

COUNTER SURVEILLANCE

Professional Non-Linear Junction Detector for TSCM and Counter-Surveillance

Professional-grade Non-Linear Junction Detector (NLJD) for locating semiconductor-based devices — active or inactive — hidden inside walls, furniture, and personal belongings. Essential for technical surveillance countermeasures (TSCM) sweeps of VIP offices and secure facilities.



[Non-Linear Junction Detector](#)

[New](#)

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SOLUTION SNAPSHOT

<p>TRANSMIT FREQUENCY</p> <p>2.4 GHz (ISM band)</p>	<p>DETECTION HARMONICS</p> <p>2nd & 3rd harmonic simultaneous</p>	<p>EFFECTIVE RANGE</p> <p>Up to 1 m through solid walls</p>
<p>ANTENNA</p> <p>Directional flat panel, 30° beam</p>	<p>DISPLAY</p> <p>OLED dual-channel bar graph</p>	

Built for Real Operations

01

Transmits a microwave signal and detects the harmonic response unique to semiconductor junctions, revealing hidden electronics regardless of whether they are powered on. The directional antenna and real-time 2nd/3rd harmonic display allow trained operators to discriminate between genuine threats and benign electronic components, minimising false positives during room sweeps.

APPLICATIONS

Where This Product Fits

03

VIP & Executive Office Sweeps

Detects covert listening devices, cameras, and GPS trackers embedded in furniture, walls, and decorative items before sensitive meetings.

Border & Customs Contraband Detection

Locates smuggled electronics concealed inside non-electronic goods and personal effects without physical disassembly.

Military & Intelligence Facility Security

Performs routine TSCM sweeps of classified spaces to ensure no passive or dormant surveillance devices have been planted.

SPECIFICATION

Technical Details

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Transmit Frequency	2.4 GHz (ISM band)
Detection Harmonics	2nd & 3rd harmonic simultaneous
Effective Range	Up to 1 m through solid walls
Antenna	Directional flat panel, 30° beam
Display	OLED dual-channel bar graph
Transmit Power	2 W adjustable
Battery Life	8 hours continuous
Weight	1.4 kg (head + controller)
Operating Temp	0 °C to +50 °C
Warranty	2 years hardware

"We located a dormant listening device inside a conference room table that had been missed by three previous RF sweeps. The NLJD found it because the bug was switched off."

Lead TSCM Investigator

Government Counter-Intelligence Unit

RESOURCES

Media & Questions

Q. Can it find devices that are switched off?

A. Yes. This is the primary advantage of NLJD technology. The semiconductor junction responds to the transmitted microwave signal regardless of whether the target device has a power source.

Q. Will household electronics cause false alarms?

A. The simultaneous 2nd/3rd harmonic display helps operators distinguish manufactured semiconductor junctions (real threats) from corrosion-induced junctions (false positives). Training and experience are key.

Q. Is operator training available?

A. Yes. We offer a certified 3-day TSCM operator course covering theory, sweep methodology, and practical exercises in a simulated environment.

Ready to deploy Non-Linear Junction Detector?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

Hotline: 01712345678 | Website: www.nirikhon.com