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AWithZ H1

AWithZ H1 Portable Battery Spot Welding Machine User Manual

Model: H1

1. INTRODUCTION

The AWithZ H1 Portable Battery Spot Welding Machine is a compact and efficient tool designed for DIY battery pack assembly and repair. It features an integrated welding pen, offering both automatic and manual welding modes with 11 adjustable power levels. This manual provides essential information for safe and effective operation of your device.



Image: The AWithZ H1 Portable Battery Spot Welding Machine shown with its included accessories, including the charging cable and nickel strip.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- AWithZ H1 Spot Welding Machine
- USB Type-C Charging Cable
- Nickel Sheets (for practice or immediate use)
- Sandpaper (for cleaning welding tips)
- Multi-Language Manual (this document)

ALL IN ONE

no need for extra spot welding pen



2-IN-1
Dynamic
Design



ONE Hand
Operation

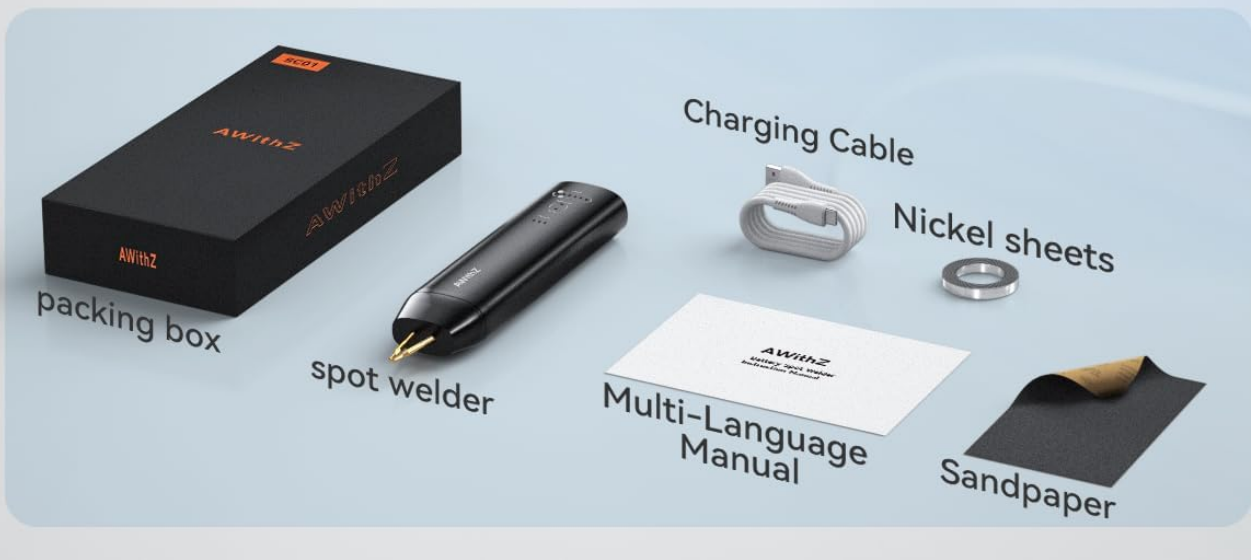


Image: A visual representation of all items included in the AWithZ H1 Spot Welder package, neatly arranged.

3. SETUP AND CHARGING

3.1 Initial Charging

Before first use, fully charge the spot welding machine. Connect the provided USB Type-C charging cable to the charging port located at the bottom of the device and to a suitable USB power adapter (not included). A full charge typically takes approximately 2.5 hours.

3.2 Powering On/Off

To power on the device, press and hold the ON/OFF key for 2 to 3 seconds. The power indicator lights will

illuminate. To power off, repeat the same action.



Image: A detailed diagram illustrating the various controls and indicators on the AWithZ H1 Spot Welder, including the ON/OFF key, mode switching key, gear switching key, and Type-C charging port.

4. OPERATING INSTRUCTIONS

4.1 Selecting Mode and Gear

The AWithZ H1 supports two operating modes: Automatic and Manual. You can switch between these modes by pressing and holding the Mode Switching Key. The device also features 11 adjustable power gears to suit different welding needs.

- **Manual Mode:** Requires you to press a button to trigger each weld.
- **Automatic Mode:** Automatically triggers a weld when the welding pens make proper contact with the nickel strip and battery terminal.

To adjust the power gear, press the Gear Switching Key. The gear indicator lights will show the current power level. Gears 1-3 are suitable for repairing phone chips or small batteries, while gears 4-11 are ideal for creating battery

packs with nickel sheets of 0.15-0.2mm thickness.

Welding nickel plated

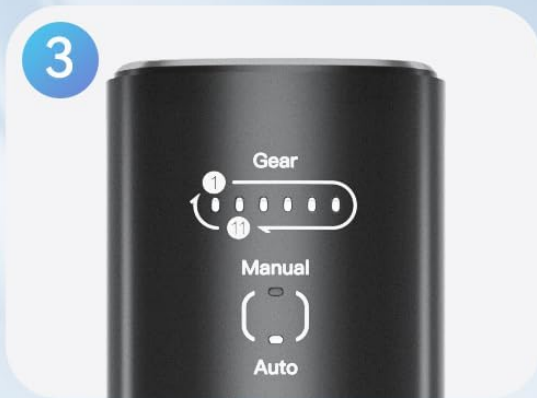
0.1-0.2mm thickness



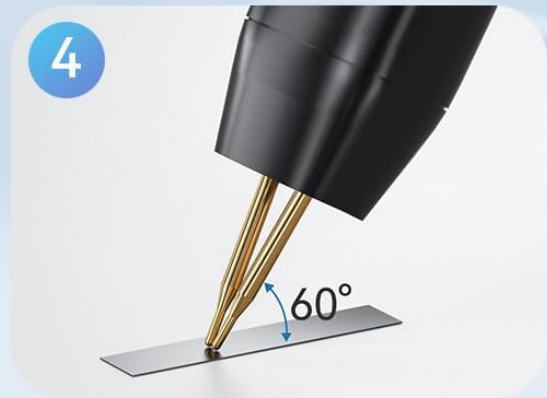
1 Turn on-Press the button 2~3s



2 Welding material--Smooth



3 Select-Gear & Mode



4 60° angle-Easier welding

Image: A four-step guide demonstrating how to prepare and weld nickel-plated material, including turning on the device, ensuring smooth welding material, selecting gear and mode, and maintaining a 60-degree welding angle.

4.2 Welding Process and Tips

The integrated welding pen design ensures a consistent 0.8mm welding distance, eliminating the need for additional adjustments. For optimal results, follow these tips:

- Ensure the welding pen tips are in full contact with the nickel strip and the battery surface.
- Maintain a 60-degree angle between the welding pen and the surface for easier and more effective welding.
- Apply slight pressure during welding to ensure good contact.
- The device is designed for one-handed operation, making it convenient to position nickel sheets on battery electrodes.

Better for ONE-Handed Operation

0.8mm – We had set the best welding distance for you

Integrated spot welding pen



Traditional spot welding pen



Image: A visual comparison highlighting the advantage of the integrated spot welding pen (left) over a traditional setup (right), emphasizing the fixed 0.8mm welding distance for better one-handed operation.

4.3 Supported Applications

This spot welder is ideal for:

- Creating battery packs using cylindrical batteries (e.g., 18650, 26650, 32650).
- Repairing phone batteries.
- Welding nickel sheets with a thickness of 0.15mm to 0.2mm.

2-IN-1 Handheld Battery Spot Welder

Perfect for

Cylindrical battery



18650 / 26650 / 32650

Repair Phone Battery



2.5h Full Charge



Spot welding 200 Times+



Image: An illustration showing the versatility of the AWithZ H1 Spot Welder for various battery types, including cylindrical batteries (18650, 26650, 32650) and phone battery repair, along with its charging and welding capabilities.

5. SAFETY AND PROTECTION

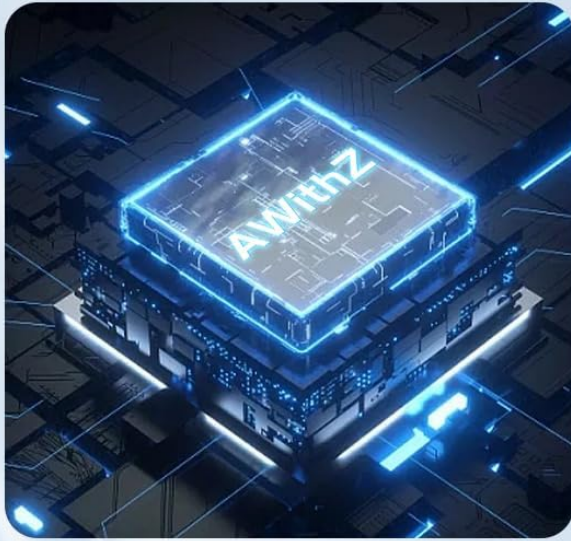
The AWithZ H1 is designed with multiple built-in safety protections to ensure safe operation:

- **Temperature Protection:** Prevents overheating during prolonged use.
- **Multiple Protection:** Includes various safeguards to protect the device and user.

Always operate the device in a well-ventilated area. Avoid touching the welding tips immediately after use as they may be hot. Use appropriate personal protective equipment (PPE) such as safety glasses.

Safety Certificated

Safer to welding fast at low temperature



Temperature protection



Multiple Protection



Image: A graphic detailing the safety certifications, temperature protection, and multiple protection features of the AWWithZ H1 Spot Welder, alongside a visual representation of its 11 adjustable gear levels for welding.

6. MAINTENANCE

6.1 Cleaning the Welding Tips

Over time, the welding tips may accumulate residue or oxidize, affecting welding performance. Use the provided sandpaper to gently clean the tips when necessary. Ensure the device is powered off before cleaning.

6.2 Storage

Store the device in a cool, dry place away from direct sunlight and moisture. Keep it out of reach of children.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor weld quality or no weld.	Insufficient power setting. Dirty or oxidized welding tips. Improper contact with the welding surface. Low battery charge.	Increase the power gear setting. Clean the welding tips with sandpaper. Ensure full contact and proper 60-degree angle. Recharge the device fully.
Device does not turn on.	Battery is completely drained. ON/OFF button not held long enough.	Charge the device. Press and hold the ON/OFF button for 2-3 seconds.
Welds are too strong or burn through material.	Power setting is too high.	Decrease the power gear setting.

8. SPECIFICATIONS

Feature	Detail
Manufacturer	AWithZ
Model Number	H1
Product Dimensions (L x W x H)	8 x 5 x 10 cm
Weight	260 grams
Material	Thermoplastic
Power Type	Battery
Battery Type	1 Lithium-polymer (included)
Voltage	3.7 Volts
Battery Capacity	1800 mAh
Included Components	Spot welding machine
Country of Origin	China

9. WARRANTY AND SUPPORT

For any issues or questions regarding your AWithZ H1 Portable Battery Spot Welding Machine, please do not hesitate to contact AWithZ customer support. Your satisfaction is important to us.

Please refer to your purchase documentation for specific warranty details and contact information.