

AE730D Smart Touch Soldering Iron User Manual

SPECIFICATIONS

Model	AE730D
Power Interface	Type C
Protocol support	PD/QC/AFC/FCP
Input	5-9V dc (1~3.6A)
Temperature range	230-450°C (446-842°F)
Size	170x16x22mm
Weight (iron only)	28.3g

SAFETY AND PRECAUTIONS

The precautions in this manual are divided into the following [warning] and [attention]. Please fully understand the content.

⚠ Warning: misuse may cause death or serious injury to the user

⚠ Note: misuse may cause injury to users or substantial damage to objects involved

For your own safety, please strictly abide by the following precautions

⚠ WARNING

When power is on, the temperature of the soldering iron tip might reach 230-450 °C (446 -842°F).

Misuse may cause burns and fire, please strictly observe the following precautions:

- Do not touch the soldering iron tip or the metal part around it while using
- Do not use it around combustibles
- Inform the people around of the potential risk caused by high temperature
- Turn the power off when not in use
- Before replacing parts or tip, turn off the power and wait till the iron tip cools down
- This appliance is not intended for use by persons(including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety
- Children should be supervised to ensure that they do not play with the appliance

Please strictly observe the following precautions, otherwise it may cause injuries or death.

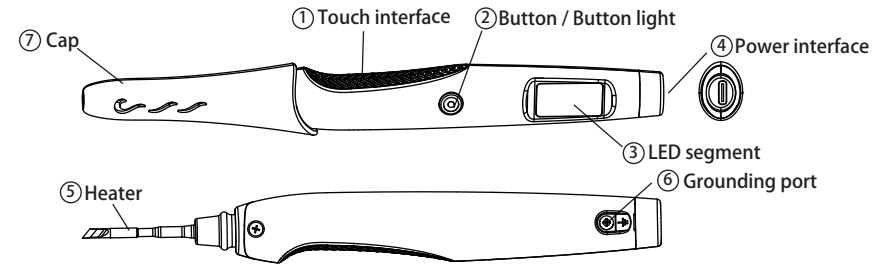
- Do not use this product for works other than soldering
- Do not hit the handle hard for removing the tin on the iron tip
- Do not modify this product
- When replace parts, must use original manufacturer parts
- Do not soak the product in water or use it with wet hands
- When unplug the product, hold the plug instead of pulling the cord
- Smoke will be emitted during soldering, please use it in open space
- Do not engage in other dangerous acts with this product

Attention: After using this product with a fast charging adapter, please unplug the socket and let it sit for a while before using the same adapter to charge your phone or other devices. Otherwise, there is a risk of damaging other devices. (This product may cause the charging adapter to 9V voltage output, and some charging adapters may still maintain 9V output even when disconnected from this product.)

PACKING LIST

- 1 X Soldering iron
- 1 X User manual
- 1 X Silicone sheath
- 1 X Iron stand with sponge
- 1 X Type-c cable (1.5m)

PRODUCT APPEARANCE



①Touch interface: Press/touch enables the machine heating. Together with the ② button, it allows temp. calibration, temp. setting, and other functions.

②Button/Button light: The corresponding color indicates current temp. of ⑤ heater.

Button light	Indication content	Button light	Indication content
Red	⑤ heater temp.> 150°C	Purple	digit up
Yellow	⑤ heater temp.80° C~150°C	Blue	digit down
Green	⑤ heater temp.< 45°C	White	⑤ heater temp. unknown
Red blinking	The machine is in operational mode		

⚠ Warning:Please DO NOT touch the heater when unable to confirm its temperature. The button light color is only intended as a reference for the current temperature of the heater.

③LED segment: Display temperature, and parameter setting

Screen display	Function
SEt	parameter setting
SAV	parameter save
CRl	temp. calibration
RP_	adaptive power
HhE	heat hold time

④TYPE-C interface: Supports multiple power supply

⑤C210 heater

⑥Grounding port: Used for grounding the heater

⑦Cap: Used to protect heater

OPERATION

Power on	Power on with type C cable via ④ power interface. During which, ② button light on, ③ LED segment shows 888 , input voltage 5.0 , and OFF
Start up	Press ② button for 1 second, ③ LED segment shows 0.1 1 second and shows defaulted temp. 340 °C /640 °F, then ③ LED segment shows cyclic code. *The next startup will enter the previously selected temperature.
Heat up	After power on, single press ② button to choose your desired temperature, press and hold ① touch interface to enable the machine heats up to the set temperature. During which, ② button light turns RED and pulsates in a blinking pattern, indicating that the machine is heating up. *The products includes 5 default temperatures: (260 - 300 - 340 - 380 - 420)°C /500 - 570 - 640 - 710 - 780)°F. Release ① touch interface, the product stops heat-up after heat hold time , When the product stops heating up, ③ LED segment displays the current temperature, and then shows cyclic code.
Power off	Long press ② button for 1 seconds, until ③ LED segment shows OFF .

FUNCTION SETTINGS

■ °F to °C switch:

Long press ② button and connect to the power at the same time to switch °F to °C or °C to °F.

■ Setting extra Tx temp. as preset temp:

Step 1: Enter Tx setting: Long press ② button until ③ LED segment shows **SEt**.

Step 2: Tx temp. setting: single press ② button, ② button light can switch to blue or purple, press ① touch interface to increase or decrease temp. Single press ① touch interface to achieve precise 1 degree temp. increase or decrease. Long press ① touch interface to achieve fast temp. increase or decrease. When fail to recognize ② button light color, please long press ① touch interface to identify current status.

Step 3: Tx save and exit setting: Long press ② button until ③ LED segment shows **SRU**.

* Long time (10 seconds) no setting will exit to default temp.

* Tx temp. range can be set from 230~450°C / 446~842°F;

■ Temperature calibration:

Step 1: Single press ② button choose 340°C / 640°F. Press and hold ① touch interface until ③ LED segment shows 340°C / 640°F. When temp. stabilize, use a temperature measuring tool to measure the temperature of ⑤ heater.

Step 2: Calculate the compensation value. Use current set temp. 340°C / 640°F - actual measured temp., if

- 1) positive value requires to digit up.
- 2) negative value requires to digit down.
- 3) adjustable range: +50 ~ -50°C or +90 ~ -90°F

Step 3: Long press ② button to choose calibration function until ③ LED segment shows **CRl** and flickering number.

Step 4: Single press ② button, ② button light can switch to blue or purple, press ① touch interface to increase or decrease temp., input the compensation value. Single press ① touch interface to achieve precise 1 degree temp. increase or decrease. Long press ① touch interface to achieve fast temp. increase or decrease.

Step 5: Long press ② button until ③ LED segment shows **SRU**.

■ Software version:

Long press ② button for 5 seconds until ③ LED segment shows **uXX**.

■ Heat hold time:

Long press ② button for 2 seconds until ③ LED segment shows **HhE**, press ① touch interface to set the heat hold time from 1 to 900 seconds. Long press ② button to save the desired heat hold time.

* With 10 minutes of idle period after heat hold time the machine will power off, press ② button to restart the machine again.

■ Power adaptation:

The product requires power adaptation to assure the product can solder properly in following scenarios:

1) When the product begins its first heat-up, it will automatically enter power adaptation if the power supply is detected insufficient to enable the iron solder in full power. ③ LED segment shows **RP_**, user doesn't require any action, but wait around 5 to 20 seconds. Once completed, ③ LED segment shows **QFF**. Then following Heat up operation instruction to solder.

2) When the power supply being used can not achieve full automatic power adaptation as described in scenario 1), user can perform a quick manual adaptation procedure as follow. Turn off the machine, then power on and start up. Long press ① touch interface to start heat up. Repeat above operation until ③ LED segment shows **RP_**, user doesn't require any action, but wait around 5 to 20 seconds. Once completed, ③ LED segment shows **QFF**. Then following Heat up operation instruction to solder.

3) Whenever user changes a new power supply, it is suggested to have a quick power adaptation: single press ② button within 2 seconds when powering on, the iron will automatically enter power adaptation process, now ③ LED segment shows **RP_**, user doesn't require any action, but wait around 5 to 20 seconds. Once completed, ③ LED segment shows **QFF**. Then following Heat up operation instruction to solder.

Warning: The product under **RP_** status, ⑤ heater will heat up, do NOT touch.

MAINTENANCE

In order to ensure the durability of this product, regular maintenance is recommended. The lifespan of this product depends on the used temperature, quality of solder wire and soldering paste, frequency of use etc. Please repair and maintain it according to specific use conditions.

Warning: Please pay close attention when the product is in use at high temperature or operation status. Unless otherwise specified, cut off the power and unplug the product after use.

Soldering iron tip maintenance

1. Set the temperature to 260°C (500°F).

2. After the temperature stabilizes, clean the soldering iron tip with a brass wool and check its condition.

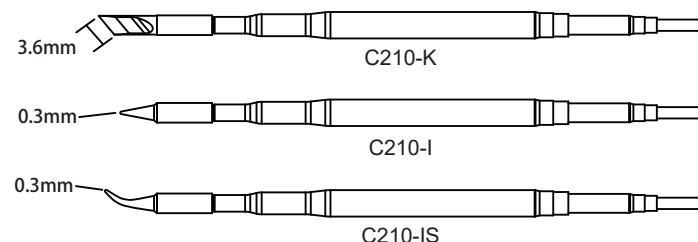
3. If there is black oxide attached to the soldering iron tip, apply new solder (containing flux), and repeatedly wipe with a brass wool until the oxide is removed. Then apply new solder.

4. If the soldering iron tip has been deformed, perforated or worn out, please replace it with a new one.

TROUBLESHOOTING GUIDE

Failure phenomenon	Examination	Dealing method
Not working after power is on	Check whether charger and cable connections are tight	Reconnect the charger and cable
	Test whether the power and connection cables are fine	Connect to other devices and check if it works properly. If it does, check whether the output voltage and current meets the requirements for operating the soldering iron.
	Whether ③ LED segment turn black	Follow procedure 2) in power adaptation or change to a new power supply.
The display shows S-E	Whether the heater is well inserted into the cartridge	Reinsert the heater
	Check if the heater is damaged (the resistance of the heater should be less than 10Ω at room temperature).	If damaged, replace the heater
The display shows H-E	Check if the heater is damaged	If damaged, replace the heater
	Check if misidentification is caused by insufficient power supply	Change higher wattage power supply
The display shows QUP	Check if the input voltage is over 14.6V	Change a new power adapter
Solder won't attach to the soldering tip	Check if the soldering tip temperature is too high	Adjust to suitable temperature
	Check if there's oxidation on the soldering tip	Wipe off the oxidation with brass wool

C210 SERIES SOLDERING TIP



(More soldering tips information please contact us)

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