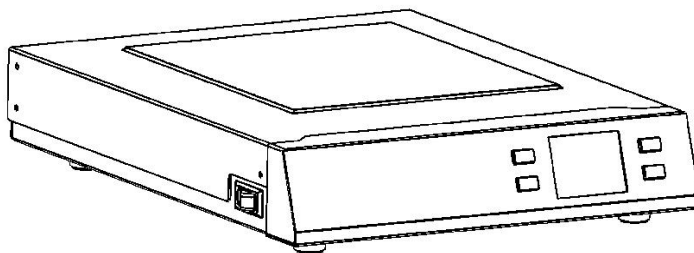




# QUICK 870D Hot Plate

## Instruction Manual



**Thank you for purchasing our products. Please keep the instruction manual properly for future reference.**

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# 1.Safety Instructions



## CAUTION

- During the installation and use of this product, all electrical safety regulations of the country and regions must be strictly observed.
- The power supply must be disconnected when disassembling the product. Do not operate with power on.
- If the product does not work properly, please contact the supplier or our company, and do not disassemble or change the product in any way. We are not responsible for any problems caused by unauthorized maintenance or modification.



## WARNING

- The product should be used away from places where there is magnetic interference.
- Don't install the product in a place where the surface is easy to shake or be impacted, as it may damage the product.
- When the hot plate is in use, the surrounding temperature is extremely high, so be careful not to burn yourself.
- Don't install the product in places where it may be exposed to rain or moisture.
- Don't use in flammable and explosive environments.
- Please place the hot plate on a table covered with fire-resistant and heat-resistant rubber mats to avoid fire.

## **2.Overview**

This hot plate adopts resistance heater and aluminum heat-conducting plate with high heat conduction efficiency. It is widely used in electronic manufacturing, machining, experiment, scientific research, education and other industries. If the hot plate is applied to the auxiliary preheating of electronic circuits with large heat capacity, and then solder the circuits with an soldering station, it can make up for the lack of heat of the soldering station.

## **3.Product Characteristics**

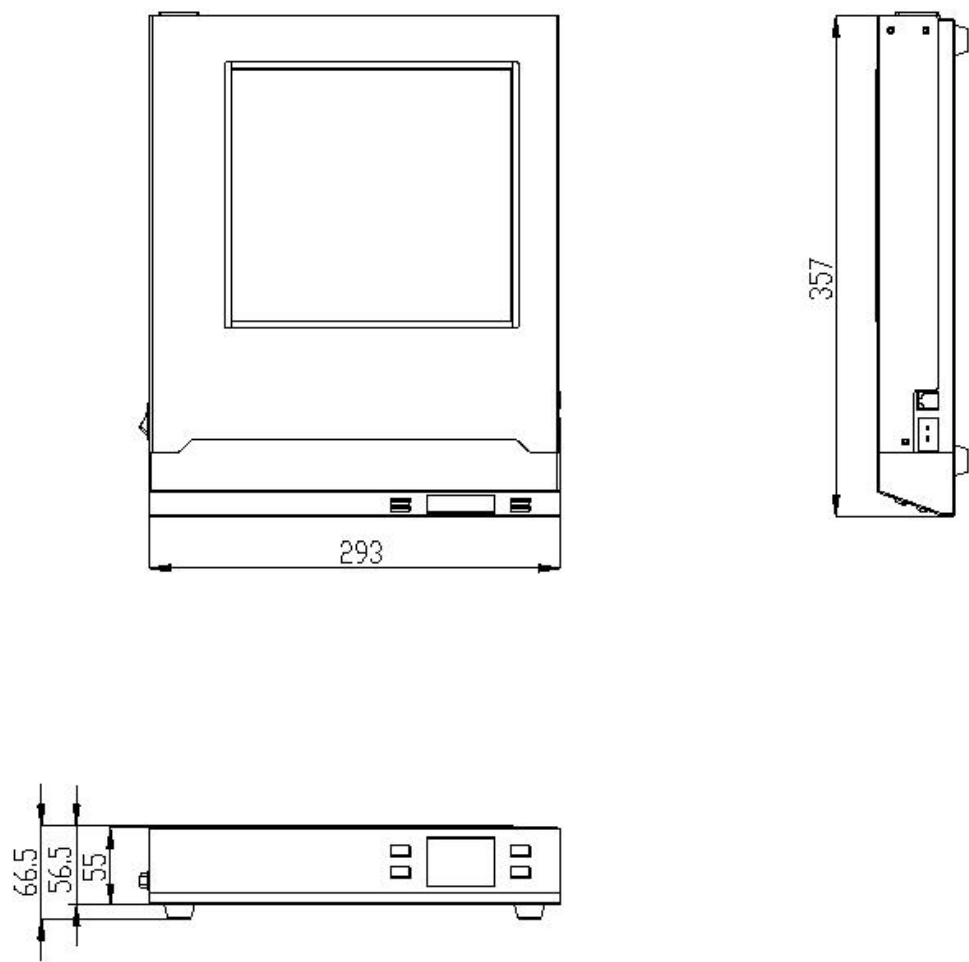
- Three-channel temperature design, fast temperature switching.
- The temperature distribution of aluminum plate is uniform.
- External K-type sensor interface, convenient to test the actual temperature of the heating product.
- Sensor closed loop PID control, TFT liquid crystal display, accurate temperature and sectional preheating temperature setting.
- Digital temperature calibration, convenient and fast.
- Data communication interface, automatic linkage control.

## 4.Product Specifications

Model	870D
Power Consumption	800W
Heating Zone Area	180mmx200mm
Heater Material	Aluminum plate
Temperature Sensor	K-Type Thermocouple
Preheat Temperature Range	50 ~ 350°C
Temperature Stability	±1°C
Voltage	AC 220V
Thermometer Measuring Range	Room temperature ~ 600°C
Thermometer Accuracy	±5°C
Ambient Temperature	0 ~ 40°C
Dimensions(L*W*H)	293*357*66.5mm
Weight	About 5.1kg

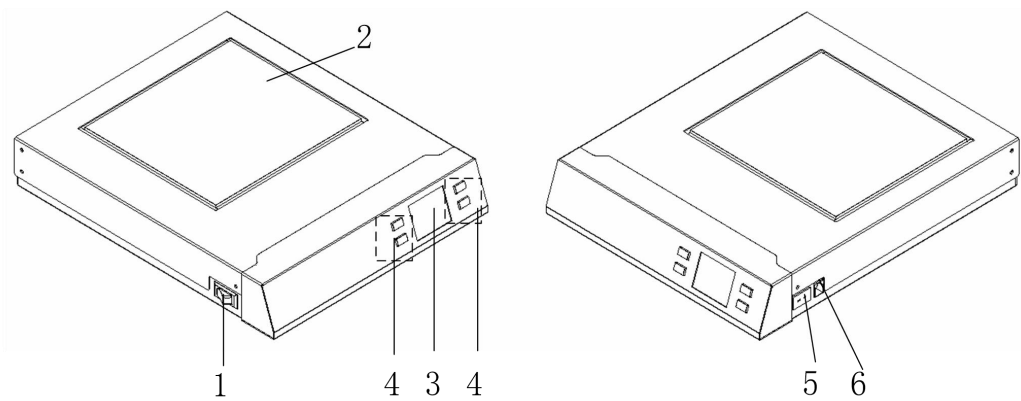
5.Product Specifications

5.1. Dimensions





Unit: mm

5.2. Part Descriptions



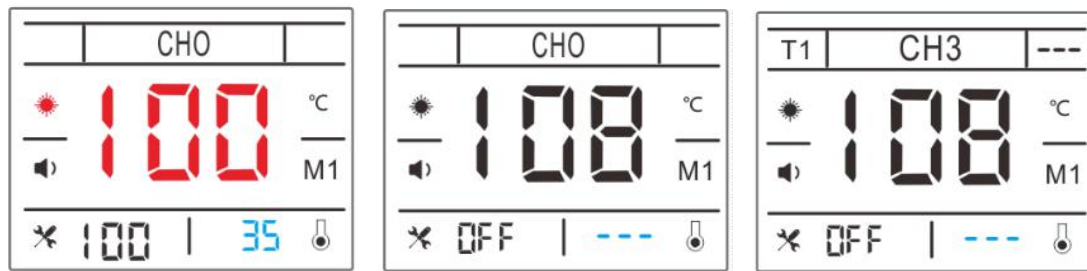
NO.	Part Descriptions
1	Power Switch
2	Preheating Area
3	Display
4	Key
5	Externally Connected K-type Test Sensor
6	RS485 Communication Interface










### 5.3. Key Descriptions

Key	Function Descriptions
	<ol style="list-style-type: none"><li>1. Click on the main interface to switch between CH1, CH2 and CH3</li><li>2. Other interfaces, return / cancel</li></ol>
	<ol style="list-style-type: none"><li>1. Press on the main interface, Switch</li><li>2. Other interfaces, Forward / Confirm</li><li>3. Long press 2S on the main interface to enter the setting interface</li></ol>
+ and - key	Enter the temperature calibration interface
+	<ol style="list-style-type: none"><li>1.In the main interface, the parameter value increases</li><li>2.Setting interface, Page up</li></ol>
-	<ol style="list-style-type: none"><li>1.In the main interface, the parameter value decreases</li><li>2.Setting interface, Page down</li></ol>



## 5.4. Function Descriptions of the Main Interface





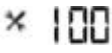
Symbols	Descriptions	Symbols	Descriptions
CHO	Display channel		Buzzer off
	Long red light indicates the heating state; The red and black lights flash alternately, indicating that the set temperature is reached; The blue light indicates the cooling state.		Current temperature setting value
	Buzzer on		Press  to turn off temperature control
	Display the test value of the external temperature sensor		No external temperature sensor
T1/T2	Temperature zone 1 and temperature zone 2		Count down

## 6.Operation Methods

- Insert the power plug into the power socket consistent with the label value.
- Turn on the power switch and the hot plate will start to heat up.
- To change the set temperature, adjust the keys on the panel.
- After a few minutes, the temperature will reach the set value and stabilizes at the set value.
- After work, please turn off the power supply. The preheating plate will no longer be heated, and its temperature will slowly drop to room temperature.

## 7.Menu Setting

### 7.1. Temperature Setting

The default temporary channel at startup is CH0. Click  to switch to CH1, and click  successively to switch to CH2 or CH3. The temperatures of CH1-CH3 are 200 °C、 300 °C and temperature zone. To change the set temperature and display the set temperature value  100 , + or - key can be used to change the temperature value. The temperature range is 50 - 500 °C.


#### Temperature Rise

Short press + key, the temperature will rise by 1 °C. Long press + key, the temperature will rise rapidly. When the required temperature is reached, release + key.



#### Temperature Drop


Short press - key, the temperature will drop by 1 °C. Long press - key, the temperature will drop rapidly. When the required temperature is reached, release - key.


### 7.2. Parameter Setting

Long press  key to enter the setting interface.

### 7.2.1. Channel Settings


1) Press  key to select the channel bar, and continue to press  key to select the parameter bar.

2) Press + or - key in the channel bar to select CH1; In the parameter bar, set the temperature and press  key to save.

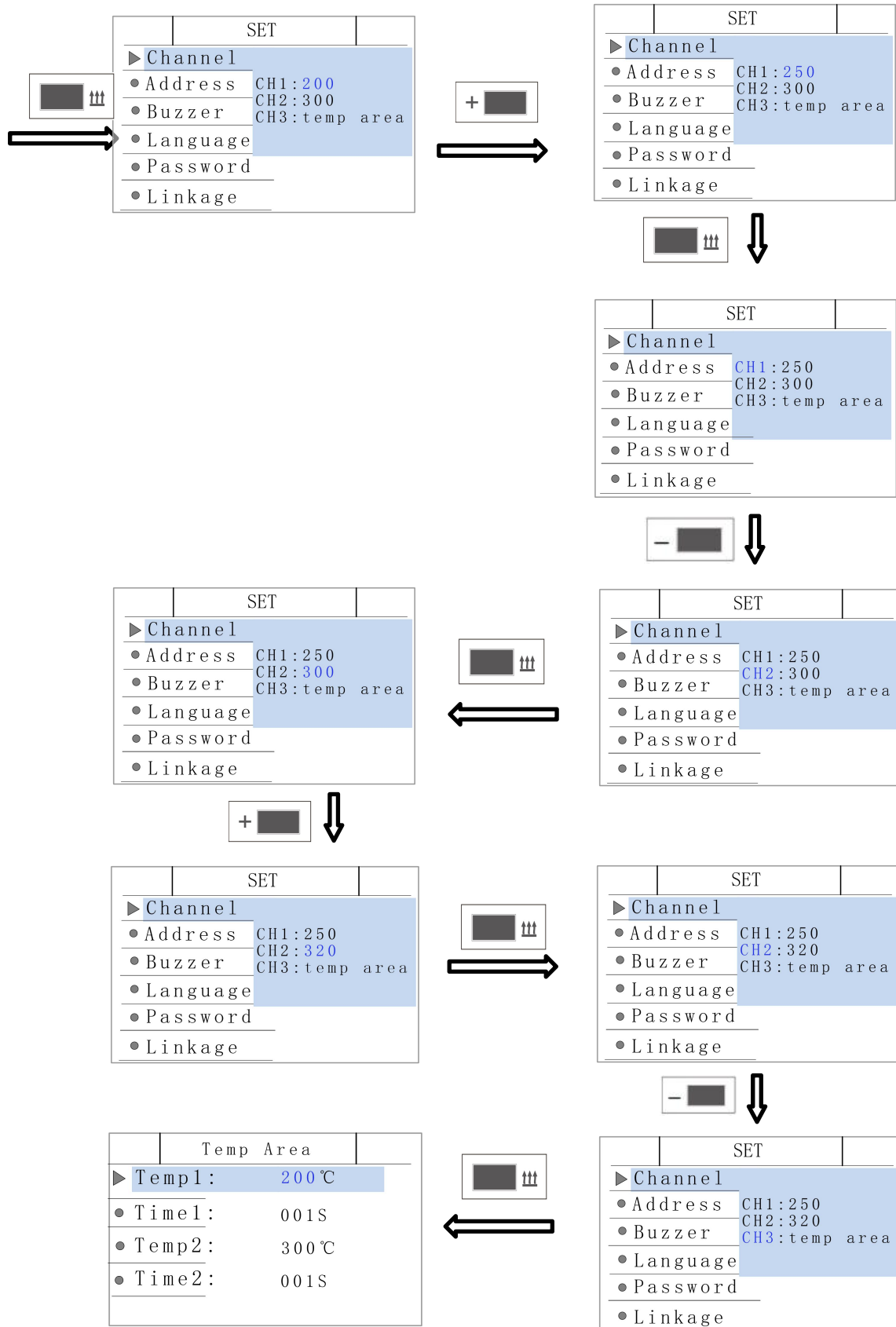
3) In CH3, select the temperature zone and press  key to enter the temperature zone setting interface to realize the function of segmented temperature control. Two temperature ranges can be set, in which the temperature and time can be adjusted.

The range of temperature 1 is 50 °C - 200 °C, the range of temperature 2 is 200 - 350 °C, and the range of time 1 and 2 is 000 - 600 seconds.



When temperature 1 reaches the set temperature, the countdown starts (time 1 is set according to requirements). When the countdown ends, it will enter temperature 2.

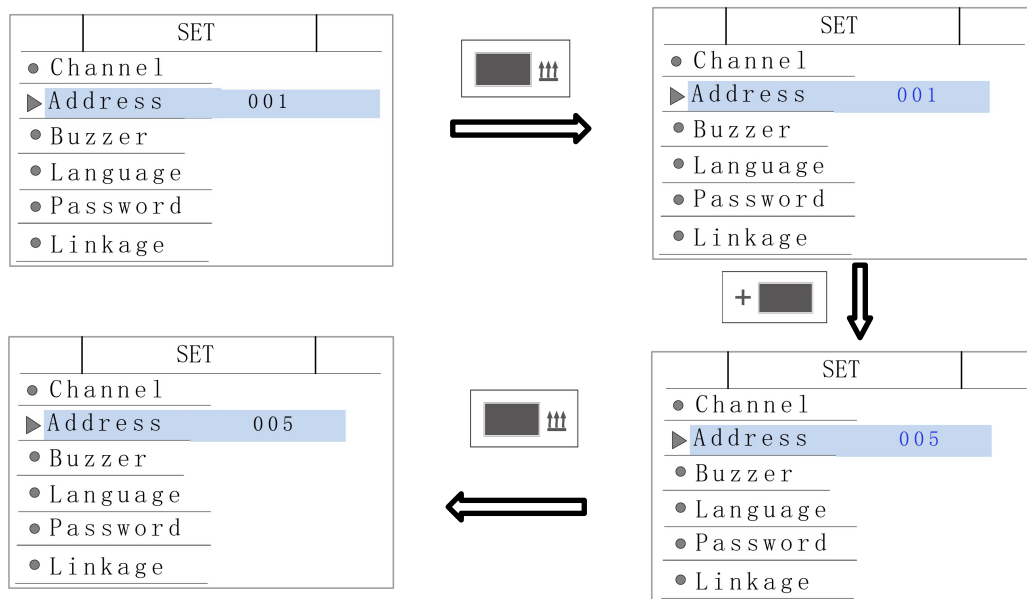
When temperature 2 reaches the set temperature, the countdown starts (time 2 is set according to requirements). When the countdown ends, it will return to temperature 1 and remains there. If you want to continue the above functions, press  key in the main interface to turn off and turn on again.

4) Press  key to go back level by level until you return to the main interface.





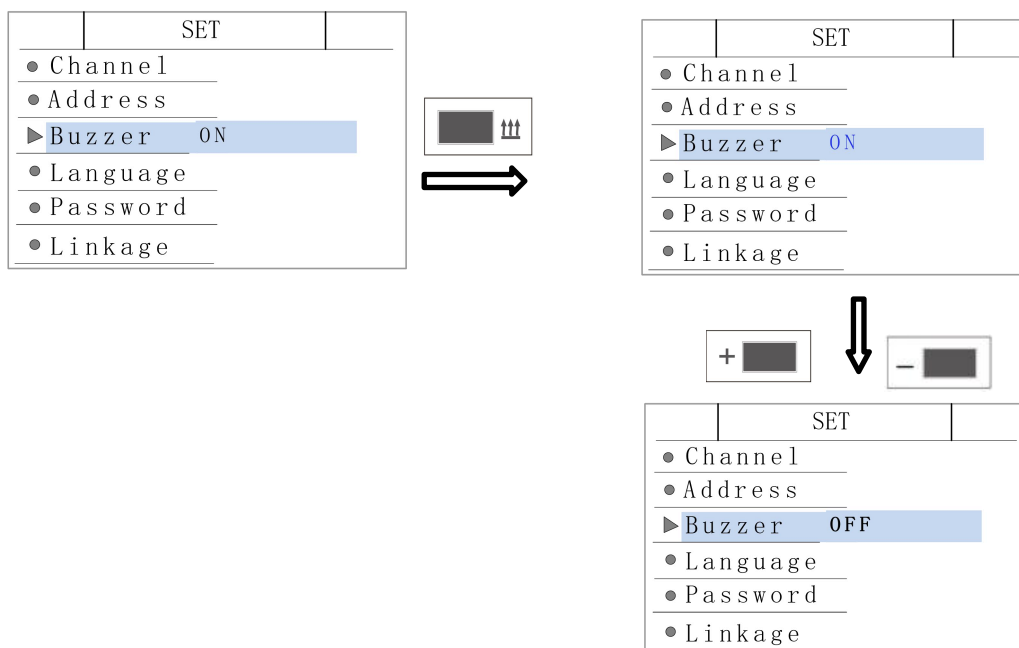
## 7.2.2. Address Setting

- 1) Press + or - in the main menu bar to switch to “Address”.
- 2) Press  key to select the parameter and the parameter will turn blue; press + or - key to set the communication address, and the communication address range is 001 to 255.
- 3) Press  key to save and return to the main menu.





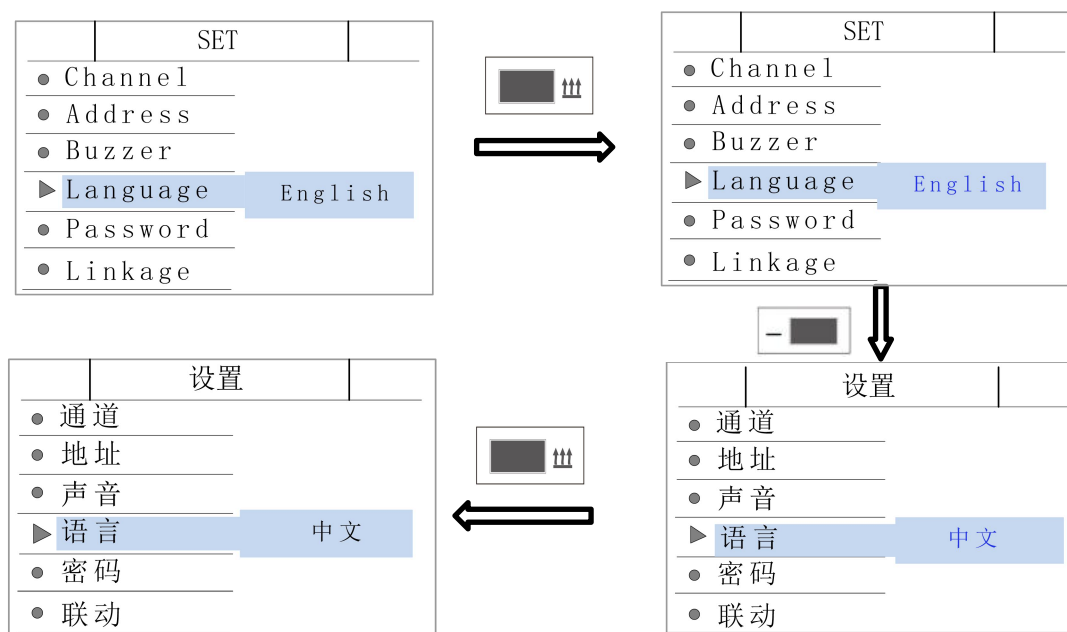
## 7.2.3. Key Tone Setting

- 1) Press + or - on the main menu bar to switch to “Key Tone”.
- 2) Press  key to select the parameter, and the parameter will turn blue; press + or - key to turn the key tone ON or OFF.
- 3) Press  key to save and return to the main menu.





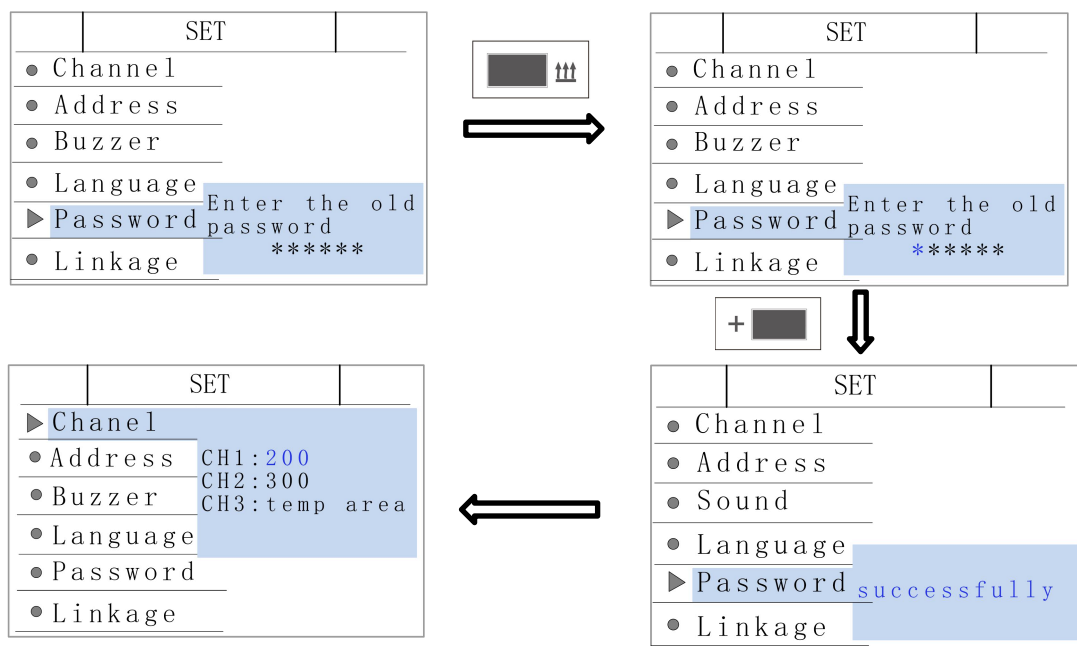
## 7.2.4. Language Setting

- 1) Press + or – key on the main menu bar to switch to “Language”.
- 2) Press  key to select the parameter, and the parameter will turn blue; press + or - key to select “Chinese” or “English”.
- 3) Press  key to save and return to the main menu.





## 7.2.5.Password Setting



- 1) Press + or - key in the main menu bar to switch to "Password".
- 2) Press  key to input the old password (Default 000000) and then enter the new password input interface. Press + or - key to change the value and press  key to confirm each value entered.
- 3) After the new password is input successfully, the setting interface will display "Set Successfully", and then directly go back to the channel menu.
- 4) The new password takes effect after shutdown and restart or back to the main interface.




## 7.2.6. Linkage Setting

- 1) Press + or - key on the main menu bar to switch to "Linkage".
- 2) Double press  key to select "M1" (Mode 1) and M1 will turn blue. Then press  key to confirm.


M1: No linkage mode.

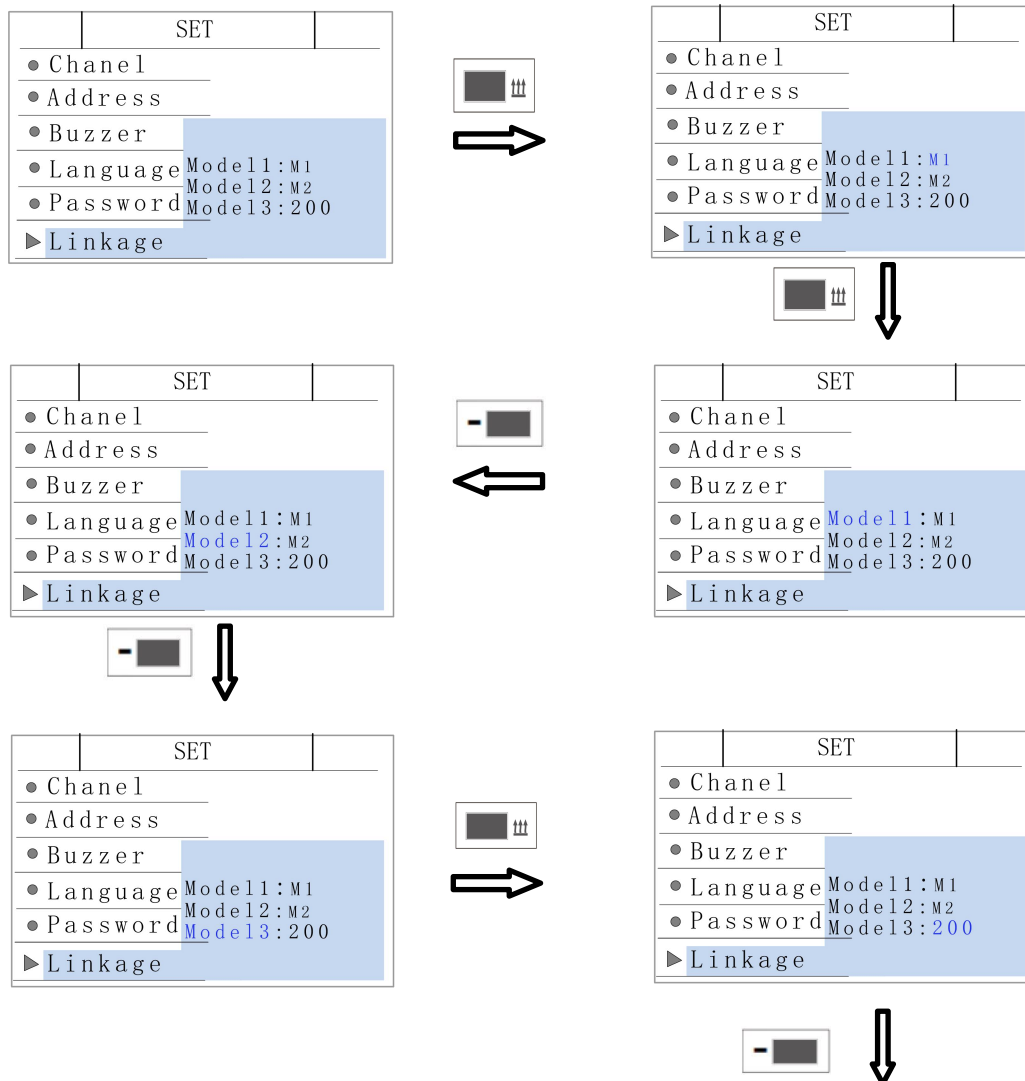
3) Press - key to select “M2” (Mode 2), and press  key to turn M2 blue. Then press  key to confirm.

M2: External equipment can control the hot plate.

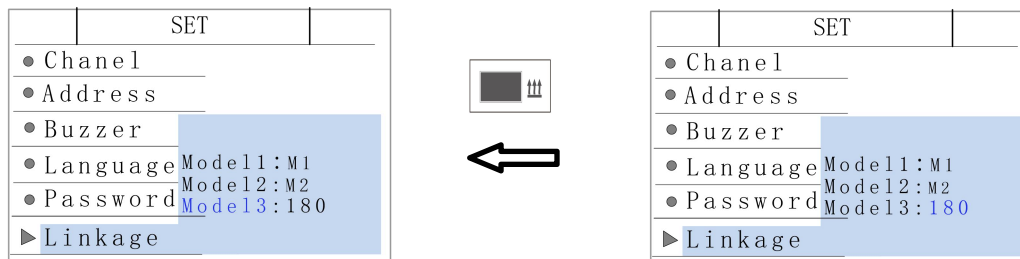
4) Continue to press - key to select “M3” (Mode 3). Press  key, and the value of mode 3 will turn blue. Select the appropriate temperature through pressing +/- key.

M3: The hot plate can control external equipment. The temperature range is 50-350°C.

5) Press  to return to the main interface.







## 8. Temperature Calibration


Note:

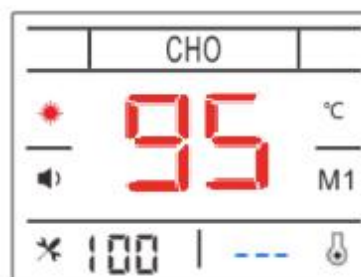
- 1) Only when the displayed temperature is consistent with the set temperature can the temperature calibration be performed.
- 2) Long press + and - key for 2S to enter the temperature calibration interface.

Example:

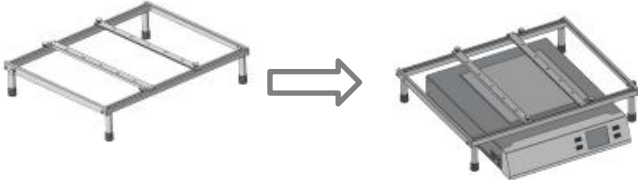
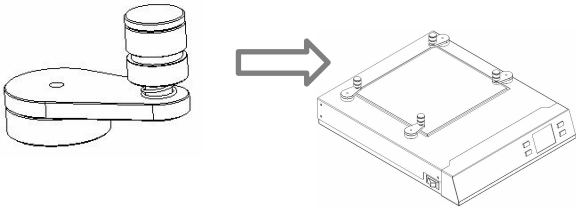
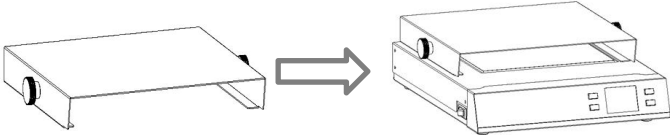
- a) The product needs to be preheated at 100°C, so we set the temperature to 100°C.



- b) Due to the material of the hot plate and environmental factors, when the temperature is set to 100°C, the temperature above the hot plate is measured to 95°C with a thermometer. In the temperature measurement calibration interface, enter the value 95, and press  to exit.



## 9.Accessory Descriptions

Parts	Characteristics	Descriptions
Special-shaped Support	1) Height adjustable; 2) Easy to use.	 <p>1)Place the special-shaped support above the preheating plate.</p> <p>2)Rotate the column base of the special-shaped support to adjust the height of the special-shaped support.</p> <p>3)Loosen the positioning knob on the PCB fixing bracket, and move the fixing bracket. Then tighten the positioning knob after fixing the PCB.</p>
Simple Support	1)Small and flexible; 2)Take up no space; 3)Easy to use; Strong magnet attraction; Securely fastened.	 <p>1) According to the size of PCB, select the appropriate placement position, and directly place the simple support on the hot plate.</p> <p>2)Place the PCB at the adjustment spring of the simple support and clamp it to fix the PCB.</p>
Reflow Hood	1)Economical and practical; 2)Energy saving, consumption reduction; 3)Stable performance.	 <p>Directly placing the reflux hood on the preheating plate can be used as a small reflow oven</p>

## Warranty Card

- The warranty period of this product is calculated from the date of purchase. During the warranty period, if the product breaks down during normal use, show the original warranty card and enjoy free service in the authorized repair company (or our company). Please keep the purchase certificate and this warranty card and show it before maintenance.
- During the warranty period, the following repairs need to be paid:
  - a.Unable to offer valid warranty card or certificate;
  - b.The purchase date, sales company and other items are not completely filled in or the warranty card is altered;
  - c.Damage caused by failure to follow the use methods and precautions in the manual;
  - d.Damage caused by disassembly, repair and modification of products without authorization of the manufacturer;
  - e.Replacement of vulnerable and consumable parts.
- All items of the warranty card shall be completely filled in by the agent or user to obtain a 12-month warranty period.
- Please keep this warranty card properly. It will not be re-offered after.

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Zone, Jiangsu, China

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FAX: 86-519-86558599

POSTCODE: 213167

WEBSITE: [www.quick-global.com](http://www.quick-global.com)

## Warranty Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

## Warranty File Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Address : \_\_\_\_\_

Postcode: \_\_\_\_\_

Telephone: \_\_\_\_\_

Contact Person: \_\_\_\_\_

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