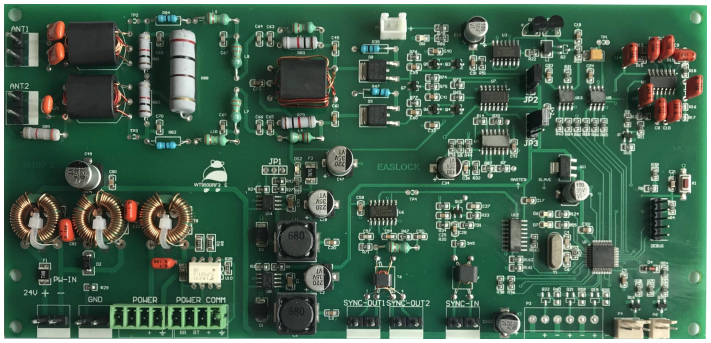
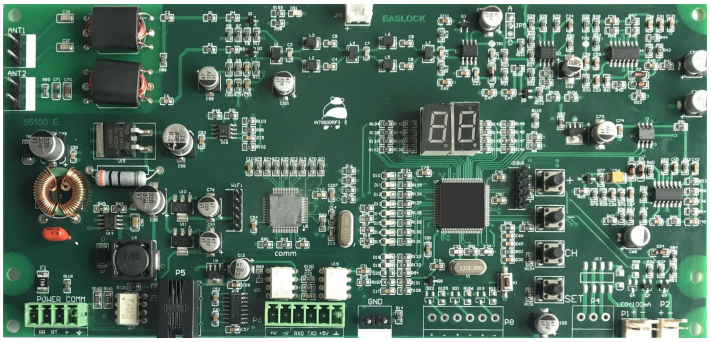
# SF-EASGATE201-RF

# USER MANUAL



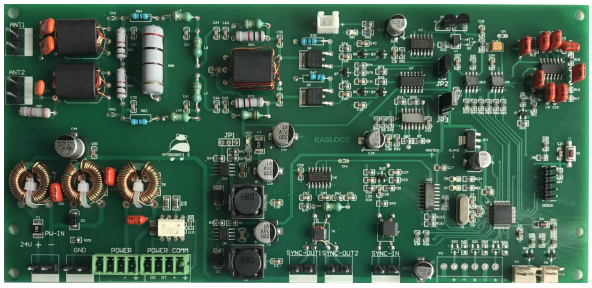
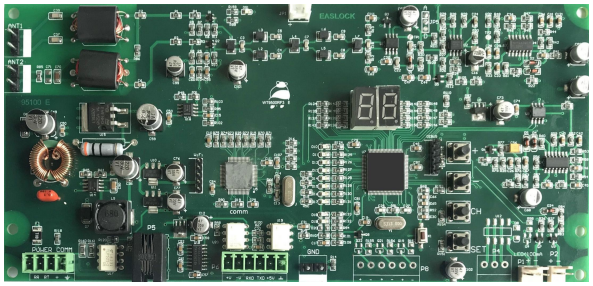
**Attention**

- For indoor use only. It is used for business hours.
- No covering products and keep ventilation.
- Pay attention to sunscreen, waterproof and moisture-proof.
- It must be installed by professionals to strictly enforce safety requirements.
- The matching capacitance of the motherboard must be adjusted by professional technicians.
- Non-professional operators are strictly prohibited.
- The distribution box must have leakage protection switch, the system is strictly grounded, and the power goes independently.
- Strong and weak electricity is strictly partitioned, not allow to mix.
- Using in the environment -10 to 40 degree centigrade.

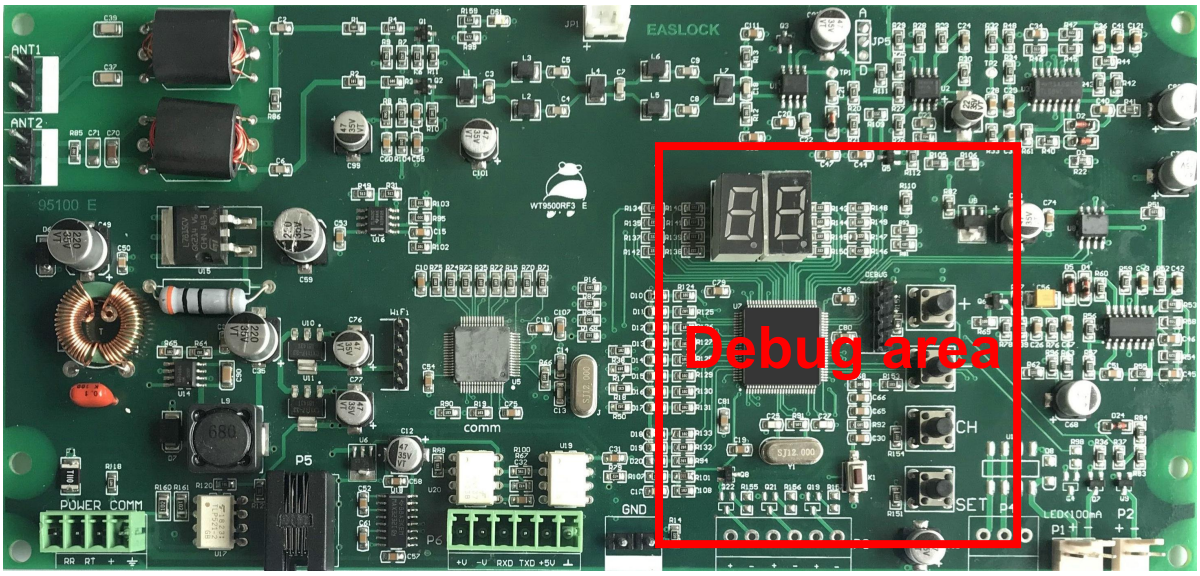
## 1. Introduction

- Take the most advanced EASLOCK technology makes each signal channel is accurately positioned, interference factors are eliminated, and the label/tag is accurately locked to complete the alarm task.
- Super wide detection range.
- Perfect anti-interference capability.
- High digital degree, two LED display.

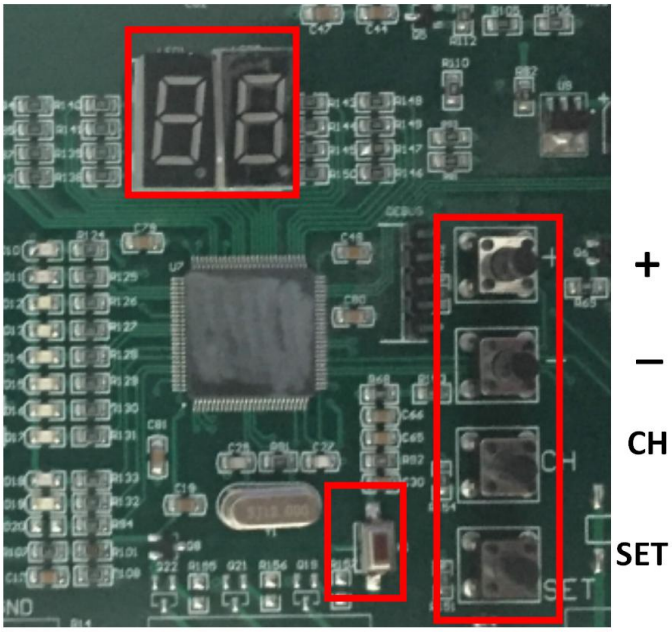
## 2. Components

| | |
|---|---|
| **TX board** |  |
| **RX board** |  |
| **Connection cable** |  |
| **Power source** |  |

## 3. Debug Setting




## 4. LED Indicator



- LED1 displays work frequency: factory default is 8(180Hz). There are 4 kinds of work frequencies totally, 6(160Hz), 7(170Hz), 8(180Hz) and 9(190Hz).

- LED2 displays central frequency: factory default is 8(8.2MHz). There are 4 kinds of central frequencies totally, 6 (6.8MHz), 7(7.2MHz), 8(8.2MHz) and 9(9.5MHz).

- No need to enter the Settings menu, you can directly adjust the sensitivity through the "+" "-" key.

- Setup menu:
  SET: Set the enter/exit key
  CH: enter key
  + - : number increase or decrease
  (Press SET, then long press + - two keys to restore factory Settings)

**5. Set up Menu**

Long press “SET” to enter the setting menu, at this moment LED1 flashes, LED2 is always on. Enter the main menu, and the current setting area is LED1. Number 1-10 on LED1 shows the main course menu options (initially default is 1), 10 Settings:

| | |
|---|---|
| SET- 1 | Work Frequency |
| SET- 2 | Central Frequency |
| SET- 3 | Sweep width |
| SET- 4 | Anti-interference |
| SET- 5 | RX sound type |
| SET- 6 | RX sound volume |
| SET- 7 | Alarm counting |
| SET- 8 | Early warning |
| SET- 9 | TX sound type |
| SET- 10 | TX sound volume |

Select the main menu item through "+" "-" and press the CH key to determine, at this time LED1 is always on, LED2 flashes, that is, enter the secondary menu, the current setting area becomes LED2.

## 6. Work Frequency(SET-1)

Long press "SET" to enter the setting menu, the number "1" on LED1 flashes, press "CH" to confirm and enter the work frequency setting (LED1 is displayed the number "1" at this time is always on, and LED2 is flashing). Set the work frequency shift “6—9”, LED2 displays:

| SET-1-6 | SET-1-7 | SET-1-8 | SET-1-9 |
|---|---|---|---|
|  |  |  |  |
| 160Hz | 170Hz | 180Hz | 190Hz |

**(Factory default is "8")**

After select "+" or "-" keys, press CH to confirm, then press SET key to save and exit settings menu.

## 7. Central Frequency(SET-2)

Tune to LED1 displays the number "2" through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the central frequency setting (at this time, LED1 displays the number "2" is always on, and the number on LED2 is flashing) Set the central frequency shift “6—9”, LED2 displays:

| SET-2-6 | SET-2-7 | SET-2-8 | SET-2-9 |
|---|---|---|---|
|  |  |  |  |
| 6.8MHz | 7.2MHz | 8.2MHz | 9.5MHz |

**(Factory default is "8")**

After select "+" or "-" keys, press CH to confirm,
then press SET key to save and exit settings menu.

## 8. Sweep width(SET-3)

Tune to LED1 displays the number "3" through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the sweep width setting (at this time, LED1 displays the number "3" is always on, and the number on LED2 is flashing)
Set the sweep width shift “5—10”, LED2 displays:

| SET-3-5 | SET-3-6 | SET-3-7 | SET-3-8 | SET-3-9 | SET-3-10 |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| 550KHz | 650KHz | 750KHz | 850KHz | 950KHz | 1050KHz |

**(Factory default is "9")**

After select "+" or "-" keys, press CH to confirm, then press SET key to save and exit settings menu.

**9. Anti-interference(SET-4)**

Tune to LED1 displays the number "4" through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the anti-interference setting (at this time, LED1 displays the number "4" is always on, and the number on LED2 is flashing).

The anti-interference setting shift "1-2" is used to set anti-interference through "+" and "-". “1” is high sensitivity,”2” is better anti-interference ability, but sensitivity is lower.

(factory default is "1")

After select "+" or "-" keys, press CH to confirm, then press SET key to save and exit settings menu.

**10. RX sound type(SET-5)**

Tune to LED1 displays the number "5" through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the RX sound type setting (at this time, LED1 displays the number "5" is always on, and the number on LED2 is flashing).

RX sound type setting shift are “1—4”

| SET-5-1 | SET-5-2 | SET-5-3 | SET-5-4 |
|---|---|---|---|
| Fast | Intermitt ent sound Fast | Sirens sound | Intermitt ent sound Slow |

**(factory default is "1")**

After select "+" or "-" keys, press CH to confirm,then press SET key to save and exit settings menu.

11. **RX sound volume(SET-6)**

Tune to LED1 displays the number **"6"** through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the RX sound volume setting (at this time, LED1 displays the number **"6"** is always on, and the number on LED2 is flashing).

The RX sound volume setting shift **"1-2"** is used to set RX sound volume through "+" and "-". “1” is small volume,”2” is large volume.

**(factory default is "2")**

After select "+" or "-" keys, press CH to confirm, then press SET key to save and exit settings menu.

12. **Alarm counting(SET-7)**

Tune to LED1 displays the number **"7"** through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the alarm counting display (at this time, LED1 displays the number **"7"** is always on, and the number on LED2 is flashing).

The alarm counting display shows the current alarm times, at most can display 19 times.

**(it will be reset When the system restarted.)**

After select "+" or "-" keys, press CH to confirm,then press SET key to save and exit settings menu.

**13. Early warning(SET-8)**

Tune to LED1 displays the number **"8"** through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the early warning setting (at this time, LED1 displays the number **"8"** is always on, and the number on LED2 is flashing).

The early warning setting shift are **"1-2"** . “1” is open the early warning,”2” is close the early warning.

**(factory default is "1")**

After select "+" or "-" keys, press CH to confirm, then press SET key to save and exit settings menu.

**14. TX sound type(SET-9)**

Tune to LED1 displays the number **"9"** through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the TX sound type setting (at this time, LED1 displays the number **"9"** is always on, and the number on LED2 is flashing).

TX sound type setting shift are **“1—4”**

| SET-9-1 | SET-9-2 | SET-9-3 | SET-9-4 |
|---|---|---|---|
| Fast | Intermitt ent sound Fast | Sirens sound | Intermitt ent sound Slow |

**(factory default is "1")**

After select "+" or "-" keys, press CH to confirm,then press SET key to save and exit settings menu.

15. **TX sound volume(SET-10)**

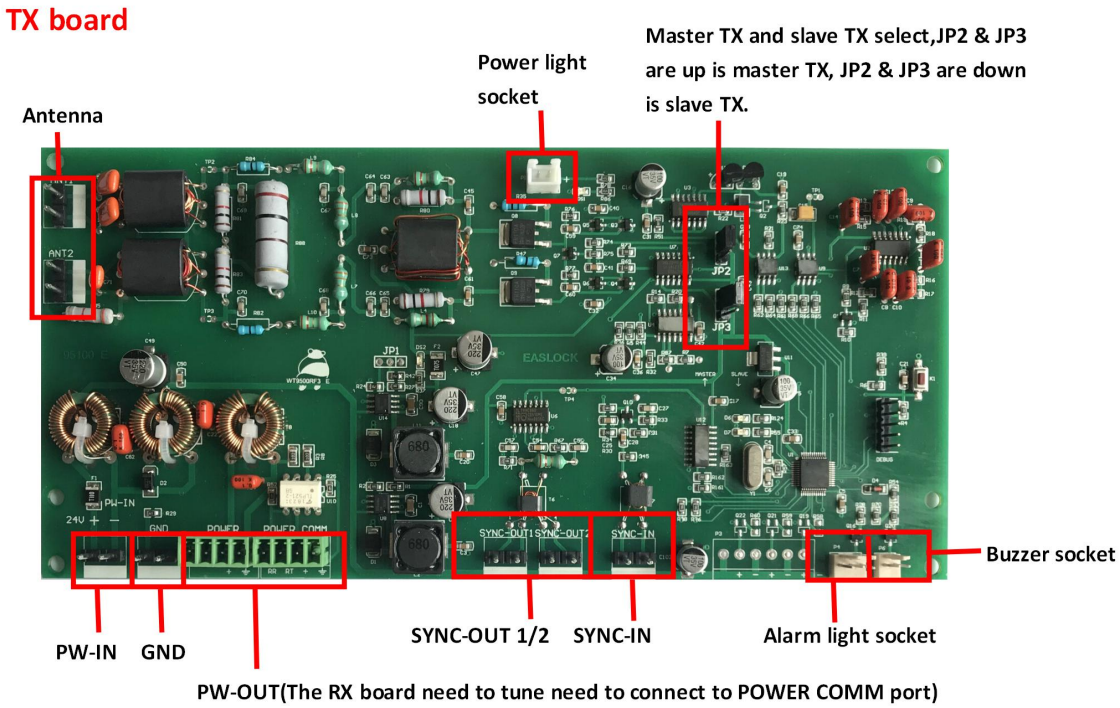
Tune to LED1 displays the number **"0."** through "+" and "-" on the main menu, then press the "CH" key to confirm, and enter into the TX sound volume setting (at this time, LED1 displays the number **"0."** is always on, and the number on LED2 is flashing).

The TX sound volume setting shift **"1-2"** is used to set TX sound volume through "+" and "-". “1” is small volume,”2” is large volume.

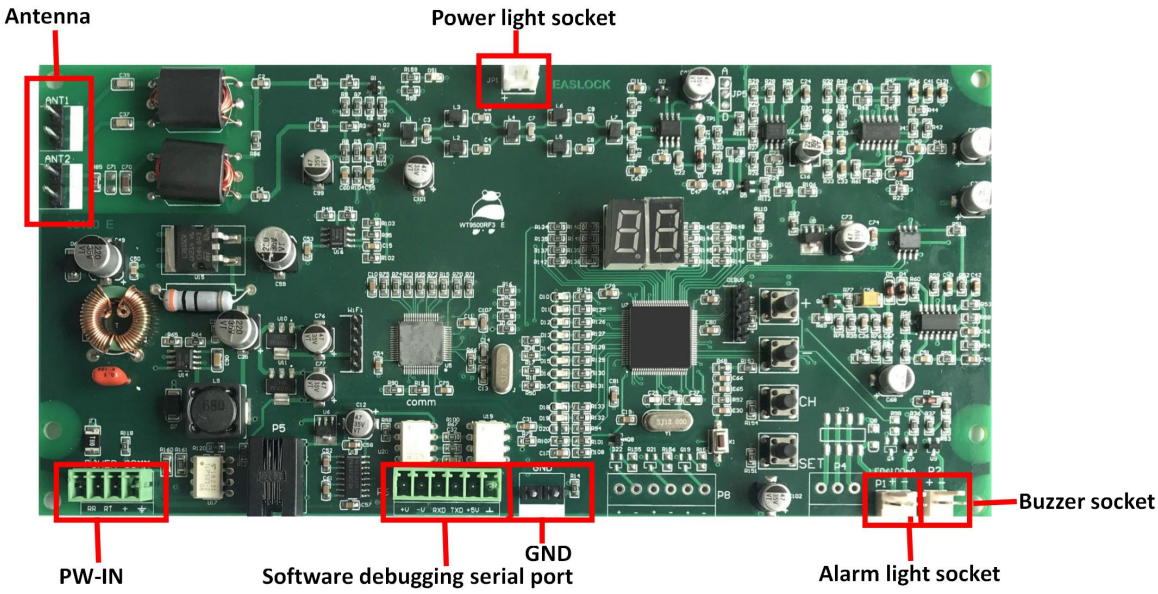
**(factory default is "2")**

After select "+" or "-" keys, press CH to confirm, then press SET key to save and exit settings menu.

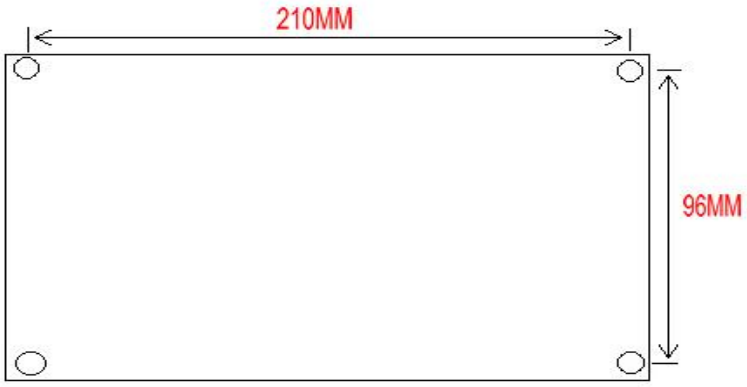
**16. Assembly Setting**



## RX board

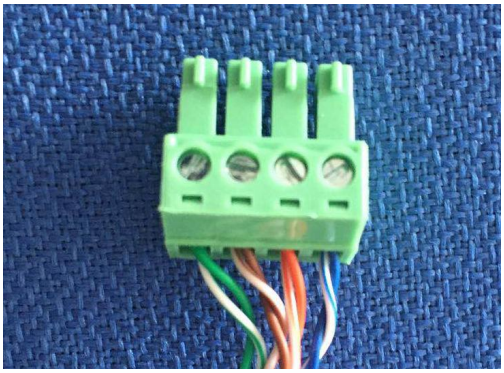



## 17. Hole bitmap



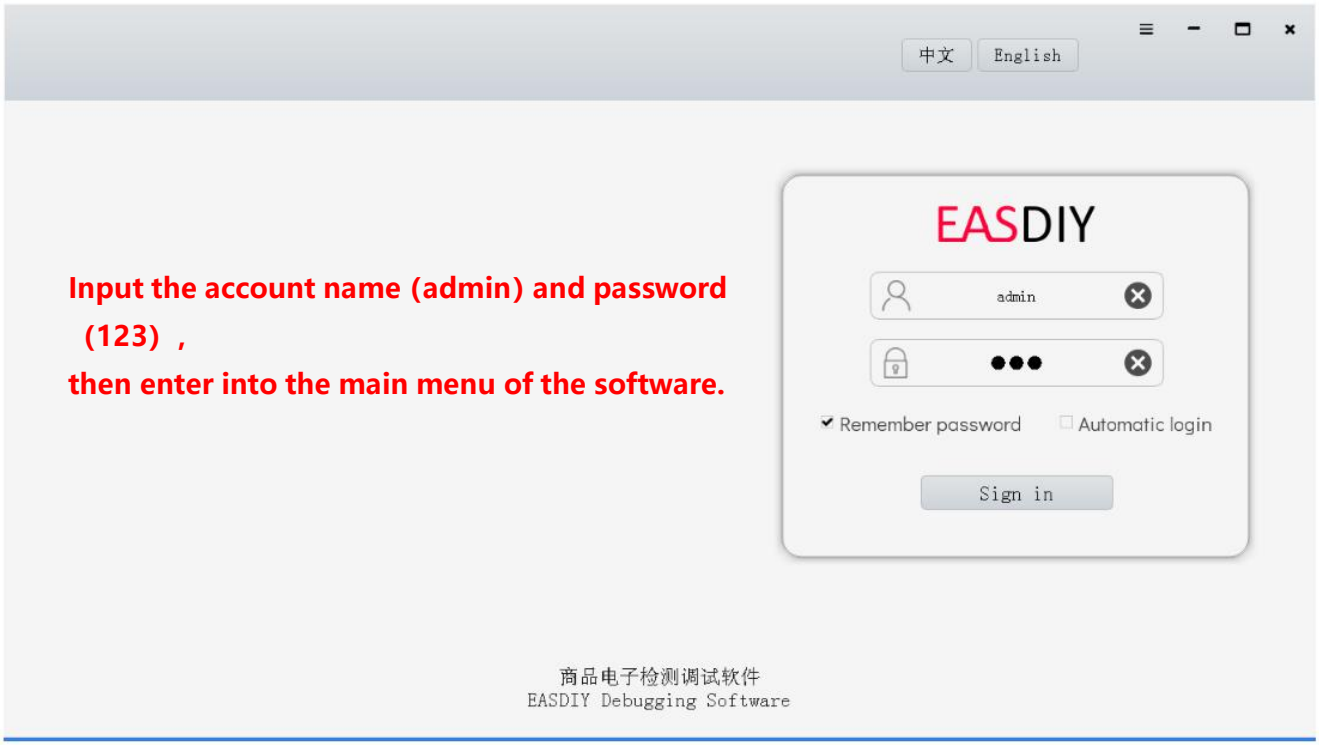

Both TX and RX board are the same hole site.

## 18. Connecting line connection diagram

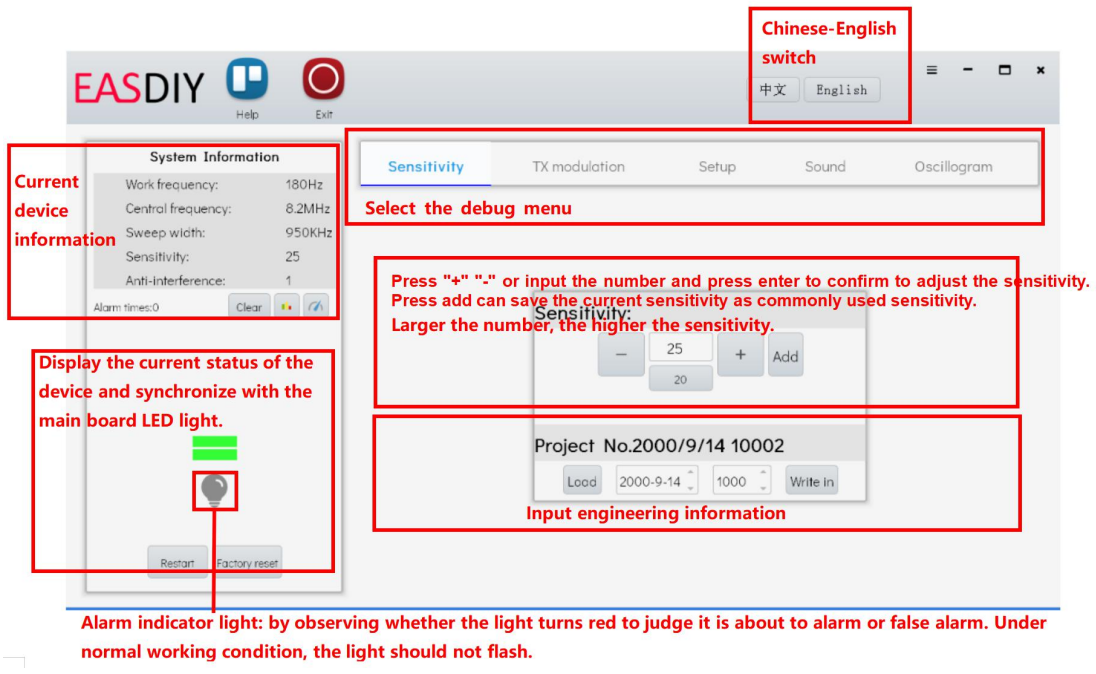


## 19. Tuning software instruction

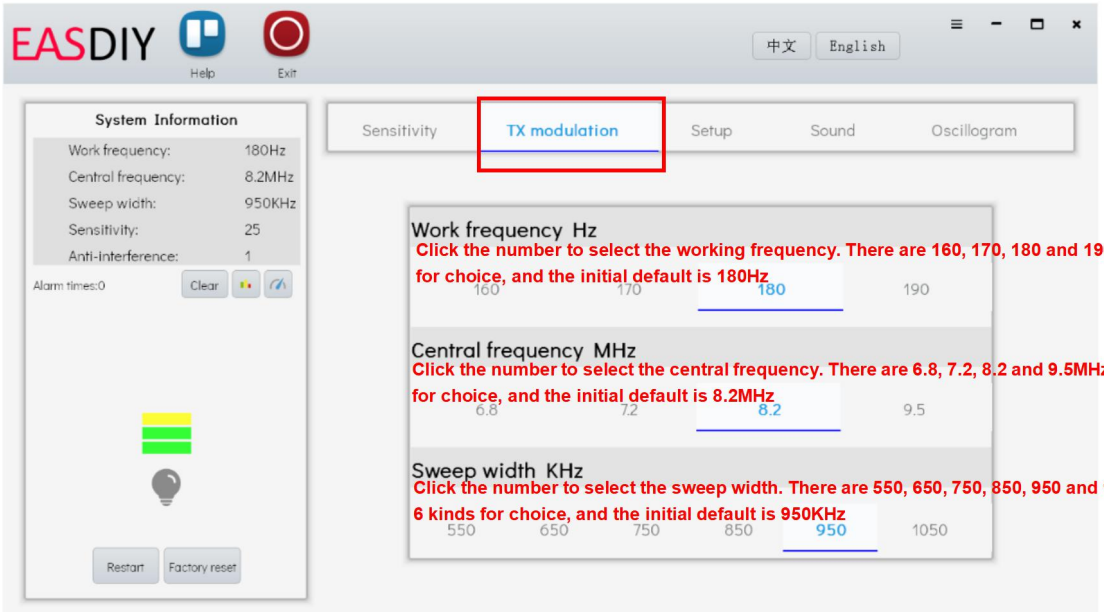
19.1 Open the software and login



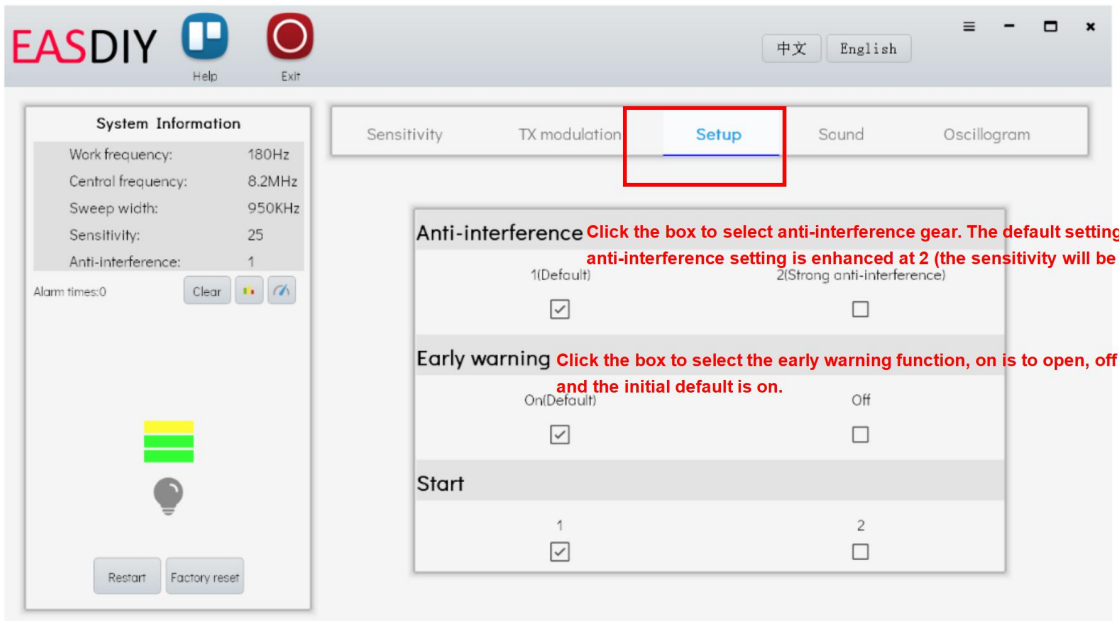

19.2 Sensitivity



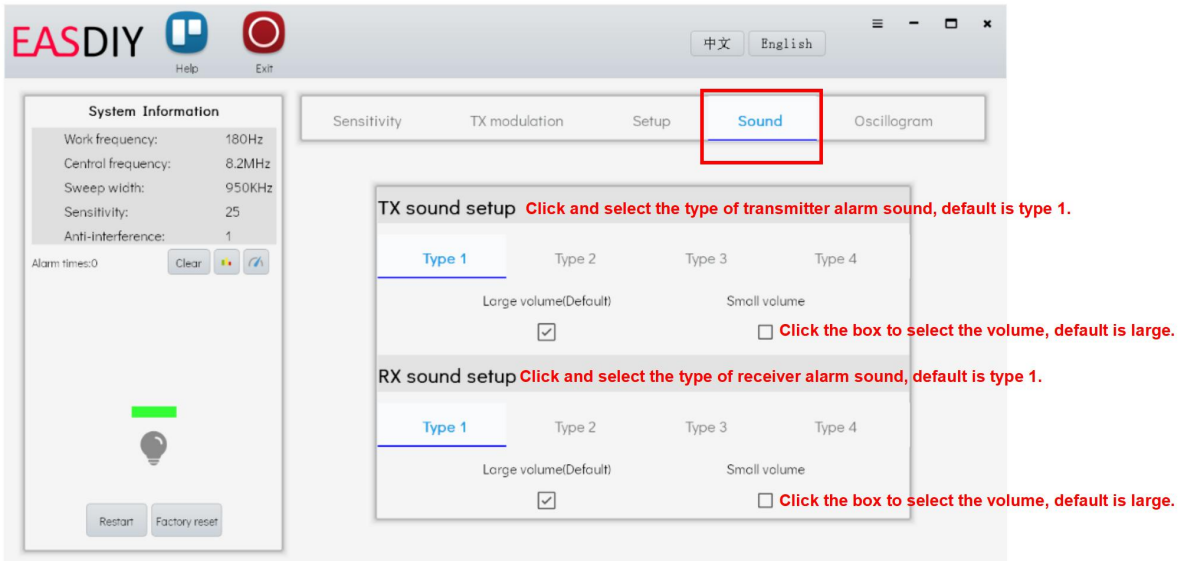
## 19.3 TX Modulation




## 19.4 Set up



## 19.5 Sound




## 19.6 Oscillogram

