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YIHUA YIHUA 982D SE C245

# YIHUA 982D SE 200W Micro Soldering Station User Manual

Model: YIHUA 982D SE C245

Brand: YIHUA

## 1. INTRODUCTION

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The YIHUA 982D SE is a high-performance 200W micro soldering station designed for precision soldering tasks. It features a C245 precision soldering iron with rapid heating capabilities, automatic temperature calibration, and a user-friendly interface. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your soldering station.



Figure 1: YIHUA 982D SE Micro Soldering Station in operation.

## 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, contact customer support.

- YIHUA 982D SE Main Unit (1x)
- Power Cord (1x)
- Cable Guide (1x)
- C245 General Soldering Handpiece (1x)
- C245 Cartridge Soldering Tips (7x: 1/S1/2.4D/3.2D/3C/3.2K/4.7K)
- Lead-Free Solder Wire (1x)
- Thermocouples (6x, 1 pre-installed)
- Soldering Iron Holder with Cleaning Tools

# In the Package



Figure 2: Contents of the YIHUA 982D SE package.

## 3. PRODUCT FEATURES OVERVIEW

The YIHUA 982D SE soldering station is equipped with advanced features for efficient and precise soldering:

- **200W High Performance:** Provides rapid heating, melting solder in as little as 2 seconds.
- **C245 Precision Soldering Iron:** Compatible with C245 cartridge tips for versatile applications.
- **PID Temperature Control:** Adjustable temperature range from 90°C to 450°C for stable and accurate heating.
- **Automatic Temperature Calibration:** Built-in thermometer for quick and accurate calibration when changing tips.
- **Customizable Preset Channels:** Four programmable temperature channels for frequently used settings.
- **Safety Features:** Includes sleep mode, standby mode, and ESD safe design.
- **User-Friendly Display:** Tiltable color LCD screen for clear visibility of actual temperature, set temperature, power meter, and function status.
- **Integrated Cleaning Tools:** Metallic soldering iron holder with a shock-absorbing cleaning sponge and an anti-splash tip cleaner.

# High Performance Soldering Station

for general and micro soldering



Figure 3: High-performance features of the YIHUA 982D SE.



Figure 4: Detailed view of the YIHUA 982D SE main unit with labeled components.

## 4. SETUP INSTRUCTIONS

1. **Unpack the Unit:** Carefully remove all components from the packaging.
2. **Place the Station:** Position the main unit on a stable, heat-resistant surface. Ensure adequate ventilation.
3. **Connect the Handpiece:** Plug the C245 soldering handpiece into the receptacle on the main unit.
4. **Install a Soldering Tip:** Select the desired C245 cartridge tip and insert it firmly into the handpiece.
5. **Connect Power:** Plug the power cord into the main unit and then into a compatible 230V AC power outlet (EU plug type F).
6. **Power On:** Flip the power switch to the 'ON' position. The display will illuminate.

## 5. OPERATING INSTRUCTIONS

This section details the operational aspects of your YIHUA 982D SE soldering station.

### 5.1 General Operation and Features Demonstration

Your browser does not support the video tag.

This video demonstrates the key features and operation of the YIHUA 982D SE soldering station, including ultra-fast heating, customizable temperature presets, integrated cleaning tools, tip replacement, and safety modes like sleep and standby.

## 5.2 Temperature Adjustment

- **Rotary Knob:** Use the main rotary knob to adjust the target temperature. The display will show both actual and set temperatures.
- **Preset Channels (CH1-CH4):** Press the CH1, CH2, CH3, or CH4 buttons to quickly switch between your pre-configured temperature settings. To set a preset, adjust the temperature using the rotary knob, then press and hold the desired channel button until it saves.
- **Handpiece Shortcut Buttons:** The soldering handpiece features '+' and '-' buttons for quick temperature adjustments during operation.

## 5.3 Display and Menu Functions

The color LCD display provides real-time information. Press the 'MENU' button to access settings such as:

- **Buzzer Feedback:** Toggle audible alerts ON/OFF.
- **Temperature Unit:** Switch between Celsius (°C) and Fahrenheit (°F).
- **Function Lock:** Enable/disable to prevent accidental changes to settings.
- **Password:** Set a password for enhanced security.
- **Standby Timer:** Adjust the duration before the unit enters standby mode.

## 5.4 Safety Modes

- **Sleep Mode:** When the iron is placed in its holder, the unit will automatically reduce the tip temperature to 200°C after a set period (adjustable via standby timer) to reduce unnecessary wear and prolong tip life.
- **Standby Mode:** If the iron remains in sleep mode for an extended period, the unit will enter standby mode, further reducing power consumption and preventing unsupervised operation for better user safety.

# 6. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your soldering station.

## 6.1 Soldering Tip Care

- **Cleaning:** Regularly clean the soldering tip using the integrated cleaning sponge (dampened) or the tip cleaner (brass wool). This removes oxidation and old solder, ensuring efficient heat transfer.
- **Tinning:** Always tin the tip with a fresh layer of solder before and after use, and before placing it in the holder for sleep/standby. This prevents oxidation.
- **Tip Replacement:** To replace a tip, use the provided tip installation/removal tool. Carefully pull the old tip out and insert a new one. Ensure the unit is powered off or in sleep/standby mode before changing tips.

## 6.2 General Cleaning

- Wipe the main unit and handpiece with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Ensure no liquids enter the unit.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your YIHUA 982D SE soldering station.

- **No Power:** Check the power cord connection and ensure the power switch is ON. Verify the power outlet is functional.
- **Iron Not Heating:** Ensure the handpiece is securely connected. Check if the tip is properly installed. If the unit is in sleep or standby mode, pick up the iron to reactivate.
- **Inaccurate Temperature Reading:** Perform an automatic temperature calibration using the built-in thermometer. Ensure the tip is clean and tinned.
- **Solder Not Melting:** Increase the set temperature. Ensure the tip is clean and properly tinned. Verify the tip is making good contact with the component and solder.
- **Error Messages:** If an error code appears on the display, power off the unit, wait a few seconds, and power it back on. If the error persists, contact customer support.

## 8. SPECIFICATIONS

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Specification	Value
Manufacturer	Guangzhou Yihua Electronic Equipment Co., Ltd.
Model Number	YIHUA 982D SE C245
Package Dimensions	24.8 x 22.3 x 16 cm
Product Weight	1.61 kg
Power Source	AC
Electrical Power	200 Watts
Display Type	LCD
Temperature Stability	90 degrees_celsius (This value seems incorrect for stability, likely a minimum temperature or a typo in source data. Assuming it refers to a range or a specific stability parameter, but keeping as is from source.)
Rated Upper Temperature	450 Degrees Celsius

## 9. WARRANTY AND SUPPORT

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The YIHUA 982D SE soldering station comes with a 12-month technical coverage for the EU. For any technical assistance, questions, or suggestions, professional technical support is available 24/7. Please refer to your purchase documentation for specific contact details or visit the official YIHUA store on Amazon.

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