



# **SWORD-24s**

Extendable Handheld Non-linear Junction Detector  
Operational Manual



COUNTERMEASURES



SURVEILLANCE



FORENSICS

SWORD-24s  
Non-linear Junction Detector



## SWORD-24s

Extendable Handheld  
Non-linear Junction  
Detector

- 1 Harmonic test samples (2nd, 3rd)
- 2 Adaptor
- 3 Cable
- 4 Headphone
- 5 Non-linear Junction Detector
- 6 Hand-held telescopic pole

PART 01



## Schematic Diagram of Product Structure

- 1 Antenna:** Transmit and receive test signals.
- 2 Headend:** Display device status, such as battery level, transmit power value, second harmonic and third harmonic signal strength;
- 3 Central control keys:** Including power button, transmitting power adjustment button, receiving sensitivity adjustment button, sound adjustment and vibration adjustment button.
- 4 Headphone jack:** Supporting 3.5mm headphone.
- 5 Speaker:** Support sound warning.
- 6 Type-c connector:** AC-DC adapter for charging.
- 7 Lanyard:** Suspendable and non-slip.



## Use Scenarios

**SWORD-24s** Can be widely used in government, public security, prison, judicial, military, education examination and personal privacy protection, etc.

**BUSINESS SECURITY** Enterprise and commercial secret protection: Detect unauthorized electronic devices hidden in important conference rooms or confidential offices of the company, such as eavesdroppers, mobile phones and devices containing SIM cards, etc..

**PUBLIC SECURITY AND SWAT EXPLOSIVE DISPOSAL** Detect electronic detonation devices and remote controls in dangerous areas.

**PERSONAL PRIVACY PROTECTION** Detect equipment for secretly photographing and recording hidden in houses, hotels and other places, such as recording pens, cameras, etc..

## Operation guide

### 1. Central Control Key Operation Area



— **Power on button :**

On/off button, press and hold for 2 seconds to switch on, press and hold for 2 seconds to switch off, with indicator.

— **Tx button :**

Transmit power adjustment button, divided into high, medium and low, with indicator light.

— **Rx button :**

Receive sensitivity adjustment button, divided into high, medium and low, with indicator light.

— **Sound button :**

Button for adjusting the alarm sound level, divided into high, medium and low, with indicator light.

— **Vibrate button :**

Turn on/off the vibration function



Transmit Power Strength Indicator



Indicates the received second harmonic signal strength

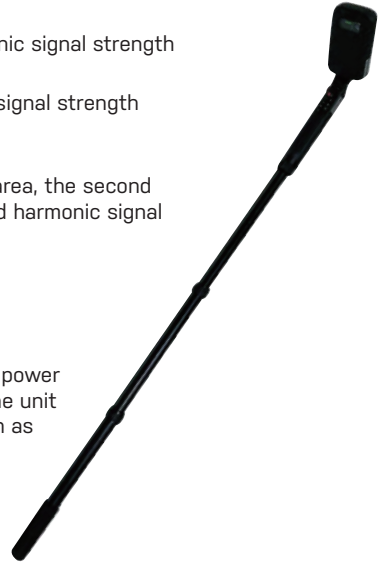


Indicate the received third harmonic signal strength

When a suspicious electronic device is detected in the target area, the second harmonic signal strength is significantly stronger than the third harmonic signal strength and the electronics icon is displayed on the screen.

## 2. Charging instructions :

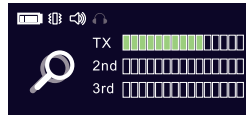
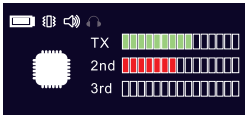
The device supports charging using the C-type connector. The power button indicator will always be orange when charging, and if the unit is switched on, the battery icon will be displayed on the screen as charging.



### 3. Interface

The screen interface mainly displays the battery level, the alarm mode, the transmit power level and the strength of the received second and third harmonic signals.

The detection process and results are as follows:



Battery status display



Audio alarm mode indicator



Indicates that an electronic product has been detected



Vibration alarm mode



Headphone mode indicator



Indicates that the device is in the process of detection



## General Specifications

Product working frequency band:	2.400GHz
Frequency range:	2.404GHz - 2.472GHz
Receiving 2nd-3rd harmonic range:	4.808GHz-4.944GHz 7.212GHz-7.416GHz
Pulse mode transmit power (max):	0-1W
Receive sensitivity:	≤-125dBm
Receive dynamic adjustable range:	30dBm
Battery working time:	4.5H
Battery type:	Lithium battery
Interactive interface:	LED displays received harmonic signal intensity Audio prompts are supported and headphones can be connected Supporting vibration tips
Detection distance:	>6MC-class product complying with GA1236-2015 standard
Detect penetrability:	It can penetrate 370mm brick wall and meet the grade C product specified in GA1236-2015 standard
Product dimension:	370mm x 96mm x 38.5mm)±5mm
Transit case dimension:	(355mm x 295mm x 165mm)±10mm
Product weight:	≤0.52kg±0.05kg
Working temperature:	-20°C-55 °C
Working humidity :	Less than 93%, no condensate

## FAQ

**Q: What can I do if it does not start when I press the power button?**

**A:** Normal boost requires long press on the power button for more than 3s; Long press on the power button for 3s and still can't turn on. It may be that the battery has run out of power. You need to connect the power adapter for charging.

**Q: How to detect the target electronic products at a long distance?**

**A:** 1. The machine can be set to silent mode, you need to exit silent mode to generate audible alarm;  
2. Turn up the sound;  
3. Check that the horn is not blocked.

**Q: When will the machine automatically shut down?**

**A:** 1. It will automatically switch off after 5 seconds when the head is folded;  
2. It machine will automatically switch off if it detects no movement for 5 minutes.;  
3. It machine will automatically switch off when the battery power is below 10%.

**Q: The box may not be opened or deformed after long-term transportation or storage. How to deal with it?**

**A:** This situation is caused by the change in air pressure difference between the inside and outside of the box. Rotate the pressure reducing valve so that the air pressure inside and outside is not even, open the box and tighten the pressure reducing valve to avoid water leakage.