

ACCUSEIS SENSOR OPTION

FEATURES

- All-in-one single component recording unit with internal MEMS sensor
- Operated through INOVA's iX Studio command and control software
- Patented MEMS accelerometer and custom electronics to record P-wave data
- Offers flat amplitude and phase response over a wide frequency range
- Insensitivity to tilt-degradation enables faster deployment



GENERAL SPECIFICATIONS

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|--------------------------|--|
| No. of Digital Channels: | 1 |
| Data Storage Capacity: | 16 GB non-volatile flash memory |
| Integrated Battery: | Rechargeable Li-ion |
| Battery Life: | 23 days typical, 24 Hr operation |
| Wireless Communication: | Bluetooth LE, HyperQ |
| GPS: | L1-GPS /QZSS, GLONASS, BeiDou, Galileo |
| Timing Accuracy: | +/-20 μ s |
| Charging Temperature: | +5 °C to + 40°C |
| Operating Temperature: | -40 °C to + 70 °C |
| Water Immersion: | IP68 (fresh water only) |

PHYSICAL

| | |
|---------|--|
| Size: | 10.9 cm x 9.8 cm x 8.61 cm (Excl. spike) (4.3" x 3.9" x 3.4") |
| Weight: | 0.48 kg (1.06lbs) incl internal battery and MEMS accelerometer |

SENSOR SPECIFICATIONS

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|----------------------------|--|
| Digital Quantization: | 24-bits |
| Sample Rate: | .5 ms, 1 ms, 2 ms, or 4 ms |
| Time Standard: | Phase locked to GPS clock |
| Full Scale (Peak): | 3.3 m/s ² (335 mG) |
| Noise: | 0.3 μ m/s ² /√Hz (30nG/√Hz) 3 Hz to 400 Hz |
| Dynamic Range: | 118 dB |
| Frequency response: | 0 to 400 Hz |
| Digital High-Cut Filter: | 0.82 Nyquist |
| Total Harmonic Distortion: | < -100 dB |
| Filter Options | Minimum or Zero Phase |

AUTOMATED TESTS

Unit temperature, sensor tilt, sensor noise , auto DC offset calibration, response accuracy test.