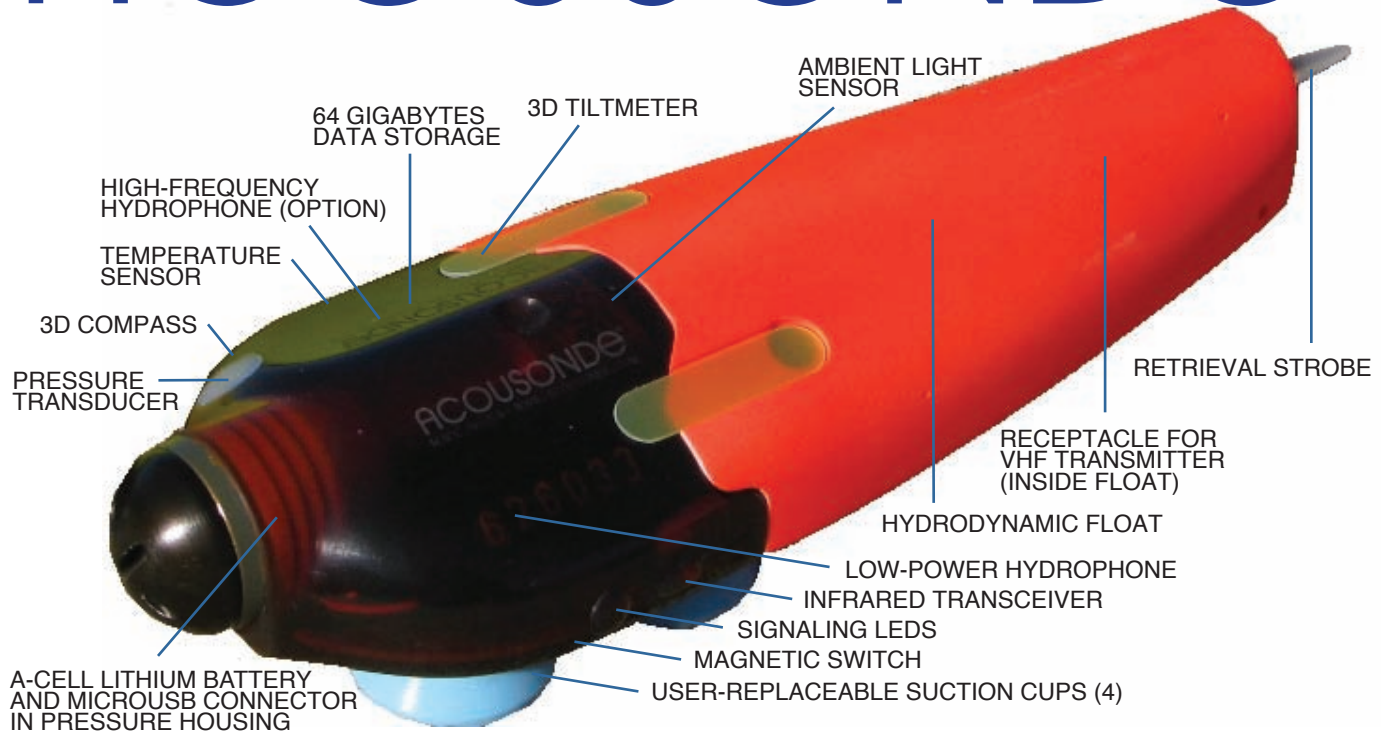


ACOUSONDE™



LENGTH: 22.4 cm (8.8 in) *not including strobe or VHF transmitter*

WEIGHT IN AIR: 360 g (12.7 oz) *with battery and VHF transmitter*



The *Acousonde™ 3B* is a self-contained underwater acoustic recorder comprising one or, optionally, two hydrophones, sensors for attitude, orientation, depth and temperature, a digital recorder, and a field-replaceable battery. Attached to an animal subject, the Acousonde measures the subject's sound environment and vocalization activity as well as potentially associated behavior.

SPECIFICATIONS, ACOUSONDE 3B UNDERWATER ACOUSTIC RECORDER

Maximum operating depth (fixed build option)	500 m (-500m suffix) / 1000 m (-1km) / 2000 m (-2km) / 3000 m (-3km)
Maximum continuous acoustic sampling rate	232 kHz
Anti-alias filter, low-power channel	8-pole elliptic, adjustable (automatic) up to 9.2 kHz maximum
Anti-alias filter, high-frequency channel	6-pole linear phase, fixed
3-dB anti-alias cutoff	9.2 kHz (low-power channel max.), 42 kHz (high-frequency channel)
22-dB anti-alias cutoff	11.1 kHz (low-power channel max.), 100 kHz (high-frequency channel)
3-dB high-pass cutoff	22 Hz (low-power channel), 10 kHz (high-frequency channel)
Unamplified hydrophone sensitivity, re 1 V/ μ Pa	-201 dB (low-power channel) & -204 dB (high-frequency channel)
Saturation at 0-dB gain, re 1 μ Pa zero-peak	187 dB (low-power channel) & 172 dB (high-frequency channel)
Acoustic gains, selectable at deployment	0 or +20 dB
Acoustic sampling resolution	16 bits
Auxiliary sampling rate	Deployment-time choices ranging from 40 Hz to once every 5 s
Auxiliary sampling resolution	16 bits (except 10 bits for tilt)
Auxiliary sampling channels	Depth (pressure), internal temperature, 3D tilt, 3D compass, ambient light level
Total storage capacity (primary & spare)	64 gigabytes (<i>at sample rates < 26 kHz battery limits storage</i>)
Maximum duration if sampling < 26 kHz	6-14 days depending on temperature and if aux sampling also active
Maximum measured data download rate	490 kilobytes/s, via MicroUSB connector

March 2012

Firmware support for some specifications, performance and/or functionality may be pending; see current release notes. Data subject to change without notice.

HOME PAGE <http://www.acousonde.com>
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The Acousonde™ is made by Acoustimetrics, a brand of Greeneridge Sciences, Inc.