

User Manual

Please read this manual carefully before use and keep it properly for future reference.

Product Description

This product is a portable smart soldering iron that does not require AC 220V power. It can be used by plugging it into a universal power adapter or a power bank. The soldering iron tip quickly heats up to the melting point of solder. It features an OLED display screen with a clear interface. The compact and exquisite body is easy to carry. The universal soldering iron handle is paired with a metal casing, and the soldering iron tip can be flexibly replaced, making it suitable for various soldering scenarios.

Safety Precautions

To avoid potential electric shock, fire, and personal injury, please read the safety precautions before use.

1. Do not solder circuits that are powered. Ensure the circuit is powered off before soldering.
2. Prevent burns when the soldering iron is heating. Keep children away from it.
3. When replacing the soldering iron tip, ensure the device is turned off and wait for the tip to cool down to avoid hot swapping.
4. Do not use or store the product in high temperatures, dusty environments, or under direct sunlight for prolonged periods.
5. Do not use this product around explosive gases, vapors, or in damp environments.

Specifications and Parameters

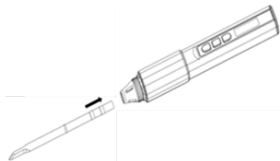
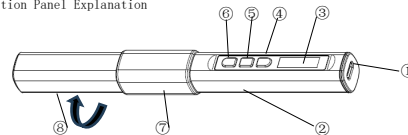


Diagram of Soldering Iron Tip Insertion

General Technical Specifications		
Display	OLED High Definition	
Auto Power Off Time	5 minutes, 10 minutes, 15 minutes, 20 minutes, OFF	
Sleep Mode	Enters sleep mode after 5 minutes of inactivity	
Temperature Range	100°C ~450°C (212°F~842°F)	
Power Supply	DC 5V~28V, defaults to the highest available voltage	
Power	Maximum 96W	
Fast Charge Protocols	PD/QC	
Connector Type	Type-C	
Soldering Iron Tip Temperature Calibration	Supported	
Soldering Iron Tip Model	T12	
Low Battery Warning	✓	
Mechanical Specifications		
Dimensions	196*19*19mm	
Weight	67g	
Materials	Aluminum + ABS + Silicone	
Warranty	One year	
Environmental Conditions		
Operating Environment	Temperature	0~40°C
	Humidity	<75%
Storage Environment	Temperature	-20~60°C
	Humidity	<80%

Usage Instructions

1) Operation Panel Explanation



Number	Name	Function
1	TYPE-C Port	Soldering Iron Power Input
2	The main body	The main body of the soldering iron has an aluminum alloy handle. Hold the handle to perform soldering operations.
3	OLED Display Screen	Shows all interfaces and values.
4	Power Button	1. Press and hold this button for 2 seconds to power on or off. 2. In the main interface, short press this button to enter the function menu. 3. In the usage and settings interface, short press this button to confirm or exit and return to the main interface.
5	Right Arrow Key	1. In the main interface, short press this key to move the menu selection to the right. 2. In the usage and settings interface, short press this key to move the menu to the right or increase the setting parameters.
6	Left Arrow Key	1. In the main interface, short press this key to move the menu selection to the left. 2. In the usage and settings interface, short press this key to move the menu to the left or decrease the setting parameters.
7	Silicone Sleeve	Hold the silicone sleeve with your fingers to perform soldering or measurement operations
8	Cap	When using, rotate the cap to the right to remove it. When not in use, close the cap to protect the soldering iron tip.

2) Setup Instructions

1. Entering the Settings Menu

- Select the settings icon from the menu and press the power button briefly to enter the settings interface.
- Use the left and right direction buttons to choose from the following options: Temperature Unit (TEMP), Auto Power Off Time (APO), Temperature Calibration (CAL), and Return to Main Menu.
- After selecting the desired function, press the power button to enter the specific settings.

2. Exiting the Settings Menu

- To exit the settings interface, choose the return menu and press the power button.

3) Temperature Calibration Instructions

When the user needs to calibrate the temperature of the soldering iron tip, follow these steps:

1. Preparation

- Turn on the soldering iron heating function and bring the tip into contact with a standard soldering iron thermometer.
- Wait for the temperature to stabilize, then observe the temperature difference between the thermometer and the soldering iron display. Record this difference.

2. Calibration Adjustment

- Remove the thermometer and navigate to the temperature calibration interface on the soldering iron.
- Adjust the calibration parameters according to the recorded temperature difference, ensuring the soldering iron display matches the thermometer temperature.

3. Confirmation

- After making adjustments, press the power button to confirm and complete the calibration.

Note:

All soldering irons are calibrated for T12 soldering iron tips before leaving the factory. Perform the above calibration steps only if different soldering iron tips are installed or if a temperature discrepancy is noticed during use.

4) Soldering Iron Operation Instructions

This product features a replaceable soldering iron tip. Insert the provided or compatible tip, and connect the USB power supply. It supports PD/QC fast charge protocols, with the soldering iron defaulting to the highest voltage supplied by the USB.

Operation Method

1. Start Heating

- Enter the soldering iron function interface, and the soldering iron will begin to heat up.

2. Set Temperature

- Use the left and right direction buttons to set the appropriate temperature for the current soldering task.

3. Monitor Values

- Observe the temperature, input voltage, and power values displayed on the screen.

4. Begin Soldering

- Once the temperature is stable, touch the soldering iron tip to the solder point to begin soldering.

Notes:

- When using USB power with a fast-charging adapter, the soldering iron supports 5V to 28V power supply. Generally, the higher the supply voltage, the greater the power and the faster the soldering iron heats up.
- Long press the right button to increase the preset temperature, and long press the left button to decrease the preset temperature.
- The soldering iron will automatically enter sleep mode after 5 minutes of inactivity, reducing the temperature to the minimum. It will quickly reheat when picked up again.
- During use, the casing may conduct some heat, which is normal and safe to use.
- To avoid issues caused by insufficient power supply, it is recommended to use a USB adapter with a power output of 60W or above.

Maintenance

- ◆ Do not attempt to open or repair the product or modify its circuit if you are not a professional.
- ◆ Clean with a damp cloth and mild detergent. Do not use corrosive agents or solvents. Dust or moisture in the test ports may affect reading accuracy.
- ◆ Apply solder to new soldering tips before the first use and after each use to prevent oxidation.
- ◆ Avoid prolonged heating of the soldering iron tip at temperatures above 380° C to ensure the longevity of the tip.

Limited Warranty and Liability

This product comes with a one-year warranty from the date of purchase. However, this warranty does not cover damages caused by accidents, negligence, misuse, alterations, contamination, or abnormal operating environments.

- Any changes to this manual will be made without prior notice.
- The content of this manual is believed to be accurate. If users find any errors or omissions, please contact the manufacturer.
- The company is not responsible for accidents or harm caused by user error.
- The functions described in this manual do not justify the use of the product for special purposes.