

Detection Devices

ORION 2.4 Non-Linear Junction Detector (Item: NJE-24)

New Smaller, lighter, 2.4 GHz transmit frequency. A Non-Linear Junction Detector detects the presence of electronics, regardless of whether the electronic target is radiating, hard wired, or even turned off. The ORION 2.4 quickly detects and locates hidden electronics.



Features:

DIGITAL MODULATION & CORRELATION: provides improved detection & minimizes interference.

WIDE BANDWIDTH TRANSMIT SIGNAL: 1.25MHz increases detection sensitivity

MULTIPLE ALERT METHODS: Alert tones and vibration alert can be selected to alert when signal levels surpass the trip levels

LINE OF SIGHT ANTENNA MOUNTED DISPLAY: allows user to focus eyes on sweeping target and display at same time.

2.4 GHz TRANSMIT FREQUENCY: for detecting small electronics

MANUAL OR AUTOMATIC POWER CONTROL: up to 3.3 watts

SMALL LIGHTWEIGHT: weighs 2.8 lbs/1.3 kg

INTEGRATED TELESCOPING POLE

SYNTHESIZED TRANSCEIVER: frequency stability and agility to automatically search for clean operating frequencies (2.404GHz - 2.472GHz).

CIRCULARLY POLARIZED TRANSMIT AND RECEIVE ANTENNA: removes risk of missing a threat due to incorrect antenna polarization.

Tech Specs:

- **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.)
- **Transmitter:**
- Frequency Bands: 2.404GHz-2.472GHZ
- Transmit Channels: Manual or auto selection, more than 60 available
- Transmit Power: 3.3 watts E.I.R.P.
- Power Control: Manual or Auto Control
- Transmit Modulation: Digital 1.24 MHz BW
- **Receiver:**

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- Simultaneous 2nd & 3rd harmonic receive Digitally Correlated
- Frequency Bands: Transmit Band (2.404GHz - 2.472GHz); Second Harmonic (4.808GHz - 4.944GHz); Third Harmonic (7.212GHz - 7.416GHz)
- Sensitivity: 140 dBm for both harmonics
- **Battery Specifications:**
- Input AC: 100–240 V, 50–60 Hz
- Run Time: >8 hours per battery (typical)
- Charge Time: 2.5 hours per battery (typical)
- Batteries: Lithium Ion Rechargeable Battery (2 included)
- Extension Lengths: 16-51 in (40.6-129.5 cm)
- Overall Length Extended: 58 in (1.5 m)
- Case Dimensions: 6.25 in x 14.9 in x 18.5 in (15.9 cm x 37.8 cm x 47.0 cm)
- ORION 2.4 Dim: 22.4 in x 3.75 in x 3 in (57 cm x 9cm x 7.5 cm)
- ORION 2.4 Weight w/Battery: 2.8 lbs (1.3kg)
- Case Weight Including ORION 2.4 & Accessories: 11.6 lbs (5.2kg)

