

TAURUS – FIELD NON LINEAR JUNCTION DETECTOR



TAURUS -NLJD

Taurus is a unique hand-held long range non-linear junction detector (NLJD) specifically designed to detect RCIED's and all kinds of concealed electronic devices as well as landmines (excluding those in plastic casing) as well as hidden arms cache's.

Depending on various factors and conditions such as the target type, operator's skill, environment etc Taurus has a detection range of up to 30 meters.

Features

- (i) Ability to detect Remotely Controlled Improvised Explosive Devices (RCIED), electronically initiated landmines, electronic circuits, concealed arms cache.
- (ii) User friendly, lightweight, one-handed search head operation.
- (iii) Ultra safe operation, health impact is considerably less than a cellular phone.
- (iv) Taurus detects RCIED's within metal cluttered locations, under railway lines, inside all types of vehicles, or concealed areas including concrete reinforced surface structures and road surfaces.
- (v) Dust/shock/weatherproof design allows Taurus to be operated within a wide range of environmental conditions and extreme ambient temperatures.
- (vi) Taurus is simple to use. Its basic modules are located on the user's vest providing operational flexibility. All essential controls & indications are placed on an antenna system back panel that is fitted with an easy-to-use ergonomic handle.
- (vii) Enhanced power supply increases operational autonomy.



Detection mode



Control Panel



Equipment Case



Technical Specifications

Output pulse power, max/min, Watts	200W / 30W
Output power adjustment range, dB	8 ±1dB
Pulse duration, microseconds	3
Duty cycle	1300
Receiver	Two channel-(2-d and 3-d harmonic)
Sensitivity (digital signal processing),dB/W	Not less than 150 (under S/N ratio 6dB)
Attenuator levels, dB	-10, -20, -30
Antennas	Transmit & Receive (Tx/Rx)
Polarisation	Circular
Ellipticity ratio	Not less than 0.8
Gain	8dB (each)
Main lobe angle	Less than 40°
Back lobe level, dB	No more than -20dB
Information displayed	- Transmitter output level - Receiver attenuator adjusted level - 2-d and 3-d harmonic level
Audio	Tone (500 Hz)
Visual display	2 x 16 dot LED scales (res. 2.5kB)
Power supply	Rechargeable 6v Ni-Cad battery (2 packs supplied)
Continuous operational time from one pack/hour	Not less than 10hours
Antenna (diameter x height / weight)	250mm x 170mm / 1.1kg
Transceiver unit	82mm x 70mm x 155mm /1.7kg
Battery pack	182mm x 40mm x 126mm /1.6kg
Ready-to-use detector with a battery pack	/4.3kg
Complete set in a carrying case	520mm x 300mm x 260mm / 13.0kg
Detector in harness, weight, kg	5.5kg
Temperature range	-30°C to +50°C
Limiting high temperature	+60°C
Limiting low temperature	-40°C
Humidity (at +35° C)	95%
Warranty	2 years