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YIHUA 939D+, 305D-IV

YIHUA 939D+ Digital Soldering Station and 305D-IV DC Lab Power Supply User Manual

Model: 939D+, 305D-IV

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, setup, and maintenance of your YIHUA 939D+ Digital Soldering Station and YIHUA 305D-IV Regulated DC Lab Power Supply bundle. Please read this manual thoroughly before using the equipment.

Safety Information

- Always operate the units in a well-ventilated area.
- Wear appropriate personal protective equipment, including safety glasses.
- Do not touch the soldering iron tip or heating element when hot.
- Ensure the power supply is disconnected before making or changing connections.
- This equipment operates on 110-127V AC. Ensure your power source matches this requirement.
- Keep out of reach of children.

2. PACKAGE CONTENTS

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

- YIHUA 939D+ Digital Soldering Station
- YIHUA 305D-IV Regulated DC Lab Power Supply
- Soldering Iron with Heat-Resistant Handle and Cord
- Soldering Iron Holder (integrated or separate)
- 3 x Assorted Solder Tips
- 1 x Cleaning Sponge
- 1 x 50g 0.8mm Solder Wire
- 1 x Solder Wick
- 1 x Cleaning Kit (Brass Ball)
- Power Cords for both units



Image 2.1: YIHUA 939D+ Digital Soldering Station with included accessories.



Image 2.2: YIHUA 305D-IV Regulated DC Lab Power Supply.

3. PRODUCT OVERVIEW

3.1 YIHUA 939D+ Digital Soldering Station

The YIHUA 939D+ is a digital soldering station designed for precision soldering tasks. It features a digital display for real-time temperature readout and a temperature stabilization function to maintain a steady iron temperature during operation. The station is ESD-safe to protect sensitive electronic components.

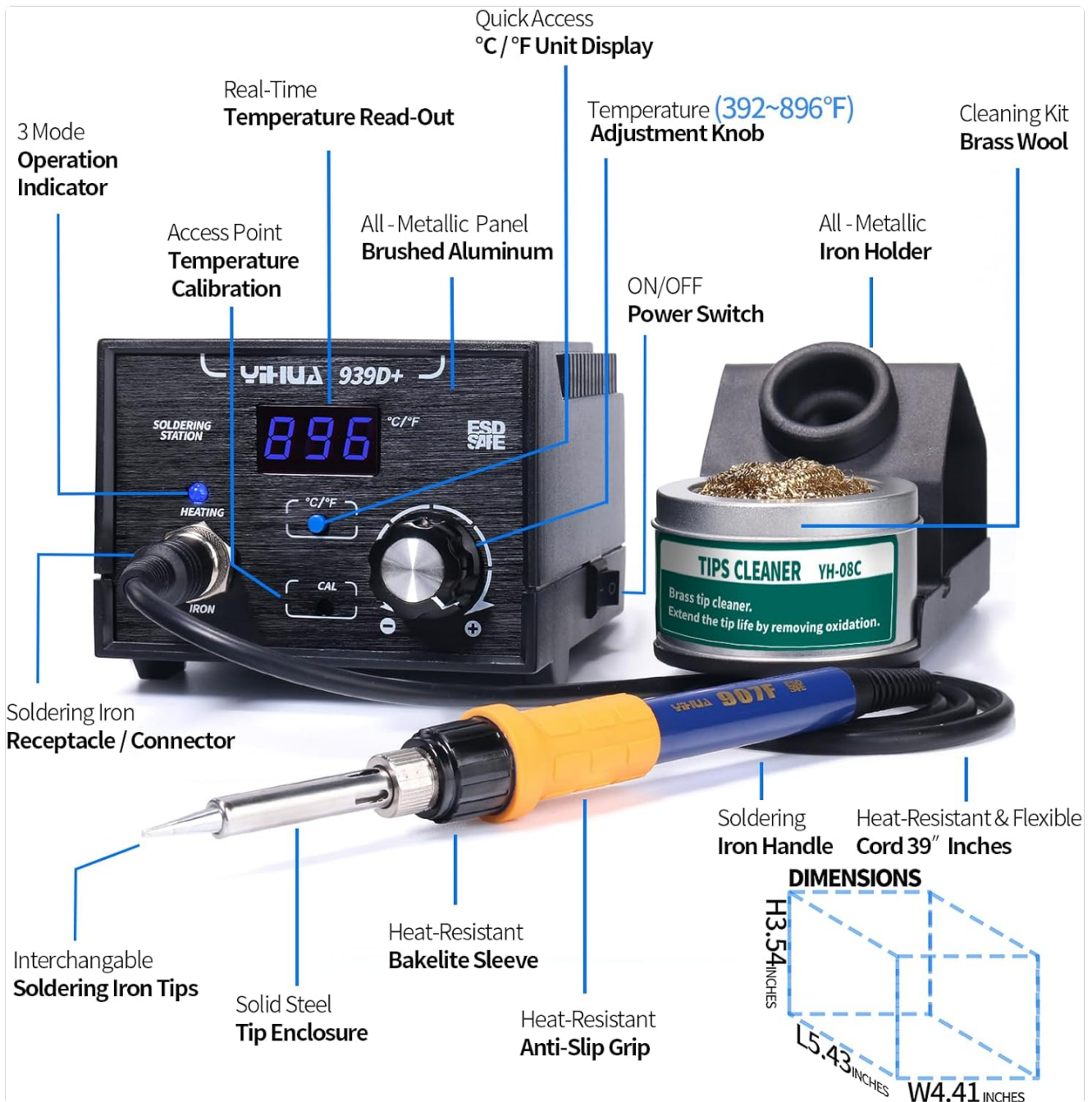


Image 3.1: Labeled components of the YIHUA 939D+ Soldering Station.

3.2 YIHUA 305D-IV Regulated DC Lab Power Supply

The YIHUA 305D-IV is a regulated DC lab power supply offering variable output from 0-30V and 0-5A. It includes automatic Constant Voltage (CV) and Constant Current (CC) modes, along with short-circuit and overcurrent protection to safeguard connected devices and the unit itself.

READINGS ACCURACY



00.01 Volt
Display shows up to 10 mV (millivolt)

0.001 Amp
Display shows up to 1 mA (milliamp)

000.1 Watts
Display shows up to 0.1 W (watt)

Image 3.2: YIHUA 305D-IV Power Supply display and reading accuracy.

4. SETUP INSTRUCTIONS

4.1 YIHUA 939D+ Soldering Station Setup

1. Place the soldering station on a stable, heat-resistant surface.
2. Connect the soldering iron handle to the 'IRON' receptacle on the front panel of the 939D+ station. Ensure a secure connection.
3. Place the soldering iron into its holder.
4. Insert the cleaning sponge into the sponge tray and dampen it slightly with water. Alternatively, place the brass ball cleaner in its designated area.
5. Connect the power cord to the back of the soldering station and then to a 110-127V AC power outlet.

4.2 YIHUA 305D-IV DC Lab Power Supply Setup

1. Position the power supply on a stable surface, ensuring adequate ventilation around the unit.
2. Connect the power cord to the back of the power supply and then to a 110-127V AC power outlet.
3. For output, connect your test leads or device to the output terminals (red for positive, black for negative, yellow for ground) on the front panel.

5. OPERATING INSTRUCTIONS

5.1 YIHUA 939D+ Digital Soldering Station Operation

1. **Power On:** Flip the ON/OFF power switch. The digital display will illuminate, showing the current temperature.
2. **Temperature Adjustment:** Rotate the temperature adjustment knob to set the desired temperature. The range is 392-896°F (200-480°C). The display will show the set temperature briefly, then return to the actual tip temperature.
3. **Temperature Unit Selection:** Press the °C/°F button to switch between Celsius and Fahrenheit display modes.
4. **Calibration:** If necessary, use the CAL adjustment point for temperature calibration. Refer to advanced user guides for detailed calibration procedures.
5. **Soldering:** Once the desired temperature is reached and stabilized, clean the soldering iron tip using the damp sponge or brass ball. Apply solder to the joint, not directly to the iron tip.
6. **Power Off:** After use, turn off the power switch and allow the iron to cool completely in its holder before storing.

THE GENIUNE YIHUA 939D+

Derived from **20 YEARS OF EXPERIENCE** in
Soldering Equipment Design & Manufacturing

4.72Lbs
TWICE The Weight
The Durability

REAL-TIME
TEMPERATURE DISPLAY **896.**

The display shows the current
temperature of the soldering iron

PID TEMPERATURE
STABILIZATION **±3.6°F**

The PID program keeps the soldering
iron temperature steady for
smoother continuous soldering

Image 5.1: YIHUA 939D+ in operation, highlighting temperature display and stabilization.



Image 5.2: The 939D+ heating quickly and maintaining temperature.

5.2 YIHUA 305D-IV Regulated DC Lab Power Supply Operation

1. **Power On:** Press the 'POWER' button on the front panel. The LCD display will light up.
2. **Voltage Adjustment:** Use the 'VOLTAGE' coarse and fine adjustment knobs to set the desired output voltage (0-30V). The display shows the current voltage setting.
3. **Current Adjustment:** Use the 'CURRENT' coarse and fine adjustment knobs to set the desired current limit (0-5A). This acts as a maximum current draw for the connected device.
4. **Constant Voltage (CV) / Constant Current (CC) Modes:** The unit automatically switches between CV and CC modes. When the load draws less current than the set limit, it operates in CV mode (maintaining set voltage). If the load attempts to draw more current than the set limit, it switches to CC mode (maintaining set current, voltage drops).
5. **Protection Features:** The 305D-IV includes short-circuit protection and overcurrent protection. In case of a fault, the unit will limit output to protect itself and the connected device.
6. **Power Off:** Press the 'POWER' button again to turn off the unit.



Image 5.3: YIHUA 305D-IV powering a small electronic project.

FOR: CHARGING & POWERING APPLICATIONS

IMAGE FOR ILLUSTRATION PURPOSES
ONLY. PLEASE REFER TO THE LIST OF
ITEMS IN THE DESCRIPTION



Image 5.4: YIHUA 305D-IV used for charging or powering applications.

6. MAINTENANCE

6.1 Soldering Iron Tip Maintenance

- **Cleaning:** Regularly clean the soldering iron tip using the damp sponge or brass ball cleaner. This removes oxidation and old solder, extending tip life and improving heat transfer.
- **Tinning:** After cleaning and before storing, apply a small amount of fresh solder to the tip (tinning). This protects the tip from oxidation.
- **Tip Replacement:** If a tip becomes excessively worn or damaged, replace it with a new compatible YIHUA tip. Ensure the iron is cool before changing tips.

6.2 General Unit Cleaning

- Ensure both units are powered off and unplugged before cleaning.
- Wipe the exterior surfaces of the soldering station and power supply with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as these can damage the casing or display.

- Keep ventilation openings clear of dust and debris.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Soldering iron not heating	Power switch off, loose connection, faulty heating element/iron.	Check power switch. Ensure iron cable is securely connected. Contact support if issue persists.
Poor solder joints	Dirty or oxidized tip, incorrect temperature, old solder.	Clean and tin the tip. Adjust temperature. Use fresh solder.
Power supply no output	Power switch off, output terminals not connected, protection activated.	Check power switch. Ensure connections are secure. Reduce load or check for short circuit.
Power supply output voltage/current unstable	Loose connections, faulty load, internal issue.	Check all connections. Test with a different load. Contact support if issue persists.

8. SPECIFICATIONS

8.1 YIHUA 939D+ Digital Soldering Station

- **Temperature Range:** 392-896°F (200-480°C)
- **Display:** LCD
- **Temperature Stability:** PID controlled, $\pm 3.6^\circ\text{F}$ ($\pm 2^\circ\text{C}$)
- **ESD Safe:** Yes
- **Input Voltage:** 110-127V AC

8.2 YIHUA 305D-IV Regulated DC Lab Power Supply

- **Output Voltage:** 0-30V DC (Adjustable)
- **Output Current:** 0-5A DC (Adjustable)
- **Display:** LCD
- **Modes:** Constant Voltage (CV), Constant Current (CC)
- **Protection:** Short-circuit protection, Overcurrent protection
- **Input Voltage:** 110-127V AC

9. WARRANTY AND SUPPORT

YIHUA provides a **12-month US-exclusive manufacturer technical coverage** for this product bundle. For any technical assistance, troubleshooting, or warranty claims, please contact YIHUA customer support. Professional assistance is available 24/7 via Amazon.

For support, please visit the YIHUA store on Amazon or refer to your purchase documentation for contact details.