



Manuals.plus /

› YIHUA /

› YIHUA 928D-III Soldering Iron User Manual

YIHUA 928D-III

YIHUA 928D-III Soldering Iron User Manual

Model: 928D-III | Brand: YIHUA

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your YIHUA 928D-III 110W Digital Soldering Iron. Please read this manual thoroughly before operating the device and retain it for future reference.

SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the soldering iron:

- Ensure the soldering iron is connected to a 110-127V power supply with a US-standard power plug.
- Always place the hot soldering iron in its designated heat-resistant stand when not in use.
- Do not touch the hot soldering tip or heating element. Temperatures can reach up to 896°F (480°C).
- Work in a well-ventilated area to avoid inhaling solder fumes.
- Wear appropriate personal protective equipment, such as safety glasses, to protect against splashes of molten solder.
- Keep the soldering iron away from flammable materials.
- Turn off the soldering iron using the power switch when not in active use, even if still plugged in.
- Do not use the soldering iron if the power cord or plug is damaged.
- Keep out of reach of children.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x YIHUA 928D-III 110W Portable Soldering Iron (110V)
- 1 x X-4 Heat-Resistant Soldering Iron Stand
- 4 x Quality Soldering Tips (Default Type-B, K, 2.4D, 3.2D)
- 1 x Tip Cleaner (Brass Wool)
- 1 x Cleaning Sponge

ESSENTIAL TOOLS INCLUDED



Image: The YIHUA 928D-III Soldering Iron kit, showing the soldering iron, stand, brass wool tip cleaner, cleaning sponge, and four soldering tips.

PRODUCT FEATURES AND COMPONENTS

The YIHUA 928D-III soldering iron is designed for precision and ease of use. Key components and features include:

- **110W High Power:** Ensures efficient heating and temperature recovery.
- **Digital Display:** Provides real-time temperature readings in both Fahrenheit (°F) and Celsius (°C).
- **Temperature Control:** Accurate adjustment from 194°F to 896°F (90°C to 480°C).
- **ON/OFF Switch:** For enhanced safety and convenience.
- **Automatic Sleep Mode:** Conserves energy and extends tip life when idle.
- **Digital Temperature Correction:** Allows for precise calibration.
- **Portable Design:** Lightweight at only 197g (0.43 lbs).
- **Heat-Insulating Comfort Grip:** For comfortable and safe handling.

- **Solid Steel Tube Enclosure:** Durable construction for the heating element.
- **Interchangeable Tip Installation Sleeve:** Facilitates easy tip changes.



Image: A detailed view of the YIHUA 928D-III Soldering Iron, highlighting its quality power cord, independent power switch, digital temperature adjustment buttons, real-time digital display, heat-insulating comfort grip, solid steel tube enclosure, and interchangeable tip installation sleeve.

DIGITAL PRECISION

The 928D-III High Power Digital Soldering Iron comes with a digital real-time display to show you information such as temperature settings, iron's actual temperature, settings menus, and more.

F TEMP. UNIT
CONVERSION

896 Real-Time
Temp. Display

CAL TEMPERATURE
CALIBRATION



Image: The digital display of the YIHUA 928D-III Soldering Iron, illustrating its capabilities for temperature unit conversion, real-time temperature display, and temperature calibration.

SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Assemble Soldering Iron Stand:** Place the X-4 heat-resistant soldering iron stand on a stable, heat-proof surface. Ensure the brass wool tip cleaner and cleaning sponge are correctly seated in their compartments.
3. **Install Soldering Tip:** Select the desired soldering tip. Ensure the soldering iron is cool and unplugged. Unscrew the tip installation sleeve, insert the chosen tip fully into the heating element, and then securely re-tighten the sleeve.
4. **Power Connection:** Plug the soldering iron's power cord into a standard 110-127V AC outlet.

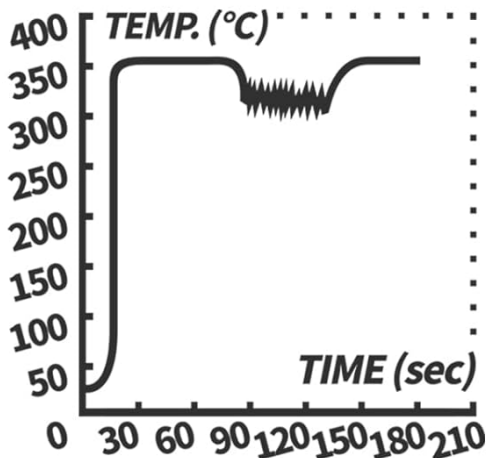
OPERATING INSTRUCTIONS

1. **Power On:** Press the ON/OFF switch located on the handle of the soldering iron. The digital display will illuminate, showing the current temperature.
2. **Temperature Adjustment:** Use the up and down arrow buttons to set your desired temperature. The temperature range is

194°F to 896°F (90°C to 480°C). The display will show the set temperature and then quickly return to the real-time temperature as it heats up.

3. **Temperature Unit Conversion:** The display can show temperature in either Fahrenheit (°F) or Celsius (°C). Refer to the product's specific button combination (usually holding one of the arrow buttons) to switch between units.
4. **Heating:** The iron will rapidly heat to the set temperature. The PID temperature stabilization system ensures quick temperature recovery during soldering.

QUICK HEATING with PID Temperature Stabilization



Temperature Recovery Graph

Tested with LEAD-FREE Solder

This station stabilizes the iron at the set temperature so you can work more efficiently. The temperature differences are detected and compensated in a continuous interval of every 20 milliseconds

Image: A graph illustrating the rapid temperature recovery of the YIHUA 928D-III Soldering Iron, tested with lead-free solder, demonstrating its efficient PID temperature stabilization.

5. **Automatic Sleep Mode:** If the soldering iron is idle for a set period (typically 10 minutes, check manual for exact time), it will automatically enter sleep mode, reducing the tip temperature to a lower, safer level to prevent oxidation and prolong tip life. Waking the iron is usually done by picking it up or pressing a button.
6. **Temperature Calibration:** Over time, the displayed temperature may deviate slightly from the actual tip temperature. The digital temperature correction feature allows you to calibrate the iron for accuracy. Consult the full product manual or manufacturer's website for detailed calibration steps.
7. **Soldering Applications:** This iron is suitable for a wide range of applications, including general electronics repair, circuit board work, and even stained glass projects.

WIDE RANGE OF APPLICATIONS

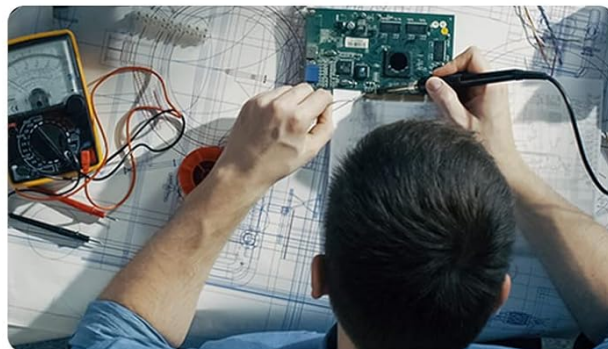
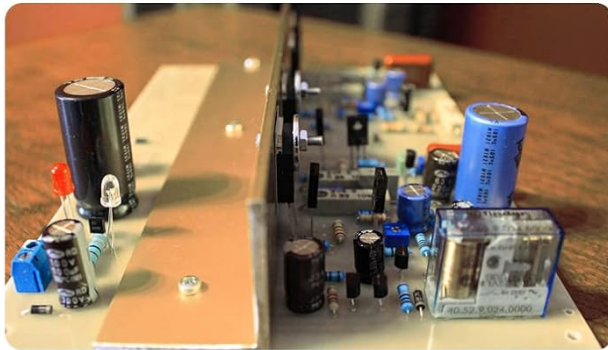


Image: The YIHUA 928D-III Soldering Iron being used to solder a stained glass piece, demonstrating its versatility for various crafting projects.

Especially Great for Stained Glass

Change the soldering iron tip to the knife-shaped type-K tip (included in the package) and **solder away.**



Image: A collage showing the YIHUA 928D-III Soldering Iron in various applications, including soldering circuit boards, working on electronic components, and repairing drones, highlighting its wide range of uses.

MAINTENANCE

- **Tip Cleaning:** Regularly clean the soldering tip using the brass wool provided. For stubborn residue, use the damp cleaning sponge. A clean tip ensures efficient heat transfer and better solder joints.
- **Tip Tinning:** After cleaning and before storing, always tin the tip with a small amount of solder. This prevents oxidation and prolongs tip life.
- **Tip Replacement:** When a tip becomes worn or damaged, replace it with a new compatible tip. Ensure the iron is cool and unplugged before changing tips.
- **General Cleaning:** Wipe down the body of the soldering iron with a soft, dry cloth. Do not use abrasive cleaners or solvents.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Iron not heating up.	Not plugged in; Power switch off; Faulty power outlet; Internal fault.	Check power connection; Turn on power switch; Try a different outlet; Contact support if issue persists.
Temperature display is erratic or inaccurate.	Loose tip; Sensor issue; Needs calibration.	Ensure tip is securely installed; Perform temperature calibration; Contact support if issue persists.
Solder not melting easily or poor joints.	Tip is dirty or oxidized; Temperature set too low; Incorrect tip for task.	Clean and tin the tip; Increase temperature; Use an appropriate tip for the application.
Iron enters sleep mode too quickly/not at all.	Sleep mode settings.	Refer to the full manual for adjusting sleep mode settings, if available.

SPECIFICATIONS

Feature	Detail
Model	YIHUA 928D-III
Power Source	Corded Electric
Wattage	110 watts
Voltage	110-127 Volts
Temperature Range	194°F - 896°F (90°C - 480°C)
Special Feature	Portable, Digital Display, Temperature Control, ON/OFF Switch, Automatic Sleep Mode
Handle Material	Brass
Item Weight	197 Grams (approx. 6.9 ounces)
Heating Element Type	Ceramic

WARRANTY AND SUPPORT

YIHUA offers a **12-month US-exclusive manufacturer technical coverage** for your 928D-III Soldering Iron. For any technical assistance or product inquiries, please utilize the **24/7 professional assistance** available on Amazon or contact YIHUA directly through their official channels.

For further information, visit the official YIHUA Store: [YIHUA Amazon Store](#)