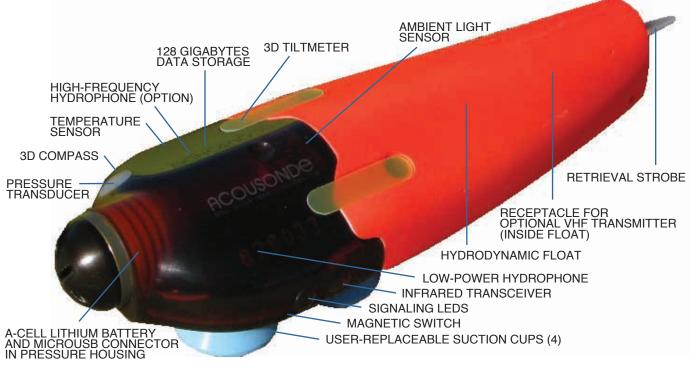
ACOUSONDE



LENGTH: 22.9 cm (9.0 in) not including strobe or VHF transmitter

WEIGHT IN AIR: 362 g (12.8 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 with the included suction cups, the Acousonde measures the subject's sound environment and vocalization activity as well as potentially associated behavior. When the suction cups release, the Acousonde's hydrodynamic float buoys it to the surface where it can be retrieved by boat.

SPECIFICATIONS, ACOUSONDE 3B UNDERWATER ACOUSTIC RECORDER

Maximum operating depth (fixed build option)
Maximum continuous acoustic sampling rate
Anti-alias filter, low-power (LP) channel

Anti-alias filter, high-frequency (HF) channel

3-dB anti-alias cutoff 22-dB anti-alias cutoff 3-dB high-pass cutoff

Unamplified raw ceramic sensitivity, re 1 V/ μ Pa Saturation at 0-dB gain, re 1 μ Pa zero-peak

Acoustic gains, selectable at deployment

Acoustic sampling resolution Auxiliary sampling rate Auxiliary sampling resolution Auxiliary sampling channels

Onboard storage capacity (primary & spare) Maximum duration if sampling < 26 kHz Maximum measured data download rate 500 m (-500m suffix) / 1000 m (-1km) / 2000 m (-2km) / 3000 m (-3km) 232 kHz

8-pole elliptic, adjustable (automatic) up to 9.2 kHz maximum 6-pole linear phase, fixed

9.2 kHz (LP chan max); 42 kHz (HF chan)

11.1 kHz (LP chan max); 100 kHz (HF chan)

22 Hz (LP chan); 20 Hz/1 kHz/10 kHz (HF chan, fixed, customer spec) -201 dB (LP chan hydrophone) & -204 dB (HF chan hydrophone)

187 dB (LP chan) & 176 dB (HF chan)

0 or +20 dB 16 bits

Up to 800 Hz (tilt), 40 Hz (compass), 10 Hz (depth), 5 Hz (temp, light)

16 bits (except 10 bits for tilt)

Depth (pressure), internal temperature, 3D tilt, 3D compass, ambient light level

128 gigabytes (*note:* at sample rates < 26 kHz, battery limits storage) 6-14 days depending on temperature and aux sampling activity

3.3 GB/hour via MicroUSB connector

December 2019

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

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