

## SOUND SEEKER - SURVEY VESSEL

One of the most difficult tasks faced by marine contractors can be relating the subsurface terrain to their clients. While live video documentation from our commercial dive teams can provide an excellent window to the marine environment, this option may not always be the most feasible or economical option. To solve this dilemma, we offer several high-tech tools in our Hydrographic Survey package for accurately mapping, measuring, and locating targets within a marine environment to a high level of precision

Commissioned by us in October 2005, 'Sound Seeker' is a purpose-built vessel ideal for near-shore and inshore survey work of canals, lakes, reservoirs, rivers and estuaries offering the following advantages:

- Transportable by car on a road trailer to any destination
- A max speed of 12 knots reduces the passage times required
- Large wheel house provides ideal environment for Survey equipment
- Vessel is capable of operating in water depths as little as 1.4 metres



Surveys are primarily undertaken with an array of echo-sounders and survey-grade GPS position fixing equipment. In addition to this Sub-Bottom Profiling, Sector Scanning and SideScan sonar techniques can be employed to provide a fuller picture of the bed surface and sub-surface. Continuously logging tide gauges provide tidal corrections and current meters record direction and strength of flow. SideScan sonar images can also be retrieved during Multibeam Soundings

Our hydrographic survey staffs are all fully trained in boat handling and safety techniques and our boats are all trailer-launch able. Using the latest processing and communication equipment the data gathered on site is processed by on-board computers and a real-time display of the survey data obtained. The processed data can then be transmitted back to the office for checking and plot production. Final results can be presented as colored contour plots, sections, or full three-dimensional models for manipulation. Volumes can be calculated against previous surveys, design surfaces or dredging profiles.

## Technical Specifications

<b>Vessel name</b>		Sound Seeker
<b>Type</b>		Inshore Survey
<b>Operator</b>		MarCon Teknik AB
<b>Port of reg/flag</b>		Malmö, Sweden
<b>Built/rebuilt</b>		2001/2005
<b>Length overall</b>		7.0m
<b>Breadth moulded</b>		2,55m
<b>Draught loaded</b>		0,7m (with sonar head deployed)
<b>Weight</b>		2300 kgs
<b>Speed</b>		12 knots
<b>Aft Deck</b>		2.4m x 2.4m
<b>Engine</b>		2*30hp 4 stroke outboards
<b>Electrical power</b>		1 generator. 3Kva
<b>Navigation aids:</b>	Satellite	Leica SR530 RTK GPS
	Radar	Simrad RA 30
	Autopilot	Furuno autopilot Navpilot-500.
	Gyro	Exsea Octans III
<b>Communications:</b>	VHF	Simrad RD 68
<b>Accommodation:</b>		1 large tempered wheel house
<b>Survey systems:</b>	Positioning	RTK. DGPS – NaviPac/NaviScan Leica SR530
	Sensors	Singlebeam dual frequency echo sounder – Hydrostar 4300 Reason Seabat 8101 multibeam echo sounder with option for side Scan sonar snippets Exsea Octans III Fog Gyro with Pitch, Roll and Heave