



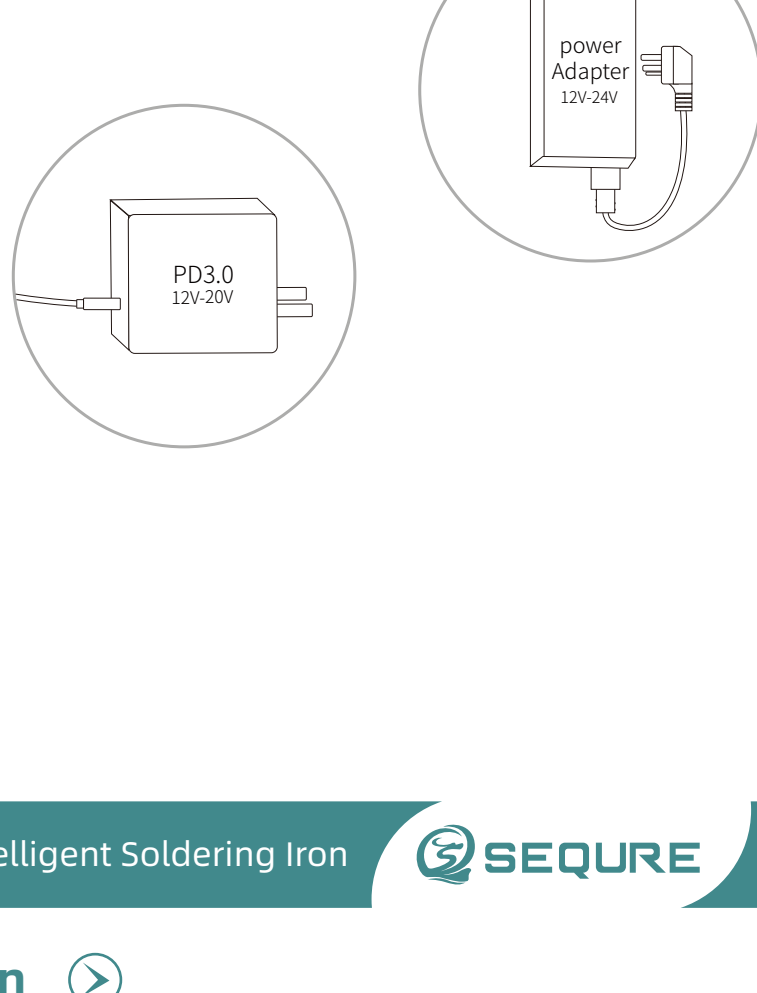
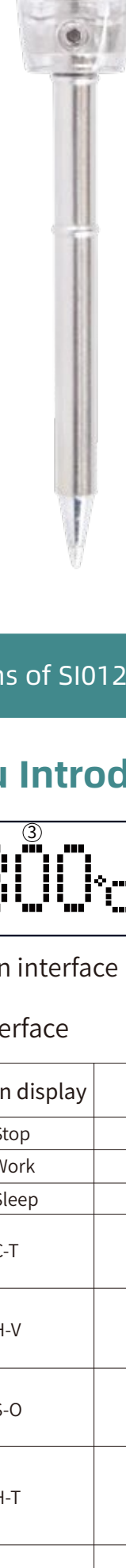
# INSTRUCTIONS OF SI012 PRO INTELLIGENT SOLDERING IRON

Thanks for buying this product! Please read the instructions carefully before use and strictly abide by the specified operating instructions. Users must have a certain electronic foundation and good welding skills. Wrong use may cause personal injury and equipment damage. We do not assume any liability arising from the use of this product or unauthorized modifications to the product, including but not limited to liability for incidental or indirect losses.

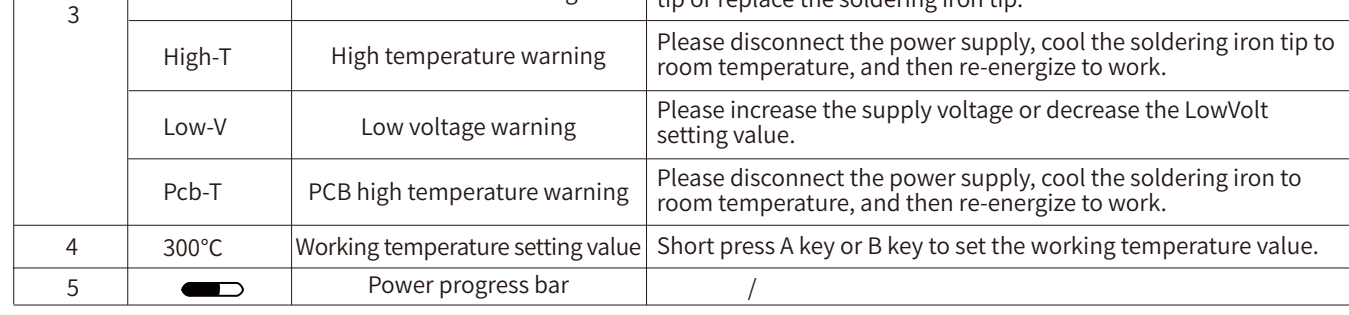


## 1. SI012 Pro Introduction

The SI012 Pro intelligent soldering iron comes with 0.91 inch OLED display, supports PD3.0, QC2.0, DC5525 12V-25V/3S-6S power supply, programmable firmware upgrade, Celsius and Fahrenheit switching, compatible with both long and short types of soldering iron tips, the temperature can be calibrated and compensated, and the intelligent temperature control can reach plus or minus 1%.



## 2. Menu Introduction



### (1) Main Interface

Main interface	Icon display	Icon description	Method of operation
1	Stop	Stop mode	Long press the A key to switch between working mode and stop mode
	Work	Work mode	/
	Sleep	Sleep mode	/
	C-T	Soldering iron tip warning	Please readjust the position of the soldering iron tip or replace the soldering iron tip. After the warning condition is eliminated, the warning icon will automatically change to Stop.
	H-V	High voltage warning	Please use DC12-25V/3S-6S power supply. After the warning condition is eliminated, the warning icon will automatically change to Stop.
	S-O	Short circuit warning	Please readjust the position of the (long) soldering iron tip or replace the soldering iron tip. After the warning condition is eliminated, the warning icon will automatically change to Stop.
	H-T	High temperature warning	Please disconnect the power supply, cool the soldering iron tip to room temperature, and then re-energize to work. After the warning condition is eliminated, any short press of the A key or B key, the warning icon changes to Stop.
2	L-V	Low voltage warning	Please increase the power supply voltage or decrease the LowVolt setting value. After the warning condition is eliminated, the warning icon will change to Stop.
	P-T	PCB high temperature warning	Please disconnect the power supply, cool the soldering iron to room temperature, and then re-energize to work. After the warning condition is eliminated, any short press of the A key or B key will change the warning icon to Stop.
3	20.0V	Power supply voltage	/
	300°C	Soldering iron tip temperature	/
	Check Tip	Soldering iron tip warning	Please readjust the position of the soldering iron tip or replace the soldering iron tip.
	High-V	High voltage warning	Please use DC12-25V/3S-6S power supply.
	Short Out	Short circuit warning	Please readjust the position of the (long) soldering iron tip or replace the soldering iron tip.
	High-T	High temperature warning	Please disconnect the power supply, cool the soldering iron tip to room temperature, and then re-energize to work.
	Low-V	Low voltage warning	Please increase the supply voltage or decrease the LowVolt setting value.
4	Pcb-T	PCB high temperature warning	Please disconnect the power supply, cool the soldering iron to room temperature, and then re-energize to work.
	300°C	Working temperature setting value	Short press A key or B key to set the working temperature value.
5		Power progress bar	/

### (2) Level 1 Menu & Level 2 Menu

Level 1 menu	Level 2 menu	Description	Default value	Setting range
Iron	1.Temp	Temperature compensation	0°C	-20°C-20°C

Menu	Item	Description	Default value	Setting range
Iron	2.Buzzer	Buzzer	ON	OFF/ON
	3.TempUnit	Temperature unit	°C	°C/°F
	4.WorkTemp	Working temperature	300°C	100°C-450°C
	5.StartHeat	Automatic heating at startup	OFF	OFF/ON
	6.FactorySet	Restore factory settings	OFF	OFF/ON
	7.TempShield	Stable temperature display	ON	OFF/ON
	8.TempStep	Main interface working temperature setting step value	50	10-50
	Idle	1.SleepTime	Sleep time	180s
2.SleepTemp		Sleep temperature	200°C	100°C-450°C
3.IdleTime		Standby time	360s	60-990s
4.Sensitive		Wake-up sensitivity	5	1-30
5.ScreenOpen		Standby screen display	ON	OFF/ON
Oled	1.Brightness	Display Brightness	50	5-255
	2.Direction	Display Direction	0°	0°/180°
	3.KeyAction	Button direction	A-B+	A-B+/A+B-
Volt	1.LowVolt	Low voltage protection	10v	OFF/10-23v
	2.PowerVolt	Supply voltage compensation	0v	-5.00-5.00v
Calib	/	Temperature calibration	/	T1-T4
About	/	Information about the soldering iron	/	/

### (3) Menu Operation Guide

- ★ Main Interface:
  - Short press A key to switch between Stop mode and Work mode.
  - Short press A key or B key to adjust the working temperature setting value.
  - Long press B key, enter level 1 menu.
  - A warning icon is displayed, after the warning condition is cleared, short press either A key or B key, the warning icon change to Stop.
- ★ Level 1 menu
  - Short press A key or B key, loop to select the level 1 menu function box.
  - Long press A key or B key, enter level 2 menu.
  - Long press AB key at the same time or operate without key for 5
- ★ Level 2 menu
  - Short press A key or B key, loop to select the level 2 menu function box.
  - Long press A key or B key, confirm to enter the level 2 menu setting item, appear parameter setting box. Short press A key or B key, set this parameter. After parameter setting is complete, operate without key for 5 seconds, automatically exit the parameter setting box, return to level 2 menu.
  - Long press AB key at the same time or operate without key for 5 seconds, return to level 1 menu.

## 4. Calib Temperature Calibration

Calib	Fix	Fixed Value
	Real	Actual Value
	T1	Temperature Thermometer
	Next	Next Step

**In process of temperature calibration, add tin to new soldering iron tip first, then use thermometer to measure temperature. During calibration, soldering iron tip is in a high temperature state, avoid scalding.**

T1 temperature parameter is divided into four parameters: T1, T2, T3, T4. After setting, the calibration interface, T1 temperature parameter is selecting box by default , long press A key or B key, T1 temperature parameter changes to setting box , wait for value of "Real" to steadily fluctuate within value range of "Fix", thermometer to measure actual temperature of soldering iron tip, short press A key or B key to write thermometer data to T1, after setting T1 calibration temperature, long press AB key at the same time to exit setting box, short press B key to enter "Next" and T2 in turn, continue to complete temperature calibration of T2, T3, T4. Finally, enter "Save", long press A key or B key until "Save Succeed" appear, calibration is complete.

During calibration process, long press AB key at the same time exit calibration interface, parameters are not saved.

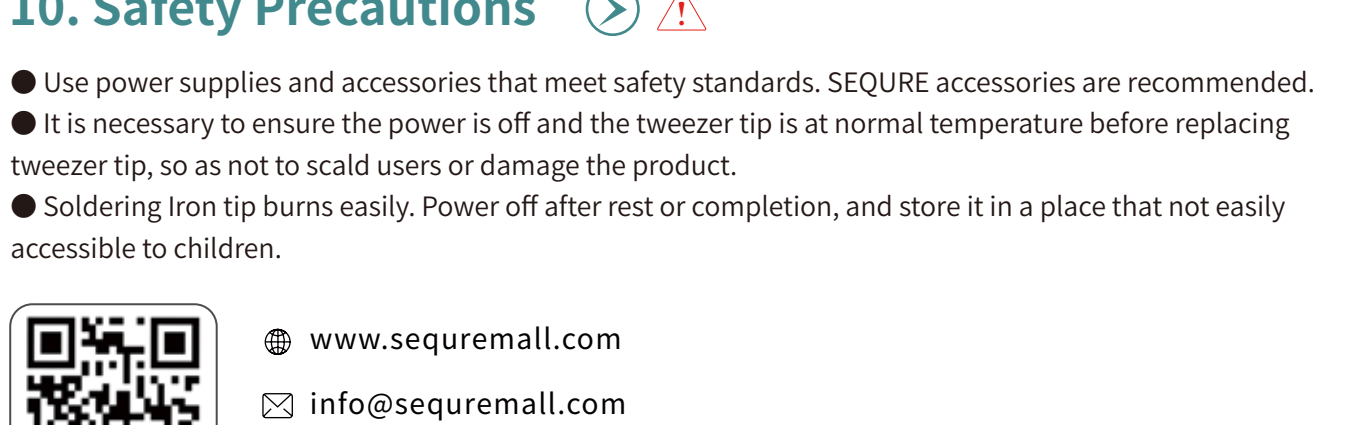
## 3. Eliminate warnings

When soldering iron appear warning, according to prompt warning icon, after warning condition is troubleshot and eliminated step by step (if buzzer is open, warning tone stop immediately), short press either A key or B key, warning icon (main interface 1) change to Stop.

## 4. Sleep and Wake-up

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

## 5. Component Structure



NO	Component name	NO	Component name
1	Long soldering iron tip	6	A key
2	Short soldering iron tip	7	B key
3	Soldering iron tip mounting port	8	OLED
4	Hex screw 1	9	Type-C (support PD3.0, QC2.0, programmable)
5	Hex screw 2	10	power port 5525 (support 12V-25V/3S-6S)

## 6. Assemble, Disassemble of SI012 Pro Soldering Iron head

**Note: Please pay attention not to be burned by the high temperature when assemble and disassemble the Soldering iron head.**

### (1) Procedure of installing soldering iron tip



## 7. Technical Reference

Soldering Iron Tip	Working Voltage	Power	Fastest Time from 30°C to 300°C
	12v	16w	37s
	19v	40w	14s
	24v	65w	9s
	12v	17w	37s
	19v	45w	13s
	24v	68w	8s

## 8. Firmware Upgrade

Please visit [www.sequiremall.com](http://www.sequiremall.com) to obtain the firmware. **Please download the firmware version that corresponds to the product name. Incorrect upgrades may result in an unusable or damaged product.**

## 9. Warranty Terms

- For those performance faults caused by non-human factors within 3 months from the date of purchase, we provide repair & maintenance service for free. After 3 months, no labor fee will be charged for repairs. If you want to replace parts, you must pay for the cost.
- All man-made damage, faults caused by self-disassembly & improper use, and all consumables like Soldering Iron tips are not covered by the warranty.

## 10. Safety Precautions

- Use power supplies and accessories that meet safety standards. SEQUIRE accessories are recommended.
- It is necessary to ensure the power is off and the tweezer tip is at normal temperature before replacing tweezer tip, so as not to scald users or damage the product.
- Soldering iron tip burns easily. Power off after rest or completion, and store it in a place that not easily accessible to children.

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