

YIHUA 982 C210

YIHUA 982 Precision Soldering Kit User Manual

Model: YIHUA 982 C210

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of your YIHUA 982 Precision Soldering Kit. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury.

The YIHUA 982 is a precision soldering station designed for intricate work, featuring rapid heating, a digital LCD, and advanced temperature control. It utilizes C210 cartridge-type soldering tips for optimal performance.

2. SAFETY INFORMATION

WARNING: High temperatures are involved. Always exercise caution to prevent burns and fire hazards.

- Ensure the soldering station is placed on a stable, heat-resistant surface.
- Do not touch the soldering tip or heating element when the unit is powered on or cooling down.
- Always use in a well-ventilated area to avoid inhaling solder fumes.
- Wear appropriate personal protective equipment, including safety glasses.
- Keep out of reach of children and pets.
- Disconnect the power cord from the outlet before cleaning or performing maintenance.
- Never use the soldering station near flammable materials or gases.
- Only use genuine YIHUA replacement parts and accessories.

3. PACKAGE CONTENTS

Verify that all items are present in your YIHUA 982 Precision Soldering Kit package:

- YIHUA 982 Soldering Station
- Precision Soldering Iron Handpiece
- C210 Cartridge-Type Soldering Tips (various types, typically I, SI, K)

- Integrated Solder Wire Dispenser
- Integrated Cleaning Kit (brass wool, cleaning sponge)
- Soldering Iron Holder with protective metal mesh
- Handpiece Cable Guide
- Power Cord (Type-F EU plug for 230V AC)
- User Manual

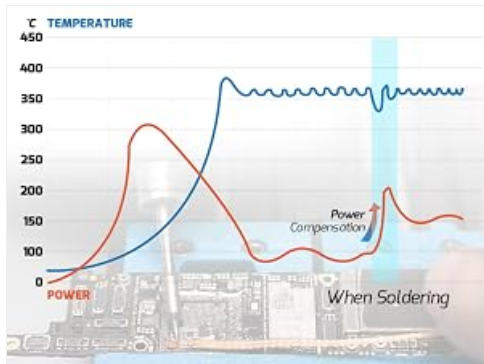


Image: Components of the YIHUA 982 Precision Soldering Kit.

4. PRODUCT OVERVIEW

The YIHUA 982 soldering station features a compact design with an intuitive interface for precise temperature control and efficient soldering operations.

Digital LCD Display

The digital LCD provides real-time information, including the actual temperature, set temperature, power meter, selected preset channel, and feedback from the control knob and buzzer. The power meter indicates the real-time power output, allowing you to monitor the soldering iron's status.



The image shows a close-up of the YIHUA 982 digital LCD display and preset channel buttons. The display is blue with white text and numbers. It shows '450 °C' for the current temperature and '450 °C' for the set temperature. The display also shows 'CH1', 'CH2', 'CH3', and 'CH4' for the preset channels. The buttons are labeled 'CH1', 'CH2', 'CH3', and 'CH4'. The device has a green body and a silver faceplate. A rotary knob is located between the buttons. The model number '982' is visible on the faceplate.

Digital LCD Display

Preset Channels

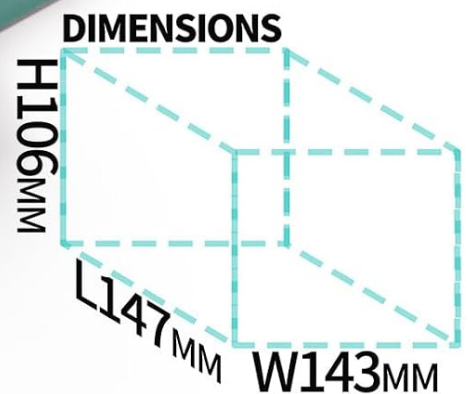


Image: Close-up of the YIHUA 982's digital LCD display and preset channel buttons.

Integrated Features

The station includes an integrated metal rack for convenient tip storage and exchange. A raised cable guide helps manage the soldering handpiece cable, improving maneuverability. The built-in solder wire dispenser and cleaning kit (brass wool and sponge) provide a complete workstation solution.

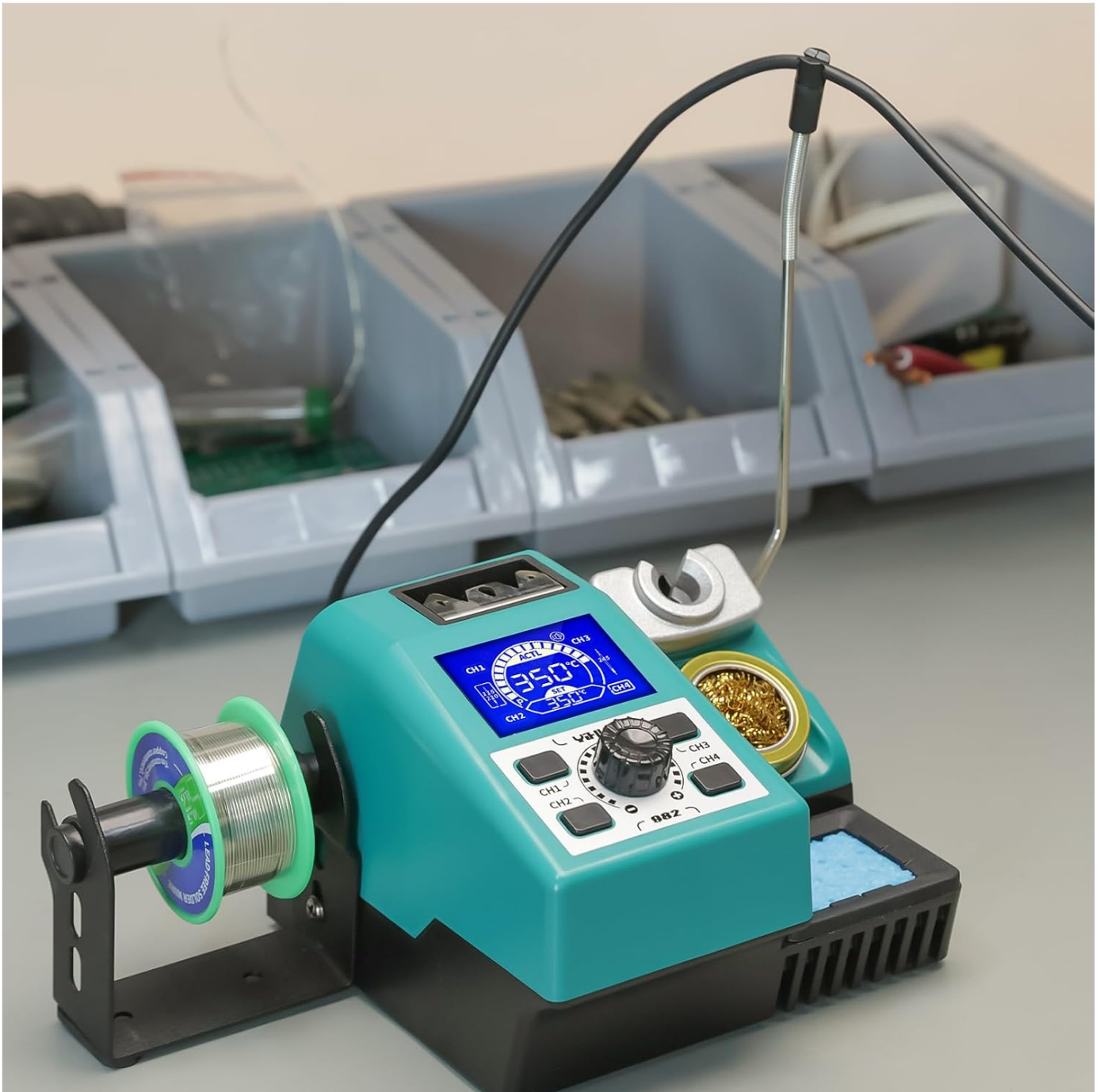


Image: The YIHUA 982 soldering station with its integrated solder wire dispenser and cleaning tools.

5. SETUP

1. **Placement:** Place the soldering station on a stable, heat-resistant, and non-flammable surface. Ensure adequate ventilation.
2. **Power Connection:** Connect the power cord to the station and then to a grounded 230V AC power outlet.
3. **Handpiece Connection:** Connect the soldering iron handpiece to the designated port on the station.
4. **Tip Installation:** Select the desired C210 cartridge tip. Insert the tip fully into the handpiece until the marking line on the heating element reaches the rim of the handpiece's receptacle. Ensure it is securely seated for proper heating and temperature sensing.

Installation Guide

Heating Element / Soldering Tip



Heating Element
not installed correctly
Not fully inserted

NOTE: Please ensure the marking line on the heating element has reached the rim of the handpiece's receptacle.



Heating Element
installed correctly
Insert tip fully to the bottom

Image: Visual guide for correct soldering tip installation. The tip must be fully inserted.

5. **Solder Wire Dispenser:** Mount the solder wire dispenser onto the station and load your preferred solder wire.
6. **Cable Guide:** Attach the handpiece cable guide to the station. Thread the soldering iron cable through the guide to enhance maneuverability and prevent cable entanglement during use.

Your browser does not support the video tag.

Video: Demonstrates the setup of the YIHUA 982 Precision Soldering Kit, including the cable guide and other accessories.

6. OPERATING INSTRUCTIONS

Power On/Off

Press the power switch to turn the station on. The LCD will illuminate, displaying the current settings. Press the switch again to power off the unit.

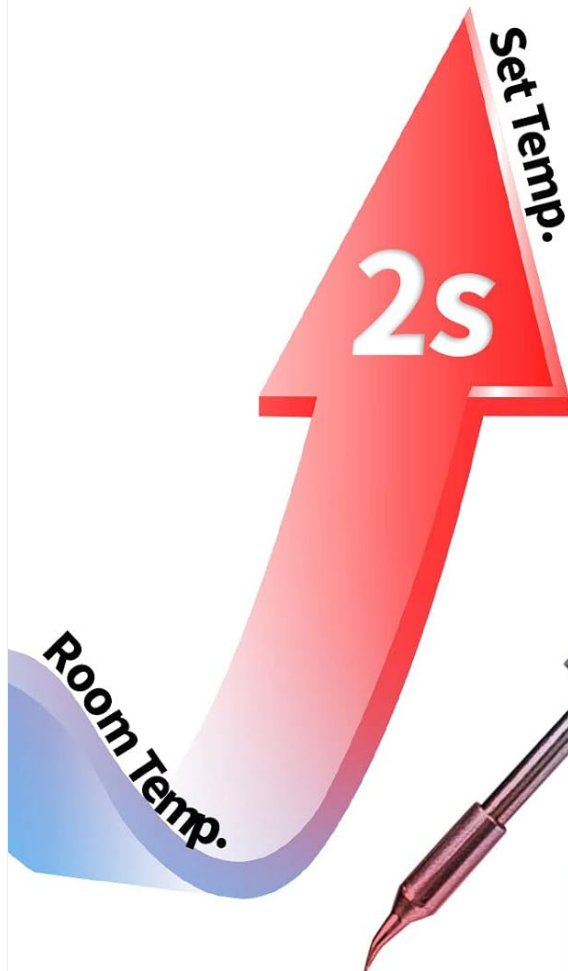
Temperature Adjustment

The YIHUA 982 allows temperature settings from 90°C to 450°C. Use the control knob to adjust the desired temperature.

The digital LCD will show both the set temperature and the actual tip temperature.

Adjustable Temperature with PID Temperature Stabilization

90~450°C



Rapid Heating

Image: Illustrates the rapid heating capability of the YIHUA 982, reaching set temperature from room temperature in 2 seconds.

Preset Channels

The station features 4 customizable preset channels (CH1, CH2, CH3, CH4). You can save frequently used temperature settings to these channels for quick recall. To save a temperature, set the desired temperature, then press and hold the corresponding channel button until the setting is confirmed.

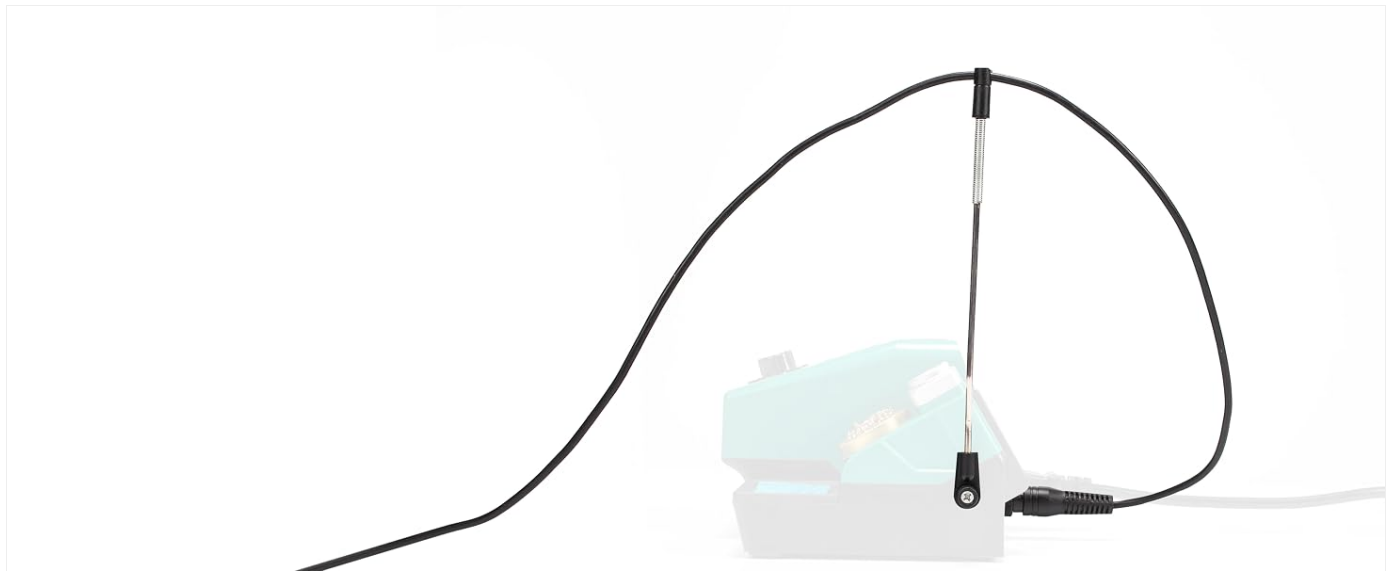


Image: Shows the preset channel buttons and their typical default temperatures.

PID Temperature Stabilization

The YIHUA 982 employs PID (Proportional-Integral-Derivative) temperature stabilization to maintain a constant tip temperature, even during heavy soldering tasks. This ensures consistent heat delivery and prevents temperature fluctuations.



Image: Graph illustrating stable temperature output with power compensation during soldering, thanks to PID control.

Sleep Mode and Automatic Shutdown

The station features a sleep mode that automatically cools the tip to 200°C when the iron is placed in its holder, reducing wear and extending tip life. If left dormant for more than 30 minutes, the unit will automatically shut down for safety and energy saving.



Low-wear Idling Mode

Cools to **200°C** by default when inside the holder



Automatic Shutdown

When exceeding **30 minutes** dormant time

Image: Depicts the low-wear idling mode (sleep mode) and the automatic shutdown feature.

Celsius/Fahrenheit Conversion

The temperature display can be switched between Celsius (°C) and Fahrenheit (°F) as per user preference. Refer to the full product manual for specific button combinations or menu options to perform this conversion.

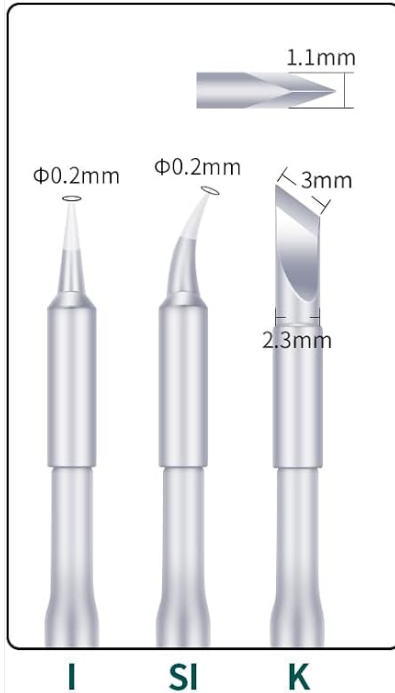
7. MAINTENANCE

Soldering Tip Care

Proper tip maintenance is crucial for optimal performance and longevity. Always keep the tip coated with solder when not in use to prevent oxidation. Clean the tip regularly using the integrated brass wool or damp sponge.

Tip Size Reference: Cartridge-Type Soldering Tips

C210



AVOID OXIDATION



Keep the tip
coated with solder



C245

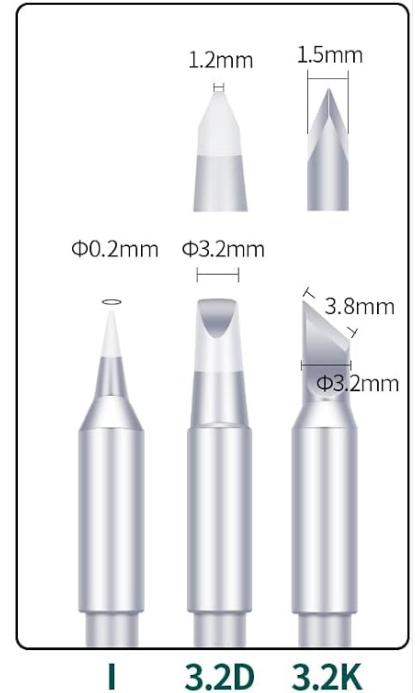


Image: Illustrates the importance of keeping the soldering tip coated with solder to avoid oxidation.

Cleaning the Station

Ensure the unit is powered off and unplugged before cleaning. Use a soft, dry cloth to wipe down the exterior of the station. Do not use abrasive cleaners or solvents. Regularly clean the brass wool and replace the sponge as needed.



Temporary Tip Storage



Solder Wire Dispenser



Soldering Iron Holder



Cleaning Tools

Image: Shows the integrated cleaning tools and temporary tip storage on the YIHUA 982 station.

8. TROUBLESHOOTING

• Iron Not Heating:

- Check if the power cord is securely connected and the power switch is on.
- Ensure the soldering iron handpiece is properly connected to the station.
- Verify that the soldering tip is fully inserted into the handpiece. An improperly seated tip may not heat correctly.
- If the tip is old or heavily oxidized, it may need cleaning or replacement.

• Temperature Instability:

- Ensure the tip is clean and properly tinned.
- Check for proper tip installation.
- If the issue persists, perform a digital temperature calibration as described in the full product manual.

• Display Errors:

- If the display shows an error code, refer to the comprehensive troubleshooting section in the full product manual for specific meanings and solutions.
- Try powering off the unit, waiting a few seconds, and powering it back on.

• **Buzzer Feedback:**

- The buzzer provides audible feedback for certain operations or warnings. Consult the full product manual to understand specific buzzer patterns.

For persistent issues, please contact YIHUA customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	YIHUA
Model Number	YIHUA 982 C210
Voltage	230 Volt
Wattage	22500 Watt (Note: This value seems unusually high and might refer to peak power or a misinterpretation. Typical soldering stations are 60-150W. Please verify with product documentation.)
Display Type	LCD
Temperature Range	90°C - 450°C
Temperature Stability	Maintains constant temperature (PID controlled)
Number of Channels	4 (Preset)
Power Plug Type	Type-F EU

10. WARRANTY AND SUPPORT

The YIHUA 982 Precision Soldering Kit comes with a 12-month technical coverage period. YIHUA EU Official Store provides professional technical support 24/7 on Amazon. For any questions, suggestions, or technical assistance, please contact our support team through the Amazon platform. You can visit the official YIHUA store on Amazon for more information and products:[YIHUA Official Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question