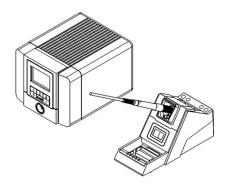


VECTECH S8 Soldering Station

Instruction Manual



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

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1.Safety Instructions



- 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

- 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 place the product in places where it may be exposed to rain or moisture.
- The product should be used away from places where there is magnetic interference.
- Don't use in flammable and explosive environments.
- Pay attention to the air outlet and its surroundings. High temperature operation, be careful of burns.
- Don't knock workbench with the soldering pencil to remove residual flux, which may seriously damage the soldering pencil.
- When the soldering pencil is not in use, please turn off the power to prolong its life.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

This product is an intelligent precision soldering station. It adopts LCD display and mechanical buttons, making it more comfortable to use. Accurate and sensitive temperature sensor, fast heating and thermal recovery speed, compact soldering tip.

3. Product Characteristics

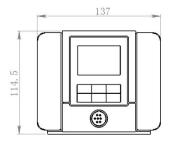
- Can preset process parameter in three channels, more practical.
- Celsius and Fahrenheit interchangeable.
- ESD design, ESD test function available.
- Resistance type heating element, integrated plug-in soldering tip.
- Only 3S for temperature rise from room temperature to $300\,^{\circ}\text{C}$, rapid heating.
- Two interface options for digital curves.
- Soldering tip vibrating when reaching the setting temperature.

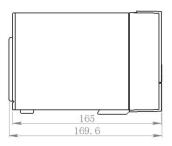
4.Product Specifications

Product type	S8
Display	LCD
Power consumption	150W(Max)
Voltage	AC 110V/220V
Temperature range	100°C~450°C/212°F~842°F
Temperature stability	±2°C (No load)
Ambient temperature	0~40°C
Tip to ground potential	<2mV
Tip to ground resistance	<2Ω
Dimensions (L×W×H)	169.6*137*114.5mm
Weight	About 2.9 Kg

5.Functional Descriptions

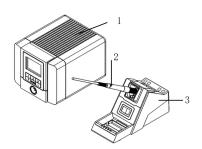
5. 1. Dimensions





Unit: mm

5. 2. Part Descriptions



NO.	Part Descriptions
1	Main unit
2	Handle
3	Holder

5. 3. Key Descriptions

Key	Function Descriptions
	1. Press on the main interface to switch between CH1, CH2 and CH3 2. Press "2" and "3" keys at the same time on the main interface to enter the menu setting interface. Press "1 "and "3" keys at the same time to enter the temperature calibration interface 3. Press "1" key on the menu setting interface to turn the page, and press"2" key to save,and "3" key to return
+	1.Main interface: temperature up 2.Setting interface: page down
_	Main interface: temperature down Setting interface: page up

5. 4. Function Descriptions of the Main Interface





Symbols	Descriptions	Symbols	Descriptions
СН0	Temporary channel	A	Black indicates ESD OFF, Red indicates ESD ON
**	Heating state	°C/°F	°C/°F interchangeable
1 # 2 = 3 !!	1.Indicates the heating state 2.Indicates that the set temperature is reached 3.Indicates the cooling state	 	Blue indicates the soldering prompt is ON. Red indicates the handle is vibrating. Black indicates the soldering prompt is OFF.
◄)	Buzzer on	■x	Buzzer off
G	No password lock	G	Password lock

6. Use of Holder and Sponge

- 1) Wet the cleaning sponge and then squeeze it dry.
- 2) Place the sponge into the groove of the holder base.
- 3) In the process of use, if the sponge becomes dry, please add water appropriately.

7.Connection

- 1)Insert the seven-core plug at the other end of the soldering pencil into the seven-core socket on the main unit panel (pay attention to the insertion position of the plug), and place the soldering pencil in the holder.
- 2)Insert the power plug of the soldering station into the power socket.
- 3)Insert one end of the grounding core into the grounding jack of the soldering station, and connect one end to anti-static ground.

8.Turn On/Off

Switch on/off, which can be divided into hard switch and soft switch.

- 1)Hard switch on / off: The power switch on the back of the main unit can realize hard switching.
- 2)Soft switch on / off:After the power switch is powered on, it can be turned on or off by long pressing the POWER key for 2 seconds.

9. Temperature Settings



- 1) When setting the soldering temperature, make sure that the soldering temperature is adjustable.
- 2) Enter the correct password, or the initial password "000000".

There are three temperature channels in total. Long press"1","2"and "3" keys on the main unit to quickly select the channels corresponding to CH1, CH2 and CH3 respectively. The temperature of channel 1, channel 2 and channel 3 is 100 °C, 350 °C and 400 °C respectively. On this interface, the temperature value can be changed through the "+" and "-" keys, and the temperature range is $100 \sim 450$ °C.

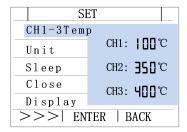


Press +/- button once to increase 1 $^\circ\! C_+$ press and hold it to continuously increase/decrease.

10.Menu Settings

Enter the menu setting interface.

Press and hold "2" and "3" keys at the same time to enter the menu setting interface.



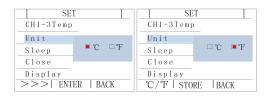
10. 1. Channel Temperature Settings

- 1) Press "2" key to "CH1-3Temp" setting.
- 2)Press "1" to select channel $1\sim3$, and press the "+" or "-" to change the value.
- 3) Press "2" to save, press "3" to return to the main interface.



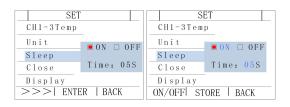
10. 2. Temperature Unit Setting

- 1) Press "1", "+" or "-" key to temperature Unit setting.
- 2) Press "2" key to enter the Celsius or Fahrenheit unit selection interface, and press "1" key to select the required unit.
- 3) Press "2" to save and "3" key to return to the main interface.



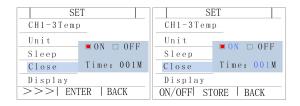
10. 3. Sleeping Time Setting

- 1) Press "1", "+" or "-" key to sleeping time setting.
- 2) Press the "2" key to enter the sleeping setting interface, press the "1" to select ON or OFF, after selecting ON, press "+" or "-" to set the time, the time setting range: $05S \sim 99$ Mins. Factory setting: 1 minute.
- 3) Press "2" to save and "3" key to return to the main interface.



10. 4. Close Time Setting

- 1) Press "1", "+" or "-" key to "Close" setting.
- 2) Press the "2" key to enter the close setting interface, press "1" to select the Close On or OFF function, after choosing ON, press the "+" or "-" key to set the close time, the time setting range: $001Min \sim 240Mins$.
- 3) Press "2" to save, press "3" to return to the main interface.



10. 5. Display Setting

- 1) Press "1", "+" or "-" key to select "Display" interface.
- 2) Press "2" key to enter the display interface, press "1" key to select Numbers or Curves.
- 3) Press "2" to save, press "3" to return to the main interface.



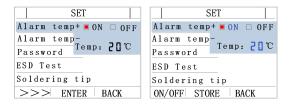
Note: Red curve indicates temperature control mode, and blue is power control mode.

10. 6. Temperature Limit Alarm Setting

- 1) Press "1", "+" or "-" key to select "Alarm temp+" setting.
- 2) Press "2" to enter the upper and lower alarm limit setting interface, press key "1" to select ON to start the temperature alarm function or OFF not to alarm, and press "+" or "-" to set the alarm temperature. The

setting range of the upper and lower limits of the alarm temperature is: $2 \sim 99$ °C.

3) Press "2" to save, press "3" to return to the main interface.

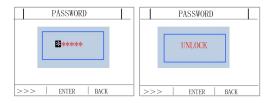


10. 7. Password Setting

- 1) Press "1", "+" or "-" key to select "Password" setting.
- 2) Press "2" to enter the password input setting interface. After inputting t he old password 000000 (original password), press key "2" to enter the new password input interface. Press the "+" or "-" key to select the value ($0 \sim 9$). Press "1" to change the digit.
- 3) Press "2" to save, press "3" to return to the main interface.



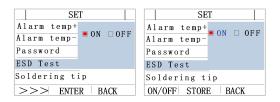
Password window:



Note: After the password is set, you need to input the new password to reenter the menu setting interface.

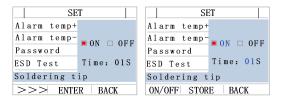
10. 8. ESD Test Settings

- 1) Press "1", "+" or "-" key to select "ESD Test" setting.
- 2) Press "2" to enter ESD test setting interface. Press "1" to select ESD Test mode (ON/OFF).
- 3) Press "2" to save, press "3" to return to the main interface.



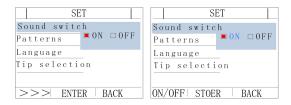
10. 9. Soldering Hint Settings

- 1) Press "1", "+" or "-" key to select "Soldering tip" setting.
- 2) Press "2" to enter soldering hint setting interface. Press "1" to select soldering hint: Soldering tip mode (ON/OFF).
- 3) Press "2" to save, press "3" to return to the main interface.



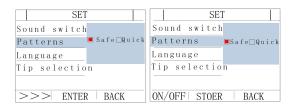
10. 10. Key tone Settings

- 1) Press "1", "+" or "-" key to select "Sound switch" setting.
- 2) Press "2" to enter the sound switch setting interface. Press "1" to select ON or OFF to switch the sound function.
- 3) Press "2" to save, press "3" to return to the main interface.



10. 11. Patterns

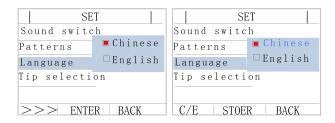
- 1) Press "1", "+" or "-" key to select "Patterns" setting.
- 2)Press "2" to enter the pattern setting interface. Press "1" to select pattern mode Safe or Quick pattern.
- 3) Press "2" to save, press "3" to return to the main interface.



Note: After selecting the Safe mode, the heat element will heat-ups after coperation confirmed, if Quick mode is selected, the heat element will heat-ups immediately after power on.

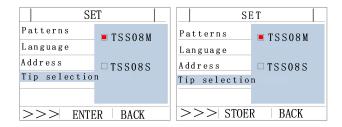
10. 12. Language Settings

- 1) Press "1", "+" or "-" key to select "Language" setting.
- 2) Press "2" to enter the language selection interface, and press "1" to switch between Chinese and English.
- 3) Press "2" to save, press "3" to return to the main interface.



10. 13. Tip selection

View current tip selections.



11.Temperature Calibration

Whenever the tip is replaced, the temperature of the tip shall be recalibrated.

Calibrate with thermometer

- 1) Set a certain temperature value of the soldering station (For example:350°C).
- 2) When the temperature is stable, measure the temperature of the tip with the thermometer, and record the reading value(For example:355°C).
- 3) Long press the "1" and "3" key at the same time, the soldering station e nters the temperature calibration mode, when the temperature value displa yed on the screen turns red, press the "+" or "-" key to change the value to the actual temperature of the tip, such as 355°C measured in step 2, press "2" (ENTER) key to confirm, if "OK" displayed, it indicates calibration is successful, then automatically return to the main interface.



- * It is recommended to use a 191/192 thermometer to measure the tip temperature.
- * If the password is locked, the temperature cannot be calibrated, and the correct password must be input to operate.

12. Maintenance of Tips

- 1) When the new tip is used for the first time, add tin to protect it when the temperature is $250 \sim 280$ °C.
- 2) Select the appropriate tip size according to the size of soldering joint.
- 3) In order to prevent the oxidation of tip, a layer of melting tin should be plated before placing it into the holder.
- 4) In order to avoid rapid cooling of tip, the cleaning sponge should not be wet with too much water. But using cleaning sponge that is not wet will damage the tip and lead to failure of tinning the tip.
- 5) When the tip is oxidized due to improper use, do not clean the surface coating by grinding but use metal filament or resurrection ointment to clean it at $250 \sim 280$ °C.
- 6) When soldering, do not apply gravity to tip and avoid adding tin to the same place to operate.
- 7) Try to solder at low temperature, and the temperature is usually controlled at $320 \sim 380$ °C. If it is necessary to solder at high temperature, please analyze the adaptability of soldering station and tip before soldering.

13. Selection of Tips

- 1) It is very important to correctly select the size and shape of tip. A suitable tip can improve the efficiency and increase the durability.
- 2) The size of tip is directly related to the heat capacity. For continuous soldering, the larger the tip, the less the temperature drop. In addition, because the heat capacity of the large tip is higher and relatively low temperature can be used during soldering, the tip is not easy to oxidize and the service life is relatively prolonged.
- 3) Generally speaking, the selection of tip size is based on the standard that it does not affect adjacent components. Selecting the geometric dimension that can fully contact with the soldering joint can improve the soldering efficiency.







15.Troubleshooting

No.	Error Message	Descriptions
1	Heater Abnormity	Temperature sensor is not connected or it is inserted in an error position, re-connect it after power OFF.
2	No handle	 Soldering tip is not connected. Soldering tip is not suitable for the station.
3	Handle error	Circuit of soldering tip abnormal, check if the connection is right or not, then re-power on. Replace a new one.
4	Senor Abnormity	Heater is damaged, replace a new
5	Soldering Abnormity Check tip position	1.The soldering tip is not installed or damaged.2.Check tip position.

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 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.

i Warranty Card

Type:
Model No.:
Serial No.:
Delivery Date:
Warranty File Card
Type:
Model No.:
Serial No.:
Delivery Date:
Address :
Postcode:
Telephone:
Contact Person: