

BATS

Broadband Acoustic Tracking System

The Future of USBL Underwater Tracking has Arrived...

- Ultra Short Base Line Tracking System
- Broadband Spread Spectrum and Continuous Wave Acoustic Technology
- 17 to 30 kHz Frequency for Extended Range
- Compatible with Windows 98, NT, 2000, XP, and Vista



Available as a Desktop Unit (Above)
Or in a Portable Version (Below)



The new BATS System consists of a Signal Interface Module housed in a standard (3.5") rack mount chassis (19"). It can be configured for a desk top application with a PC or laptop running the ORE Trackman Windows® software or coupled with a standard (3.5") rack mount PC and standard (3.5") rack mount Keyboard/Display. Alternately, BATS is available in a splash proof Portable unit.

The use of Broadband Acoustic Technology provides exceptional range and tracking performance. The software is user friendly and intuitive. The system interface is Ethernet TCP/IP to a PC running a compatible Windows® operating system.



*What you do underwater is your business...
... Helping you do it better is ours*

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Specifications

BATS

System Performance

Transponder / Responder: Absolute accuracy in horizontal position (over entire hemisphere) (does not include motion)	± 0.5% RMS of slant range
Repeatability accuracy: (does not include motion)	± 0.3% RMS of slant range
Azimuth resolution:	0.08 degree
Slant range accuracy:	± 0.3 meters RMS (with correct sound speed)
Slant range resolution:	0.05 meters
Acoustic coverage:	± 90 degrees below hydrophone / projector
Signal to noise ratio:	20 dB @ hydrophone (in 17 - 30 kHz band)
Receive frequency:	17 to 30 kHz Spread Spectrum, Also, REMUS codes 1 - 4
Transmit frequency:	16 to 21 kHz in 500Hz increments (400 Watt transmit output) (Plus, REMUS xmit codes 1 - 4)
Receive pulse width:	Various coding schemes available
Transmit pulse width:	1 to 15 milliseconds

Operational controls via supplied software

Up to 4 Target selection	Interrogation rate (0.6 to 20 seconds)
Tracking On/Off	Scaling (feet, meters, yards)
Target Type	Filtering Levels
Receive Threshold	Various coded waveforms

Weights and dimensions

Signal Interface Module : (2U rack)	L 18.9 in (48.0 cm) x H 3.46 in (8.8 cm) x D 20 in (50.8 cm) 21 lbs (9.5 kg)
Hydrophone :	L 20 in (50.8 cm) Dia 2.9 in (7.4 cm) 10 lbs (4.5 kg)
Cable :	L 50 ft (15 meters) Dia* 0.5 in (1.3 cm) 8 lbs (3.6 kg)



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