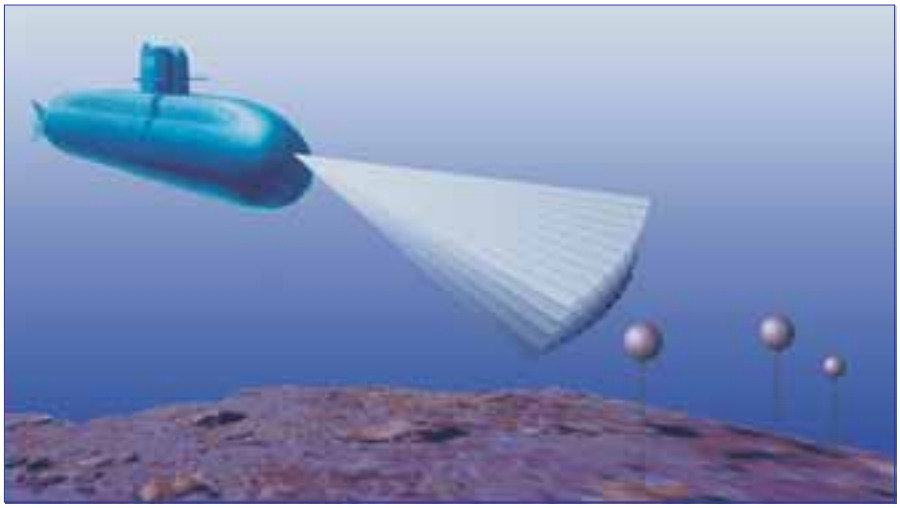
communications
ELAC Nautik

SCOUT

Mine Detection and Obstacle Avoidance Sonar NDS 3070 for Submarines

- Navigation
- Detection
- Collision Avoidance
- Obstacle Avoidance
- Mine Avoidance
- Dual frequency sonar
- Long range LF mode combined with high resolution HF mode
- 2D LF and 3D HF forward looking active sonar
- Interfaces for log, compass, sound velocity, roll and pitch, printer
- Designed to meet defense standards
- Stand-alone or integrated into combat systems



More than 70 years of experience in sonar system development lead to an innovation which will increase the safety of your Navy forces in war and peacetime even under bad conditions. The German and other Navies will use this new system to increase the survivability of their submarines and surface ships. From the beginning ELAC Nautik focused its developments on performance, reliability, easy handling and COTS technology.

The Navigation and Detection Sonar SCOUT is a versatile active/passive sonar system, conceived for use on submarines and other submersible vehicles.

The system is designed primarily to detect mines but will also be used to detect other moving or stationary underwater objects.

It can be utilised as a navigation sonar, e.g. during a submarine's surfacing manoeuvre, or as a navigational aid in narrow or dangerous waters. In addition, a passive mode is also available to detect and receive sonar signals and underwater noise over a wide frequency range.

HF mode 90°

LF mode with history

HF mode with target depth indication

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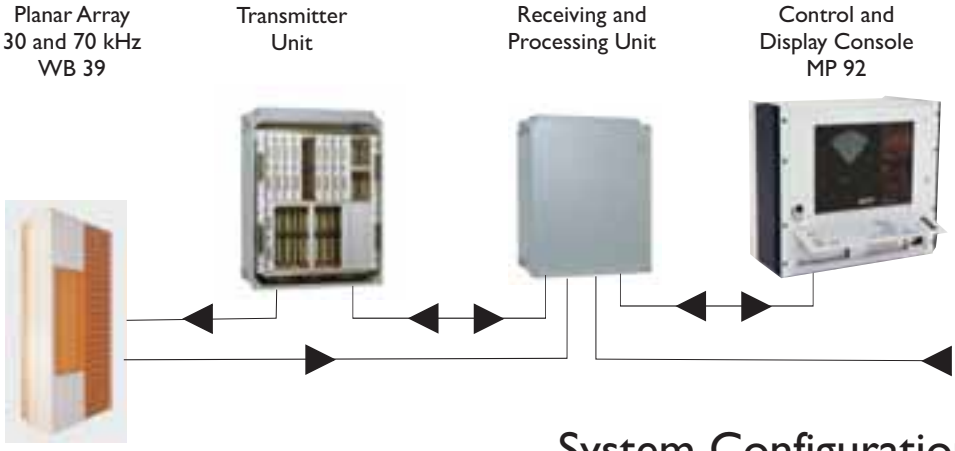

System Configuration

Technical Data

Operating frequencies		
active mode:	30 kHz (LF) and 70 kHz (HF)	
Measurement ranges:	100, 500, 1000, 2000, 3000 m	
Typical detection ranges	30 kHz	70 kHz
mines:		850 m
obstacles:	2800 m	1200 m
small submarines:	3000 m	1450 m
Bearing accuracy LF:	< 1,5°	
Bearing accuracy HF:	< 1°	
Weight typical configuration:	w/t array approx. 236 kg	

Technical data are subject to change without notice.
Version 04/2005

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