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FOR IMMEDIATE RELEASE

ORION 900 HX NLJD Uses Lower Frequency to Detect Electronics Through Dense Materials

Cookeville, TN., 13 July 2017 --

The new ORION 900 HX Non-Linear Junction Detector (NLJD) from REI detects electronic semi-conductor components through dense materials such as bricks, concrete, and soil.

The longer 900 MHz wavelength does better at detecting older less refined circuitry and also penetrating building and construction materials compared to the shorter wavelength of the 2.4 GHz model, which is better suited for detecting modern surface mounted circuitry in normal office environments.

The ORION antenna head is a transceiver (transmitter and receiver) that radiates a 1.25 MHz-wide digital spread spectrum signal to determine the presence of electronic components. When the signal encounters semi-conductor junctions (diodes, transistors, circuit board connections, etc.), a harmonic signal returns to the receiver. The receiver measures the strength of the harmonic signal and distinguishes between 2nd or 3rd harmonics. When a stronger 2nd harmonic signal is present, visual, audio, and haptic feedback alerts on the ORION notify users that a junction has been detected. In this way, the hand-held ORION 900 HX is used to sweep across walls, objects, containers, furniture, and most surfaces to look for hidden electronics, regardless of whether the electronic device is turned on.

The standard transmit power of the ORION 900 HX is 1.4 W EIRP with operating frequencies between 905 and 925 MHz. This model is FCC and IC compliant. A higher power “G” model with 3.2 W EIRP and a wider frequency range is available to entities, agencies, and persons not restricted by US FCC and IC. Both models are CE marked for public safety and security.*

For professionals looking to equip themselves for every situation, a new ORION HX Deluxe package is available which includes interchangeable 900 MHz and 2.4 GHz antenna heads. The antenna heads are easily exchanged by simply turning a pair of thumb screws. The touch screen controller on the ORION handle automatically recognizes the attached antenna and displays the corresponding data.

More details on the ORION 900 HX and the ORION HX Deluxe can be found online at www.reiusa.net.

About Research Electronics International

For over 30 years, Research Electronics International (REI) has focused on protecting corporate information by designing and manufacturing technical security equipment to protect against illicit information theft and corporate espionage. REI is recognized as an industry leader by corporations, law enforcement agencies, and government agencies for technical security equipment.

**CE mark is for public safety and security sectors only. For entities needing commercial CE compliance, a lower transmit power model is also available.*

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