

Preheater

Instruction Manual



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

Contents

1. Safety Instructions.....	1
2. Overview.....	2
3. Product Characteristics.....	2
4. Product Specifications.....	3
5. Functional Descriptions.....	4
5.1. Dimensions.....	4
5.2. Part Descriptions.....	5
5.3. Key Descriptions.....	6
5.4. Function Descriptions of the Main Interface.....	7
6. Operation.....	8
7. Temperature Settings.....	8
8. Menu Settings.....	9
8.1. Channel Settings.....	9
8.2. Address settings.....	11
8.3. Buzzer Settings.....	12
8.4. Language Settings.....	13
8.5. Password Settings.....	14
8.6. Linkage Settings.....	15
9. Temperature Calibration.....	17

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.
- Don't install the product in places where it may be exposed to rain or moisture.
- When using, the surrounding temperature is extremely high, pay attention to prevent scalding.
- Don't use in flammable and explosive environments.
- Please place the product on the table covered with fire-proof and heat-resistant rubber mat to avoid causing fire.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

This preheater uses infrared non-contact heating, which is suitable for preheating products such as components and PCB boards.

3.Product Characteristics

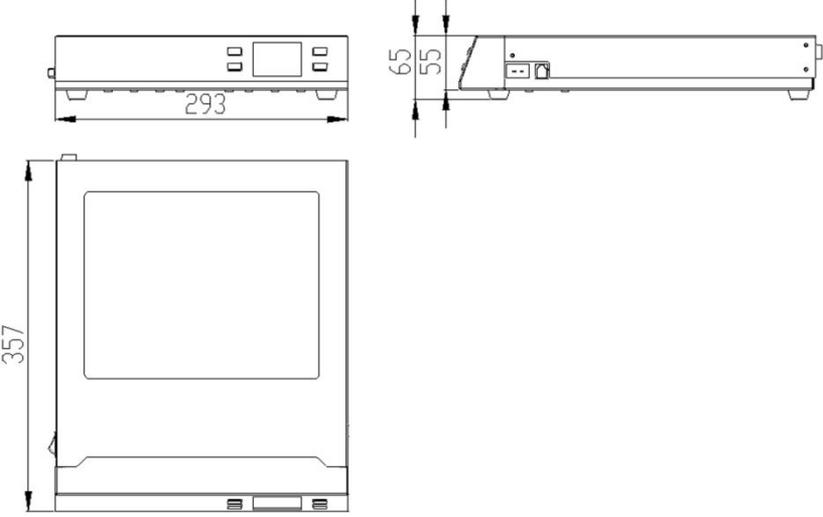
- High infrared heating, fast heating and high efficiency.
- With temperature measurement function, convenient to measure the real-time temperature of PCB.
- Temperature memory function, three channels design, fast to switch temperature.
- Sensor closed loop PID control, accurate and stable temperature.
- Can be used for preheating circuit boards and other processes requiring integral and uniform heating.
- With the communication port, can be connected with other equipment for linkage control.
- High temperature resistant glass surface, easy to maintain and use.

4.Product Specifications

Model		
Power consumption	1250W	1350W
Voltage	AC 110V	AC 220V
Heating area	2300*1900mm	
Heating material	Carbon fiber quartz heater	
Temperature sensor	K-type thermocouple	
Preheating temperature range	50~350°C	
Temperature stability	±1°C	
Sensor measuring	Room temperature~600°C	
Accuracy of thermometer	±5°C	
Operation ambient	40°C	
Dimensions (L*W*H)	293*357*65mm	
Weight	About 5.0kg	

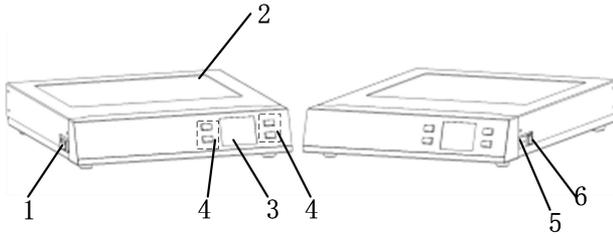
5.Functional Descriptions

5. 1. Dimensions



Unit: mm

5. 2. Part Descriptions



NO.	Part Descriptions
1	Power switch
2	Preheating area
3	Display part
4	Button
5	External port for K-type sensor
6	RS485 communication port

5. 3. Key Descriptions

Key	Function Descriptions
	<p>1.Press in the main interface to switch between CH1, CH2 and CH3.</p> <p>2.In the setting interface: Return/Cancel.</p>
	<p>1.Press in the main interface to turn on/off.</p> <p>2.In the setting interface : Advance/Save.</p> <p>3.In the main interface, long press 2S to enter the setting interface.</p>
+ and -	Press at the same time to enter temperature calibration interface.
+	<p>1.In the main interface, press to increase the parameter value.</p> <p>2.In the setting interface : Page up.</p>
-	<p>1.In the main interface, press to decrease the parameter value.</p> <p>2.In the setting interface : Page down.</p>

5. 4. Function Descriptions of the Main Interface



Symbols	Descriptions	Symbols	Descriptions
CHO	Display channel.		Buzzer off.
	1.Red: heating state. 2.Alternately flashing red and black: the set temperature is reached. 3.Blue: cooling state.		The current set temperature value.
	Buzzer on.		Press  to turn off the temperature control.
	Display the temperature of external K-type thermometer.		External K-type thermometer disconnected.
T1/T2	Temperature zone 1 and temperature zone 2		Countdown

6.Operation

- 1) Insert the power plug into the power socket consistent with the label value.
- 2) Turn on the power switch and the preheater will start to heat up.
- 3) To change the set temperature, adjust the keys on the panel.
- 4) After a few minutes, the temperature will reach the set value and stabilizes at the set value.
- 5) 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.Temperature Settings

The default temporary channel at startup is CH0. Press  to switch to CH1, and press  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 , "+" or "-" key can be used to change the temperature value. The temperature range is 50 - 350 °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.

8.Menu Settings

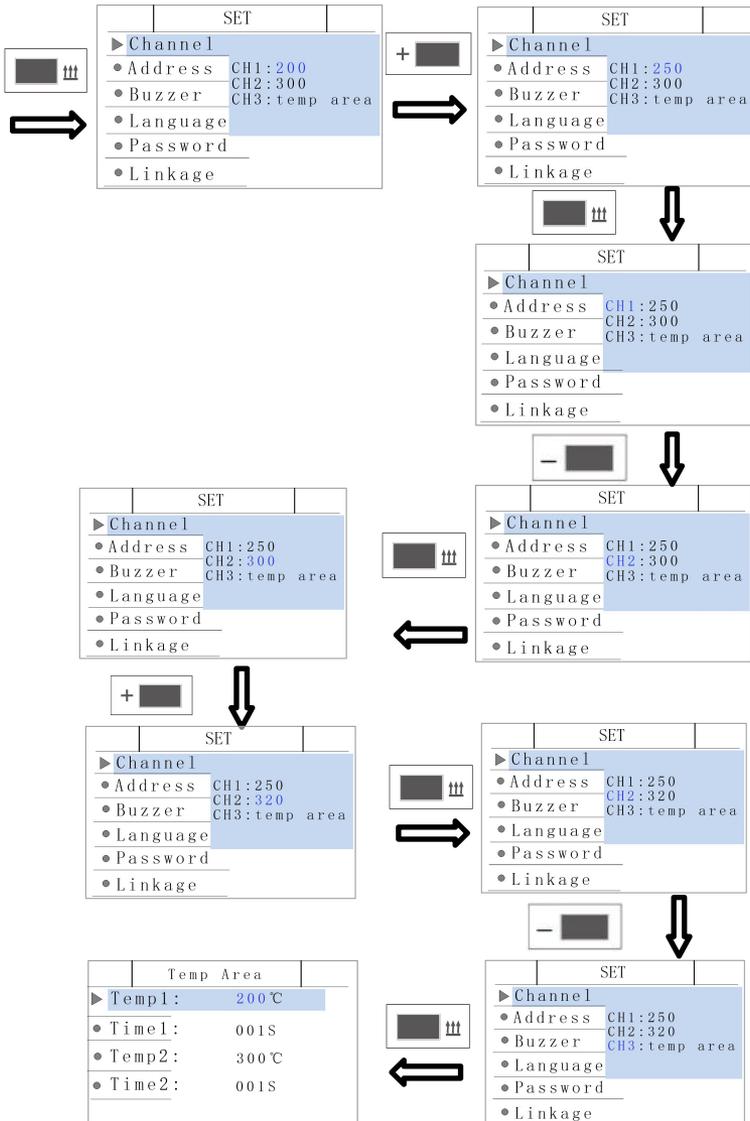
Long press  to enter the setting menu.

8. 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 channels; 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°C - 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 your requirement), 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 your requirement), 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 it off and turn it on again.

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



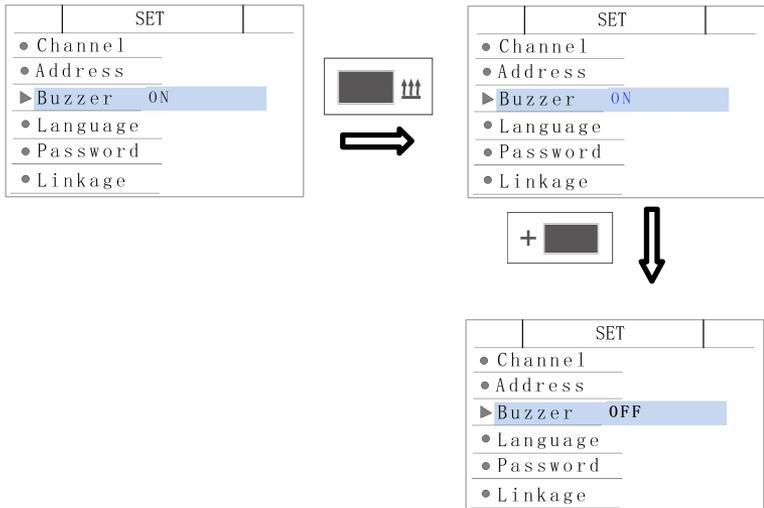
8. 2. Address Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Address.
- 2) Press  to select the parameter and the parameter turns blue, press "+" or "-" to set the address value, which ranges from 001 to 255.
- 3) Press  to save.



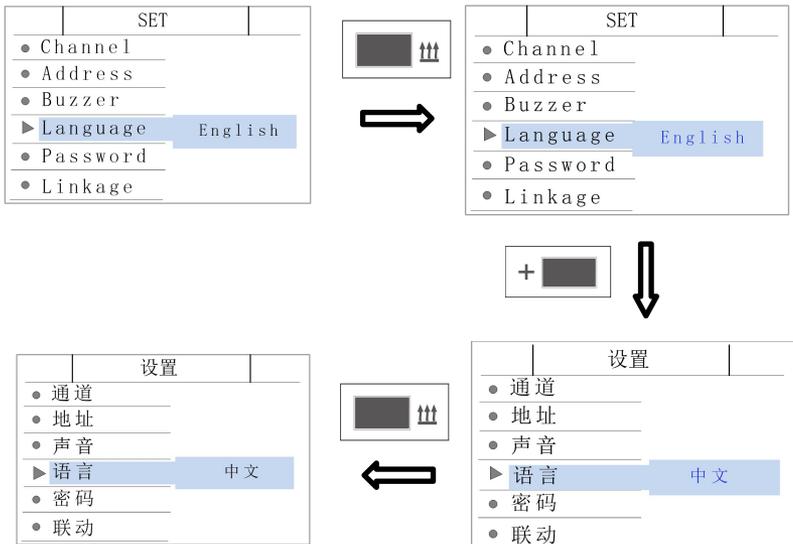
8. 3. Buzzer Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Buzzer.
- 2) Press  to select the parameter and the parameter turns blue, press "+" or "-" to turn the buzzer on or off.
- 3) Press  to save.



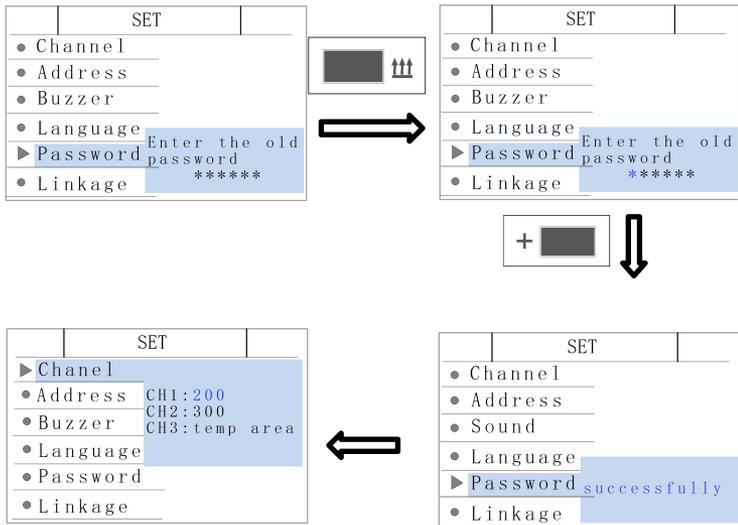
8. 4. Language Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Language.
- 2) Press  to select the parameter and the parameter turns blue, press "+" or "-" to select English and Chinese.
- 3) Press  to save.



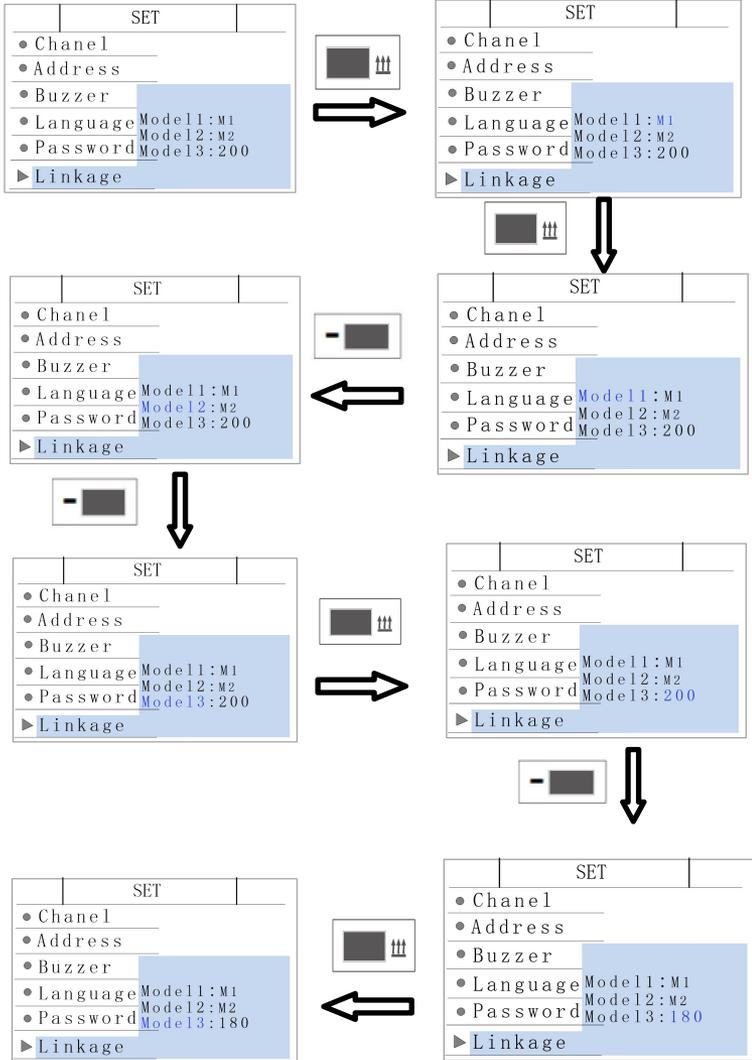
8. 5. Password Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Password.
- 2) Press  to input the old password (default 000000) and enter the new password setting interface. Press "+" or "-" to change the value, each time you input a value, you need to press  to confirm.
- 3) After the new password input is completed, the screen will display "Successfully". Then it will be directly back to the Channel.
- 4) The new password takes effect after it is shut down and restarted or return to the main interface.



8. 6. Linkage Settings

- 1) Press "+" and "-" on the main menu to switch the menu to Linkage.
- 2) Double click  to select mode 1, M1 turns blue, and press  again to confirm. M1: There is no linkage.
- 3) Press "-" to select mode 2, press , M2 turns blue. Press  again to confirm. M2: External equipment controls the preheater.
- 4) Press "-" to select mode 3, press , the value of mode 3 turns blue, press "+" or "-" to select appropriate temperature. M3: Preheater controls external equipment, with optional temperature range of 50 ~ 350 °C.
- 5) Press  to return to the main interface.



9. Temperature Calibration

Note:

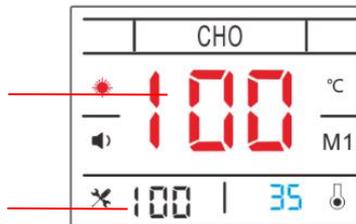
- 1) When the display temperature is consistent with the set temperature, the temperature can be calibrated.
- 2) Long press "+" and "-" for 2s to enter the temperature calibration interface.

For example:

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

Display temperature

Set temperature



b) When the temperature is set to 100 °C due to the material of the preheating plate and environmental factors, the temperature above the preheating plate is measured to be 95 °C by the thermometer. Input the value of 95 in the temperature calibration interface, and press **↑↑↑** to exit.

