

# ATTEN Soldering Station

## ST-2090D User Manual

The soldering iron needs to be tested before it leaves the factory, so the soldering tip may cover a small amount of tin, and the casing will be slightly yellowing, which is a normal phenomenon.

### Copyright information

The design of this product(including internal software) and its accessories is under the protection of relevant state laws.Any violation of the relevant rights of our company will be subject to legal sanctions.Users shall consciously abide by the relevant state laws when using this products.

### Disclaimer

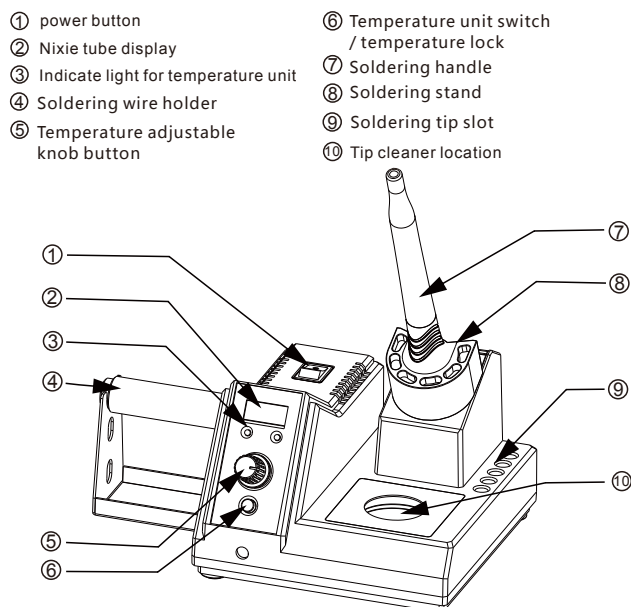
We will take no responsibility for any personal injury or property damage caused by reasons other than the product quality problem,which may include force majeure (natural disasters,etc) or personal behavior during the operation of this product.This manual is organized ,compiled and released by SHENZHEN ATTEN TECHNOLOGY CO., LTD. according to the latest product features. We will not responsible for further notice of the subsequent improvement of the product and this manual.

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### Features

- This product designed with nixie tube display.
- Combined soldering station with soldering stand.
- MCU controlled temperature calibration with PID system equipped, adjust temperature by knob button, easy to operate.
- The handle structure is ergonomically designed for comfortable grip.
- The heating wire and sensor are made of PTC material, which is quick in temperature rise and precise in temperature control.
- Auto-standby, auto-shut down is available.
- Using 3 cored power cable.

### Appearance and control panel



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### Safety precautions

	Warning	Misuse of this product may lead to serious injury or death to the user..
	Caution	Misuse of this product may lead to serious injury to the user or material damage to the object involved.

To avoid electric shock or injury to the human body or fire hazard,the follwing basic rules must be observed when using the equipment.In order to ensure personal safety,only parts and accessories approved or recommended by the original factory canbe used, otherwise serious consequences may occur!

WARNING	
When using this product, the soldering pencil/soldering tip, with the temperature up to 80-480℃, may cause burns to the user or cause a fire due to improper application. So Users shall strictly observe the following rules:	
<ul style="list-style-type: none"><li>• Keep this product away from flammable materials.</li><li>• Keep the product out of children's reach.</li><li>• Do not use this product if you are inexperienced or have no sufficient necessary knowledge without the guidance of related personnel.</li><li>• Do not use this product under wet environment or with wet hands to avoid electric shock.</li><li>• Do not modify this product and its accessories without authorization.</li><li>• Please turn off the power when replacing parts and iron tips, and not resume the use until the equipment is completely cooled down.</li><li>• Please use the accessories from the original factory when replacing the product parts.</li><li>• Make sure to turn off the power switch when the equipment is temporarily stopped or out of use.</li></ul>	

### Essential knowledge for users

Users are required to have basic knowledge of common sense and electrical operations before using the product. Minors shall use the product under the guidance of a professional or guardian.

### Packing list

Main unit (including machine, power cable and handle)x1pc  
Soldering wire holder x 1pc  
User manual x 1pc

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### Specification

Item No.	Voltage	Power	Temperature range
ST-2090D	110/240V AC	80W	80°C~480°C
Temperature stability	Adjustable method	Temperature unit	Display method
± 2°C	Knob	°C/°F	Nixie tube

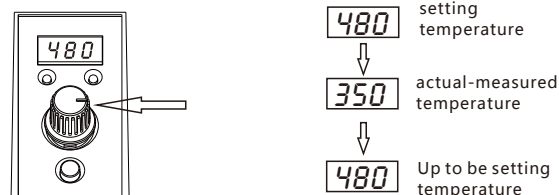
### Operational guide

#### 1. power button

Turn on after this device given by power. Set the temperature you want will be shown on the nixie tube display by knob. It will show the real temperature value of the soldering tip after 3 seconds.

#### 2. Temperature Setting

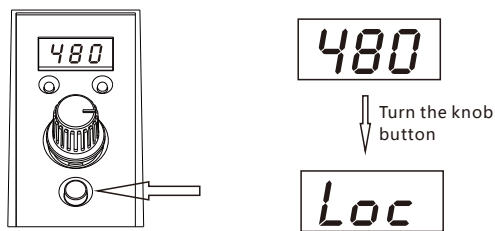
When this device is working, it can adjust temperature rapidly by temperature knob, the setting temperature will be shown when adjusting temperature, the real temperature of soldering tip will be displayed after stopped adjusting temperature for 3 seconds. Temperature range is 80~480°C.



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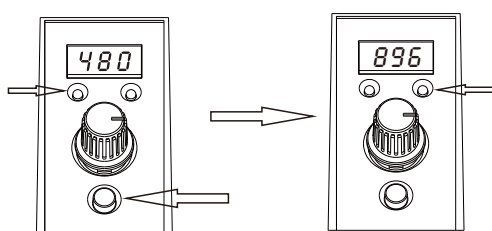
### 3. Temperature Locking Function

Press LOOK/°C/°F button for 3 seconds at the same time under working mode, the current temperature will be locked, the temperature won't be changed by turning the knob button, and display LOC for locking temperature. Can unlock the current temperature by pressing LOOK/°C/°F button for 3 seconds again when temperature locking.



### 4. Switching Temperature Unit

The current temperature unit will be switched by pressing LOOK/°C/°F button at the same time under working mode, the indicate light of temperature unit will be changed accordingly.



### 5. Auto Standby Function

When the soldering iron not in use and put the soldering iron on the iron holder, it will auto standby after 10 minutes, heater is heating up to 200 °C, nixie tube display STB, pick up the soldering iron and back to normal working mode.



### 6. Auto Sleep Function

In auto standby mode, the soldering station will auto sleep after 20 minutes, nixie tube display SLP, the heating core is not heated, it will get back to normal work mode by adjusting the knob or pressing the button. (P.S. It will auto sleep when not in use machine doesn't operate and turn to sleep mode)



### 7. Warning

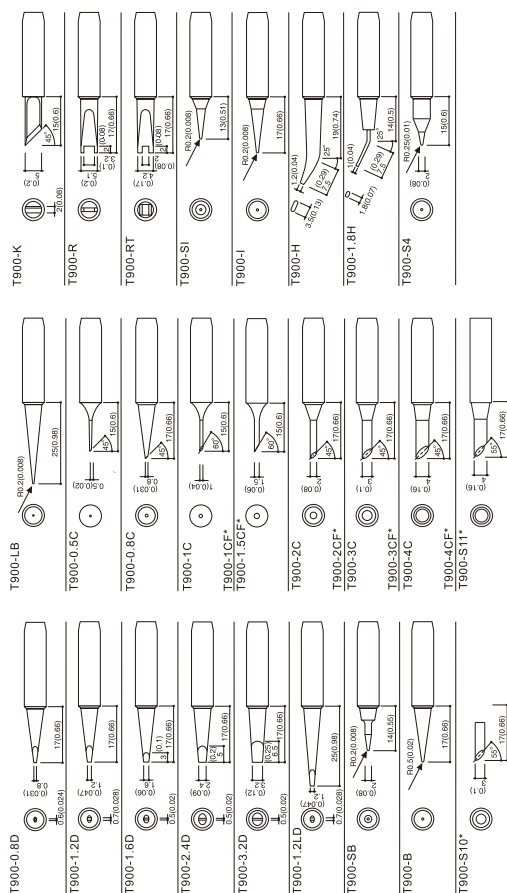
E02 shown on the display screen means there is error for sensor.



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### Soldering tips



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### Product warranty

- This product is guaranteed for two years from the date of purchase(excluding consumables such as the heating core).If any quality problem is found within the guarantee period, we will response for the maintenance free of charge.
- For those product beyond the warranty period, we provide life-long maintenance services.
- For those product damaged due to users' improper application and unauthorized changes to the product parts, our company only provides limited warranty service.
- In case of a product fault, please send the faulty product to the designated maintenance shop for maintenance, and those service center and personnel unauthorized by the factory are prohibited from carrying out any maintenance on the product.

### After-sales contact

After-sales service department Tel: (+86) 755-26976387

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