RF4®

FOCUS DESIGN AND CONCEPT

RF-S410
ANTI-STATIC INTELLIGENT SOLDERING STATION

防静电智能焊台说明书

感谢购买使用我司产品，务请仔细阅读并妥善保管本手册，它将帮助你更好地使用产品。

Thanks for using our products. Please read the manual carefully and it wil be helpful for you to use this products better.

产品特点

- 焊台采用开关电源，具有高效节能、稳定温度、轻巧便携、多功能性和快速响应等优点，可以提高焊接效率和质量，适用于各种不同的焊接需求。
- 本产品具有声音报警与故障代码报警提示。
- 本产品内置散热风扇，给内部提供好的温度环境工作。
- 本产品用途：电子元件引脚焊接、工业焊接、工作流水线焊接作业、实验教学、DIY及广大电子爱好者使用等。

包装清单

焊台主机	线束夹	线束夹手拧螺丝	烙铁手柄	烙铁发热芯	电源线	高温吸水海棉	说明书卡片
1台	1个	1个	1台	1条	1条	1块	1个

安装步骤

1.线束夹安装

线束夹安装：取出线束夹，安装在主机右侧，通过线束夹垂直方向调节到合适位置方向，线束夹螺纹与主机螺纹对准，用线束夹手拧螺丝拧紧即可。注：线束夹头部可旋转，不能把头部拔出来，避免损坏线束夹，如不慎脱落，重新装回即可。

2.支架安装

出厂之前已装好，如不慎脱落，用支架侧面螺纹对准主机螺纹，通过支架垂直方向调节到合适位置，用配套螺丝拧紧即可。

3.手柄安装

安装时对着手柄接口插入，"达"一声即可安装成功。

4.发热芯拆卸与安装

- 拆下发热芯：把发热芯放到发热芯收纳盒的V型卡槽上，此时显示屏提示"---"停止加温，拔出时，蜂鸣器发出"滴滴滴"报警声。(也可以拿镊子轻轻拔出)
- 插回发热芯：用手或镊子把发热芯放到手柄内部，发热芯头对准收纳盒合适的烙铁头孔，用力顶回去即可工作。

5.香蕉头鳄鱼夹地线安装

香蕉座鳄鱼夹地线一头的香蕉头对准主机的香蕉座插入，另外一头鳄鱼夹，夹到连接大地的金属。

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:

- 切勿使用烙铁进行焊接以外的工作。
- 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。
- 切勿擅自改装焊台内部结构。
- 切勿弄湿焊台或手湿时不能使用焊台。
- 焊台使用时,烙铁头部会有烟雾属正常现象,作业环境应有良好通风设施。
- 使用焊台时,不可作任何可能伤害身体或损坏机器的妄动。
- 不要让异物挡住散热风扇进风口与出风口。

操作指南

初次使用焊台,烙铁需要上锡处理,以延长烙铁头使用寿命

✦ **上锡步骤:**

将开关处于关闭状态,插上烙铁手柄。

插上电源,保证电源有良好的接地。

将高温吸水海棉吸满水放于锡渣托盘内。

打开焊台电源开关,调节焊台面板的"旋钮"使温度调至200-260度之间。

等待加热恒温.等待面板温度显示恒定后方可进行下一步。

将锡线靠近烙铁头,使其熔化,并均匀的涂在烙铁头焊接部位。

◆ **维护与保养:**

当烙铁头有污垢,请在高温吸水海棉上擦拭干净或者在锡渣硅胶球上擦拭。

当烙铁头部都有一层锡包住时,此时可调到合适温度正常工作。

结束工作时,把手柄放回烙铁座上,再关机切断电源。

烙铁使用时,焊台温度在含铅焊接时,温度应在330-360℃之间合适.无铅焊接时应在340-380度之间较为合适。

焊接时,尽量使用低熔点的焊锡丝,这样能有效延长烙铁头使用寿命。

本焊台在出厂时已做温度校正,在使用一段时间后,烙铁头氧化会对温度造成偏差,如有需要,可用温度仪进行温度校准。

功能说明

温度调节:
通过"▲▼键"来调节所需温度, 单击为"1度"的步进调节, 长按为"10度"步进调节。步进值可以设置。

记忆通道设置:
产品具有3个记忆通道选择, 可满足不同工作需求。
调用记忆通道: 单击CH键, 切换CH1、CH2、CH3记忆通道。
修改记忆通道温度: 通过"▲▼键"调节所需修改的温度, 长按"CH键"保存当前温度到记忆通道里。

触点切换功能:
通过烙铁头轻触一下金属探头, 记忆通道在CH1/CH2/CH3之间切换。

菜单设置

一: 长按"SET键"进入菜单

二: 单击"SET键"选择P00-P03

三: 通过"▲▼键"调整

四: 长按"SET键"保存并退出菜单

代码	项目	参数	出厂默认值
P01	蜂鸣器设置	ON:开 OFF:关	ON:开
P02	摄氏度与华氏度设置	C:摄氏度 F:华氏度	C:摄氏度
P03	温度校准设置	正负99度	0度

基础参数

产品型号	输入电源	输出电压	功率	温度范围	恒温精度	接地电阻
RF-S410	90-230VAC	12-24VDC	100W	200℃-500℃	±3℃	<2mΩ

故障处理

"ER1"低温报警:发热芯损坏：更换发热芯。

"ER2"传感线异常:发热芯开路，发热芯没有安装好或手柄没有连接好

"ER3"过载保护:发热芯不匹配，或者是发热芯损坏。

"ER4"手柄脱落: 手柄没有连接好。

开机无反应，屏幕不亮，发热芯无温度:请检查电源线，如电源线正常，请检查保险丝有无损坏或烧断等现象，损坏则更换同型号保险丝。

如无法自行解决故障问题请联系当地代理商或者是厂家技术支持。

Product Characteristics

- The soldering station adopts a switching power supply, offering advantages such as high efficiency, energy saving, stable temperature, lightweight portability, multifunctionality, and fast response. It improves soldering efficiency and quality, suitable for various soldering needs.
- This product has sound alarm and fault code alarm.
- This product has a built-in cooling fan. The fan automatically starts to provide a good temperature environment for the internal work.
- Use of this product: electronic component pin welding, industrial welding, work line welding operations, experimental teaching, DIY and the majority of electronic enthusiasts use.

Packing List

soldering station main engine Welding Machine	Harness Clamp	Harness Clamp Hand Screw	Soldering Iron Handle	Soldering Iron Core	Power Cord	High Temperature Absorbent Sponge	Specification card
1	1	1	1	1	1	1	1

Installation Procedure

1. Install the cable harness clip

Install the cable harness clamp: Take out the cable harness clamp and install it on the right side of the host. Adjust the cable harness clamp vertically to a proper position. Align the thread of the cable harness clamp with the thread of the host. Note: The head of the harness clamp can be rotated, and the head cannot be pulled out to avoid damage to the harness clamp. If it falls off accidentally, reinstall it.

2. Install the support

It has been installed before delivery. If it falls off accidentally, align the side thread of the support with the host thread, adjust the support vertically to a proper position, and tighten it with a matching screw.

3. Install the handle

When installing, insert it into the handle port, and the installation is successful with a sound of "Da".

4. Remove and install heating core

Remove the heating core: Put the heating core on the V-shaped card slot of the heating core storage box. At this time, the display screen prompts "--" to stop heating. When it is removed, the buzzer will emit a "drip drip" alarm sound. (alsoCan be gently pulled out with tweezers)Insert the heating core back: put the heating core inside the handle with your hand or tweezers, align he heating core head with the proper soldering iron head hole of the storage box, and push it back to work.

5. Install the ground cable of the banana head crocodile clip One end of the banana head is inserted into the banana seat of the host, and the other end of the crocodile clip is inserted into the metal connecting the earth.

Matters Needing Attention

In order to avoid damage to the welding platform and maintain a safe working environment, the following items should be observed:

- Do not use a soldering iron for work other than welding.
- Do not knock the soldering iron on the table to remove residual flux. This may seriously damage the heating body and handle.
- Do not modify the internal structure of the welding table without authorization.
- Do not wet the pad or do not use the pad with wet hands.
- When the welding table is used, it is normal for the soldering iron head to have smoke, and the working environment should have good ventilation facilities.
- When using the welding table, do not make any rash movement that may injure the body or damage the machine.
- Do not allow foreign objects to block the inlet and outlet of the cooling fan.

Operation Guide

For the first time, the soldering iron needs to be tinned to extend the service life of the soldering iron head

✦ Tinning steps:

Turn the switch off and plug in the soldering iron handle.

Plug in the power supply and ensure that the power supply is well grounded.

Fill the high temperature absorbent sponge with water and place in the tin slag tray.

Turn on the power switch of the welding stand and adjust the "knob" of the welding stand panel to adjust the temperature between 200-260 degrees.

Wait for the heating temperature. Wait for the panel temperature display to be constant before proceeding to the next step.

Put the tin wire close to the soldering iron head, melt it, and evenly apply to the soldering part of the soldering iron head.

✦ Maintenance and maintenance:

When there is dirt on the tip of the soldering iron, please wipe it clean on the absorbent sponge at high temperature or wipe it on the tin residue silicone ball.

When the head of the soldering iron is covered by a layer of tin, it can be adjusted to the appropriate temperature to work normally. At the end of the work, put the handle back on the soldering iron base, and then shut down and cut off the power.

When the soldering iron is used, the temperature of the welding table should be suitable between 330-360 ° C when welding with lead. Lead-free welding should be between 340-380 degrees is more appropriate.

When welding, try to use low melting point solder wire, which can effectively extend the service life of the soldering iron head.

The welding table has been calibrated for temperature before leaving the factory. After a period of use, the oxidation of the soldering iron head will cause temperature deviation. If necessary, temperature calibration can be carried out with a temperature meter.

Function Description

Temperature regulation:

Adjust the desired temperature by "▲▼ key", click "1 degree" step adjustment, long press "5 degree" step adjustment. The step value can be set.

Memory channel Settings:

The product features three memory channel options to accommodate different operational requirements.

Select with CH1/2/3 key.

To modify: adjust temperature with ▲▼, then long-press CH to save.

Contact Switching Function:

Lightly touch the metal probe with the soldering iron tip to switch the memory channel between CH1/CH2/CH3.

Menu Setting

Long press "SET" to enter menu.
Single press "SET" to select P00–P03.
Use ▲▼ to adjust.
Long press "SET" to save & exit.

Code	Function	Parameter	Default
P01	Buzzer Setting	ON/OFF	ON
P02	Celsius/Fahrenheit	C/F	C
P03	emp Calibration	±99°C	0

Basic Parameter

Product Model	Input Power Supply	Output Voltage	Power	Temperature Range	Constant Temperature Accuracy	Ground Resistance
RF-S410	90-230VAC	12-24VDC	100W	200°C-500°C	±3°C	<2mΩ

Fault Handling

"ER1" low temperature alarm: the heating core is damaged: Replace the heating core.

The "ER2" sensor line is abnormal: the heating core is open, the heating core is not installed or the handle is not connected

"ER3" overload protection: the heating core does not match, or the heating core is damaged.

ER4 handle off: The handle is not connected properly.

Boot no response, screen is not bright, heating core no temperature: please check the power cord, if the power cord is normal, please check whether the fuse is damaged or burned.

If broken or damaged, replace the same type of fuse.

If the fault cannot be rectified, contact your local agent or technical support.

ADD 26F, Yinghao Building, No. 470 Dongjiao North Liwan District,
Guangzhou City, Guangdong Province, China
TEL 400-001-8044
POSTCODE 510370
WEBSITE https://www.rf4tools.com

广州市快速立电子科技有限公司

地址 广东省广州市荔湾区东漖北路470号盈昊大厦26楼
电话 400-001-8044
邮编 510370
网址 https://www.rf4tools.com