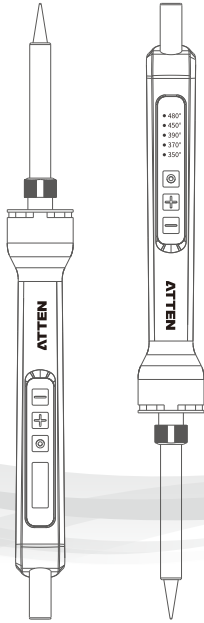


## User's Manual



SHENZHEN ATTEN TECHNOLOGY CO., LTD.

### 1. 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.

### 2. 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.

### 3. 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.

### 4. Product overview

This product is a portable, temperature-adjustable, high-temperature control soldering iron. The ceramic heating core uses a three-core grounded power cable to effectively ensure the safety of the welding operation.

### 5. Features

- \*Automatically sleep after 10 minutes and shut down after 20 minutes when the product stop operating
- Products use LCD display and LED display design
- Build in PID system equipped, adjust temperature by button, operate easily .
- The handle structure is ergonomically designed for comfortable grip.
- Display the temperature control status with a bright blue LED.
- 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.

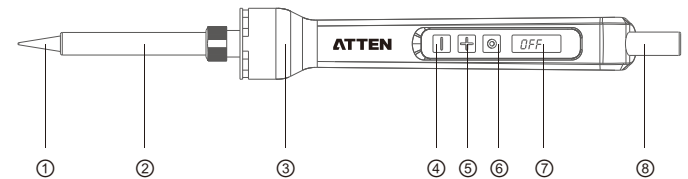
### 6. Specification

Item No.	ST-2080	ST-2150	ST-2080D	ST-2150D
Voltage	110/240VAC	110/240VAC	110/240VAC	110/240VAC
Power	80W	150W	80W	150W
Temperature range	5set adjustment	5set adjustment	250°C~480°C	250°C~480°C
Temperature accuracy	±10°C	±10°C	±10°C	±10°C
Temperature stability	±2°C	±2°C	±2°C	±2°C
Heater	Four-core PTC heater	Four-core PTC heater	Four-core PTC heater	Four-core PTC heater
Heating indication	Blue LED	Blue LED	Blue LED	Blue LED
Display method	°C	°C	°C/°F	°C/°F
Temperature unit	LED	LED	LCD	LCD

### (ST-2080D/ST-2150D)

#### Product feature

\*Remark: ST-2080D/ST-2150D with LCD display.



- ① Soldering tip
- ② Stainless steel outer casing
- ③ Shell
- ④ Minus button
- ⑤ Add button
- ⑥ Menu button
- ⑦ LCD display
- ⑧ 3corded power cable

### Operational Guide

#### A. Switch function

Charge on the product, short press power button, When booting, the screen display the temperature, as shown in picture 1; when shutdown, the screen display OFF, as shown in picture 2



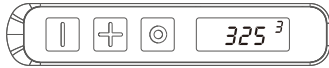
Picture 1



Picture 2

## B.9 groups shortcut temperature adjustment

In the working state, press " + " - " switch temperature group (the default temperature value of 9 groups is: 250°C/482°F; 300°C/572°F; 325°C/617°F; 350°C/662°F; 375°C/707°F; 400°C/752°F; 425°C/797°F; 450°C/842°F; 480°C/896°F. )



## (2) Temperature compensation adjustment

In the fast temperature adjustment state, short press the power button to enter the temperature compensation setting, press " + " - " adjust, long press to adjust quickly, the adjustment range: ± 50 °C / ± 90 °F



## (3) Temperature unit switching

In the temperature compensation adjustment state, short press the power button to enter the unit setting, press " + " - " to switch C and F



## (4) Auto-sleep function ON/OFF

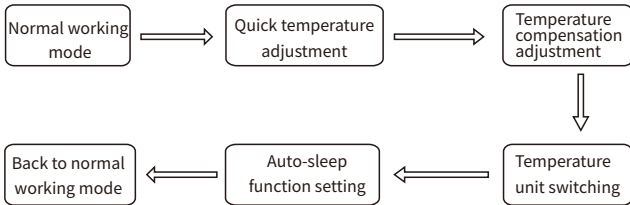
In the temperature unit switching state, short press the power button to enter the sleep setting, press " + " - " adjust, 1 means ON, 0 means OFF



Short press the power button to enter the normal state.

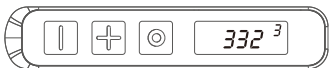


## C. Setting mode



### (1) Quick temperature adjustment

While in the working state, press the power button to enter the quick temperature adjustment, press the " + " - " button to adjust. Press fast adjustment, adjust the range : 250°C-480°C



## D. Heating

When the product is heated. The power light flashes, the brightness changes according to the power level, and the selected gear light is long.

## E. Warning

When " H-E " displayed on the screen, there is no temperature, which indicates that the heating element fails.

When " S-E " displayed on the screen, there is a fault in sensor, which signifies that there is something wrong in sensor or the related circuit of the sensor.



## Operational Guide

### A. Booting

Short press power button to boot, default 390°C lights long after booting.



### B. Temperature switching

In the working state, short press " + " - " to switch temperature.

### C. Shutdown

In the working state, short press power button, the light of power button flashing after shutdown.



### D. Heating

When the product is heated. The power light flashes, the brightness changes according to the power level, and the selected gear light is long.

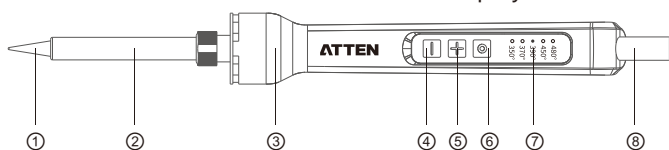
### E. Warning

When 5 lighting are all flashing, which indicates that the heating element fails. When 5 lighting are all lighting, there is a fault in sensor, which signifies that there is something wrong in sensor or the related circuit of the sensor.

## ( ST-2080/ST-2150)

### Product feature

\*Remark: ST-2080D/ST-2150D with LED display.



- |                                |                             |
|--------------------------------|-----------------------------|
| ① Soldering tip                | ⑤ Add button                |
| ② Stainless steel outer casing | ⑥ Menu button               |
| ③ Shell                        | ⑦ Temperature setting light |
| ④ Minus button                 | ⑧ 3corded power cable       |