



ORION[™]

NON-LINEAR JUNCTION DETECTORS

TECHNICAL SPECIFICATIONS

TRANSMITTER

2.4 HX transmit power: 3.3 W; G model: 6.6 W
900 HX transmit power: 1.4 W; G model: 3.2 W
Power control: manual or auto control
2.4 HX frequency band: 2.404 GHz - 2.472 GHz
900 HX frequency band: 905 - 925 MHz; G model: 840 - 960 MHz
Transmit channels: manual or auto selection, more than 60 available
Transmit modulation: digital spread spectrum, 1.25 MHz bandwidth

Please note: G model authorized for use only by agencies, persons and entities not restricted by FCC & IC. Both models are CE marked for public safety and security. Commercial CE versions also available.

RECEIVER

Simultaneous 2nd & 3rd harmonic receive
Digitally correlated
2.4 HX frequency band:
 Second Harmonic (4.808 GHz - 4.944 GHz)
 Third Harmonic: (7.212 GHz - 7.416 GHz)
900 HX frequency band:
 Second Harmonic (1810 MHz - 1850 MHz);
 G model (1680 MHz - 1920 MHz)
 Third Harmonic: (2715 MHz - 2775 MHz);
 G model (2520 MHz - 2880 MHz)
2.4 HX sensitivity: -140 dBm for both harmonics
900 HX sensitivity: -130 dBm for both harmonics

DISPLAY

Handle mounted touch screen controller display; keypad model also available
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 HX dimensions: 22.4 in x 3.75 in x 3 in
 (57 cm x 9 cm x 7.5 cm)
ORION 900 HX dimensions: 23 in x 3.75 in x 3 in
 (58.4 cm x 9 cm x 7.5 cm)
Overall Extended Length: 58 in (147 cm)
ORION 2.4 HX weight w/ battery: 3 lbs (1.4 kg)
ORION 900 HX weight w/ battery: 3.6 lbs (1.6 kg)

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)

The supplied battery pack: RRC Power Solutions Lithium Ion Rechargeable Battery pack Model #RRC2040, rated 11.25V, 2950mAh, 33.2Wh.

THERMAL

Operating temperature: -10 to 50°C
Battery charging temperature: 5 to 37°C
Storage temperature: -20 to 60°C

Please note: extended storage at temperatures above 40°C could degrade battery & OLED display performance and life.

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