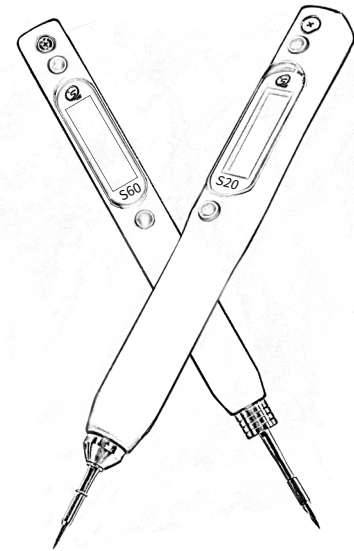


Product Instruction Manual

S20 | S60 Nano Precision Electric Soldering Iron



Thank you for using this product, please read the manual carefully before use to avoid mistakes in your operation.



1 Product Overview

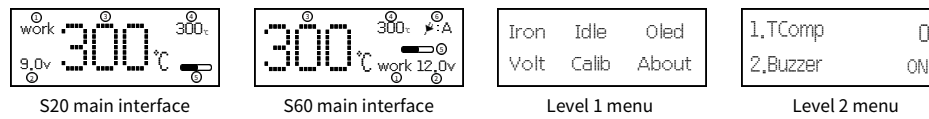
S20/S60 precision intelligent soldering iron come with an OLED display, supports PD2.0/3.0, QC2.0/3.0, DC power supply, programmable firmware upgrade, custom boot LOGO, switch between Celsius and Fahrenheit, can calibrate and compensate for temperature, intelligent temperature control up to plus or minus 1%, using a high-quality heating element, extremely fast melting tin, suitable for precision welding maintenance.

2 Product Parameters


















Model	S20	S60
Maximum voltage	9V	12V
Maximum power	20W	60W
Interface type	Type-C	
Screen size	0.91 inch OLED	
Working temperature	50-500°C / 122-932°F	
Power supply mode	PD2.0/3.0 , QC2.0/3.0, DC	

3 Menu Introduction



(1) Main Interface

Main Interface	Icon Display	Icon Description	Operation Method
1		Stop mode	Long Press the A key to switch between the working mode and the stop mode.
		Working mode	
		Sleep mode	
		Soldering iron tip warning	Please re-adjust the position of the soldering iron tip or replace it. After the warning condition is removed, the warning icon automatically changes to Stop.
		High voltage warning	Please reduce the power supply voltage, use a suitable power supply. After the warning condition is removed, the warning icon automatically changes to Stop.
		High temperature warning	Please disconnect the power supply, cool down the soldering iron tip to room temperature, and then reconnect. After the warning condition is removed, the warning icon automatically changes to Stop.
		Low voltage warning	Please increase the supply voltage or decrease the LowVolt setting value. After the warning condition is removed, the warning icon automatically changes to Stop.
	PCB high temperature warning	Please disconnect the power supply, cool down the soldering iron to room temperature, and then reconnect. After the warning condition is removed, the warning icon automatically changes to Stop.	
2	9V / 12V	Supply voltage	/
3	300°C	Soldering iron tip temperature	/
		Soldering iron tip warning	Please re-adjust the position of the soldering iron tip or replace it.
		High voltage warning	Please reduce the power supply voltage, use a suitable power supply.
		High temperature warning	Please disconnect the power supply, cool down the soldering iron tip to room temperature, and then reconnect
		Low voltage warning	Please increase the supply voltage or decrease the LowVolt setting value.
	PCB high temperature warning	Please disconnect the power supply, cool down the soldering iron to room temperature, and then reconnect.	
4	300°C	Working temperature setting value	Short press A key or B key to set working temperature value.
5		Power progress bar	/
6		Working power	Enter Power to set the maximum working power.

(2) Level 1 menu / Level 2 menu

Level 1 menu	Level 2 menu	Description	Default value	Setting range
Iron	1.Tcomp	Temperature compensation	0°C	-20°C-20°C
	2.Buzzer	Buzzer	ON	OFF/ON
	3.TempUnit	Temperature unit	°C	°C/°F
	4.WorkTemp	Operating temperature	300°C	50°C-500°C
	5.StartHea	Automatic heating when power on	OFF	OFF/ON
	6.FactorySet	Restore factory settings	OFF	OFF/ON
	7.TempShield	The temperature display is stable	ON	OFF/ON
	8.TempStep	Working temperature setting step value	50	1-50
	9.Power	Power output percentage	AUTO	None (S20) AUTO/20-100% (S60)
Idle	1.SleepTime	Sleep time	30s	5-360s
	2.SleepTemp	Sleep temperature	50°C	50°C-500°C
	3.IdleTime	Standby time	360s	30-990s
	4.Sensitive	Wake up sensitivity	5	1-30
	5.ScreenOpen	Standby screen display	ON	OFF/ON
Lcd	1.Brightness	Display brightness	50	5-255
	2.Direction	Display direction	0°	0°/180°
	3.KeyAction	Key operation mode	A-B+	A-B+/A+B-
Volt	1.LowVolt	Low voltage protection	OFF	OFF/5.0-9.0V (S20) OFF/5.0-12.0V (S60)
	2.PowerVolt	Supply voltage compensation	0V	-5.00-5.00V
Calib	/	Temperature calibration	/	T1-T4
About	/	Information about soldering iron	/	/

(3) Menu operation guide

- ★ Main interface:
 - ① Long press A key, switch between "Stop" and "Work" modes.
 - ② Short press A or B key, adjust the working temperature setting value.
 - ③ Long press B key, enter the level 1 menu.
 - ④ A warning icon is displayed,after the warning condition is eliminated, short press A or B key to change the warning icon to Stop.
- ★ Level 1 menu :
 - ① Short press A or B key,loop select level 1 menu function box.
 - ② Long press A or B key,enter level 2 menu setting item,the parameter setting box appears.Short press A or B key,setting this parameter.After the parameter setting is complete, long press AB key or no key operation for 5s, the parameter setting box will exit automatically, save the parameter setting,return to level 2 menu.
 - ③ Long press AB key or no key operation for 5s, return to level 1 menu.
- ★ Level 2 menu :
 - ① Short press A or B key,loop select level 2 menu function box.
 - ② Long press A or B key,enter level 2 menu setting item,the parameter setting box appears.Short press A or B key,setting this parameter.After the parameter setting is complete, long press AB key or no key operation for 5s, the parameter setting box will exit automatically, save the parameter setting,return to level 2 menu.
 - ③ Long press AB key or no key operation for 5s, return to the main interface.

(4) Calib temperature calibrate

Calib	Fix	Fixed Value
	Real	Real Value
	T1	Thermometer Temperature
	Next	Next
	Save	Save

Temperature calibration is divided into four parameters: T1, T2, T3 and T4,after entering the calibration interface,T1 temperature parameter is selected by default [xx] ,long press A or B key,T1 temperature parameter changes to the setting box [xx] ,waiting for the "Real" value to stabilize in the "Fix" value range,the thermometer measures the actual temperature of the iron tip,short press A or B key to write the thermometer data to T1, after the T1 calibration temperature is complete,long press AB key to exit the setting box,short press B key to enter "Next" and T2 successively, continue to complete T2, T3, T4 temperature calibration.Finally enter to "Save",long press and A or B key until "Save Succeed" appears,calibration complete.

During the calibration process,long press and hold AB key to exit the calibration interface, the parameters will not be saved.

During the temperature calibration process, first add tin to clean the soldering iron tip, then use a thermometer to measure the temperature,during the calibration, the soldering iron tip is in a high temperature state to avoid burns.

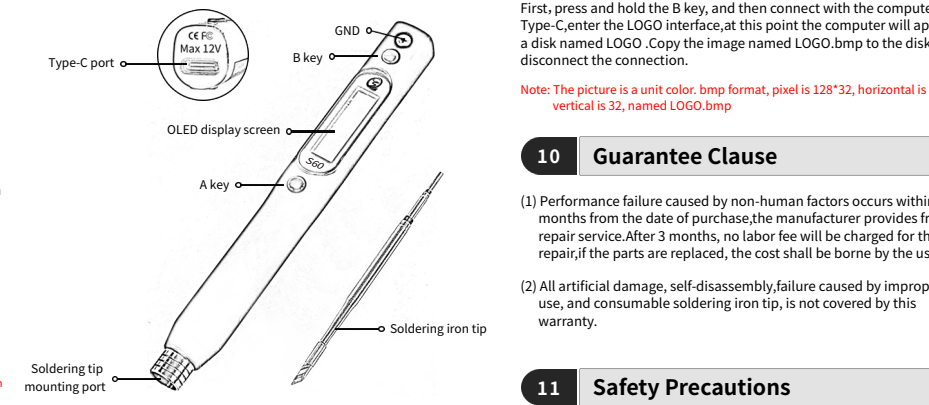
4 Eliminate The Warning

When the soldering iron occurs a warning , a warning icon is displayed on the screen (if the buzzer is open, will accompany the warning beep), according to the prompt warning icon, troubleshoot step by step, after eliminating the warning condition(if the buzzer is open, immediately stop warning prompt), short press A or B key the warning icon (main interface 1) changes to Stop.

5 Sleep Wake Up

- Work mode,when the soldering iron is in a static state without any operation, will enter sleep mode automatically after waiting for SleepTime seconds ,the temperature will be automatically set to SleepTemp.
- Sleep mode, when key operation or shaking the soldering iron,wake up the soldering iron and automatically restore the original setting of WorkTemp ; if the soldering iron is not woken up, after waiting for IdleTime the soldering iron stops working, enter the Stop mode.
- Stop mode, the soldering iron is in a static state without any operation,after waiting for 180s to enter ScreenOpen, can exit by key operation or shaking the soldering iron.

6 Component Structure



9 Customize The Startup LOGO

First, press and hold the B key, and then connect with the computer through Type-C,enter the LOGO interface,at this point the computer will appear a disk named LOGO .Copy the image named LOGO.bmp to the disk, disconnect the connection.

Note: The picture is a unit color. bmp format, pixel is 128*32, horizontal is 128, vertical is 32, named LOGO.bmp

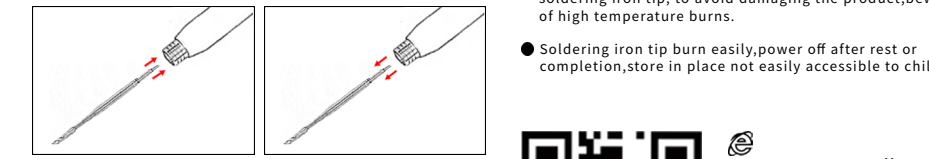
10 Guarantee Clause

- (1) Performance failure caused by non-human factors occurs within 3 months from the date of purchase,the manufacturer provides free repair service.After 3 months, no labor fee will be charged for the repair,if the parts are replaced, the cost shall be borne by the user.
- (2) All artificial damage, self-disassembly,failure caused by improper use, and consumable soldering iron tip, is not covered by this warranty.

11 Safety Precautions

- Use power supplies and accessories that meet safety standards,use original SEQUIRE accessories.
- Must make sure that the power is off, can replace the soldering iron tip, to avoid damaging the product,beware of high temperature burns.
- Soldering iron tip burn easily,power off after rest or completion,store in place not easily accessible to children

7 Installation Steps



Note: When disassembling and assembling the soldering tip, pay attention to high temperature scald.

8 Firmware Update

Visit www.sequiremall.com to obtain firmware and upgrade steps.

