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YCDUS 858D

Weld Lux YCDUS 858D Hot Air Rework Station

User Manual

1. Introduction

Thank you for purchasing the Weld Lux YCDUS 858D Hot Air Rework Station. This device is designed for precise electronic component repair, including soldering and desoldering of Surface Mount Devices (SMD). It features high power, accurate temperature control, multiple memory settings, and an anti-static design for safe and efficient operation. Please read this manual thoroughly before use to ensure proper operation and to prevent damage to the unit or injury.

2. Safety Instructions

- Always operate the rework station in a well-ventilated area.
- The hot air nozzle reaches very high temperatures. Avoid direct contact with skin or flammable materials.
- Ensure the power supply matches the voltage requirements (110V).
- Do not use the device near water or in damp conditions.
- Always place the hot air handle in its resting bracket when not in use. The automatic cooling function will activate.
- Disconnect the power cord before cleaning or performing any maintenance.
- Keep out of reach of children.
- This device is anti-static. However, always take additional ESD precautions when working with sensitive electronic components.

3. Package Contents

Verify that all items are present in your package:

- Weld Lux YCDUS 858D Hot Air Rework Station (Main Unit)
- Hot Air Handle

- 3 x Anti-static Safety Tweezers
- Professional Solder Pad (Heat-resistant silicone work mat 11.8"x7.9")
- Vacuum Suction Pen
- IC Extractor
- Assorted Nozzles (5mm, 8mm, 10mm, 12x12mm)
- Power Cord
- User Manual



Figure 3.1: Included Accessories

4. Product Overview

Familiarize yourself with the components and controls of your hot air rework station.



Figure 4.1: Main Unit and Hot Air Handle Components

- **Hot Air Temperature Display:** Shows the real-time temperature of the hot air.
- **Temperature Storage Buttons (CH1, CH2, CH3):** Used to save and recall frequently used temperature and airflow settings.
- **Air Volume Control Knob:** Adjusts the airflow rate.
- **Hot Air Power Switch:** Turns the main unit on/off.
- **Hot Air Heating Button:** Initiates heating of the hot air handle.
- **Hot Air Cooling Button:** Manually activates the cooling process for the hot air handle.
- **Temperature Calibration (CAL):** Button for temperature calibration.
- **Hot Air Handle Interface:** Connects the hot air handle to the main unit.
- **Hot Air Handle Resting Bracket:** Safely holds the hot air handle when not in use, triggering sleep mode.

5. Setup

1. **Unpack:** Carefully remove all components from the packaging.
2. **Placement:** Place the main unit on a stable, heat-resistant surface in a well-ventilated area.

3. **Connect Handle:** Connect the hot air handle to the Hot Air Handle Interface on the main unit.
4. **Install Nozzle:** Select the appropriate nozzle for your task and securely attach it to the hot air handle.
5. **Power Connection:** Ensure the power switch is in the 'OFF' position, then plug the power cord into a grounded 110V AC outlet.

6. Operating Instructions

6.1 Power On/Off

- To power on, flip the Hot Air Power Switch to the 'ON' position. The display will light up.
- To power off, flip the Hot Air Power Switch to the 'OFF' position. The unit will cool down before completely shutting off.

6.2 Temperature and Airflow Adjustment

- **Temperature Setting:** Use the temperature adjustment buttons (usually up/down arrows or a rotary knob, not explicitly labeled in provided images but implied by 'Temperature Calibration' and 'Hot Air Heating/Cooling Buttons') to set the desired temperature. The display shows the real-time temperature. The operating temperature range is 100.0 °C to 500.0 °C (212 °F to 932 °F).
- **Airflow Setting:** Rotate the Air Volume Control Knob to adjust the airflow rate. Start with a lower setting and increase as needed.
- **Temperature Unit:** The unit supports both Celsius (°C) and Fahrenheit (°F) display. Refer to the unit's specific controls for switching between these modes.



Figure 6.1: Display Modes and Memory Presets

6.3 Memory Function (CH1, CH2, CH3)

The rework station allows you to store and recall three sets of frequently used temperature and airflow settings.

- **To Save Settings:** Set your desired temperature and airflow. Press and hold one of the CH1, CH2, or CH3 buttons until the display indicates the setting has been saved (e.g., a beep or a brief flash).
- **To Recall Settings:** Briefly press the desired CH1, CH2, or CH3 button. The unit will automatically adjust to the stored settings.

6.4 Sleep Mode

When the hot air handle is placed in its resting bracket, the unit will automatically enter sleep mode after a set period. In sleep mode, the heating element cools down to a safe temperature, and the display may show 'S-E' (Sleep Mode). Lifting the handle from the bracket will automatically resume operation at the last used or recalled settings.

6.5 Temperature Calibration

If you suspect the temperature reading is inaccurate, you can perform a calibration. Refer to the specific instructions in the

full manual for your model, usually involving a temperature sensor and adjusting via the 'CAL' button.



Figure 6.2: Key Features and Application Examples

7. Maintenance

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Nozzle Care:** Ensure nozzles are free from debris. Replace damaged or clogged nozzles to maintain optimal performance.
- **Air Filter:** Check and clean the air filter (if present) periodically to ensure proper airflow.
- **Storage:** Store the unit in a dry, dust-free environment when not in use.

8. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cord disconnected, power switch off, faulty outlet.	Check power connections, ensure switch is ON, try a different outlet.
No heat from handle	Handle not properly connected, heating element failure.	Ensure handle is securely connected. If problem persists, contact support.
Low airflow	Air volume knob set too low, clogged nozzle, blocked air intake.	Increase air volume, clean or replace nozzle, check air intake for obstructions.
Display shows 'E-E' (Fault Warning)	Internal error, sensor malfunction.	Turn off the unit, wait a few minutes, then restart. If the error persists, contact customer support.
Inaccurate temperature reading	Needs calibration.	Perform temperature calibration as per the full manual.

9. Specifications

Feature	Specification
Model	858D
Brand	YCDUS (Weld Lux)
Voltage	110V AC
Display Type	LED
Temperature Range	100.0 °C - 500.0 °C (212 °F - 932 °F)
Temperature Stability	±1°C (Static)
Airflow Type	Brushless fan, soft air
Airflow Volume	Up to 120 L/min (Max)
ESD Safe	Yes
Dimensions (Package)	26.3 x 21.5 x 19.2 cm
Weight (Product)	500 g
UPC	680306174942

10. Warranty and Support

This Weld Lux YCDUS 858D Hot Air Rework Station comes with a standard manufacturer's warranty. For warranty claims, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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