

## YIHUA 982D SE 210

# YIHUA 982D SE 210 Micro Soldering Station Instruction Manual

Model: 982D SE 210

## 1. IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before operating the YIHUA 982D SE 210 Micro Soldering Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from solder splashes and fumes.
- **Ventilation:** Use the soldering station in a well-ventilated area or with a fume extractor to avoid inhaling harmful solder fumes.
- **Hot Surfaces:** The soldering iron tip and surrounding metal parts become extremely hot during operation. Avoid contact with skin and flammable materials.
- **Proper Handling:** Always return the soldering iron to its holder when not in use. Do not leave a hot iron unattended.
- **Electrical Safety:** Ensure the power cord is undamaged and properly connected to a grounded outlet. Do not operate the station with wet hands.
- **ESD Protection:** The soldering station is ESD-safe. However, always take additional electrostatic discharge (ESD) precautions when working with sensitive electronic components.
- **Children and Pets:** Keep the soldering station out of reach of children and pets.

## 2. PRODUCT OVERVIEW

The YIHUA 982D SE 210 is a 200W micro soldering station designed for precision soldering tasks. It features rapid heating, PID temperature control, customizable preset channels, and an automatic temperature calibration function.



Figure 2.1: YIHUA 982D SE 210 Micro Soldering Station and accessories.

### 3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x YIHUA 982D SE C210 Soldering Station (Main Unit)
- 1 x C210 Micro Soldering Handpiece
- 4 x Cartridge Soldering Tips (C210 I/SI/SK/K)
- 1 x Lead-Free Solder Wire Spool
- 6 x Thermocouples (1 pre-installed)
- 1 x Cable Guide
- 1 x Power Cord

# In the Package



Figure 3.1: All components included in the YIHUA 982D SE 210 Micro Soldering Kit.

## 4. SETUP INSTRUCTIONS

- 1. Unpack Components:** Carefully remove all items from the packaging and verify against the package contents list.
- 2. Position the Station:** Place the main unit on a stable, heat-resistant surface.
- 3. Connect Handpiece:** Plug the C210 Micro Soldering Handpiece into the receptacle on the back of the main unit.
- 4. Install Soldering Tip:** Select the desired cartridge soldering tip. Insert the tip firmly into the handpiece until it clicks into place. The station includes a tip installation/removal tool integrated into the holder for safe handling of hot tips.
- 5. Set up Solder Wire Dispenser:** Mount the solder wire spool onto the dispenser located on top of the main unit. Thread the solder wire through the guide.
- 6. Attach Cable Guide:** Install the cable guide to manage the handpiece cable, preventing tangles and improving workspace organization.
- 7. Connect Power:** Plug the power cord into the main unit and then into a grounded electrical outlet.



Figure 4.1: Key features and connection points of the YIHUA 982D SE 210 Soldering Station.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

Press the 'ON/OFF' switch located on the side of the main unit to power the station on or off.

### 5.2 Display Overview

The full-color display provides real-time information about the soldering station's status.

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Video 5.1: This video demonstrates the display interface of the YIHUA 982D SE 210, highlighting actual temperature, set temperature, function status, power meter, preset channel, and the active handpiece.

- **ACTL TEMP:** Displays the actual temperature of the soldering tip.
- **SET TEMP:** Shows the target temperature set by the user.
- **Function Status:** Icons indicate active functions like sleep mode or standby mode.
- **Power Meter:** Indicates the power consumption of the heating element.
- **Preset Channel:** Shows the currently selected preset temperature channel (CH1-CH4).
- **Handpiece in Use:** Identifies which handpiece is currently connected and active.

## 5.3 Temperature Setting and Preset Channels

The station supports PID temperature control with an adjustable range from 194°F to 842°F (90°C to 450°C).

1. **Adjusting Temperature:** Use the rotary knob on the main unit to precisely adjust the set temperature.
2. **Preset Channels:** The station features 4 customizable preset temperature channels (CH1-CH4). Press the corresponding channel button to quickly switch between your saved temperatures. To save a temperature, set the desired temperature, then press and hold the channel button until the setting is confirmed.
3. **Handpiece Shortcut Buttons:** The handpiece includes '+' and '-' buttons for quick temperature adjustments during operation.

## 5.4 Ultra-Fast Heating

The 200W precision soldering station provides rapid heating, melting solder in approximately 2 seconds, ensuring readiness upon pick-up.

## 5.5 Automatic Temperature Calibration

The station features automatic temperature calibration with a built-in thermometer. This eliminates the need for an external thermometer when changing tips of different thermal mass, saving time and ensuring accurate temperature readings.

## 5.6 Sleep Mode and Standby Mode

- **Sleep Mode:** When the soldering iron is placed in its holder, it automatically enters sleep mode, idling at 200°C. This reduces unnecessary wear on the tip and saves energy.
- **Standby Mode:** After a user-defined period in sleep mode, the station will enter standby mode, further reducing power consumption and preventing unsupervised operation for enhanced safety.

## 5.7 Integrated Cleaning Tools

The soldering station holder integrates essential cleaning tools:

- **Cleaning Sponge:** For wet cleaning of the soldering tip. Ensure the sponge is damp, not soaking wet.
- **Tip Cleaner (Brass Wool):** For dry cleaning of the soldering tip, effectively removing oxidation and excess solder without significant temperature drop.

## 5.8 Menu Settings

Access the menu by pressing the 'MENU' button. Use the rotary knob to navigate and select options.

- **Buzzer Feedback:** Turn the audible feedback on or off.
- **Temperature Unit:** Switch between Celsius (°C) and Fahrenheit (°F).
- **Function Lock:** Enable or disable locking of certain functions to prevent accidental changes.
- **Password:** Set a password to protect settings.
- **Standby Timer:** Adjust the duration before the station enters standby mode.

# 6. MAINTENANCE

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## 6.1 Soldering Tip Care

- **Cleaning:** Regularly clean the soldering tip using the integrated brass wool or damp sponge to remove

oxidation and ensure efficient heat transfer.

- **Tinning:** Always tin the tip with a small amount of fresh solder before storing and after cleaning to prevent oxidation.
- **Replacement:** Replace worn or damaged tips promptly to maintain optimal soldering performance. Use the provided tip installation/removal tool for safe handling.

## 6.2 Station Cleaning

Wipe the main unit and holder with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the unit is powered off and unplugged before cleaning.

## 7. TROUBLESHOOTING

If you encounter issues with your YIHUA 982D SE 210 Soldering Station, consider the following:

- **No Power:** Check the power cord connection and ensure the 'ON/OFF' switch is in the 'ON' position. Verify the power outlet is functional.
- **Iron Not Heating:** Ensure the handpiece is securely connected to the main unit and the soldering tip is correctly installed. Check the set temperature on the display.
- **Inconsistent Temperature:** Clean the soldering tip. Ensure the tip is fully seated in the handpiece. Perform an automatic temperature calibration if necessary.
- **Error Messages:** Refer to the full user manual (if available) for specific error code interpretations or contact customer support.

## 8. SPECIFICATIONS

Feature	Specification
Manufacturer	Guangzhou Yihua Electronic Equipment Co., Ltd.
Item Weight	3.4 pounds
Package Dimensions	9.25 x 8.66 x 6.69 inches
Item Model Number	210
Power Source	AC
Included Components	1 x Cable Guide, 1 x Handpiece, 1 x YIHUA 982D SE C210 soldering station, 4 x cartridge soldering tips, 6 x Thermocouples
Batteries Required?	No
ASIN	B0FCM4FB69
Date First Available	June 10, 2025
Global Trade Identification Number	06978139052723

## 9. WARRANTY AND SUPPORT

The YIHUA 982D SE 210 Micro Soldering Station comes with a **12-month US-exclusive manufacturer**

**technical coverage.** For any technical assistance or support inquiries, please utilize the **24/7 professional assistance available on Amazon.**