



GeoSpectrum Technologies Inc.

Customizing Detection



M511-200

The M511-200 Guard Buoy is a high-performance passive listening buoy capable of real time embedded signal processing for autonomous detection of marine mammals, marine traffic and many other underwater noises.

Unlike other high-performance buoys, the performance of Guard Buoy does not come at the expense of high-power consumption and short deployment times. Guard Buoy can synchronously sample up to four hydrophone inputs at over 500 kHz to handle just about any scientific requirement.

This buoy has live Ethernet for real time research, Bluetooth for configuration and high-speed USB for ultra-fast data downloads.

Characteristics

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| Depth Rating | 200m |
| Diameter | 14.1 cm |
| Length | 79 cm |
| Weight | 12 kg |
| Audio | Up to 4 synchronized hydrophone inputs 16 or 24 bit samples at up to 512 kHz sampling rate (configurable) Wide Range of available hydrophone |
| Communications | 10/100 Ethernet (for real time listening) RS422 or RS232/ Bluetooth /USB Real-time notifications over cellular or iridium |
| Memory | Up to 512 GB of internal solid state storage Integrated hard drive options available |
| Power | Standard battery pack uses 40 D cells 12V output at 1 A nominal for powering external devices Can use internal or external power (8-30 V) with priority on external power |
| Auxiliary Sensors | Pressure / Compass / Accelerometer Real-time clock GPS input |