04.07.03.779

Portable Quick-Heating Soldering Iron (USB-C)

OPERATION INSTRUCTION

928D IX / 928D IX PRO

English

Made in China

Select the corresponding logo according to the nameplate.

● This product should not be thrown in the garbage. In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected & returned to an authorized recycling facility. ● Dieses Produkt darf nicht in den Müll geworfen werden. Gemäß der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer gesammelt und an eine autorisierte Recyclinganlage zurückgegeben werden. ● Ce produit ne doit pas être jeté à la poubelle. Conformément à la directive européenne 2012/19/UE, les équipements électroniques en fin de vie doivent être collectés et renvoyés à une installation de recyclage autorisée. ● Questo prodotto non deve essere gettato nella spazzatura. In conformità alla direttiva europea 2012/19/UE, gli apparecchi elettronici giunti a fine vita devono essere raccolti e restituiti a un impianto di riciclaggio autorizzato. ● Este producto no debe ser arrojado a la basura. De acuerdo con la directiva europea 2012/19/UE, los equipos electrónicos al final de su vida útil deben ser recolectados y devueltos a una instalación de reciclaje autorizada.

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be followed including the following:

CAUTION!!! WARNING!!!

Read instruction manual before using.

1. To provide continued protection against risk of electric shock, connect to properly grounded outlets only.
2. Do not immerse in water.
3. Hot Surface. Avoid Contact.
4. Shock Hazard. To provide continued protection against electric shock disconnect from the power supply when not in use.
5. Heat gun, soldering iron, desoldering iron must be placed on its stand when not in use.
6. INDOOR USE ONLY.
7. To prevent electric shock, unplug before replace the fuse and other service.
8. Replace only with same type and rating of fuse.
9. 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.
10. Children should be supervised to ensure that they do not play with the appliance.
11. The soldering iron and desoldering iron is only to be used with the power supply unit provided with the appliance.
12. If the SUPPLY CORD is damaged, it must be replaced by the manufacturer,its service agent or similarly qualified persons in order to avoid a hazard.
13. Any servicing should be performed by an authorized service representative AND that the product has no user serviceable parts.
14. To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. Store indoors. Read instruction manual before using.
15. A fire may result if the appliance is not used with care, therefore
    - be careful when using the appliance in places where there are combustible materials;
    - do not apply to the same place for a long time;
    - do not use in presence of an explosive atmosphere;
    - be aware that heat may be conducted to combustible materials that are out of sight;
    - place the appliance on its stand after use and allow it to cool down before storage;
    - do not leave the appliance unattended when it is switched on.
16. To ensure personal safety, please turn off the power switch after work is completed; When not in use for an extended period, please unplug the power cord!!!
17. The soldering iron should only be used for soldering. Do not hit the soldering iron against the work surface to remove flux residues (Can be cleaned by the cleaning device of the product), as doing so may seriously damage the soldering iron.
18. Soldering produces fumes, ensure there is adequate ventilation.
19. After used, remember that cooling the unit, the handle should be placed on the handle holder.

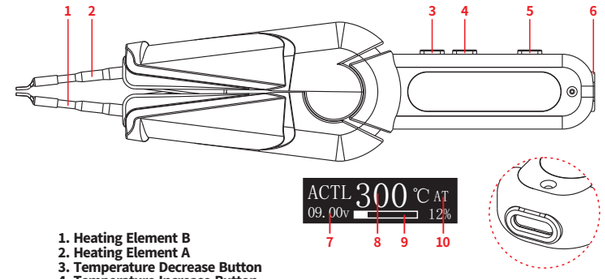
SAVE THESE INSTRUCTIONS

Specifications

Model	928D IX	928D IX PRO
Control Unit Dimensions	L184*W47*H20mm ±5mm	
Operating Ambient Temperature	0～40°C (32°F～104°F)	
Temperature Range	90°C～450°C (194°F～842°F)	
Display	LCD Display	
Protocol	PD / QC	

Note:
[928D IX]: The power is 60W when using an 11V external DC power supply, the power is 25W when connected to a fast-charging adapter.
[928D IX PRO]: The power is 120W when using a 20V external DC power supply; the power is 60W when connected to a fast-charging adapter
(Power rating at least 65W is required).

I. Parts List



1. Heating Element B
2. Heating Element A
3. Temperature Decrease Button
4. Temperature Increase Button
5. Function Button
6. Type-C Port
7. Voltage
8. Temperature
9. Simulated Power Level
10. AT: Powered via charger(s) that use PD or QC protocol
DC: Powered via external DC power supply

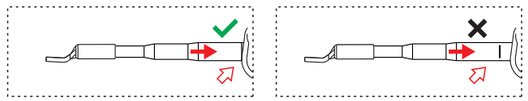
II. Applications

This unit is suitable for de-soldering and soldering operations on various surface-mount components, through-hole components and small components on mobile phone's circuit board, such as SOP, DIP, SOIC, etc. It is especially suitable for manufacturing work in factories. This tool can solder two solder joints at once, allowing for high efficiency soldering.

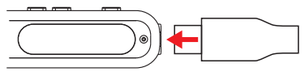
III. Operation

1. Basic Operation

1.1 When the soldering iron is cooled completely, ensure that the heating element is installed correctly.

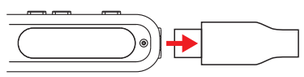


1.2 Connect the soldering iron to the power cord.



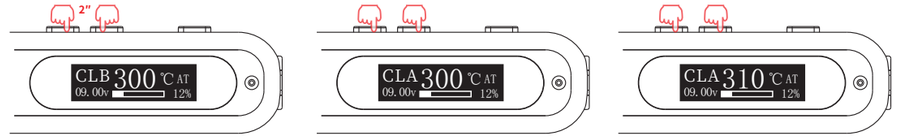
CAUTION: Upon the first use of the soldering iron, set the temperature to 250°C/482°F. When the iron is just hot enough to melt solder, coat the soldering iron tip with a layer of solder (the use of rosin core solder is recommended), then set the temperature to your desired temperature.

1.3 When done using, use a damped cleaning sponge or brass wool to clean the residues off the soldering tip. Then, apply a new layer of solder onto the tip. Disconnect the power cord.



2. Temperature Calibration

1. Press and hold both the temperature increase and decrease buttons for approximately 2 seconds to enter the temp. calibration interface.
2. Press the temperature decrease button to calibrate the temperature of heating element A; Or, press the temperature increase button to calibrate the temperature of heating element B.
3. Enter the measured temperature. Press the function button to confirm entry, press again to exit.



3. Menu Configuration

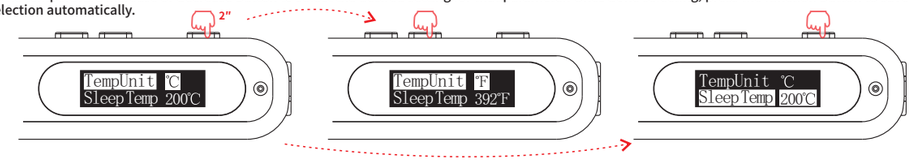
3.1 Menu Options

Temperature Units --- °C/°F
Sleep Temperature --- 90°C～450°C /194°F～842°F
Sleep Timer --- 1-30 minutes
Shut-down Timer --- 1-10 minutes
Display Direction --- Left/Right
Power-- PD/QC,11V 10A(928D IX)
PD/QC,20V 10A(928D IX PRO)

Note: The time during which the soldering iron remains idle before entering sleep mode is defined as the "Sleep Countdown". The time elapsed in sleep mode before the soldering iron shuts down is defined as the "Shut-down Countdown". When the soldering iron has entered sleep mode but hasn't shut down, shaking the handle will wake up the soldering iron.

3.2 Operation Reference Diagrams

→ Press and hold the function button for 2 seconds to enter the menu.
→ Press the function button to toggle between different menu options, exit the menu interface by pressing the function button again at the end of the menu.
→ Press the temperature increase or decrease button to select the desired setting for that parameter. Once done selecting, press the function button to save the selection automatically.



The 928D IX supports two power modes: PD/QC protocol power supply and 11V 10A DC power supply.
1. When set to PD/QC mode, please connect a PD/QC protocol fast-charging adapter.
2. When set to 11V 10A mode, connect an external DC power supply with ouput parameters rated at 10–12V, 10A. Heating will stop if the voltage exceeds 12.5V. If a fast-charging adapter is connected, the adapter will trigger overload protection.
Warning: When using an external power supply, a dedicated power cord must be used. DO NOT reverse the polarity. DO NOT connect a voltage above 25V, otherwise the product may be damaged!
The 928D IX PRO has two power supply modes: PD/QC protocol power supply and 20V 10A DC power supply.
1. When set to PD/QC mode, please connect a PD/QC protocol fast-charging adapter.
2. When set to 20V 10A mode, connect an external DC power supply rated at 19–21V, 10A. Heating will stop if the voltage exceeds 21.5V. If a fast-charging adapter is connected, the adapter will trigger overload protection.
Warning: When using an external power supply, a dedicated power cord must be used. DO NOT reverse the polarity. DO NOT connect a voltage above 25V, otherwise the product may be damaged!

IV. Maintenance & Precautions

1. If a layer of oxidization forms on the surface of the soldering iron tip, a misconception can be created that the soldering tip cannot heat up properly to melt the solder and do the tinning. But the actual temperatures of both the heating element and soldering tip are high. In such an instance, please do not increase the temperature value confusedly but use a metal wool ball to remove the oxidization following the steps below:
   A. Set the temperature to 300°C (572°F).
   B. Once the temperature stabilizes, gently rub the soldering iron tip inside the metal wool ball.
   C. When the oxidization is partially removed, continue applying solder onto the tip while rubbing it until the soldering tip is completely coated with solder. If the tip is too severely oxidized beyond cleaning, replace the tip with a new one.
2. DO NOT use metal files to remove the oxidization on the soldering iron tip. If the soldering iron tip deforms or rusts, replace the soldering iron tip with a new tip.
3. DO NOT apply excessive force on the soldering iron tip when soldering. Doing this will NOT IMPROVE the heat transfer but damage the soldering iron tip instead.
4. When placing the soldering iron back in the holder to idle after a high-temperature operation, adjust the temperature to 250°C (482°F) or below for idling. Failure to do so, and leaving the soldering iron tip to idle on a high-temperature setting will cause the accelerated aging of the heating element, and shorten the lifespan of the heating element and soldering iron tip.
5. After every operation, always wipe off the soldering tip, then tin the tip with a layer of solder to prevent oxidization.

V. Troubleshooting Guide

1. **"Heating Element Disconnected"- It is an indication that the soldering iron's sensor module is faulty, and the heating element (heating element and sensor module) needs to be replaced (heating element and sensor module). Or the heating element is not connected.**
2. **Display turns off and on again – This indicates insufficient power from the adapter. Please use a suitable adapter and power supply voltage.**
3. **"Heating Element Error" – It is an indication when the heating element is incorrectly installed or short-circuited. Please inspect the heating element.**

Statement: The company reserves the right to improve & upgrade products, product specifications and design are subject to change without notice.