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› QUICKO DC24V T12-942 Digital Soldering Station Instruction Manual

QUICKO T12-942

QUICKO DC24V T12-942 Digital Soldering Station Instruction Manual

1. PRODUCT OVERVIEW

The QUICKO DC24V T12-942 is a compact digital soldering station designed for precision soldering tasks. It features adjustable temperature control, rapid heating, and intelligent functions like auto-sleep and auto-power off to enhance efficiency and safety. This station is compatible with various DC power sources, offering versatility for different work environments.



Image: QUICKKO T12-942 Digital Soldering Station with a K-tip soldering iron connected.

2. SETUP INSTRUCTIONS

2.1 Power Supply Connection

The T12-942 soldering station requires a DC24V power supply (not included). It features a DC5.5*2.1 power jack and is compatible with DC5.5*2.5 power adapters. This allows for flexible power options, including laptop power adapters, LiPo batteries, or car power supplies.

- Ensure the power supply provides 24V DC.
- Connect the power adapter to the DC IN 24V4A port on the back of the soldering station.
- **Important:** The power supply is not included with this product.



DC5.5*2.1 INTERFACE

Suitable for the following power supply



Image: Rear view of the soldering station, highlighting the DC IN 24V4A power input and the power switch.

2.2 Soldering Tip Installation

To install the soldering tip:

1. Unscrew the nut on the soldering iron handle.
2. Insert the T12-K soldering tip into the handle.
3. Securely tighten the nut to hold the tip in place.
4. Connect the soldering iron handle cable to the corresponding port on the soldering station.

8S Melt of tin

Full power operation

When the T12-942 soldering station is operated under a 24V3A (full power) voltage environment, lead-free tin wire can be used to achieve 8 seconds melt of tin.



Image: A visual guide demonstrating the four steps to correctly install a T12-K soldering tip into the iron handle.

2.3 Initial Power On

After connecting the power supply and soldering iron, switch on the unit. The OLED display will show the current status. During initial use, it is normal for the display to show a temperature jump or an "ERROR" message. This stabilizes after repeated use.

Your browser does not support the video tag.

Video: This video demonstrates the quick heating capability and basic operation of the T12-942 Mini Soldering Station, including power-up and temperature adjustment.

3. OPERATING INSTRUCTIONS

3.1 Temperature Adjustment

The soldering station offers an adjustable temperature range of 200°C to 480°C, suitable for various soldering applications. Use the rotary encoder knob on the front panel to adjust the desired temperature. Rotate clockwise to increase temperature and counter-clockwise to decrease.

3.2 Display Information

The 0.96-inch OLED display provides real-time information about the soldering station's status:

- **Initial State of Power Off:** Shows basic product identification.
- **Non-plugged Iron Tip:** Displays an "ERROR" message if the soldering tip is not properly connected.
- **Normal Working State:** Shows the set temperature, current temperature, and power percentage.
- **One-press Strong Temperature (Boost):** Indicates when the boost function is active, temporarily increasing the temperature.



Image: Visual examples of the OLED display in various states, including initial power-off, error for a non-plugged tip, normal operation, and temperature boost mode.

3.3 Auto-Sleep and Auto-Power Off

The station includes intelligent features to conserve energy and prolong tip life:

- **Auto-Sleep:** If the soldering iron remains idle for a set period (default 1 minute), it enters a dormant state, reducing the tip temperature to 150°C. Moving the handle or rotating the encoder will quickly reactivate it to the set working temperature.
- **Auto-Power Off:** After an extended period of inactivity in sleep mode, the unit will automatically power off.

These features can be adjusted or turned off via the menu. To access the menu, press the rotary encoder. Options include: 1. Calibration, 2. Auto Sleep, 3. Auto Power Off.



Image: An illustration detailing the menu interface for adjusting auto-sleep and auto-power off settings on the soldering station.

3.4 One-Key Temperature Boost

The station features a one-key temperature boost function for demanding soldering tasks. This temporarily increases the tip temperature to provide extra heat when needed.

3.5 Rapid Tin Melting

When operated under a 24V 3A power environment, the T12-942 soldering station can melt lead-free tin wire in approximately 8 seconds, demonstrating its rapid heating capability.



Image: A graphic representation highlighting the soldering station's ability to melt tin within 8 seconds under full power operation.

4. MAINTENANCE

4.1 Soldering Tip Care

- Always ensure the nut for the soldering head is tightened to prevent the tip from falling or being damaged.
- For optimal tip longevity, it is recommended that the working temperature does not exceed 380°C.
- Regularly clean the soldering tip using a damp sponge or brass wool to remove excess solder and oxidation.
- After use, tin the tip with a small amount of fresh solder to prevent oxidation during storage.

Description for display

Note: after confirming the installation of the components is right, the new iron tip is inserted into the handle and the display screen will be a flash or ERROR, and the host buzz is wrong. It's normal. After heating 5-20 minutes, it will return to normal gradually. Temperature control range of main engine: 200°C -480 °C. The common welding temperature is 300°C -380°C. In order to protect the working life of the soldering iron tip, it is recommended that the temperature do not more than 380°C!



T12 SOLDERING
IRON STATION

Initial state of
power off

SET:300°C 0%
ERROR
24V 25°C

Non plugged
iron tip

SET:300°C 13%
300°C
24V 25°C

Normal
working state

BOOST:350°C 13%
300°C
24V 25°C

One press
strong temperature

Image: Detailed views of the soldering iron tip connection, the station's input ports, and internal circuitry, emphasizing components relevant to maintenance.

4.2 General Cleaning

Wipe the station's exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the finish or internal components.

5. TROUBLESHOOTING

- **Display shows "ERROR" or temperature jump on initial use:** This is normal for a new T12 soldering iron tip. After repeated use (approximately 40 minutes), the temperature will stabilize. Ensure the tip is correctly installed and the nut is tightened.
- **Soldering iron not heating:** Check if the power supply is connected and turned on. Verify that the soldering iron handle is securely plugged into the station. Ensure the soldering tip is properly inserted and tightened.
- **Inconsistent temperature:** Perform temperature calibration if available in the menu. Ensure the power supply is stable and provides sufficient current (e.g., 24V 3A).
- **Unit does not power on:** Check the power connection and the power switch on the back of the unit.

6. SPECIFICATIONS

Feature	Specification
Model	T12-942
Power Output	Maximum 75W
Voltage	DC24V
Temperature Range	200°C ~ 480°C (392°F ~ 896°F)
Temperature Stability	High stability
Display Type	OLED (0.96 inch)
Power Jack	DC5.5*2.1 (compatible with DC5.5*2.5)
Features	Auto sleep, Auto power-off, One-key temperature boost
Included Components	1 x T12-942 Soldering Iron, 1 x T12-K Soldering Tip, 1 x T12-907 Handle
Product Dimensions	1.5 x 1.61 x 1.5 inches (approx. 38 x 41 x 38 mm)
Item Weight	8.7 ounces



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0.96 inch display

The T12-942 soldering station is made of metal case, 0.96-inch display and transparent filter film to make the display data clearer.

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Matters needing attention

When using the T12 iron tip please tighten the nut for soldering head to avoid falling and damaging the iron tip. The temperature will be reached above 350°C of soldering station is used for 40 minutes, and the temperature of the front end of the handle will be reached 50°C -60 °C. When the new T12 soldering iron tip is used for the first time, Host will appear temperature jump and display ERROR, it will become a normal phenomenon due to the heating of the inner galvanic couple part of the iron tip. After repeated use several times, the temperature will be stabled.

Image: A diagram illustrating the physical dimensions of the QUICKO T12-942 soldering station.

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller directly. Specific warranty terms and support channels may vary.