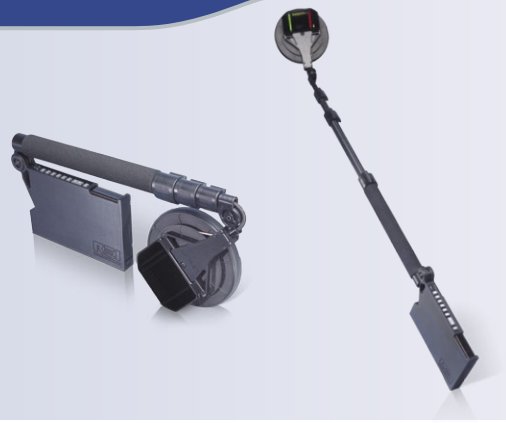


ORION™ NJE-4000

NON-LINEAR JUNCTION DETECTOR

U.S. PATENTS: 5,815,122; 6,057,765; 6,163,259
U.K. PATENTS: GB234 432; GB235 1154; GB238 1077; GB238 1078

Detect and Locate Hidden Cellular Phones in Prison Cells...

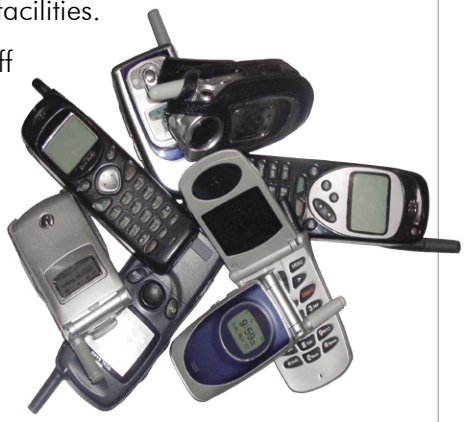
Cellular Phones are becoming one of the most dangerous forms of prison contraband, allowing prisoners to bypass regulations and conduct illicit activity from behind bars.

The ORION NLJD locates hidden electronic devices such as cellular phones, etc.

Features

The ORION is the World's leading Non-Linear Junction Detector (NLJD) for detecting hidden electronic devices. The ORION detects semiconductor junctions (present in virtually all electronic devices, including cellular phones) and provides a working solution to controlling contraband cellular phones in correctional facilities.

- Detects electronics in cellular phones/chargers, EVEN when the phone is turned off
- Patented Digital Signal Processing Algorithms increases sensitivity
- Patented Frequency Hopping functionality increases detection reliability
- Lightweight, Balanced, Ergonomic Design: only 3.3lbs (1.5kg)
- Includes 4 rechargeable NiMH batteries; 2.5 hours run-time per battery
- Detects through common hiding places (mattresses, clothing, food boxes, etc.)
- Portable, fits into a case slightly larger than a standard brief case
- Easy to use, easy to read display alerts on hidden electronics



*Product specifications and descriptions subject to change without notice.

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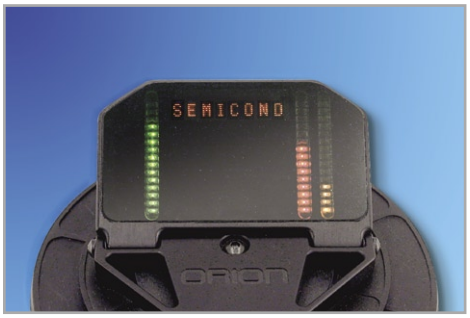
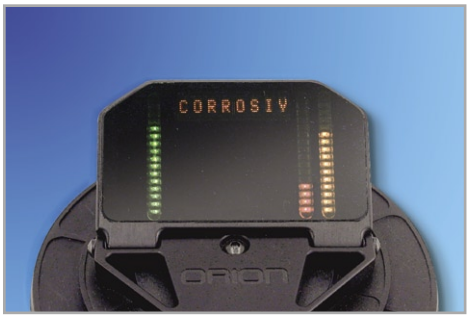
Research Electronics Intl®
TECHNICAL SECURITY SPECIALISTS

Locates Hidden Electronic Contraband such as Cellular Phones

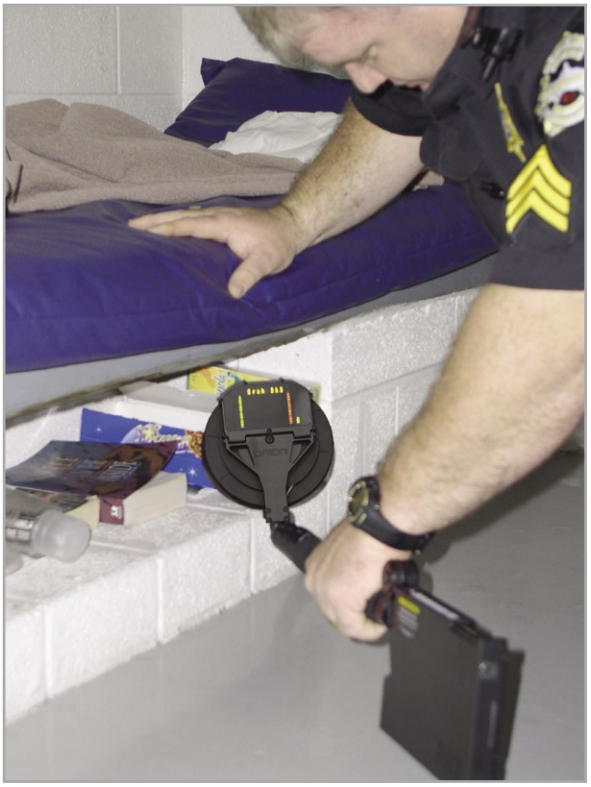


A strong RED response indicates electronics contained in potential contraband such as a cellular phone (the red LEDs represent the 2nd harmonic).



The GREEN LEDs indicate the transmit power level.

A strong YELLOW response indicates a false target such as a rusty nail or other corrosive metal object (yellow LEDs represent the 3rd harmonic).



Technical Specifications

TRANSMITTER

Frequency Bands: 880–1005MHz in 200kHz (FCC Band 902.2-927.8MHz)
Transmit Power: 14 milliwatts minimum, 1.4 watts peak Effective Radiated Power (ERP)
Power Control: Manual or auto control with 30 dB range

RECEIVER

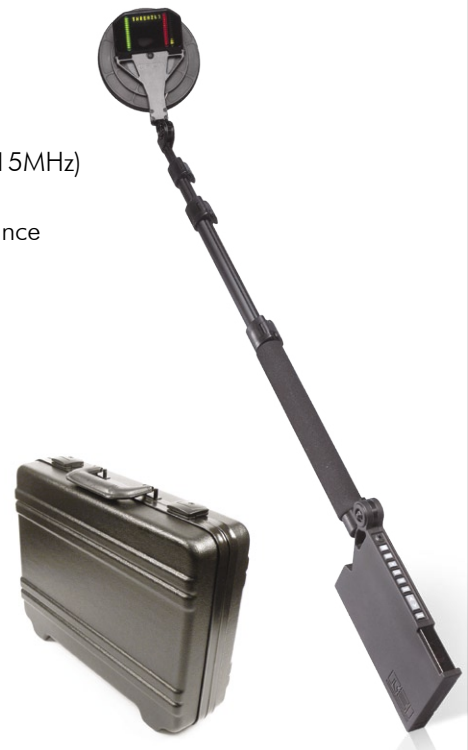
Frequency Bands: Second Harmonic (1760–2010MHz) or Third Harmonic (2640–3015MHz)
Sensitivity: -133dBm for Second and Third Harmonics
DSP S/W Integration: Programmable between 6 and 18dB gain in sensitivity performance
Receiver Bandwidth: 3kHz

BATTERY/CHARGER

Batteries: (4 included) 7.2V NiMH
Run Time: 2.5 hours per battery (SRCH mode)
Charge Time: 1 hour per battery
Charger Input AC: 100-240V, 50-60Hz

MECHANICAL

Extension Lengths: 16–51 in (40.6–129.5 cm)
Operational Weight with Battery: 3.3 lbs (1.5 kg)
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: 11.5 lbs (5.2 kg)



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