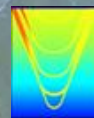


Enhanced Underwater Loudhailer

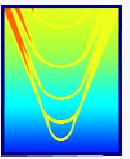
- Advanced underwater audio transmission system for diver instruction and recall, harbor security, and recreational use
- Lightweight transducer array operable to 70-ft (21-m) depth provides enhanced loudness and intelligibility
- Portable, battery-operated control unit
- Color PDA interface with programmable tone/voice message sequences
- Live microphone or pre-recorded transmit
- Tested with tones and voices to 500+ yds (460+ m)



Applied Physical Sciences

For more information contact:

Bruce Abraham, Ph.D.
Applied Physical Sciences Corp
475 Bridge Street, Suite 100
Groton, CT 06340
Phone: 860-448-3253 x104
Fax: 860-448-3075
Email: eLOUD@aphysci.com



Enhanced Underwater Loudhailer

System Specifications

Acoustic

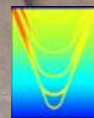
- 300 Hz to 5000 Hz bandwidth
- 190 dB maximum Sound Pressure Level (SPL) at 2.7 kHz (at 1 m), 180 dB maximum SPL at 500 Hz
- Tested with tones and voice messages to 580 yards (530 m)

Electrical & Software

- 400 Watt RMS class D power amplifier
- Single 12V DC, 9 Ah sealed lead acid rechargeable battery
- Battery charger (13V DC@1.5A, 115VAC)
- Direct 12 V DC power connection for external power
- PTT microphone for live transmission or recording
- Windows Mobile 5 PDA interface with removable SD card
- Programmable message sequences
- Simple 11025 Hz, 16 bit, mono Wave data file format
- 5+ hour operation at 25% duty cycle

Mechanical

- Transducer array (3 elements), 56" length, 18 lb dry, 6 lb wet
- Control unit dimensions 18.2"L, 13.4"W, 6.7"H, 30 lb weight
- Splashproof when open, waterproof to 3 ft when closed
- Separate waterproof carrying case for transducers, charger, auto adapter, and spare battery



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