



NON LINEAR JUNCTION DETECTOR

Non -Linear Junction Detector is a specific hand-held application of harmonic radar technology. It can detect all kinds of electronic products and metal node items in the power on or off state, such as mobile phones, laptops, PDAs and USB devices. It has the characteristics of high sensitivity, low false alarm rate, strong anti-jamming, stable operation, small size, light weight, human-computer interaction interface optimization, simple operation and so on.

Non-linear junction detector can be widely used in government, public security, prison, army, education, electronic factory and other related departments of venues, person - al security and anti-terrorism inspection security check.

ADVANTAGES

- Lightweight and battery-powered; suitable for field operations and security check.
- Can detect electronics hidden inside walls, floors, furniture, packaging, or even behind non-metallic barriers.
- Helps differentiate between electronic components and natural nonlinearities (such as rust, corroded metals, or metal oxides), reducing false alarms.
- Used in government, military, corporate security, and law enforcement for TSCM (Technical Surveillance Counter-Measures), border security, and forensic investigations.

FUNCTIONS

- Hand-held, nice, light and easy to operate.
- The equipment adopts dual-transmitting and dual-receiving mode, with high speed, high efficiency, high anti-interference, high sensitivity and low false alarm rate.
- The harmonic fuzzy recognition algorithm and the self learning algorithm minimize the leakage alarm and false alarm.
- The product can detect all kinds of electronic equipment in working state and non working state.
- Pulse power mode to minimize energy loss.
- Humanized settings, sound and photoelectric alarm.
- Ergonomics design, lightweight integrated high strength engineering shell.
- LCD touch interface, easy to operate.
- Unique with WiFi and data interface transmission function, unique data packet and screenshot storage and transmission function, according to user requirements, customized data storage and transmission mode.

APPLICATION

- Secure installation (Military & Defence)
- Law enforcement & Intelligent



- Security & Counter-Surveillance



- Customs & Border Control



Technical Specification

Operating Mode	Dual-transmit, dual-receive
Transmitting frequencies	800.36MHz and 898.8 MHz
Receiving frequencies	1699.16MHz and 2499.52 MHz
Max Transmit Power	1W
RF Mode	Pulse
Weight (kg, incl. battery)	≤ 1.42kg
Battery Life	≥ 5h
Battery Quantity	Rechargeable battery (2 pcs)
Detection Range	≥ 15.7m
Penetration Distance	≤ 550mm
Operating Temperature	-30°C~+55°C



Email: info@quantechworld.com
Address: Level 22, Boulevard Plaza,
Tower 2, Office 12, Downtown Dubai, UAE