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WG 2.4 GHz NON-LINEAR JUNCTION DETECTOR



The WG 2.4 GHz is a state-of-the-art Non-Linear Junction Detector for detecting hidden electronic devices, regardless of whether the electronic target is radiating, hard wired, or even turned off.

It is an ideal solution for:

- Checking board/conference rooms or offices for unauthorised or hidden electronics,
- Searching secure areas for hidden or prohibited electronics,
- Searching for contraband cell phones or other electronic contraband in prisons.

It will locate hidden electronics in walls, floors, ceilings, fixtures, furniture, or containers. It has an antenna-mounted line-of-sight display that lets the operator focus on the target while sweeping. The NLJD transmits at 2.4GHz frequency for detecting small electronics such as SIM cards and cell phones.



SPECIFICATIONS

- CIRCULARLY POLARISED TRANSMIT AND RECEIVE ANTENNA removes risk of missing a threat due to incorrect antenna polarisation.
- DIGITAL MODULATION & CORRELATION - digitally modulated transmit signal with correlated 2nd & 3rd harmonic response provides improved detection & minimizes interference.
- INTEGRATED POLE - no pole or cable assembly required.
- LED HEAD LAMP: Illuminates target area.
- LINE OF SIGHT ANTENNA MOUNTED DISPLAY allows user to focus eyes on sweeping target and display at same time.
- MANUAL OR AUTOMATIC POWER CONTROL up to 3.3 watts.
- MULTIPLE ALERT METHODS- Alert tones and Haptic (vibration) alert can be selected to alert when signal levels surpass the trip levels.
- SMALL LIGHTWEIGHT DESIGN - weighs 2.8 lbs/ 1.3 kg.
- SYNTHESISED TRANSCEIVER provides frequency stability and agility to automatically search for clean operating frequencies (2.404GHz to 2.472GHz).
- WIDE BANDWIDTH TRANSMIT SIGNAL: 1.25MHz increases detection sensitivity.

BATTERY

- Batteries: Lithium Ion Rechargeable Battery (2 included)
- Charge Time: 2.5 hours per battery
- Input AC: 100-240 V, 50-60 Hz
- Run Time: >8 hours per battery (typical)

MECHANICAL

- 2.4 Dim: 22.4 in x 3.75 in x 3 in (57 cm x 9cm x 7.5 cm)
- 2.4 Weight w/Battery: 2.8 lbs (1.3kg)
- Case Dimensions: 6.25 in x 14.9 in x 18.5 in (15.9 cm x 37.8 cm x 47.0 cm)
- Case Weight Including Unit & Accessories: 11.6 lbs (5.2kg)
- Extension Lengths: 16-51 in (40.6-129.5 cm)
- Overall Extended Length: 58 in (147 cm)

SPECIFICATIONS

TRANSMITTER

- Frequency Bands: 2.404GHz - 2.472GHz
- Power Control: Manual or auto control
- Transmit Channels: Manual or auto selection, more than 60 available
- Transmit Modulation: Digital 1.25 MHz BW
- Transmit Power: 3.3 watts EIRP

RECEIVER

- Digitally Correlated
- Frequency Bands: Transmit Band (2.404GHz - 2.472GHz)
- Second Harmonic (4.808GHz - 4.944GHz)
- Sensitivity: -140 dBm for both harmonics
- Simultaneous 2nd & 3rd harmonic receive
- Third Harmonic (7.212GHz - 7.416GHz)

DISPLAY

- Antenna-mounted Display
- Bar Graph Display for transmit power level, 2nd harmonic level, 3rd harmonic level, data field display, for other information (operation mode, low battery, volume, DSP gain, etc.).

SYNOPSIS

- Antenna mounted display for line-of-sight target focus
- Digital modulation and correlation provides increased sensitivity and minimizes interference
- Lightweight design for ease of use
- Minimum setup time
- Operational weight less than 2.8lbs (1.3kg)
- Optimising detection range
- Setup is quick, quiet, and easy - no cables, pole sections, or bulky transceiver to assemble or carry
- Utilises 2.4GHZ Frequency Band
- Wide bandwidth transmit signal: 1.25MHz increases detection sensitivity