MN-0712-SS450-E V0

0712-SS450

Intelligent Lead Free Soldering Station

Instruction Manual

PLEASE SCAN QR CODE TO WATCH THE OPERATION VIDEO OF PRODUCTS.

VIDEO

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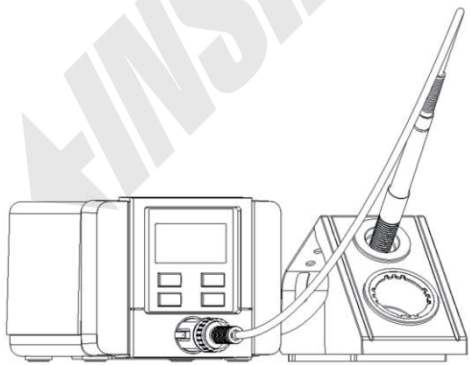

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1.Safety Instructions

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

- 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.
- After using the soldering station, the tip temperature will be quite high, which is easy to burn operators and may cause dangerous accidents.
- Don't knock workbench with the soldering handle to remove residual flux, which may seriously damage the soldering handle.
- When the soldering handle 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.

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2.Overview

This soldering station is designed for precision soldering with lightweight handle and soldering tip. The main unit features color LCD and precise temperature. The all-in-one soldering tip with heater is thermos-sensitive in fast heating and rapid thermal recovery, which makes the soldering station an ideal tool for precision soldering.

3.Product Characteristics

- Quickly switch between three preset temperature channels.
- Temperature unit switch between Fahrenheit and Celsius.
- Plug-in designed soldering tip with heater all-in-one for easy replacement.
- Sensor is close to tip for real-time monitoring of soldering tip temperature, and rapid thermal recovery.
- Built-in sensor in soldering handle, and can set automatic sleep and shutdown time on main unit.
- Designed with ESD protection.

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4.Product Specifications

Model	0712-SS450
Display screen	IPS
Power consumption	90W
Voltage	AC 220V
Temperature range	100℃～450℃/212℉～842℉
Temperature stability	±2°C(when the air is still and no load)
Tip to ground potential	＜2mV
Tip to ground resistance	＜2Ω
Dimensions (L×W×H）	116*149*93mm
Weight	About 1.8 kg

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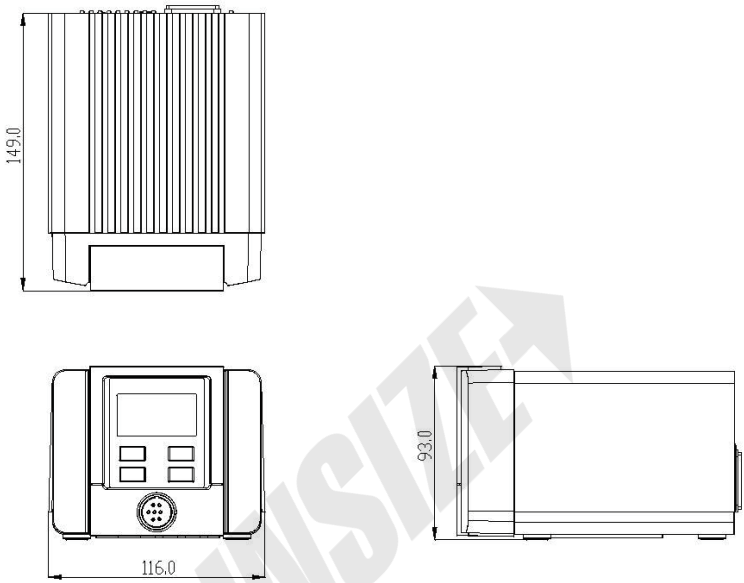
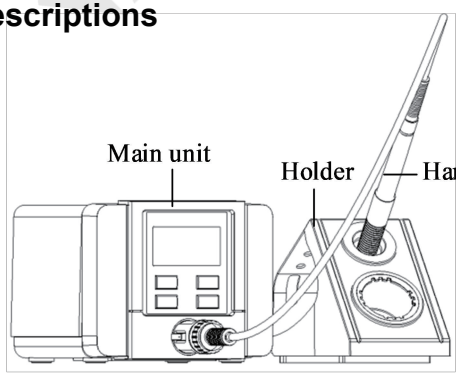
5.Functional Descriptions

5. 1. Dimensions

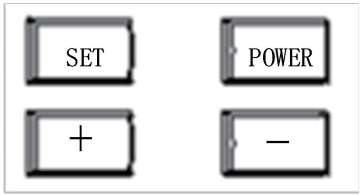


Unit：mm

5. 2. Part Descriptions



5. 3. Key Descriptions



Symbols	Function Descriptions
SET	1.Long press for 2S to enter the menu setting interface 2.In the main interface,keep short press to select CH1-CH3 circularly
POWER	Long press to turn on/off
+	Turn up temperature in the main interface Page down in the menu interface
-	Turn down temperature in the main interface Page up in the menu interface
+and-	Press the two keys at once to enter the temperature calibration interface

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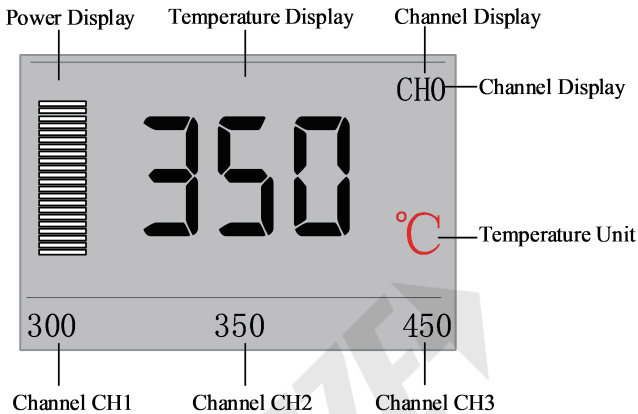
5. 4. Function Descriptions of the Main Interface



6.Connection

1) Insert the seven-core plug at the other end of the soldering handle into the seven-core socket on the main unit panel (pay attention to the insertion position of the plug), and place the soldering handle in the holder.

2) Insert the power plug of the soldering station into the power socket.

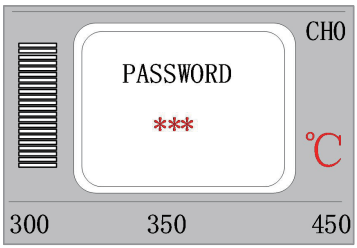
3) Insert one end of the grounding core into the grounding jack of the soldering station, and connect one end to anti-static ground.

7.Temperature Settings

⚠Note:

1) When setting the soldering temperature, please make sure the soldering temperature is adjustable.

2) Input the correct password, the initial password is "000".



Press "+" or "-" key to input a value, press “SET” key to select a digit (input the correct password), and press POWER key to confirm.

There are 3 temperature channels. Keep short pressing "SET" key to select CH1 ~ CH3 recurrently. You can press "+" or "-" key to change current temperature, which does not overwrite the stored temperature of the 3 temperature channels.

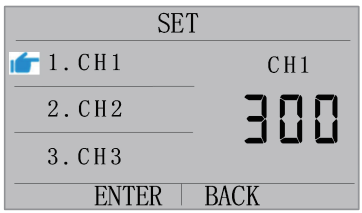
8.Menu Settings

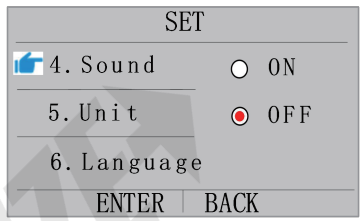
1) Long press the "SET" key to enter the menu setting interface.

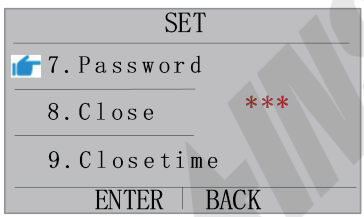
2) Press "+" or "-" key to turn the page.

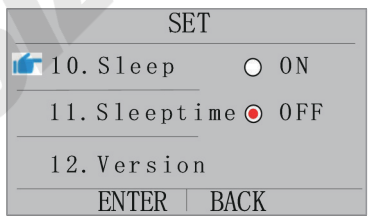
3) Press "SET" key to enter the parameter setting interface, and then press "+" or "-" for value selection or setting.

4) Press "SET" to save, and press "Power" to go back to the main interface.







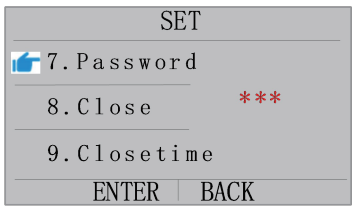


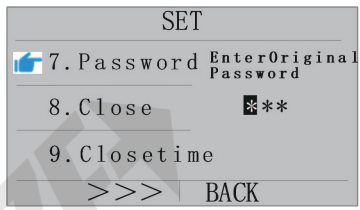
9.Password Settings

1）Press "+" or "-" key, and select "Password" setting.

2）Press "SET" key to enter "Password" setting interface. Press "+" or "-" to input the password (initial password is "000"), then press "SET" to enter the new password input interface. Press "+" or "-" to select a digit (0~9), and press "SET" to select a digit position.

3 ） Press "SET" to save, and press "Power" to go back to the main interface.





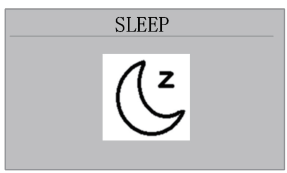
10.Sleeping and Wake Up

10. 1. Sleeping

In sleep mode, place the handle on the holder. When the set time is up, the soldering station will enter the sleep mode,

the temperature drops to room temperature.

Sleep time range: 05 seconds to 99 minutes.



10. 2. Wake Up

1）Turn off the soldering station and turn it on again.

2）Press any key.

3） Shake the handle to resume the main unit from sleep.

11.Shutdown Time Settings

In shutdown mode, the soldering station will enter the shutdown mode if not used within the sleep time. When the set shutdown time is up, the unit will automatically power-off.

Shutdown time range: 01 ~ 240 minutes.

12.Temperature Calibration

Temperature of the soldering tip should be recalibrated every time the tip or handle is replaced.

1) Set the temperature as required.

2) When the temperature is stable, use a thermometer to measure the tip temperature and write down the reading.

3) Long press "+" and "-" keys at once to enter the temperature calibration mode with the screen displays current temperature, then press "+" or "-" to change the value to match the thermometer reading. Press "SET" key to confirm, and go back to the main interface when "OK" is displayed on the screen.

Note: * If the password is locked, the temperature cannot be calibrated. The correct password must be input before operation.

13.Maintenance of Tips

1) When the new tip is used for the first time, add tin to protect it when the temperature is 250 ~ 280 ℃.

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 ~ 280 ℃.

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 ~ 380℃. If it is necessary to solder at high temperature, please analyze the adaptability of soldering station and tip before soldering.

14.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.

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15.Troubleshooting

No.	Error Message	Descriptions
1	No handle	Short circuit of the heater.
2	Handle error	Insert the matching handle
3	Senor abnormity	The heater is not inserted or in wrong position. Please power off and re-insert.
4	Heater abnormity	Open circuit of the heater.

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16.List of Tips

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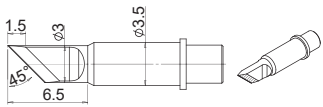

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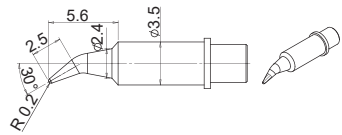

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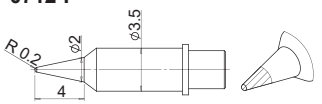

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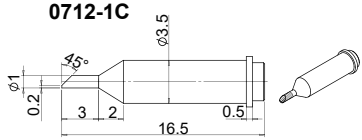

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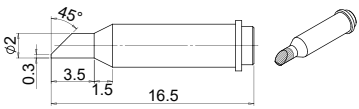

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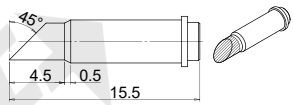

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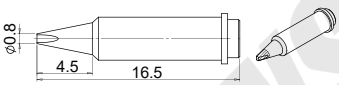

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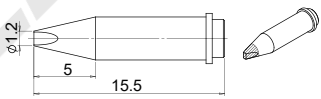

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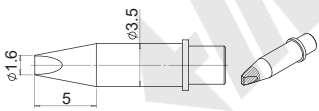

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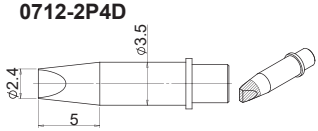

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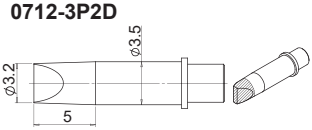

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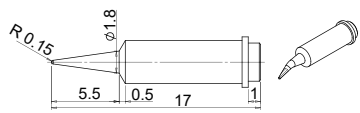

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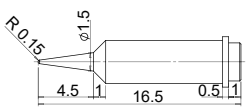

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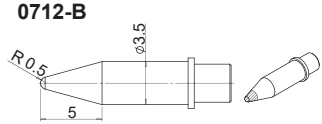

Unit: mm

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