm or 0.2mm nickel).
Device not turning on	Low battery, power button not held long enough.	Charge the device. Press and hold the ON/OFF Key for 2 seconds.
Device suddenly stops working	Overheat protection activated, low battery, poor tip contact.	Allow device to cool down. Recharge battery. Ensure proper tip contact and clean tips.
Manual mode not activating	Mode switching button not held long enough.	Press and hold the Mode Switching Key (top button) for more than 2 seconds.

If the problem persists after trying these solutions, please contact AWithZ customer support.

9. SPECIFICATIONS

Feature	Detail
Model Number	H1
Brand	AWithZ
Adjustable Gears	11
Welding Modes	Automatic, Manual
Compatible Batteries	18650, 26650, 36650 cylindrical batteries, mobile phone batteries
Welding Thickness (Nickel)	0.1-0.15mm or 0.2mm
Charging Port	Type-C
Battery Type	Lithium Polymer (2 included)
Item Weight	9.6 ounces
Package Dimensions	8.35 x 3.31 x 1.26 inches

Feature	Detail
Manufacturer	AWithZ

10. WARRANTY AND SUPPORT

AWithZ provides a standard return policy for this product. For specific warranty details and to initiate a return or replacement, please refer to the purchase platform's policies or contact the seller directly.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact AWithZ-US customer service through the platform where you purchased the product. You may also refer to the official [User Guide \(PDF\)](#) for additional information.