# RF-H861

## 速热型热风枪

RAPID HEATING HOT AIR GUN

RF4®
FOCUS DESIGN AND CONCEPT




OPERATION MANUAL

# OPERATION MANUAL 操作说明书

## 1 ONE 产品特点

本设备为智能速热型热风枪，具备拿起即加热、放下即散热的智能启停功能,支持风量（10%-100%）和温度（150°C-500°C）精准调节。设备内置温度校准（范围：-99°C至99°C）、温度单位切换（°C/F）、断电记忆及按键锁功能，同时配备过热保护、温度异常保护等多重安全机制，操作简单快捷，适用于电子维修、塑料加工等多种场景。

# 2. 基础说明

## 1. 产品参数

| 产品型号 | 输入电压 | 工作频率 | 功率 | 温度范围 | 温度精度 |
|---|---|---|---|---|---|
| RF-H861 | 110V/220VAC | 60Hz/50Hz | 1000W | 150°C-500°C | 150°C-500°C |

## 2. 屏幕图标说明

| 图标 | 含义 |
|---|---|
| °C | 当前温度单位为摄氏度 |
| °F | 当前温度单位为华氏度 |
| 风枪图标 | 上电常亮 指示设备处于通电状态 |
| 蜂鸣器图标 | 常亮表示蜂鸣器功能正常启用 |
| 按键锁图标 | 亮起表示按键锁定功能已启用 按键无响应 |
| 休眠灯图标 | 风枪放下时亮起 拿起时熄灭 指示风枪休眠状态 |

## 3. 上电初始状态

上电后，风枪图标、蜂鸣器图标常亮，设备自动检测风枪状态（拿起工作/ 放下休眠）。

## 4. 休眠状态

**风枪放下时进入休眠状态：**

休眠图标闪烁

白色数码管显示「OFF」

红色数码管显示「SLP」

## 5. 工作状态

**风枪拿起时退出休眠，进入工作状态：**

白色数码管显示当前风枪温度，红色数码管显示设置温度

按键按下时可调节参数，5秒无操作进入无设置状态，并保存设置数据

# 3 基本操作说明

## 1. 启停控制



加热启动：
拿起风枪 设备自动加热至预设温度



散热停止:
放下风枪 风扇自动开启最大风速散热
直至温度降至人体接触安全温度后停止

## 2. 参数调节（风枪拿起时有效）

1. 风量调节：单击/长按风量（+）键、风量（-）键，可快速调整风量（10%-100%）
2. 温度调节：单击/长按温度（+）键、温度（-）键，可快速调整设置温度（150°C-500°C）
3. 快速记忆：直接按下CH1/CH2/CH3键，可一键切换至储存的温度和风量参数，
   长按可以储存当前温度和风量为快速记忆。

# 4 高级设置操作

## 1. 温度单位切换（°C/F）

按住CH1键的同时接通电源，即可切换温度单位，切换后设备自动保存。

## 2. 温度校准设置

1.按住CH2键的同时接通电源，进入温度校准设置状态（红色数码管显示「-C-」）

2.校准调节：单击/长按CH1键，校准温度递减；单击/长按CH3键，校准温度递增（范围：-99°C至99°C）

3.退出校准：10秒无操作自动退出，或单击CH2键手动退出，退出后自动保存校准参数

## 3. 按键锁功能

1.启用按键锁：按住CH3键的同时接通电源，按键锁图标亮起，按键停止响应

2.关闭按键锁：再次按住CH3键的同时接通电源，按键锁图标熄灭，按键恢复响应

## 4. 按键锁功能

设备断电后，会自动记忆上次使用的温度、风量、校准温度及温度单位，重启后无需重新设置

## 5 安全保护机制

1. 过热保护：设备检测到温度过热时，自动停止加热并报警
2. 温度异常保护：1分钟内无法达到设置温度时，自动停止加热并报警
3. 智能散热：风枪放下后自动启动最大风速散热，防止余热堆积

## 6 故障状态提示

**设备检测到异常时进入故障状态：**

1. 白色数码管闪烁显示「---」
2. 红色数码管显示「Err」
3. 蜂鸣器报警，设备自动停止加热

## SEVEN 7 包装清单

| 风枪主机 | 风枪手柄 | 风枪嘴 | 电源线 | 休眠架 | 说明书卡片 | 合格证 |
|---|---|---|---|---|---|---|
| 1台 | 1个 | 3个 | 1条 | 1个 | 1个 | 1个 |

## 8 注意事项

**为避免损坏焊台及保持作业环境安全,应遵守下例事项:**

1. 切勿使用风枪进行焊接以外的工作。
2. 切勿将烙铁敲击工作台以清除焊剂残余,此举可能严重损坏发热体及手柄。
3. 切勿擅自改装焊台内部结构。
4. 切勿弄湿焊台或手湿时不能使用焊台。
5. 使用焊台时,不可作任何可能伤害身体或损坏机器的妄动。
6. 不要让异物挡住散热风扇进风口与出风口。

# RF-H861

## 速热型热风枪

## RAPID HEATING HOT AIR GUN

RF4®
FOCUS DESIGN AND CONCEPT




# OPERATION MANUAL 操作说明书

## 1 ONE PRODUCT FEATURES

This intelligent rapid-heating hot air gun features a smart on/off function that heats upon pickup and cools upon removal, with precise adjustment of airflow (10%–100%) and temperature (150°C–500°C). It includes built-in temperature calibration (range: -99°C to 99°C), temperature unit switching (°C/F), power-off memory retention, and button lock functionality, along with multiple safety mechanisms such as overheat protection and abnormal temperature protection. Featuring simple and efficient operation, it is suitable for various applications including electronic repair and plastic processing.

# 2. BASIC INFORMATION

## 1. Product Parameters

| product model | input voltage | service frequency | power | temperature range | temperature precision |
|---|---|---|---|---|---|
| RF-H861 | 110V/220VAC | 60Hz/50Hz | 1000W | 150°C-500°C | 150°C-500°C |

## 2. Screen Icon Descriptions

| icon | meaning |
|---|---|
| °C | The current temperature unit is Celsius |
| °F | The current temperature unit is Celsius |
| Firegun Icon | The power indicator remains lit, indicating that the device is powered on |
| Bell Icon | Chang Liang confirmed that the buzzer function is properly enabled |
| Button Lock Icon | The light is on indicating that the button lock function is enabled and the button does not respond |
| Hibernation Light Icon | The light turns on when the air gun is lowered and turns off when raised indicating its dormant state. |

## 3. Initial State Upon Power Supply

When powered on, the air gun icon and buzzer icon remain lit continuously, allowing the device to automatically detect the air gun status (activated when held, dormant when released).

## 4. Dormant state

**THE AIR GUN ENTERS SLEEP MODE WHEN LOWERED:**

1. Hibernation icon flashes
2. The white digital display shows "OFF"
3. The red digital display shows "SLP"

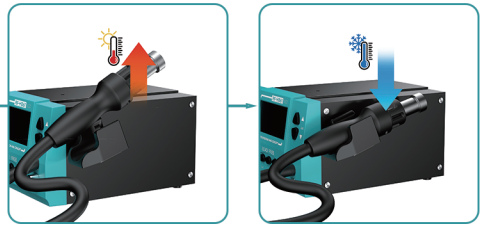
## 5. Work Status

**WHEN THE AIR GUN IS PICKED UP, IT EXITS SLEEP MODE AND ENTERS WORKING STATE:**

1. The white digital display shows the current air gun temperature, while the red digital display shows the set temperature
2. Press the button to adjust parameters; if no operation is performed for 5 seconds, the device returns to the default state and saves the settings.

# 3 BASIC OPERATION INSTRUCTIONS

## 1. START/STOP CONTROL



**Heating startup:**

Hold the air gun to automatically heat the device to the preset temperature.

**Heat dissipation cessation:**

Lower the air gun, and the fan will automatically activate at maximum airflow speed to dissipate heat until the temperature drops below the safe hreshold for human contact before stopping.

## 2. Parameter adjustment (effective when the air gun is held)

1. Airflow adjustment: Click or hold the Airflow (+) button or Airflow (-) button to quickly adjust airflow (10%–100%)
2. Temperature adjustment: Click or hold the Temperature (+) key or Temperature (-) key to quickly adjust the set temperature (150°C–500°C)
3. Quick Memory: Press the CH1/CH2/CH3 keys directly to switch between stored temperature and airflow parameters; hold them to save the current settings for quick access

# 4 ADVANCED SETTINGS OPERATIONS

## 1. Temperature Unit Switch (°C/F)

Press and hold the CH1 button while powering on to switch temperature units; the device will automatically save the change.

## 2. Temperature Calibration Settings

1. Press and hold the CH2 button while turning on the power to enter temperature calibration mode (the red digital display shows "-C-").
2. Calibration adjustment: Click or hold the CH1 button to decrease the calibration temperature; click or hold the CH3 button to increase the calibration temperature (range: -99°C to 99°C).
3. Exit Calibration: The system will automatically exit after 10 seconds without any operation, or you can manually exit by pressing the CH2 key. After exiting, calibration parameters will be saved automatically.

## 3. Button Lock Function

1. Enable button lock: Hold the CH3 key while powering on; the button lock icon will illuminate and the button will stop responding.
2. Close button lock: Hold the CH3 key and power on the device; the button lock icon will turn off and the buttons will respond again.

## 4. Power-off Memory Function

After a power outage, the device automatically saves the last used temperature, airflow rate, calibration temperature, and unit of measurement, so no reconfiguration is needed upon restart.

# 5 SECURITY PROTECTION MECHANISMS

1.Overheat Protection: When the device detects excessive temperature, it automatically stops heating and triggers an alarm.

2.Temperature Abnormal Protection: If the set temperature cannot be reached within 1 minute, heating will automatically stop and an alarm will be triggered.

3.Intelligent Heat Dissipation: Upon deployment, the air gun automatically activates maximum airflow velocity for heat dissipation,preventing residual heat accumulation.

# 6 Fault Status Notification

**The device enters a fault state when an anomaly is detected:**

1.The white digital display flashes with "---".
2.The red digital display shows "Err".
3.Beecher alarm activation and automatic cessation of heating by the device.

# SEVEN 7 PACKAGING LIST

| FIREGUN MAIN UNIT | FIREGUN HANDLE | AIR GUN NOZZLE | POWER LINE | DORMANT FRAME | INSTRUCTION MANUAL CARD | CERTIFICATE |
|---|---|---|---|---|---|---|
| 1 UNIT | 1 | 3 | 1 ITEM | 1 | 1 | 1 |

# 8 PRECAUTIONS

**To prevent damage to the soldering station and maintain a safe working environment, comply with the following requirements:**

1.Do not use the air gun for any work other than soldering.

2. Do not tap the air gun against the workbench to remove residual solder flux, as this may severely damage the heating element and handle.

3. Do not arbitrarily modify the internal structure of the soldering station.

4. Do not get the soldering station wet, and do not operate it with wet hands.

5. While the soldering station is in use, do not perform any reckless actions that may cause personal injury or equipment damage.

6. Do not allow foreign objects to block the air intake and outlet of the cooling fan.