

TrackLink 10000

**Integrated USBL Tracking and High Speed Acoustic Communication Systems
11000 Meters of Range, Highly Robust, Accurate and Cost Effective**

The TrackLink 10000 systems are low frequency ultra long-range TrackLink USBL systems, the world's best selling USBL positioning systems. Capitalizing on its benchmark **Broadband Acoustic Spread Spectrum (BASS)** technology, LinkQuest provides the end users with solutions for ultra long-range deepwater underwater tracking and communication at sharply reduced cost and increased robustness and accuracy. An extensive line of models is available to suit the users' specific application requirements and budget constraints.

The cost of a complete system, including a ship mounted transceiver, a transponder/responder, the PC tracking software, a 70 foot cable and a transit case, starts from 49,900 US dollars.

TrackLink 10000LC

This system is a low cost yet highly robust system. This system brings the convenience of an USBL system to the users who typically do not have the budget for an expensive ultra deepwater USBL tracking system.

TrackLink 10000MA

This system is a cost-effective, medium accuracy tracking system. The accuracy of the system is 1 degree. The TrackLink 10000MA System provides a highly robust solution to cost conscious users who require improved positioning accuracy.

TrackLink 10000HA

This system is a high accuracy ultra long-range USBL tracking system. The accuracy of the system is 0.25 degree.



Main Features

Sharply reduced cost to end users and improved system robustness.

Utilize LinkQuest's benchmark **Broadband Acoustic Spread Spectrum (BASS)** Technology.

Strong rejection to multipaths and ship noise.

Integrated with LinkQuest's most advanced high speed acoustic communication modems.

Advanced power-efficient DSP technology.

PC Windows tracking software. Interface directly to the transceiver. No need for a heavy proprietary deck unit.

Small and light weight transceiver for ease of installation on a ship.

System Specifications

Positioning Accuracy:

TrackLink 10000HA: 0.25 degree
TrackLink 10000MA: 1.0 degree
TrackLink 10000LC: 3.0 degrees
Slant Range Accuracy: 0.40 meter

Targets Tracked: 8

Operating Frequency:

8.4 kHz to 11.7 kHz without acoustic modem option
7.5 kHz to 12.5 kHz with acoustic modem option

Operating Beamwidth: 90 to 120 degrees

Operating Temperature: -5 to 45 °C

Storage Temperature: -25 to 75 °C

RS-232 Configuration: 9600 baud, 1 start bit, 1 stop bit, no parity bit, and no flow control

Optional High Speed Acoustic Modem Data Rate: up to 2,400 baud

Working range with ship noise:

up to 11000 m with TN10015 transponders
up to 7000 m with TN10010 transponders

Transceiver:

Maximum Depth: 20 meters
Transmit mode power consumption: 100 Watts
Receive mode power consumption: 1.8 Watts
Hydrophone Array Dimension: 25.2 cm x 12.6 to 27 cm (d)
Acoustic Transmitter Dimension: 32.2 cm x 12.6 cm (d)
Hydrophone Array Weight in water: 3.0 kg
Acoustic Transmitter Weight in water: 3.6 kg

Transponder:

Transmit Mode Power: up to 500 Watts
Sleep Mode Power Consumption: 8 mwatts
Maximum depth: 7000 meters

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