

DT-810

Non-linear Junction Detector

A close-up view of the DT-810 Non-linear Junction Detector. The device is a rugged, handheld unit with a small, rectangular LCD screen. The screen displays the following information: "2022-01-22 13:45" at the top, "TX Freq 2450MHz", "TX Power 45%", and "Alarm Vol" at the bottom. Below the screen, there is a control panel with several buttons, including a power button, a directional pad, and a central button. The device is connected to a long, black, flexible probe that extends downwards.

2022-01-22 13:45
TX Freq 2450MHz
TX Power 45%
Alarm Vol

DT-810 is a new type of non-linear junction detector, which can detect any electronic equipment hidden in walls, floors, ceilings, lamps, books, furniture or containers. No matter whether these electronic devices are transmitting signals or starting up, they can alarm through display, vibration and sound prompt, so that the detector can focus on the hidden target.

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Technical Principle

The transmitting end of the non-linear junction detector sends the fundamental wave of the 5-band to the target area or object, while the receiving end captures the second and third harmonics generated from the target object, and uses artificial intelligence algorithms to analyze the harmonic laws to detect and identify whether there are suspicious electronic products or metal corrosion nodes in the detecting area.

Application Scenarios

It can be widely used in government, public security, prison, justice, commercial security and personal privacy protection, etc.:

© 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..

Product Highlights

© IPR: fully independent intellectual property rights not limited by technical protection, can quickly customize features and optimize algorithms, technical security under greatly protected.

© High accuracy: the built-in second and third harmonic detection function can quickly and effectively identify the equipment containing semiconductor devices.

© High sensitivity: it can quickly identify semiconductor products hidden in walls or furniture.

© Low false positive rate: the built-in nondestructive detection algorithm greatly improves the detection ability, and the false positive rate is very low.

© Harmless to people: the characteristics of the equipment meet HJ / T10.2 radiation environmental protection guidelines and management requirements, which are absolutely safe and harmless to human body.

© Flexible and simple operation: humanized operation interface, simple and intuitive; few keys for manual operation.

Product Specification

Parameter	Technical Index
Product working frequency band	2.400GHz
working voltage	7.4V
frequency range	2.404 GHz - 2.472 GHz
Receiving 2nd~3rd harmonic range	4.808 GHz-4.944 GHz, 7.212 GHz-7.416 GHz
Pulse mode transmit power (maximum)	0~4W (ERIP)
Receiving sensitivity	Less than -140dBm
Battery working time	4H
Battery type	Replaceable lithium battery
Detection distance	>6m, C-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
Interactive interface	LCD displays received harmonic signal intensity
	Audio prompts are supported and headphones can be connected.
	Supporting vibration tips
Product dimension	(750mm x 114mm x 108mm)±5mm
Transit case dimension	(700mm x 330mm x 180mm)±10mm
Product weight	≤1.52kg±0.05kg
working temperature	-30°C~55°C
Working humidity	No more than 93%, no condensate