



# ORION™

## HIGH GAIN NLJD

\* RESTRICTED BY US FCC

U.S. PATENTS: 5,815,122; 6,057,765; 6,163,259  
U.K. PATENTS: GB2344423; GB2351154; GB2381077; GB2381078

## Increased Radiated Power and Receiver Sensitivity provides Superior Detection Range for evaluating dense or thick materials...

The world's leading Non-Linear Junction Detector is now available in a High Gain Model: inspect concrete and other thick objects with ease.

### Features

The ORION is the World's leading Non-Linear Junction Detector (NLJD) for detecting hidden electronic devices.

The unique High Gain antenna design provides increased transmit power efficiency and receiver sensitivity for specialty applications (i.e. evaluating thick or dense objects such as concrete, thick wood, etc.).

- Effective Radiated Power (ERP) is more than double the standard ORION
- Increased transmit efficiency and receiver sensitivity due to high gain antenna
- Patented Digital Signal Processing Algorithms increases sensitivity
- Wide frequency range: 880 - 1005 MHz
- Patented Frequency Hopping functionality
- Lightweight, Balanced, Ergonomic Design: only 3.3lbs (1.5kg), easy to read display on the antenna head
- PC software for remote use or to create customized operational profiles to "lock" certain features for use in hazardous environments



\*This device is authorized for use only by agencies, persons, and entities not restricted by US FCC regulations.

\*Product specifications and descriptions subject to change without notice.

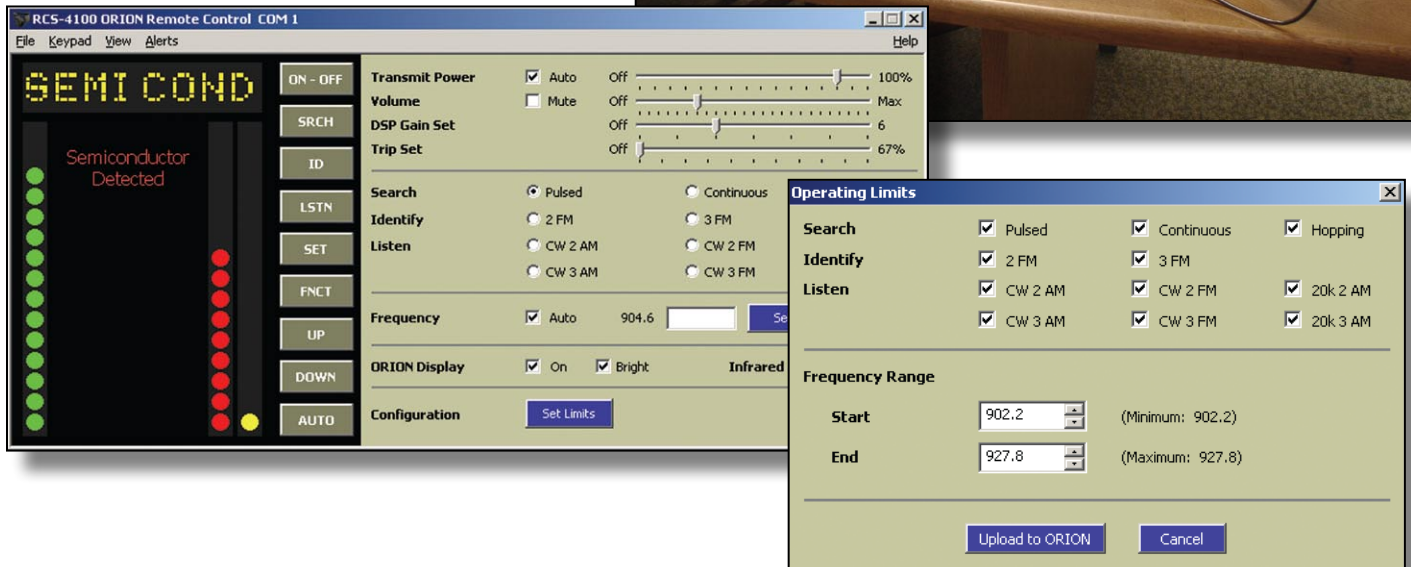
# PC Computer Software

## PC COMPUTER SOFTWARE

- Customize transmit frequency bands within operational bandwidth.
- Define and limit available user operational settings once the ORION is disconnected from computer.

## OPTIONAL 60 FT. REMOTE CABLE

- Control the ORION remotely via computer.
- Keeps user at a safe distance when using the ORION in hazardous environments.
- Includes 60 ft cable, and a heavy-duty tripod and mounting bracket for stabilizing the ORION during remote use.



# Technical Specifications

## TRANSMITTER

**Frequency Bands:** 880–1005MHz in 200kHz or 100kHz steps

**Transmit Power:** 30 milliwatts minimum to approximately 3 watts 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

## MECHANICAL

**Extension Lengths:** 16–51 in (40.6–129.5 cm)

**Case Dimensions:** 6.25 in x 14.9 in x 18.5 in (15.9 cm x 37.8 cm x 47.0 cm)

**Weight with Battery:** 3.3 lbs (1.5 kg)

**Case Weight:** 11.5 lbs (5.2 kg)



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