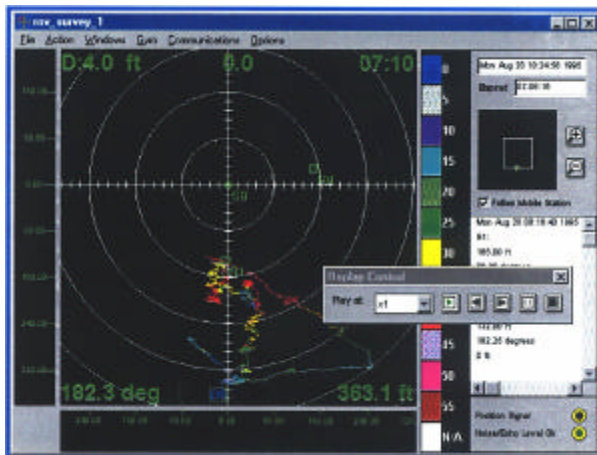


The sub-monitor Diver Tracking system does just what its name implies. It monitors and tracks military divers training underwater with closed circuit rebreathers or open circuit scuba's. Utilizing the latest acoustic short-baseline technology, the Sub-monitor surface station tracks up to 7 divers simultaneously in real time using the TLT series Target Locating Transponder. You not only see their relative position on a full color radar-like screen, but will be able to accurately monitor each target's range, bearing and depth.



Small and light weight, the TLT series Target Locating Transponders are designed to be mounted on a diver or vehicle. The TLT-2 Target Location Transponder, with its externally mounted transducer, gives the operator flexibility in locating the transducer on the diver. Powered by user replaceable batteries, both the TLT-1 and TLT-2 can allow the surface station to monitor a diver up to 500 meters (820 ft) away.

Designed for small boat operations, the Surface Station is housed in a rugged, water-tight carrying case and includes a rugged waterproof notebook computer with sunlight readable display. Battery operated, it can support continuous tracking up to 20 hours.

Using Windows driven software, with pull-down menus, the Surface Station is easy to configure. Simply deploy the three "over-the-side" sonar transducers and you are

tracking in real time. No matter what the job, the flexibility of the software makes tracking easy. The surface station allows you to record the entire operation for replay later, providing detailed analysis and improved planning for the next operation.

Yes, the **SUB-MONITOR™** Diver Tracking System is a complete turn-key package which offers all the features found in more expensive systems but at a fraction of the cost. Built for the rugged requirements of offshore use, the **SUB-MONITOR™** offers the dive supervisor a reliable and inexpensive way to monitor their training operations.



DS-1 Diver Station

These multi-function stations are used for diver navigation, diver tracking, e-mail style communication and electronic observation recording. Model DS -1 features a lighted graphic LCD display and a rugged magnetic keypad.



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SUBMONITOR™ Surface Station

Designed for small boat operations, the Surface Station includes all electronics and batteries incorporated in a carrying case. Range, bearing and depth are displayed for each target. The Surface Station is supplied with a rugged notebook computer, DiveBase software, power and data cable assemblies and three 16m transducer assemblies.



TLT Series Target Transponders

Small and lightweight, the TLT series transponders are designed for tracking divers training with close circuit rebreathers. Only 13mm long and 70mm in diameter, the TLT transponders can be programmed to seven different channels and are powered by six 'AA' size batteries, which last about 40 hours and are user replaceable.



Specifications

Tracking Technology:	Acoustic Short Baseline with Three "Over-the-Side" Transducers
Tracking Range:	500 Meters (1620 ft.) Typical, 1,000 Meters (3280 ft.) Maximum
Depth Rating:	200 Meters
Range Accuracy:	+/- 0.15 Meters Typical
Bearing Accuracy:	Dependent on Surface Station Transducers Separation +/- 1.3 Degrees Typical at 10 Meter Transducer Separation +/- 5.5 Degrees Typical at 2 Meter Transducer Separation
Depth Sensing Accuracy:	1% of Depth Rating
Position Update Rate:	.09 Seconds at Zero Range and 1.6 Seconds at 500 Meters
Targets Tracked:	Seven Maximum
Data Display:	RADAR and Chart Type Display with Zoom and Pan Capability. Depth Color Coded and Depth Profile Available with Bitmap and Vector Chart
Target Coordinates:	Range, Bearing and Depth
Surface Navigation:	Position of Surface Vessel Shown. GPS and Heading Sensor Supported.
Surface Station Power:	Internal Battery or 110/220 AC
TLT power:	Six 1.5 "AA" Alkaline Batteries

