

DT-824S is an advanced handheld nonlinear junction detector(NLJD) with compact design. It adopts self-developed nonlinear harmonic technology, combined with non-destructive detection and a precise phase algorithm.



This NLJD also supports time-domain harmonic peak mode and harmonic audio mode functionality, giving better analysis of the target items. It can detect any electronic devices concealed in packages, walls, floors, ceilings, lamps, furniture, or containers, regardless of whether the devices are powered on or off, emitting signals or not.

DT-824S is ideal for a wide range of applications, including electronic explosive detection, confidentiality inspections, and identifying prohibited items in correctional facilities.



Technique 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. It 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.

Product Highlights

Portable and Easy to Operate

Light and compact, which is easy to carry and take away. The function buttons are clear, with user-friendly operaton interface.

High Sensitivity

Built-in high-gain antenna, with a receiving sensitivity as low as -140dBm, can quickly identify devices containing semiconductors hidden in walls or furniture.

Professional Graph Assisted Analysis

Supporting time-domain harmonic peak mode and harmonic audio mode to assist in determining junction type and working status.

Strong Detection Penetrability

Capable of detecting through a 550mm-thick brick wall, meeting GA 1236-2015 industry standards as a C-level product (highest level).

Long Detection Distance

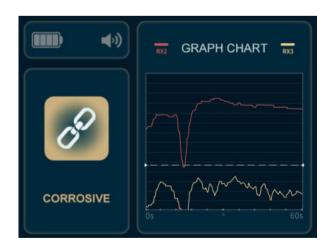
A maximum detection distance longer than 10 meters, meeting GA 1236-2015 industry standards as a C-level product (highest level).



Featured Functions







Time-domain Harmonic Peak Mode

Product Specifications

Parameter	Technique Index
Display	2.4 Inch LCD Screen
Transmit Frequency	2.4GHz~2.5GHz
Receiver Frequency	2nd: 4.8GHz~5.0GHz 3rd: 7.2GHz~7.5GHz
Transmit Power	0~2W (EIRP), in maximum pulse mode
Receiver Sensitivity	≤-140dBm
Continuous Working Hours	>4 Hours
Battery Type	Non-Replaceable lithium battery, 3.7v 4500 mAh
Interactive Interface	LCD Displays Receiving Harmonic Signal Intensity
	LCD Displays Detection Result Icon
	Time-domain Harmonic Peak Graph Display
	Harmonic Audio Graph Display
	Audio prompts through internal loudspeaker or headphone
Detection Distance	≥10m, compliant with the C-level product standard specified in GA1236-2015
Penetrability	Can penetrate 550mm thick brick walls, compliant with the C-level product standard specified in GA1236-2015
Audio Volume	≥60dB
Main Unit Weight	≤ 0.5kg
Gross Weight	Around 2.69KGS with Protection Case
Size	227mm * 112mm * 70mm
Protection Case Dimension	304mm *228mm * 114mm
Carton Dimension	400mm*350mm*200mm
Working Temperature	-30℃~+55℃
Working Humidity	Less than 93%, no condensate
Protection level	IP65

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