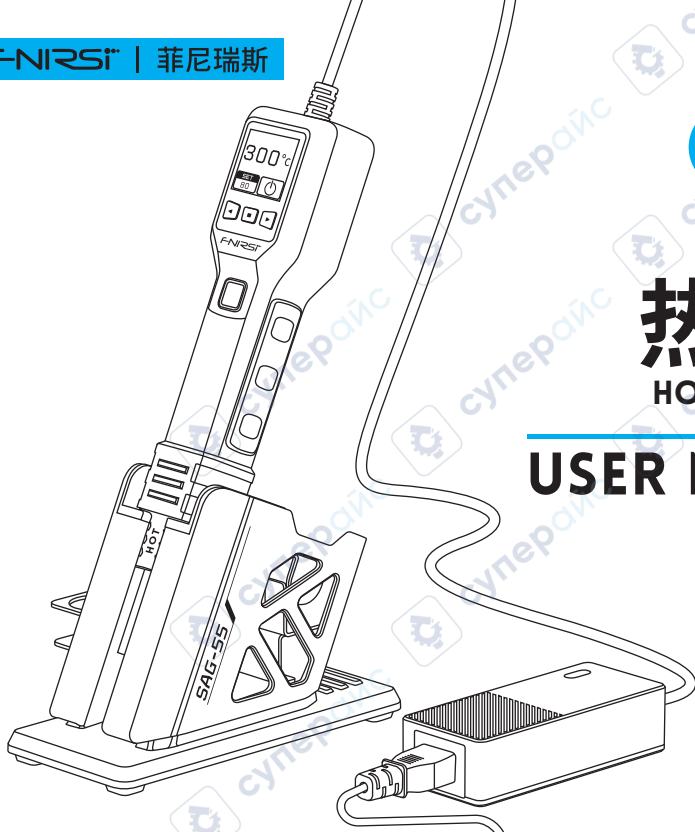


FNIRSI | 菲尼瑞斯



智能

INTELLIGENT

热风枪

HOT AIR GUN

USER MANUAL

SAG-55

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用户须知

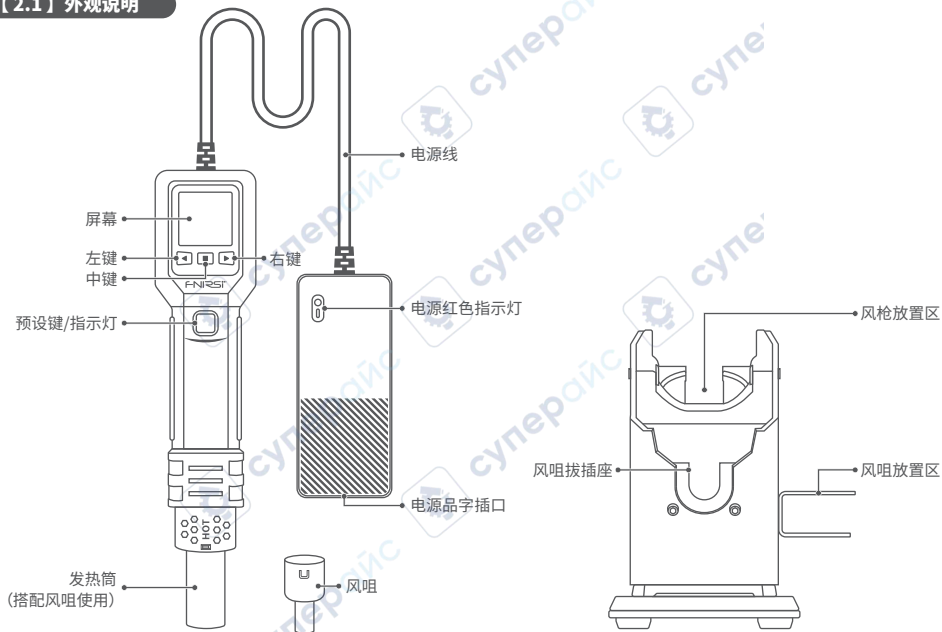
- 本手册详细介绍了产品的使用方法、注意事项以及相关事项,在使用产品之前,请仔细阅读手册,以便发挥产品的最佳性能。
- 不要在易燃、易爆的环境中使用仪器。
- 仪器更换的废旧电池和报废的仪器不可与生活垃圾一同处理请按国家或者当地的相关 法律规定处理。
- 当仪器出现任何质量问题或者对使用仪器有疑问时,可联系“菲尼瑞斯-FNIRSI” 在线客服或厂家,我们将在第一时间为您解答。

一、产品简介

SAG-55智能热风枪是深圳市菲尼瑞斯科技有限公司最新推出的一款便携式智能热风枪,专为多种应用需求而设计。它采用微控制器PID精准控温技术,升温迅速,热冲击小,保护发热丝寿命。无刷风机支持1-20级风速调节,噪音低,寿命长,适应不同工作环境。手柄集成磁控传感器,拿起手柄自动加热,放回后自动降温待机,操作简便。手柄上的控制器和显示屏使得单手调节温度和风速轻松自如,并且支持三组快捷温度/风速设置以便快速切换。快速降温功能加速冷却,延长发热丝寿命。各传感器实时监测设备状态,异常时自动关闭加热功能,确保安全。LCD显示屏和LED指示灯清晰显示工作状态和温度变化。SAG-55手柄符合人体工学设计,握感舒适,整机小巧便携,是专业技术人员和DIY爱好者的理想选择。

二、结构介绍

【2.1】外观说明

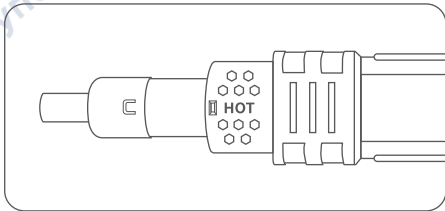
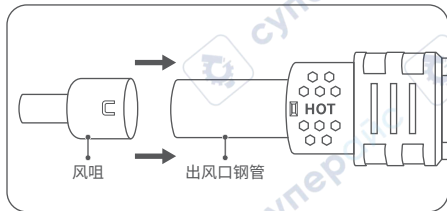


【2.2】指示灯说明

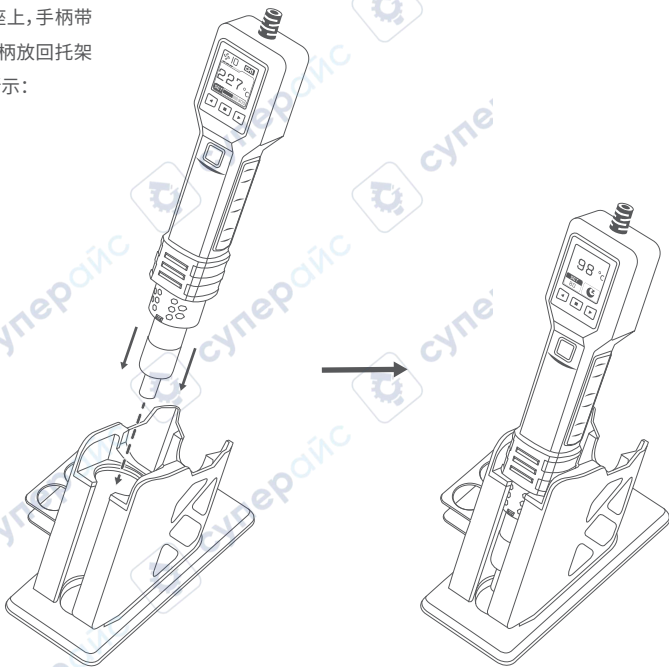
指示灯	
	关机状态
	温度 $<100^{\circ}\text{C}$
	$100^{\circ}\text{C}\leq\text{温度}<300^{\circ}\text{C}$
	温度 $\geq 300^{\circ}\text{C}$

【2.3】安装说明

●出风口钢管直径 21.7mm 左右, 适合 850 系列风阻, 可根据不同应用场景, 选择不同出风口径的风阻, 安装时注意安装到正确位, 如下图所示:

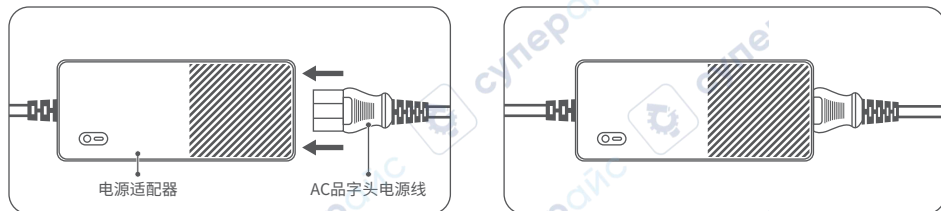


●装上风咀后，将手柄放回手柄座上，手柄带磁控开关，而托架两侧带强磁，手柄放回托架可实现自动降温 and 待机，如右图所示：



【2.4】供电说明

●先将 AC品字头电源线接上SAG-55电源适配器,然后电源线接入 220V 交流电,电源如下图所示:



⚠ 注意

SAG-55热风枪必须使用 AC220V(200V~240V), 50Hz/60Hz 电源供电, 考虑用电安全, 必须使用带地线的插座!

三、参数介绍

产品型号	SAG-55	发热筒尺寸	长度80mm, 直径21.6mm (搭配850风咀)
电源及功率参数	AC 220V/50Hz, 加热功率550W (MAX), 待机功率<0.7W	机身尺寸	手柄 (不含风咀): 260*60*40 (mm) 电源适配器: 118*50*30.6 (mm)
控温范围	100°C-450°C (212°F-842°F)	线材长度	手柄硅胶线: 1.2m AC品字型电源线: 1.2m
显示屏尺寸	1.54寸LCD (240*240)	工作噪声	<65dB
气流量	80L/min, 1-20级可调	整体重量(包含配件)	≈1391g

四、操作说明

【4.1】关机状态

长按中键  3s左右开机, 开关机状态带记忆功能, 开机后显示开机Logo, 之后根据是否开启开机加热选项(开启/关闭可设置)进入不同界面: 如果关闭开机加热功能, 则会进入提示界面-[请按下任意按键开始加热]才进入主界面并加热; 如果开启开机加热功能则没有提示直接进入主界面开始加热。

【4.2】提示界面

按下任意按键进入主界面并加热; 双击中键  则进入菜单界面; 如果使能自动关机, 到达设定时间(5min~15min可设置)后自动关机。

【4.3】主界面

在主界面下, 各按键功能如下表所示。



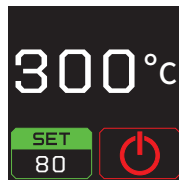
按键	单击	双击	长按
	切换温度/风速设置	进入菜单设置界面	降温和关机
	步进降低设定温度/风速	\	快速降低设定温度/风速
	步进升高设定温度/风速	\	快速升高设定温度/风速
	切换三个预设档位		切换出风为冷风

【4.4】降温界面

当温度降低到待机温度值(70~100℃可设置)后开始待机,降温速度分两种:按照当前风量正常降温(关闭快速降温)和15级风量快速降温(开启快速降温);如果降温过程长按中键(如果是在待机降温界面会切换到关机降温界面,等待关机,如果是在关机降温界面可返回主界面继续加热)。如果放回手柄座降温,降温过程提示待机,拿起手柄则返回主界面继续加热。界面如右图所示:



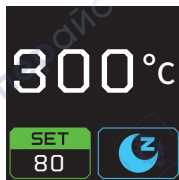
待机降温界面



关机降温界面

【4.5】待机界面

待机界面如右图所示,放回手柄座降温,当温度降低到待机温度值(70~100℃可设置)后进入待机界面,拿起手柄则返回主界面继续加热工作;如果设置自动关机,到达设定时间后进入关机界面;长按中键  亦可进入关机界面;此界面亦可双击中键  进入菜单界面。



待机降温界面



待机界面

【4.6】菜单界面

双击中键  进入菜单界面,对各项参数进行设置,主菜单共有12项,如右图所示,菜单分2级(主菜单和子菜单),在主菜单界面下,各按键功能如下表所示:



主菜单 子菜单

按键	单击	长按
	选择上一个菜单项	\
	进入子菜单(参数设置)	退出主菜单界面
	选择下一个菜单项	\



在子菜单(参数设置)界面下,各按键功能如下表所示:

按键	单击	长按
	切换不同选项/调整参数值	
	保存参数并返回主菜单	不保存参数并返回主菜单
	切换不同选项/调整参数值	

各子菜单参数及说明如下表所示:

菜单项	说明	默认设置	可调范围
自动关机	待机状态,等待自动关机的时间, OFF 则关闭自动关机	5分钟	从不关机、5分钟、 10分钟、15分钟
开机加热	是否需要跳过提示界面 “按下任意按键开始加热”直接加热工作	关闭	关闭/打开
温度单位	界面显示的温度单位	摄氏度°C	摄氏度(°C) / 华氏度(°F)
语言选择	界面显示的语言	简体中文	简体中文 / English
快捷设置	设置预设档位的风速与温度	风速10、温度300°C	风速1~20、温度100~450°C
步进温度	调温步进值	25°C	5°C ~ 25°C

菜单项	说明	默认设置	可调范围
待机温度	待机/关机温度设置	80°C	70~100°C
快速降温	是否开启快速降温模式，开启后待机时会吹出更大风量快速降温	打开	关闭/打开
温度校准	校准温度，选择后热风枪会吹出对应档位温度的风，通过测温设备调节温度偏差	120°C、220°C、320°C、420°C	/
屏幕亮度	设置屏幕亮度	10	1~10
恢复出厂	将设置参数恢复至出厂状态	取消	取消/确认
关于	品牌信息、版本号	V1.0	/

五、注意事项

- 风枪出风口以及周边可能有极高温度，即使已经降温待机/关机，应小心谨慎，谨防烫伤！
- 机器使用完务必将手柄正确放回手柄托架上，待机器自动冷却到设定待机温度(70~100°C)后才可以关机/拔掉电源。
- 请保持钢管出风口和风扇进风口通畅，不能有阻塞物！尽可能保持空气流通。
- 使用过程中出风口和待拆焊物件至少需要保持 2mm 的距离，以保证我们正常拆焊。
- 不同的拆焊场景，可选择合适的风嘴，且不同的风嘴，出风口温度可能有一些差别。

- 无刷风扇集成在手柄上,工作时候有些振动属正常现象,可适当减小风速以减小振动。
- 切勿在有易燃易爆气体/物质的环境下使用!亦不可在过于潮湿环境下使用!
- 请使用带接地线的220VAC电源给机器供电,如果机器长时间不使用,请拔掉电源插头!
- 请将机器放置于儿童接触不到的地方!

User Notice

- This manual provides detailed instructions on product usage, precautions, and related information. Please read the manual carefully before using the product to ensure optimal performance.
- Do not use the instrument in flammable or explosive environments.
- Used batteries and discarded instruments must not be disposed of with household waste. Please follow national or local regulations for proper disposal.
- If the instrument encounters any quality issues or if you have any questions regarding its use, please contact FNIRSI's online customer service or the manufacturer. We will assist you promptly.

1.Product Introduction

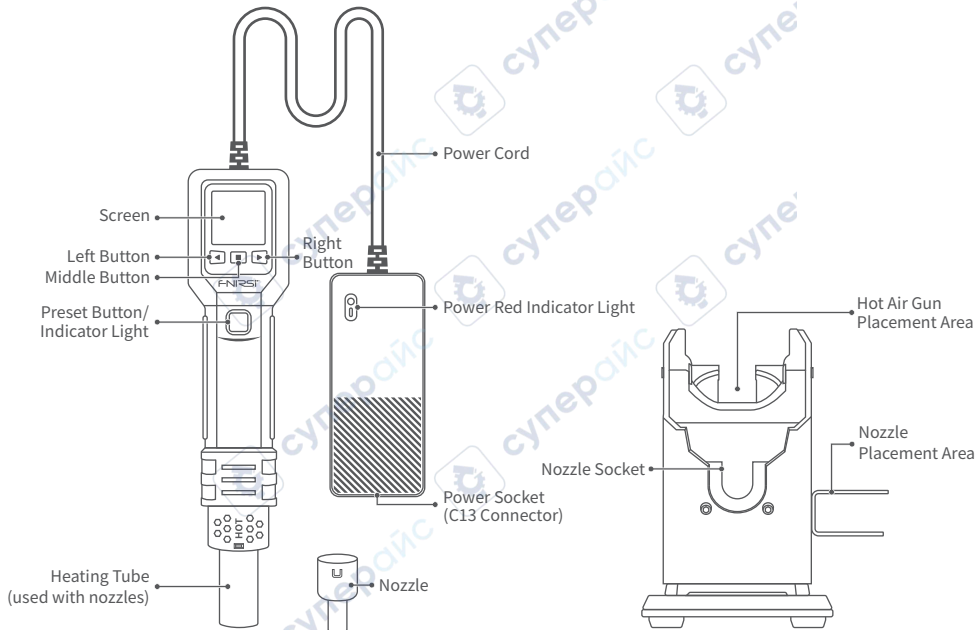
The SAG-55 Intelligent Hot Air Gun is a newly launched portable smart hot air gun by Shenzhen FNIRSI Technology Co., Ltd., designed to meet various application needs. It uses a microcontroller with PID precise temperature control technology, ensuring rapid heating with minimal thermal shock, which extends the lifespan of the heating element. The brushless fan supports adjustable wind speeds from levels 1 to 20, providing low noise, long life, and adaptability to different work environments.

The handle integrates a magnetic sensor that automatically heats up when picked up and cools down into standby mode when returned, making operation simple. The controller and display screen on the handle allow for effortless one-handed adjustment of temperature and wind speed. It also supports three sets of quick temperature/wind speed presets for fast switching. The fast cooling function accelerates cooling, further extending the heating element's lifespan. Real-time monitoring by various sensors ensures the device shuts off heating in case of any abnormalities, ensuring safety. The LCD display and LED indicator clearly show working status and temperature changes.

With its ergonomic handle design for a comfortable grip and compact, portable build, the SAG-55 is the ideal choice for professionals and DIY enthusiasts alike.

2. Structural Overview

【 2.1 】 Appearance Description

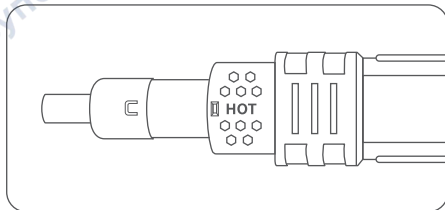
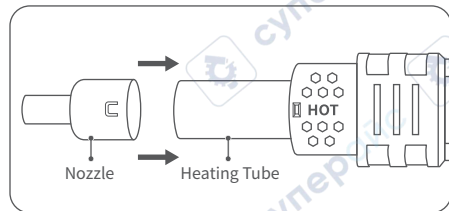


[2.2] Indicator Light Description

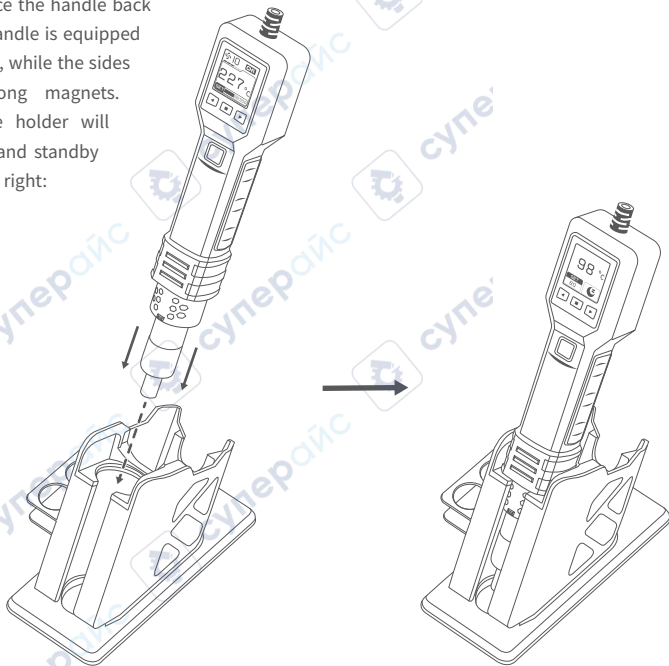
Indicator Light	
	Power-Off State
	Temperature < 100°C
	100°C ≤ Temperature < 300°C
	Temperature ≥ 300°C

[2.3] Installation Instructions

- The diameter of the steel pipe at the air outlet is approximately 21.7mm, suitable for 850 series nozzles. You can select different nozzles with varying outlet diameters based on different application scenarios. When installing, make sure to place the nozzle in the correct position as shown in the diagram below:

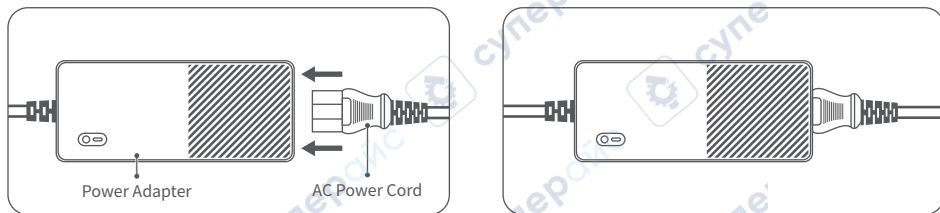


- After attaching the nozzle, place the handle back onto the handle holder. The handle is equipped with a magnetic control switch, while the sides of the holder contain strong magnets. Returning the handle to the holder will automatically initiate cooling and standby mode, as shown in the diagram right:



[2.4] Power Supply Instructions

- First, connect the AC power cord to the SAG-55 power adapter, then plug the power cord into a 220V AC outlet. The power setup is shown in the diagram below:



! NOTE

The SAG-55 hot air gun must be powered by an AC220V (200V~240V), 50Hz/60Hz power supply.
For electrical safety, always use a socket with a ground wire!

3.Parameter Introduction

Product Model	SAG-55
Power Supply and Power Parameters	AC 220V/50Hz, Heating Power 550W (MAX), Standby Power <0.7W
Temperature Control Range	100°C-450°C (212°F-842°F)
Display Screen Size	1.54-inch LCD (240*240)
Airflow Rate	80L/min, Adjustable from 1-20 levels
Heating Tube Size	Length 80mm, Diameter 21.6mm (compatible with 850 series nozzles)
Body Dimensions	Handle (excluding nozzle): 260*60*40 mm;Power Adapter: 118*50*30.6 mm
Cable Length	Handle Silicone Cable: 1.2m;AC Power Cord: 1.2m
Operating Noise	<65dB
Overall Weight (including accessories)	≈ 1391g

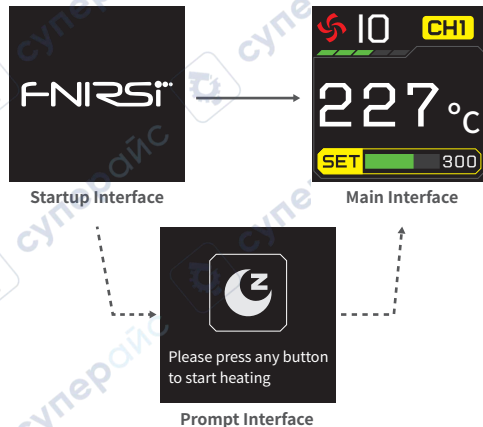
4. Operation Instructions

[4.1] Power-Off State

Press and hold the middle button  for approximately 3 seconds to power on. The power on/off state has a memory function. After powering on, the startup logo will be displayed (as shown in Figure 5.1). Depending on whether the startup heating option is enabled or disabled (configurable), the device will enter different interfaces: If startup heating is disabled, you will be taken to a prompt screen (as shown in Figure 5.2) — press any button to start heating and enter the main interface. If startup heating is enabled, there will be no prompt; the device will directly enter the main interface and begin heating.

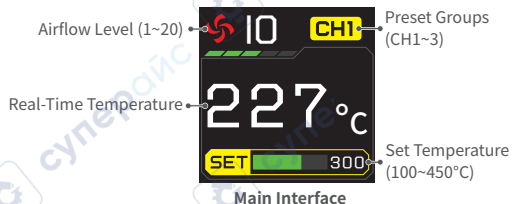
[4.2] Prompt Interface

Press any button to enter the main interface and start heating. Double-click the middle button  to enter the menu interface. If automatic shutdown is enabled, the device will automatically shut down after reaching the set time (configurable from 5 minutes to 15 minutes). The interface is shown in Figure 5.2:



【 4.3 】 Main Interface

In the main interface, the functions of each button are as follows:



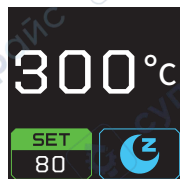
Button	Single Click	Double Click	Long Press
	Switch temperature/airflow speed settings	Enter menu settings interface	Cool down and shut down
	Step to decrease set temperature/airflow speed	\	Quickly decrease set temperature/airflow speed
	Step to increase set temperature/airflow speed	\	Quickly increase set temperature/airflow speed
	Switch three preset levels	\	Switch airflow to cold air

【 4.4 】 Cooling Interface

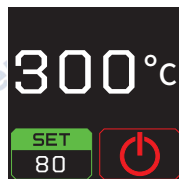
When the temperature decreases to the standby temperature value (configurable from 70°C to 100°C), the device enters standby mode. Cooling speed has two options: normal cooling with the current airflow (quick cooling off) and rapid cooling with airflow at level 15 (quick cooling on). During the cooling process, if you long press the middle button (if in the standby cooling interface, it will switch to the shutdown cooling interface and wait for shutdown; if in the shutdown cooling interface, you can return to the main interface to continue heating). If the handle is placed back in the holder during cooling, it will prompt standby mode. Picking up the handle will return to the main interface to continue heating. The interface is shown in the right image:

【 4.5 】 Standby Interface

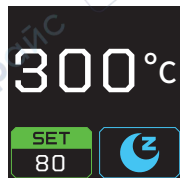
The standby interface is as shown in the right figure. When the handle is placed back into its holder, the system begins cooling. Once the temperature decreases to the standby temperature value (which can be set between 70°C and 100°C), it enters the standby interface. If the handle is picked up, the system will return to the main interface to continue heating operations. If automatic shutdown is set, the system will enter the shutdown interface after reaching the set time. Additionally, pressing and holding the middle button  will also bring up the shutdown interface. This interface also allows access to the menu interface by double-clicking the middle button .



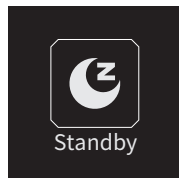
Standby
Cooling Interface



Shutdown
Cooling Interface



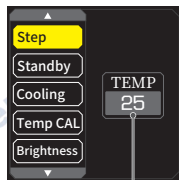
Standby
Cooling Interface



Standby Interface

【 4.6 】 Menu Interface

Double-click to enter the menu interface, where you can set various parameters. The main menu consists of 12 items, as shown in the right figure. The menu is divided into 2 levels (main menu and sub-menu). In the main menu interface, the functions of each button are as outlined in the table below:



Sub-menu

Button	Single Click	Long Press
	Select the previous menu item	\
	Enter sub-menu (parameter settings)	Exit the main menu interface
	Select the next menu item	\

Main Menu



In the sub-menu (parameter settings) interface, the functions of each button are as outlined in the table below:

Button	Single Click	Long Press
	Switch between different options / Adjust parameter values	\
	Save parameters and return to the main menu	Do not save parameters and return to the main menu
	Switch between different options / Adjust parameter values	\

The parameters and descriptions for each sub-menu are as outlined in the table below:

Menu Items	Definitions	Factory Settings	Adjustable Range
Auto off	Time to wait in standby mode before automatic shutdown. Setting it to OFF disables automatic shutdown.	5 minutes	Never Shutdown, 5 minutes, 10 minutes, 15 minutes
Heat	Whether to skip the prompt screen "Press any key to start heating" and proceed directly to heating.	Off	Off / On
Unit	The unit of temperature displayed on the interface.	Celsius (°C)	Celsius (°C) / Fahrenheit (°F)
Language	The language displayed on the interface.	Simplified Chinese	Simplified Chinese / English
Shortcut	Set the fan speed and temperature for preset levels.	Fan speed 10, Temperature 300°C	Fan speed 1-20, Temperature 100-450°C
Step	The temperature adjustment step value.	25°C	5°C ~ 25°C
Standby	Set the standby temperature/shutdown temperature	80°C	70°C ~ 100°C
Cooling	Whether to enable rapid cooling mode. When enabled, the system will blow a higher volume of air during standby to cool down faster.	Open	Close / Open
Temp CAL	Calibrate the temperature. After selection, the hot air gun will blow air at the corresponding temperature level.	120°C, 220°C, 320°C, 420°C	/
Brightness	Set the screen brightness.	10	1 ~ 10
Reset	Restore the settings to factory default.	Cancel	Cancel / Confirm
About	Brand information, version number.	V1.0	/

5. Precautions

- The air outlet of the hot air gun and its surroundings may reach extremely high temperatures. Even if the system is in cooling standby or turned off, exercise caution to avoid burns!
- After using the machine, always place the handle correctly back on the handle holder. Wait until the machine has automatically cooled down to the set standby temperature (70–100°C) before turning it off or unplugging it.
- Ensure that the steel pipe air outlet and the fan intake are unobstructed and free from blockages! Maintain proper air circulation.
- During use, maintain at least a 2mm distance between the air outlet and the object to be desoldered to ensure proper desoldering.
- For different desoldering scenarios, select the appropriate nozzle. Note that different nozzles may result in variations in the air outlet temperature.
- The brushless fan integrated into the handle may vibrate during operation; this is normal. You can reduce the fan speed to minimize vibration.
- Do not use the machine in environments with flammable or explosive gases or substances! Avoid using it in excessively humid environments as well.
- Use a 220VAC power supply with a grounding wire for the machine. If the machine is not used for an extended period, please unplug the power cord!
- Keep the machine out of reach of children!