S12 User Manual

V1.0

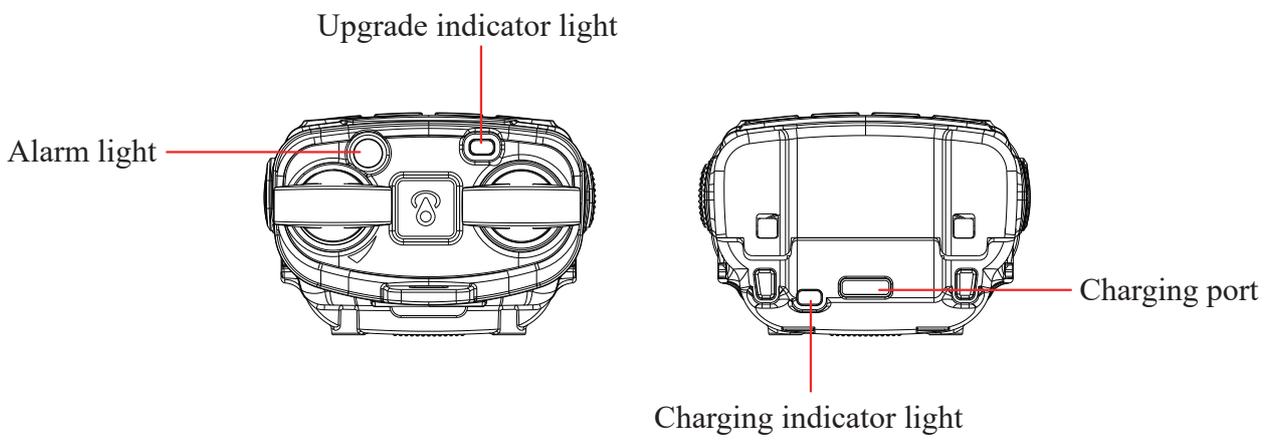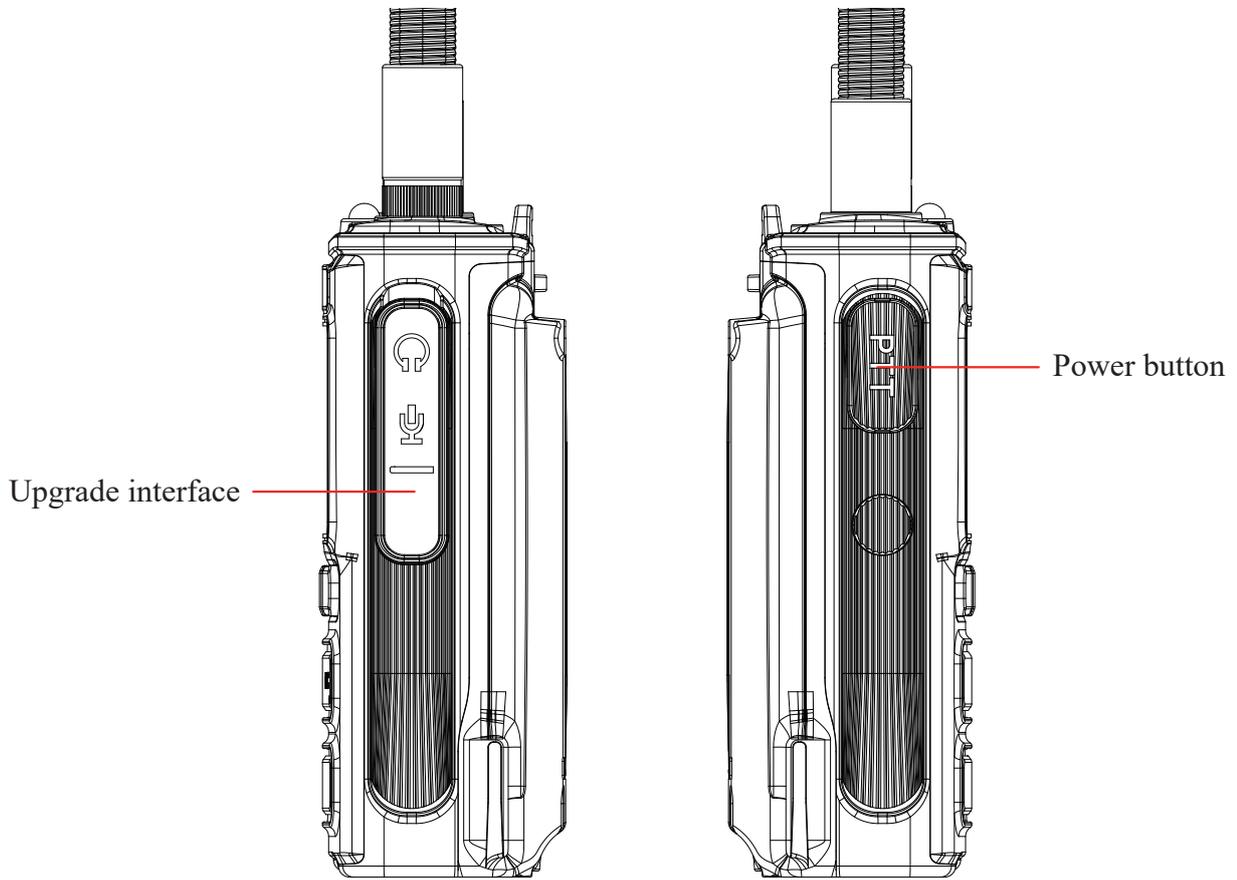# Catalogue

1.Product Introduction

S12 uses cutting-edge wireless band detection technology to provide an ultra-long detection range of 0~6GHz, allowing users to customize the frequency settings to effectively reduce background interference and ensure accurate identification of drone types. With high sensitivity and long range detection capability, the S12 is capable of monitoring multiple drones at the same time, with an effective detection range of 3~5km. its intuitive interface design, OTA upgrade support, and audible, visual and vibration alarms provide users with comprehensive and intuitive safety protection. The lightweight and portable body is equipped with a removable high-capacity battery, ensuring up to 15 hours of battery life.

2. Product Overview

Interface and button instructions

Antena

Battery buckle

Back clip installation

OK button

Back button

Select upwards / Volume plus (+)

Select downwards / Volume minus (-)

MIC

Upgrade interface

Power button

Upgrade indicator light

Alarm light

Charging port

Charging indicator light
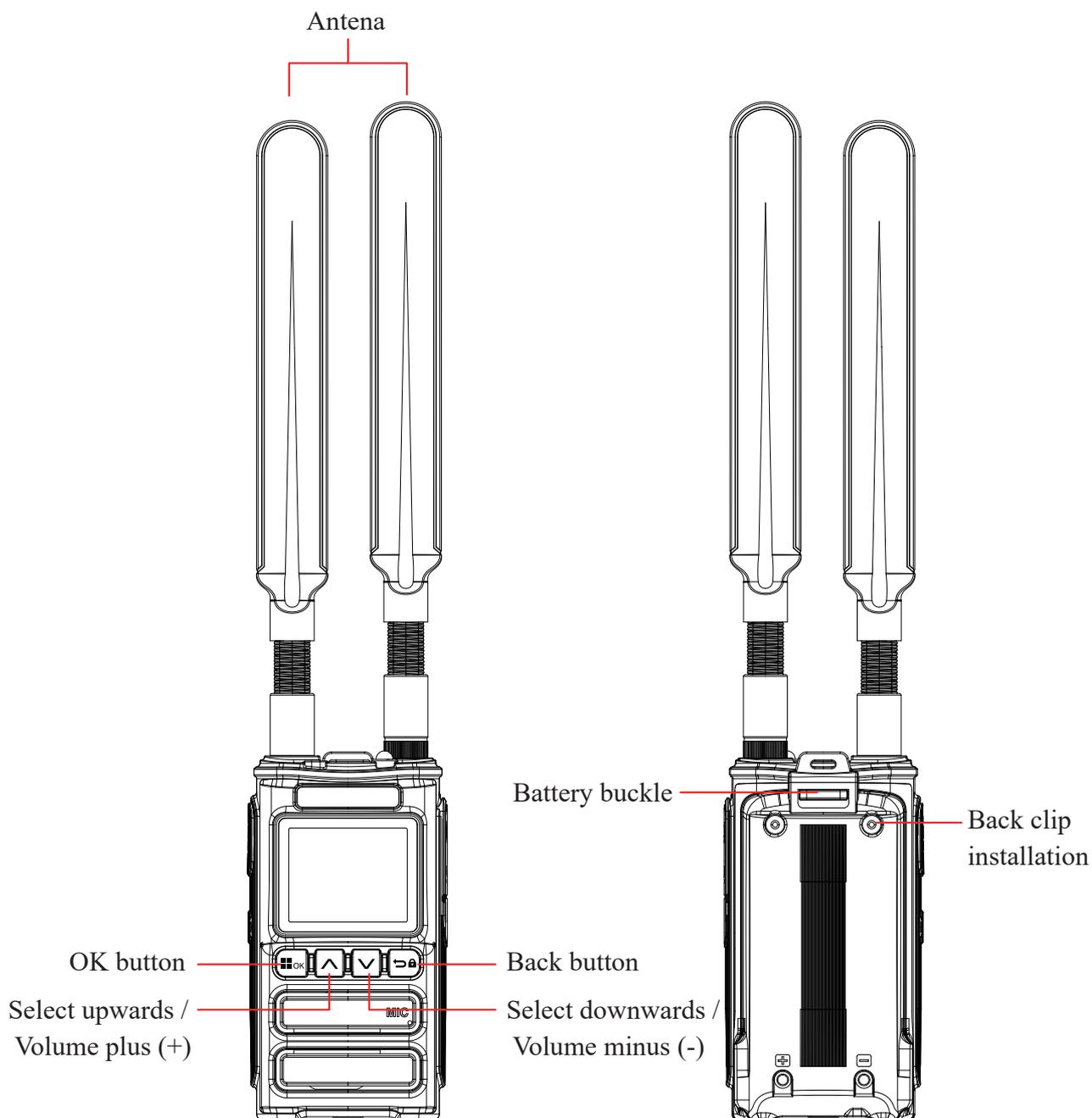
3. Product Parameters

S12Parameters	
Display screen	1.5 inches
Size	59*40*298mm
Battery	6000mA/H
Antenna	0-6GHz
Charging interface	TYPE-C
Power consumption	0.8W
Weight	180g
Battery life	approximately 15 hours
Working temperature	-10℃~55℃
Detection distance	3~5km

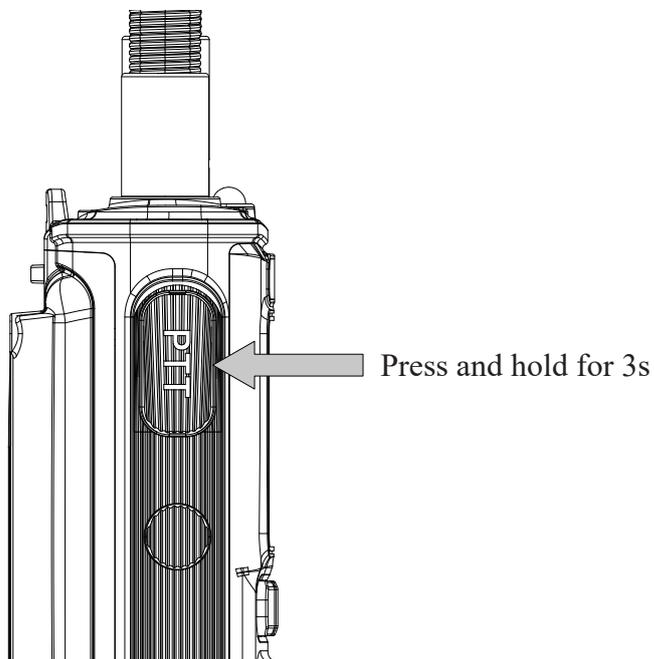# 4. Installation and Use

4.1 Battery installation
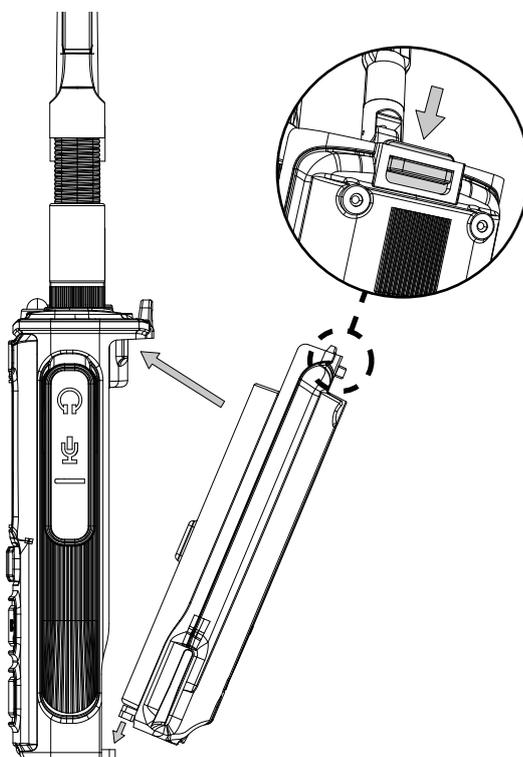
Push the battery tightly onto the body and into the battery compartment, and hear a "ka" sound. The battery clip will automatically tighten.
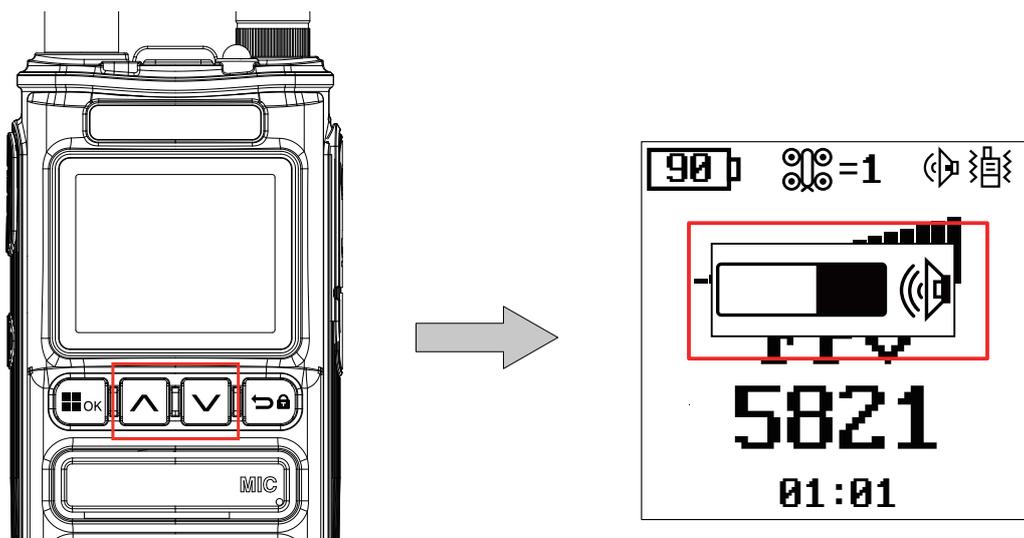
4.2 Use of S12

4.2.1 Power on and volume adjustment

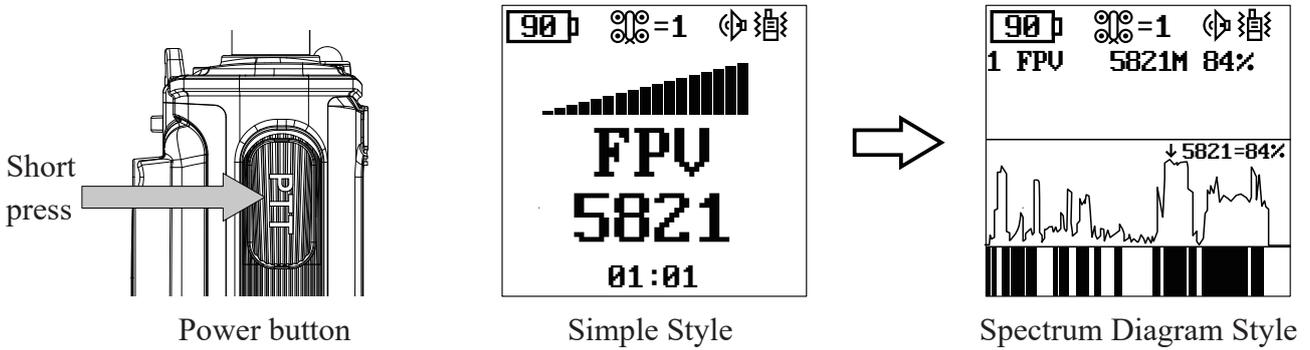Press and hold the power on button for 3 seconds to turn on the device.

Press and hold for 3s

Press the button in the red frame in the picture to increase or decrease the volume.

4.2.2 Switch list mode

Short press on the power button can switch the interface to the list style.

Short press   Power button   Simple Style   Spectrum Diagram Style

4.2.3 Function introduction

Press and hold the OK button to enter the menu interface.

Long press   OK button
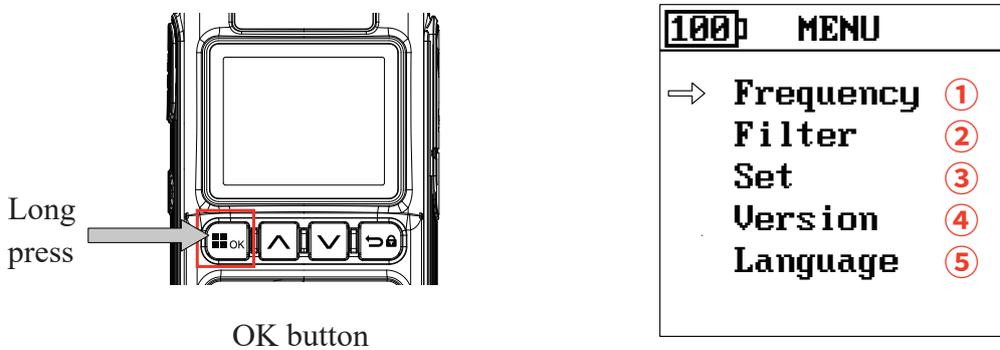
① Frequency band settings

This interface is the detection frequency band, and the specific detection range can be set according

state: ON or OFF

start: the starting frequency band

stop: the terminate frequency band.

6

② Filter frequency band

```
┌─────────────────────┐
│ [100▯]    Filt      │
├─────────────────────┤
│  ⇨   425 - 445m     │
│                     │
│                     │
│                     │
│                     │
└─────────────────────┘
```
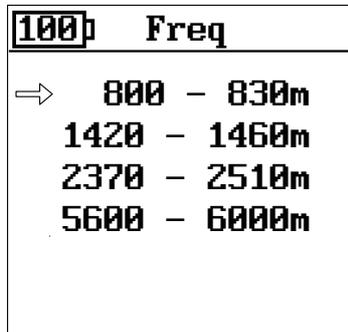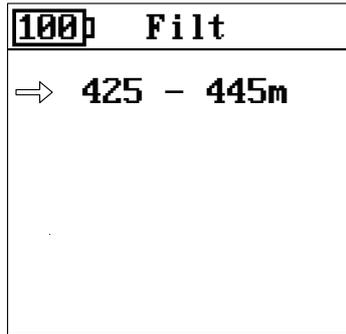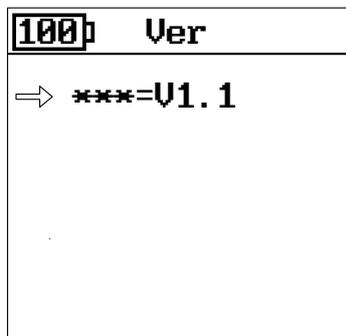
Filter out 425-445m (walkie talkie frequency band), no alarm will be triggered when the walkie talkie is detected, and it will be enabled by default.

③ Settings

```
┌─────────────────────┐
│ [100▯]    Set       │
├─────────────────────┤
│  ⇨ Apply Default    │
│    Vibrate ON       │
│                     │
│                     │
│                     │
└─────────────────────┘
```

Can be set to restore default and vibration switch

④ Version view

```
┌─────────────────────┐
│ [100▯]    Ver       │
├─────────────────────┤
│  ⇨ ***=V1.1         │
│                     │
│                     │
│                     │
│                     │
└─────────────────────┘
```

View current version

⑤ Language

```
┌─────────────────────┐
│ [100▯]    Langu     │
├─────────────────────┤
│  ⇨ English          │
│    Русский          │
│    中文             │
│                     │
│                     │
└─────────────────────┘
```

System language can be changed, supporting English, Russian, and Chinese

4.3 Display Explaination
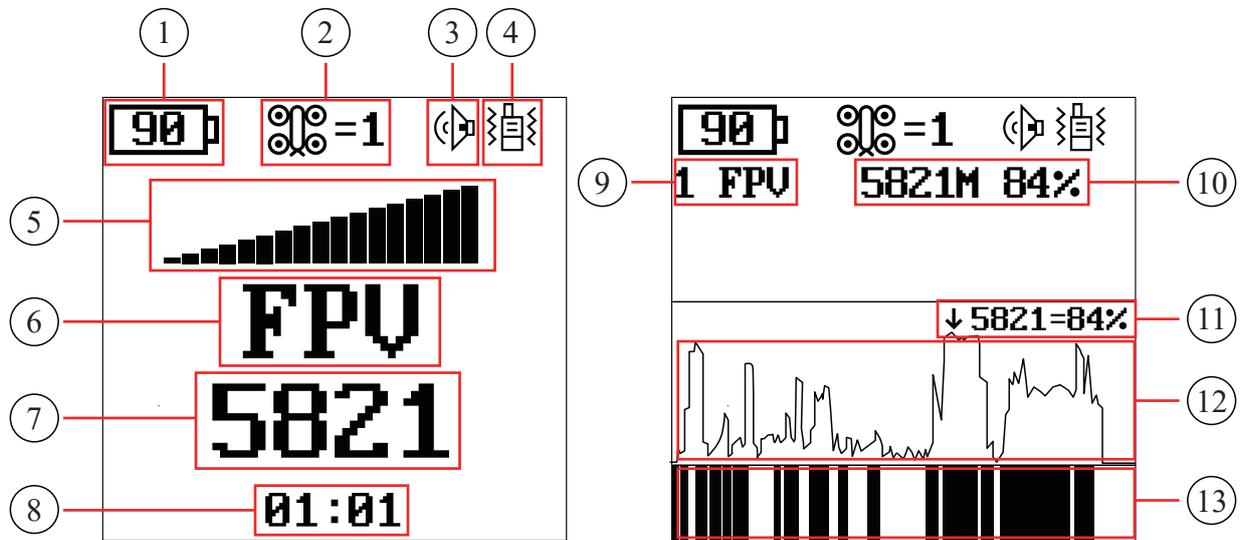

|	
①	Battery
②	Number of detected drones/currently displayed drone serial number
③	Alarm volume
④	Alarm vibration
⑤	The current displayed drone signal strength
⑥	Types of unmanned aerial vehicles detected
⑦	Detected drone frequency band
⑧	Alarm time
⑨	DJI ; FPV ,AUTEL and UAV
⑩	Detected drone frequency band and signal strength
⑪	The currently displayed drone frequency band and signal strength
⑫	Frequency band waveform diagram
⑬	Pseudo-color Map of Frequency Band

5.Firmware update

1. Insert one end of the TYPE-C to USB cable into the upgrade port of the alarm, and the other end into the USB port of the computer, then press and hold the return button and power button, the alarm will enter the upgrade mode, and at this time the display will show the following:

Upgrade interface　　　press and hold the return button and power button
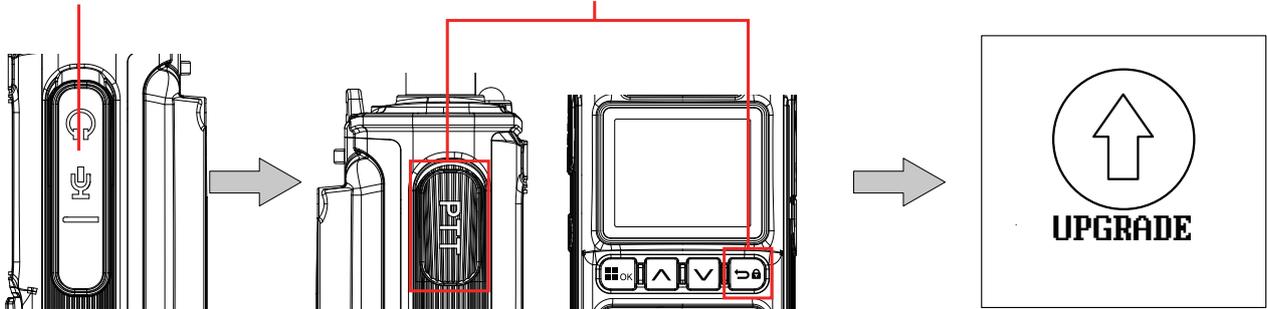
2.Open the " DeviceHelper upgrade assistant" (the tool can be requested from the manufacturer's technician)
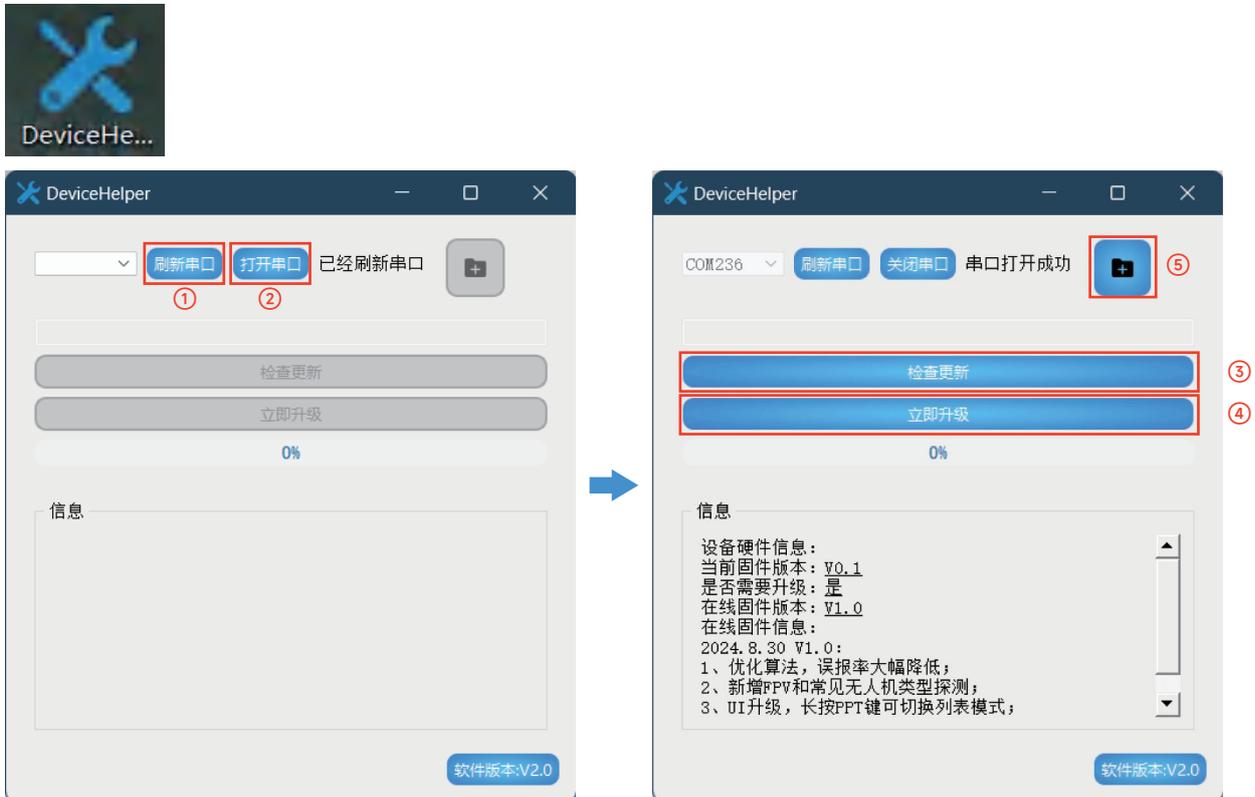
Click ① to refresh the serial port, the left side will show the corresponding serial port name of the alarm, if not, change the data cable or computer;

Click ② to open the serial port, after prompting the serial port to open successfully.

Click ③ to check the update, the corresponding device firmware information will appear in the information column;

Click ④ Upgrade Now to upgrade online;

You can also click ⑤ to choose local firmware upgrade (you need to ask the manufacturer for the local firmware);

After successful upgrade, the drone alarm will turn on by itself, and you can check the version number according to the 4.2.4 function introduction.

Warm reminder: Please read the operation manual carefully before use!