



TSE 7501
NLJD Non-Linear Junction Detector

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TSE 7501 is small, lightweight and robust for the harshest of environments. Non-linear Junction Detectors are an essential tool for electronic countermeasure searches, explosive ordnance disposal and a variety of security applications.

The TSE 7501 is a state-of-the-art Non-Linear Junction Detector which valuates hidden electronic devices, regardless of whether the electronic device is passive or active.

Technical Advantages

- Channel selectable; four operating frequencies to ensure potential interfering signals are avoided, (FCC 915MHz, EU 869 MHz and classic 888MHz; available in one unit for universal operation). The four spot frequencies are customer selectable.
- High Power Transmission to rapidly search a large area with greater penetration; adjustable poer control 2mW to 1Watt (2Watt optional).
- Constant power transmission, as opposed to pulsed operation. (Conitnous transmission reduces risk of missing a threat from inadvertent rapid movement of antenna head.)



Provides evaluation of both 2nd and 3rd harmonic returns. Strong 2nd harmonic (red) indicates true electronic components, while strong 3rd harmonic (green) indicates false corrosive junctions. Received signal strength indication of RX1 (true target) & RX2 (false target).

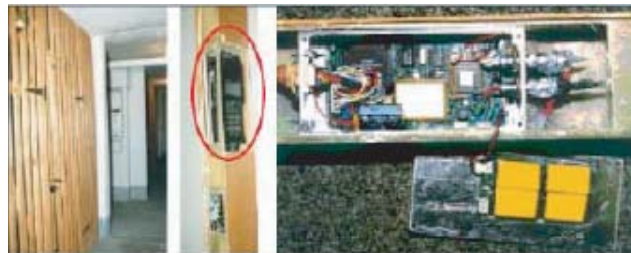


Revolutionary design; all in one single body unit, or as with previous TSE models the antenna is separated from the control module.

XD Advancements

- Unique 4-way thumb control conveniently placed on display screen for most commonly used functions.
- Ergonomic sweep head with increased sensitivity reduces search time, 6dBi gain.
- Circularly Polarized Antenna improves reliability, and reduces risk of missing a threat due to incorrect antenna polarization.
- Quick fit removable smart battery housed inside control module; provides over 2hrs operation.
- Minimum set-up time; extension Lengths 52 - 208 cm.
- Robust, lightweight aluminum, fiberglass and carbon design; operational weight only 2 kg; in transit case 5.6 kg.

The TRANSIT Case has a double safety lock. There is a pressure release valve positioned below the handle. Should the equipment be subject to change in altitude or temperature the valve will automatically open.



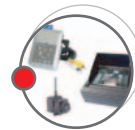
Detection by NLJD of a GSM phone & microphone installed in a wall

Technical Advantages

TRANSIT CASE	Black, molded in structural resin, foam inserts. Dimensions: 48 cm x 34 cm x 12 cm Weight: 2.24 kg
CONTROL MODULE	Black, machined aluminum case and protective pouch. Dimensions: 21 cm x 11 cm x 4 cm Weight: 0.98 kg
DISPLAY MODULE	Black, aluminum tube, plastic facial display, foam grip. Dimensions: 35 cm x 3.6 cm diameter Weight: 0.36 kg
ANTENNA HEAD	Black, fiberglass and abs, aluminum bracket. Dimensions: 17 cm diameter by 4 cm Weight: 0.40 kg
EXTENSION TUBE	Black, aluminum tube, foam grip. Dimensions: 36 cm by 2,5 cm diameter Weight: 0.18 kg
SEPARATION LEAD	Black, co-ax lead with protective braid covering. Dimensions: 120 cm Weight: 0.32 kg
110/240 CHARGER	Black, plastic housing complete with lead and plug. Dimension: 14 cm x 7.5 cm x 6 cm Weight: 0.48 kg
EARPHONEs	Black, lightweight, plastic, rubberized ear grip. Dimensions: 6 cm by 4 cm by 4 cm Weight: 0.02 kg
BATTERY PACK (2)	Black, Nickel Metal Hydride battery, plastic. Dimensions: 15 cm x 5 cm x 1.5 cm Weight: 0.32 kg
COMPLETE SYSTEM	Total Weight of all items above in transit case. Weight: 5.6 kg

Technical Data

TRANSMITTER	Frequency range	Four spot frequencies in the range of 869-916 MHz (dependent on country of use).
	Power output	Adjustable 2mW to 1 W ERP (2 W optaionl).
	Filtering	10 section filter.
	Output connector	50 ohm double screened co-ax socket.
RECEIVER (RX1)	Frequency range	1738-1832 MHz (Transmitter selection controls receiver frequencies).
	Sensitivity	Detection at - 130 dBm.
	Filtering	6 section filter.
	Input connector	50 ohm double screen so-ax socket.
RECEIVER (RX2)	Frequency range	2607-2748 MHz (Transmitter selection controls receiver frequencies).
	Sensitivity	Detection at -130 dBm.
	Filtering	6 section filter.
	Input connector	50 ohm double screened co-ax socket.
DISPLAYS	Target response/comparison; Transmitter ouput power; battery level; Mode selection (RX1 and RX2); Frequency selction; signal strength (R1 and R2).	
CONTROLS	4 way thumb control selects Range and Receiver selection; volume up and down; Frenquency select and ON/OFF.	
ANTENNA	Frequency coverage	860-920 MHz, 1720-1840 MHz and 2580-2760 MHz
	Gain	6 dbi.
	Polarization	RHC Right and circular
CHARGER	Input voltage	100-240 VAC
	Carging current	1200mA/auto trickle charge.
	Charge time	up to 1.5 hours
	Type	Microprocessor controlled, short circuit and timer
BATTERY	Type	Nickel metal hydride - smart battery.
	Voltage	10.8V DC/1700 mAh.
	Test	Built in battery level indicator
	Run time	2 hours - normal operation.



If you would like further Information about ELAMAN,
or would like to discuss a specific requirement or project, please contact us at:

Elaman GmbH
German Security Solutions
Seitzstr. 23
80538 Munich
Germany

Tel: +49-89-24 20 91 80
Fax: +49-89-24 20 91 81
info@elaman.de
www.elaman.de