

DT-820

Portable Non-linear Junction Detector



DT-820 is a miniaturized non-linear junction detector. It can detect any electronic devices hidden in walls, floors, ceilings, lamps, furniture or containers, whether they are transmitting signals or switching on or off, and alarm them by display, sound and vibration. So that the detector can find the target equipment for protecting organizations and individuals private information.

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Technical Principle

The transmitting end of the non-linear junction detector sends the fundamental wave of the S-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 devices containing semiconductor.

© High sensitivity: can quickly spotting the semiconductor 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: all English operation interface, simple and intuitive; Few keys for manual operation.

© Energy saving: folded and immovable for a long time will automatically shut down, saving energy.

Product Specification

Parameter	Technical Index
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 (maximum)	0~1W
Receiving sensitivity	≤-125dBm
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	>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
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

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