The ORION 2.4 HX introduces a new generation of Non-Linear Junction Detectors (NLJD) made to detect and locate hidden electronics regardless whether the device is radiating, hard wired, or turned off. Types of circuitry NLJDs detect include eavesdropping devices, recording devices, cell phones and other electronic contraband. The ORION 2.4 HX is available in 3.3-watt and *6.6-watt transmit power models.

A completely new polycarbonate body includes a touchscreen display. The ORION 2.4 is hand held and compact when retracted and can extend to a full length of 58 inches for investigating hard to reach areas. The line of sight LED/OLED display provides visible feedback at any length.

**TECHNICAL ADVANTAGES**

1. **DIGITALLY MODULATED SPREAD SPECTRUM** - Provides increased detection range and interference rejection (Patent Pending)
2. **WIDE BANDWIDTH TRANSMIT SIGNAL** - 1.25MHz wide increases detection sensitivity
3. **HISTOGRAM GRAPH** - Displays continuous history of harmonic response and power adjustment (Patent Pending)
4. **FREQUENCY ADJUST SCREEN** - Displays the full RF spectrum for Transmit, 2nd, or 3rd frequency ranges
5. **ADJUSTABLE DSP GAIN** - High gain provides increased detection range for the same power
6. **-140 dBm CORRELATED RECEIVER** - 2nd & 3rd harmonic response correlated to Tx improves detection and minimizes interference (Patent Pending)
7. **MULTIPLE ALERT METHODS** - Alert tones and Haptic (vibration) alert can be selected to alert on detection
8. **FREQUENCY AVOIDANCE** - Tx searches for quiet frequency to avoid interference
9. **LED HEAD LAMP** - Illuminates target area
10. **MANUAL OR AUTOMATIC POWER CONTROL**
11. **SMALL LIGHTWEIGHT DESIGN** - Weighs 3lbs/1.4kg
12. **LINE OF SIGHT ANTENNA MOUNTED DISPLAY** - Allows user to focus eyes on target area and display
13. **INTEGRATED POLE** - No pole or cable assembly required
14. **SYNTHESIZED TRANSCEIVER** - Provides frequency stability and agility to automatically search for quiet operating frequencies (2.404GHz to 2.472GHz)
15. **CIRCULARLY POLARIZED TRANSMIT AND RECEIVE ANTENNA** - Removes risk of missing a threat due to incorrect antenna polarization
16. **INCREASED BATTERY LIFE** - >4 hours with typical use

**APPLICATIONS**

- Commercial security applications such as checking corporate board rooms or offices for unauthorized or hidden electronics
- Searching secure areas for hidden or prohibited electronics
- Searching for contraband cell phones or other electronic contraband in prisons

*The ORION 2.4 HX 6.6W model is authorized for use only by agencies, persons and entities not restricted by US FCC and CE. The ORION 2.4 HX 3.3W model is compliant with FCC and IC technical standards and has been CE marked.

Product specifications and descriptions subject to change without notice.
MARKETING CHARACTERISTICS

TRANSMITTER

Frequency Bands: 2.404GHz - 2.472GHz
Transmit Channels: Manual or auto selection, more than 60 available
Transmit Power: 3.3W or 6.6W EIRP
Power Control: Manual or auto control
Transmit Modulation: Digital 1.25 MHz BW

RECEIVER

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

DISPLAY

Handle Mounted Touch Screen Controller 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.)

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)
ORION 2.4 Dim: 22.4 in x 3.75 in x 3 in (57 cm x 9cm x 7.5 cm)
Overall Extended Length: 58 in (147 cm)
ORION 2.4 Weight w/Battery: 3 lbs (1.4kg)
Case Weight Including ORION & Accessories: 12 lbs (5.4kg)

BATTERY

Input AC: 100-240 V, 50-60 Hz
Run Time: >4 hours per battery (typical)
Charge Time: 2.5 hours per battery
Batteries: Lithium Ion Rechargeable (2 included)

An antenna-mounted LED headlamp illuminates surfaces and low-lit areas, especially beneficial at extended lengths

Custom user settings and screen captures can be saved to micro SD card. The USB port can be used for future software updates.

Smaller, lighter, 2.4 GHz transmit frequency provides excellent detection and sensitivity for detecting modern electronics!