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982D I PRO **Hot Tweezer Precision Soldering Station ESD-Safe**

OPERATION INSTRUCTION

Made in China

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





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. ● Este producto no debe desecharse en la basura. De acuerdo a la directiva europea 2012/19/EU, los equipos electrónicos al final de su vida se deberán recoger y trasladar a una planta de reciclaje autorizada. ● Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden. In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer eingesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

IMPORTANT SAFETY GUIDELINES

- 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.

- Strictly follow the basic safety guidelines and precautions when using the product.

- 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. HouseHoLD AND INDOR 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, on text experience should be supervised to ensure that further than the 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. Hidden areas such as behind walls, ceilings, floors, soffit boards and other panels may contain lead, which is poisonou

- department or by a professional who uses a paint analyzer to check the lead content of the paint to be removed.

 19. LEAD-BASED PAINT SHOULD ONLY BE REMOVED BY A PROFESSIONAL AND SHOULD NOT BE REMOVED USING A HEAT GUN.

 20. Persons removing paint should follow these guidelines:

 1) Move the work piece outdoors. If this is not possible, keep the work area well ventilated. Open the windows and put an exhaust fan in one of them. Be sure the fan is moving the air from inside to outside.

 2) Remove or cover any carpets, rups, furniture, clothing, cooking utensils and air ducts.

 3) Place drop cloths in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats.

 4) Work in one room at a time. Furnishings should be removed or placed in the center of the room and covered. Work as should be sealed off from the rest of the dwelling by sealing doorways with drop cloths.

 5) Children, pregnant or potentially pregnant women and nursing mothers should not be present in the work area until the work is done and all clean up is complete.

 6) Wear a dust respirator mask wink hin has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSHA), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beads and facial hair may keep masks from sealing properly. Change filters often. DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.

 7) Use caution when operating the heat gun. Keep the heat gun moving as excessive heat will generate times which can be inhaled by the operator.

 8) Keep food and drink out of the work area. Wash hands, arms and face and rinse mouth before eating or drinking. Do not smoke or chew gum or tobacco in the work area.

 9) Clean up all removed paint and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surface of the product), as doing so may seriously damage the sol



Specifications

Model number	982D I PRO
Rated voltage range	110V-240V~
Rated frequency	50Hz/60Hz
Rated power	120W (C245 Heating Element), 80W (C120 Heating Element), 40W (C210 Heating Element)
Main unit dimensions	L213*W152*H110mm ±5mm
Operating ambient temperature	0~40°C/32°F~104°F
Temperature range	90°C~450°C/194°F~842°F
Display	LCD
Tip to ground resistance	<2 Ohms

Note: This product is compatible with C210 heating element, C245 Heating elem-ent and C210-exclusive handpiece. However, only one of the compatible handpieces can be used at a time. Please note that the C245 heating element and C210-exclusive handr ce are not included with this p



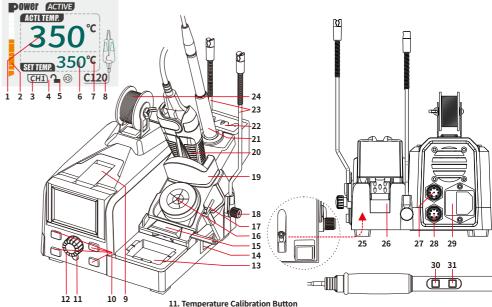
I. Applications

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 ioints at once, allowing for high efficiency soldering



II. Product Diagram



- 1. Actual Temperature
- 2. Power Indicator (Simulated) 3. Pre-set Channel Indicator
- (CH1/CH2/CH3/CH4)
 . Function Lock Indicator
- 5. Buzzer Indicator
- 6. Set Temperature 7. Temperature Unit
- 8. Heating Element Type
- 9. Display Tilt Angle Adjuster
 (Slide the adjuster to adjust
 the tilt angle)
 10. Pre-set Channel Buttons

- 12. Function Knob/ Temperature Adjustment Knob 13. Residual Tray (Front)
- 14. Power Switch
- 15. Groove (For Automatic
- 16. Tip Cleaner
- 10. Tip Cleaner
 17. Allen Key
 18. Locking Screw for Cable Guide
 (Note: We recommend installing
 the cable guide leaning backwards.)
 19. Soldering Iron Holder
 (For C120 Handpiece)

- 20. Hot Tweezer Handpiece 21. C245/C210 Soldering Iron 22. Groove (For Heating Element Change)
- 23. Cable Guide
- 24. Solder Dispenser (and Solder Wire)
 25. Residue Tray Locking Screw
 (Located at the bottom of the station)
- 26. Residue Tray(Rear)
 27. Receptacle (C245/C210 Soldering Iron)
 28. Receptacle (C120 Hot Tweezer Handpiece)
- 29. Receptacle (Power Cord)
- 30. Temperature Decrease Button
- 31. Temperature Increase Buttor

III. Maintenance & Precautions

- 1. If a layer of oxidization forms on the surface of the soldering iron tip, a misconception can be created that the tip cannot heat up properly to melt the solder and do the tinning. However, the actual temperatures of both the heating element and the tip are high. In such an instance, please do not increase the temperature value further but use a metal wool ball to remove the oxidization following the steps below:
 - A. Set the temperature to 300°C(572°F).

 - A. Set the temperature to suo C(372 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 soldering iron tip while rubbing it until the tip is completely coated with solder. If the tip is too severely oxidized beyond cleaning, replace it 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. This will not improve the heat transfer and damage the
- soldering iron tip instead.

 4. Clean the soldering iron tip after use and tin the tip with a new layer of solder to prevent oxidization.
- 5. Clean the Residue Tray (Rear)
 Please clean the residue tray (Rear) when the station is disconnected, fully cooled and the residue tray (Front) is empty. 5-1 Remove the solder dispenser, cleaning sponge, soldering iron and heating element inside the groove (For Heating Element Change)
- 5-2 Place the station sideways and unscrew the locking screw to the residue tray (Rear). Remove the tray to clean the residue inside the tray.

 5-3 Install the residue tray (Rear) and tighten the locking screw.
- Change the sensor module: Unscrew the locking screw to remove the original sensor module. Please note to connect positive and negative ends correctly before installing the new sensor module and tightening the locking screw.





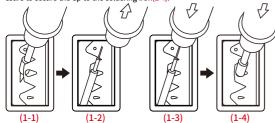
IV. Troubleshooting

"Handpiece Disconnected" ——This is an indication that the station's sensor module is faulty. You need to replace the heating element (the heating element and the sensor modules). Or, the soldering iron/heating element is not connected.

V. Operation Instructions

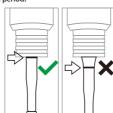
1. Installing and Changing Heating Element

Slot the soldering iron tip into the V-shaped groove(1-1), Pull the soldering iron to separate the heating element(1-2), Attach the new heating element to the so-Idering iron(1-3), Place the soldering iron tip into the hole and apply gentle pressure to secure the tip to the soldering iron(1-4).

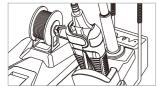


Note: To start working, pick up the soldering iron from its holder. Only after returning the working soldering iron to its holder can you switch to using another soldering iron.

WARNING: When replacing the heating element during the operation (heated), DO NOT touch the heating element or the groove to avoid potential burn injuries. DO NOT place an operational heat-ing element on the heating element groove for an extended period.



3. Before Use



Follow the calibration procedure of C120 handpiece to calibrate the C245/C210 har

4. Digital Temperature Calibration



Place the soldering iron into the soldering iron

Temperature discrepancies may occur due to the change in the environment's temperature or due to the replacement of the heating element and other components. You can correct the discrepancies with this function. The temperature calibration can help improve work efficiency and extend the lifespan of the soldering in the

holder and connect the soldering iron. Connect the power cord and turn ON the master switch. The station is ready for use

2. Display Tilt Angle Adjustment

Adjust for better viewing angle.

Note: a. If you need to exit calibration in the middle of the procedure, please press the function knob.
b. If the temperature that requires calibration is below 250°C(482°F), the temperature cannot be calibrated automatically. Please calibrate the temperature manually as per "4-2" section in this manual.
c. If you need to calibrate the temperature of two heating elements, calibrate one heating element first, then enter the temperature calibration

rface again to calibrate the other core

Calibrating.

Keep the solde iron tip in full

contact with the

(4-1)(4-1-1-2)(4-1-2)Adjust temperature to 250°C(482°F) or higher, pick-up handpiece, and calibrate when stabilized. Turn knob to select Side A/B calibration DOWER ACTIVE ACTL TEMP. Side A CAL Side B CAL. C120 CH1) ใ 🚳

- 4-1 Temperature Calibration (Automatic) (4-1):
 4-1-1 Set the soldering station to the temperature that requires calibration. (Recommended calibration temperature range 250°C~450°C/ 482°F~842°F) Once done setting, pick up the handpiece, and remove the protection lid on the calibration groove (4-1-1-1). Once the handpiece's temperature is stabilized, press and hold the automatic calibration button for approximately 2 seconds (4-1-1-2).
- 4-1-2 Turn the knob to select Side A or Side B heating element calibration and press the knob to exit. Pick up the handpiece, and set the temperature to 250°C (482°F) or above. The calibration will begin once the temperature is stabilized. Turn the knob to select Side A/B calibration and press knob to exit (4-1-2)
- 4-1-3 Place the tinned soldering iron tip that requires calibration on the sensor and allow the solder to make full contact with the sensor
- without moving the soldering iron tip.

 4-1-4 When a long beeping sound is heard and the display exits the calibration interface, remove the tip from the sensor and close the protection lid. Automatic temperature calibration complete.

5. Menu

Press and hold the function knob for approximately 2 seconds to enter the menu interface(4-2-3). Six options are available for configuration. Press the function knob to select. Turn the function knob (4-2-2) to switch to another setting in the option or enter the option. Once done selection, press the function knob until you exit from the menu. The system will automatic ally save the setting changes.





6. Menu Password Change

iron tip in full contact with the

I-2 Temperature Calibration (Manual)

Calibrating.

Turn the function knob(4-2-2) to move the cursor, then, press the function knob(4-2-3) to edit the selection. Once in the editing interface, turn the function knob to select the desired number value. Once the password is entered, you'll be asked to enter the password again. Move the cursor to the "CANCEL" icon, and press the function knob to return to the menu interface. (the password will not be saved)Once the new password is set, the system automatically saves the entry and return to the menu interface

4-2-1 When the soldering station's temperature is stabilized, press and hold CH1 and CH2 button for approximately 2 seconds, the display will show value "CAL" and the set temperature of A/B heating element.

4-2-2 Press the CH1 or CH2 button to enter the measured temperature of A heating element; press CH3 or CH4 button to enter the measured

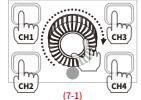
4-2-3 Press the function knob to confirm the entry. The system will automatically calibrate the temperature and exit the calibration interface.



7. Memory Channels CH1/CH2/CH3/CH4

in each memory channel for different needs. When soldering, you can select the suitable preset temperature configurations according to different soldering applications.

Press the corresponding memory channel button to select the channel. Turn the function knob to set the desired temperature for the corresponding channel. Once done setting, wait for approximately 4 seconds, temperature setting complete (7-1).



8. Cable Guide

Secure the cable guide and pull down the cable tie. Insert the cable to the slot of the cable guide and pull up the cable tie. The cable will be securely fastened.

(Note: We recommend installing the cable guide leaning backwards.)

9. Sleep Mode

This function extends the lifespan of the heating element, conserves energy, and protects the environment.

When the soldering iron is placed back into the holder, the soldering iron will enter sleep mode (9-1). When the set temperature is 200°C (392°F) or higher, the temper ature will cool to 200°C(392°F); when the set temperature is below 200°C(392°F), the temperature will remain unchanged. Pick up the soldering iron to wake the station.





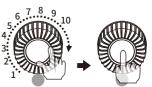
10. Automatic Stand-by

D.

(4-2-2)

(4-2-3)

Preset the timer (1-10 minutes). After reaching the preset time during sleep mode, the soldering station will enter standby mode. Pick up the soldering iron to restart the soldering station (10-1).



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(10-1)