

APPLICATIONS

- Positioning of towed arrays
- Navigation and positioning of divers/ROV
- Monitoring of underwater constructions



USBL POSITIONING

PRECISION TARGETING

Underwater positioning via USBL (Ultra Short Baseline) supports diving operations and improves accuracy of subsea measurements.

 **EGGERS**
EGGERS GRUPPE
KAMPFMITTELBERGUNG

☎ Telefon: +49 (0)4109 2799-156
✉ info@eggers-kampfmittelbergung.de
🌐 www.eggers-kampfmittelbergung.de

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Pole mounted transducer



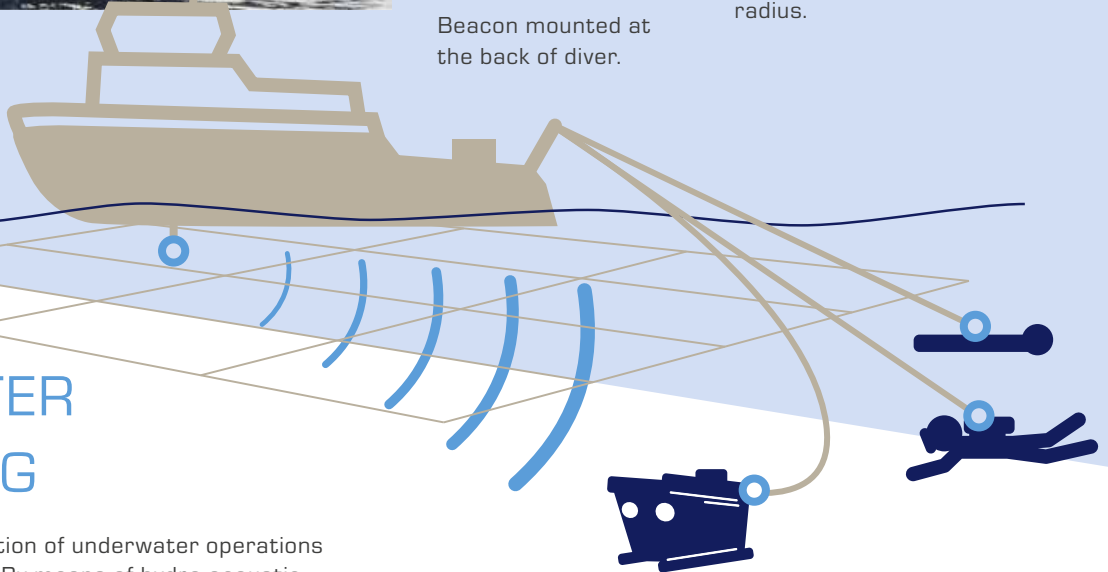
Beacon mounted at the back of diver.

Divers can be navigated to their desired destination even in poor visibility conditions. For UXO detection divers are navigated to anomalies from geophysical surveys to reduce their search radius.

UNDERWATER POSITIONING

Exact positioning and navigation of underwater operations has been a challenging task. By means of hydro acoustic systems, so called USBL (Ultra Short Baseline) systems, it is now an increasingly accurate possibility.

USBL uses acoustic pulses sent from a vessel mounted transceiver to a transponder fitted to the target and back. By measuring travel time and angle of these pulses the relative position of the transponder can be calculated. In combination with external devices like GPS and motion sensors the relative position of tracked objects can be provided by latitude and longitude values. These acoustic measurements allow the locating of different targets (towed systems like side scan sonar or magnetometer arrays, as well as divers or ROV) at the same time.



- Exact navigation for divers in spite of poor visibility conditions
- Permanent monitoring of all kinds of subsea operations