

Introduction to Wireless Tap Detector

— Plastic shell



Wireless tapping is to send the audio or video signal through electromagnetic waves. Wireless tap detector is a machine designed to detect and fix the position of the hidden wireless tapping device.

As the technology of wireless tapping grows, the performance of such devices are also being promoted. They become increasingly difficult to be detected with their small size, low emitting power, complicated modulation, wide range, high speed, remote controllability and conceal ability.

Wireless tap detector is designed to detect and concisely determine the location of the working tapping device in the targeted venue. It is one of most advanced portable wireless signal detectors.

Specification:

Detecting frequency range: 1MHz-8000MHz

Main detecting frequency range: 25MHz-6000MHz

Detecting sensitivity: $\leq 0.05\text{mw}$ (in main detecting frequency range)

Working range: $>70\text{Db}$

Indicator: 9 grades of LED light indicators / tonal
modification sound indicator

Battery: 9V packed cell

Size: 120×62×22mm

Features:

Professional, sensitive, with modularly threshold and
wide detecting frequency range;

Sound and light alarm indicator makes it easy to use;

Applicable to military, government, business and other venues;

Good electromagnetic compatibility;

Small and portable.



How does it work:

1. The machine should be held in hand when working. The SMA socket on the top is for antenna. The two oval holes on the upper right of the face board are for loudspeaker. In the middle of the left side are 10 grades of LED indicators, the first of which indicates the power and the others indicate the strength of detected signals. The last one shows the strongest signal. The knob at the bottom is for power and detecting threshold modulation.

Screw the antenna to the socket. Loosen the screws on the back cover. Pull out the inner battery pool and press the 9V packed cell into it with the poles in the right direction (make sure the power knob is off before the battery is installed). And then fix the back cover with tightened screws.

2. Turn the bottom knob to the right until it make a sound of “ka”. The power is turned on now and all the LED indicators are also lighted. Continue to turn the knob to the right and the LED indicators will be off one by one from right to left. Meanwhile, the tone of the loudspeaker goes from high to low. Generally the machine becomes most sensitive when the third LED indicator from the left is just turned off. When the machine gets closer to the working tap device, the LED indicators will be turned on one by one and the tone of the loudspeaker will become higher and higher. There may be still a small distance from the tapping device and reset the knob to make the machine in the most sensitive state as said before. When the LED indicators and the tone of the loudspeaker have great change, the location of the tapping device can be determined.



3. It should be applied to a small space (within 20 m²) to detect close electromagnetic signals with evident field strength change. The remote signals might be strong, but their field intensity generally remains the same and can't be detected by the machine. The user should be familiar with the electromagnetic circumstance of the targeted venue.

4. Set the detecting threshold before enter the targeted venue and then move around in the targeted venue. Watch the LED indicators and switch the threshold accordingly. Such office equipment as telephone, table lamp, fax should be detected when they are on. If the tapping device is fixed on these equipment, it's detectable distance is just within 20cm and only several LED indicators have reflections even when the machine is in the most sensitive state. If the LED indicators show evident change around any substance, it should be further surveyed. The reflected electro-wave out of metal substance in the building forms standing wave, which will make the LED indicators react violently. If there is no substance, there will be no worries. If there is, it is necessary to move around to do the detection. The more familiar the user is to the targeted place, the shorter it takes to do the detection. If the user stands still but the indicators show sudden and violent change, it means that there are signals emitted nearby. The signals from cell phone, microwave oven, electromagnetic cooker or other electrical appliance should be excluded. However, the cell phone is possible to be tapped.

