SEAVIEW SYSTEMS

Solutions in depth

USBL (ULTRA SHORT BASELINE) POSITIONING

LinkQuest Tracklink USBL Transponder

Model: TN1510AH

High power model for long-range high noise environments.

Range: up to 1000m

Accuracy: up to 0.25°
Transmit Power: 32 Watts

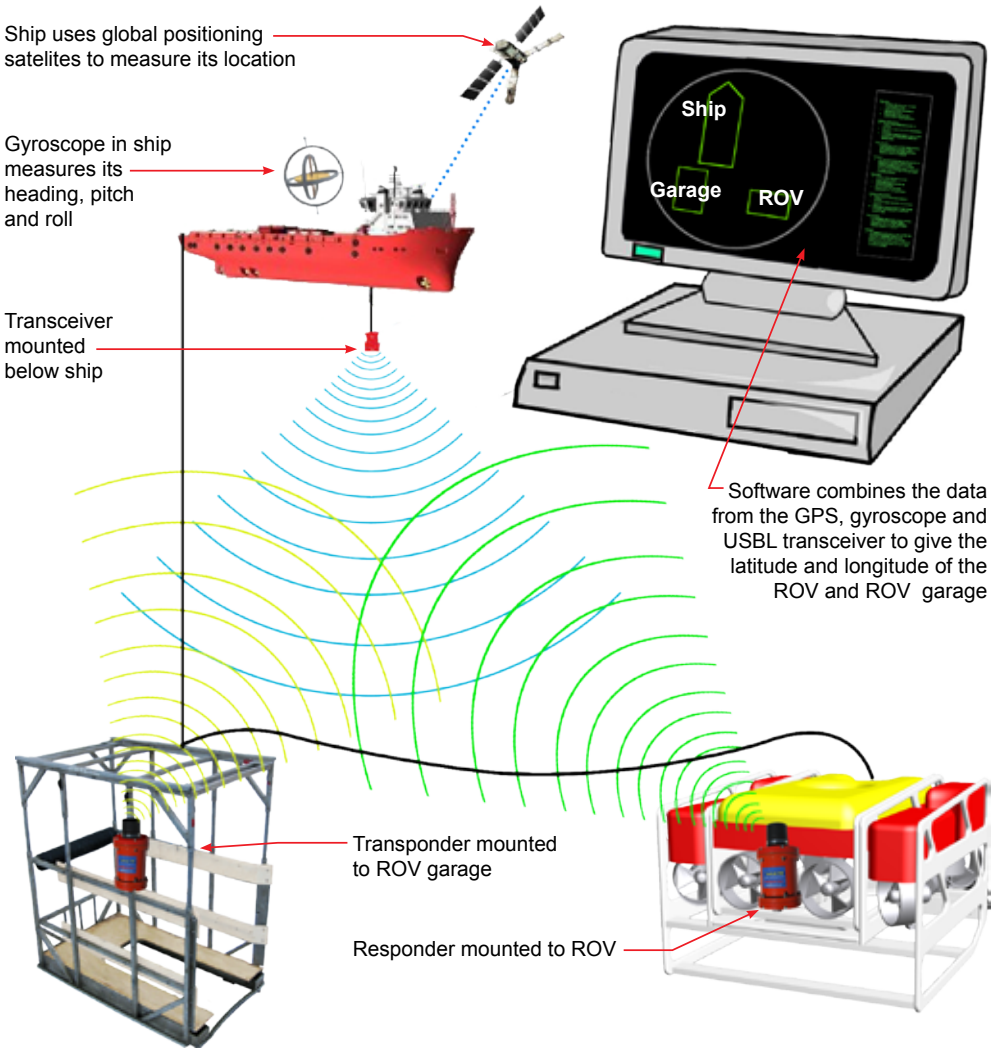
Beamwidth: omni-directional

Depth Rating: 1500m

Input Voltage: 12 to 24 v

USBL (Ultra-short baseline) is a method of underwater acoustic positioning that SeaView Systems uses for tracking its subsea equipment while working from a ship. When transponders are fitted to the ROV and ROV garage, the USBL system calculates their position by measuring the range (distance) and bearing from a transceiver mounted to the ship. Computer software then combines this data with the ships attitude, heading and GPS sensor information.

Range is calculated by measuring the time taken from sending a transponder interrogation signal to receiving its reply. Bearing is derived by comparing the small differences in the time of arrival of the reply signal at different receiver elements within the transceiver.



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