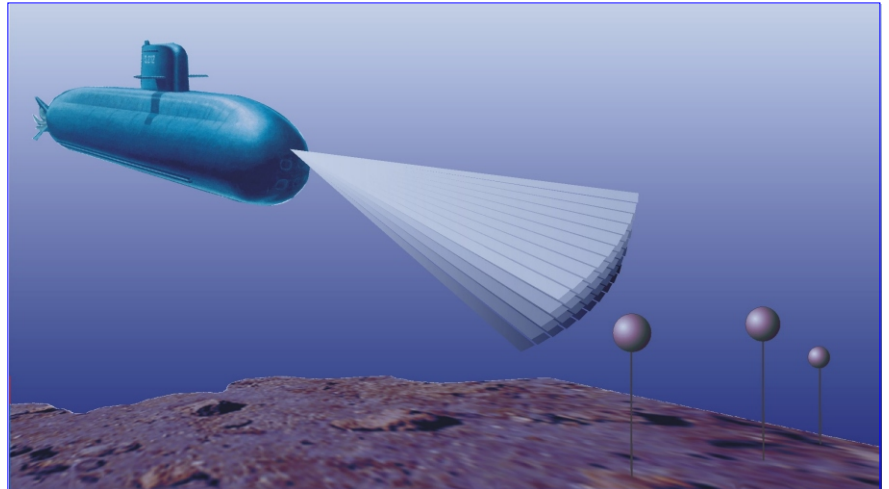




SCOUT

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

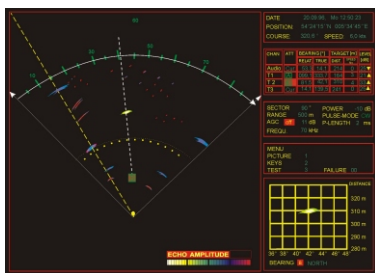


More than 70 years of experience in sonar system development lead to an innovation which will increase the safety of your Navy forces in war and peacetime even under bad conditions. The German and other Navies will use this new system to increase the survivability of their submarines and surface ships. 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.

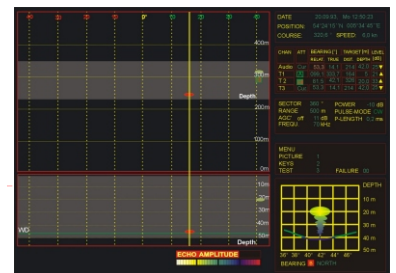
It can be utilised as a navigation sonar, e.g. during a submarine's surfacing manoeuvre, or as a navigational aid in narrow or dangerous waters. In addition, a passive mode is also available to detect and receive sonar signals and underwater noise over a wide frequency range.



HF mode 90°



LF mode with history

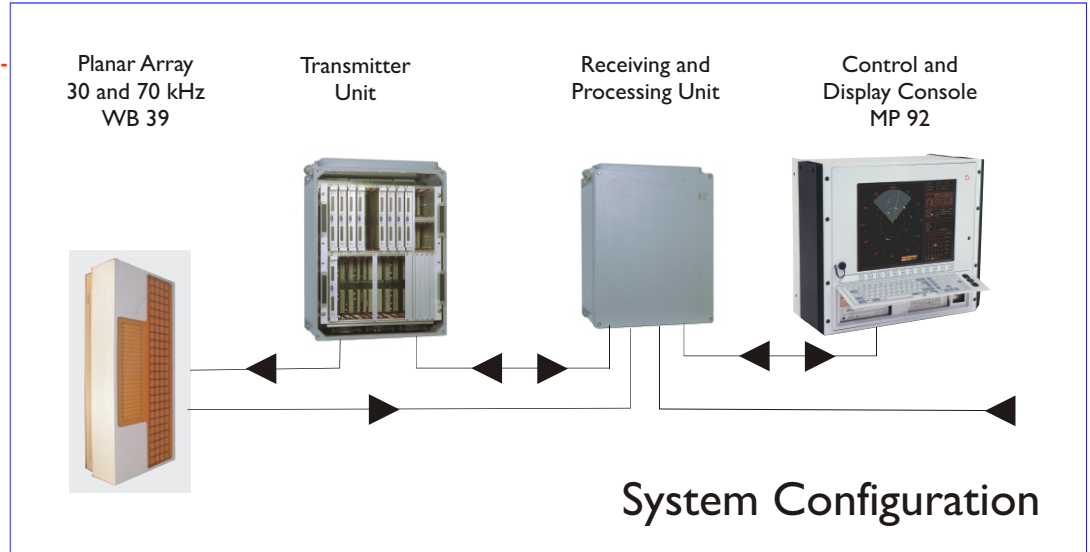


HF mode with target depth indication

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Technical Data

Operating frequencies active mode:	30 kHz (LF) and 70 kHz (HF)
Measurement ranges:	100, 500, 1000, 2000, 4000 m
Typical detection ranges	<u>30 kHz</u> <u>70 kHz</u>
mines:	1700 m 850 m
obstacles:	2800 m 1200 m
small submarines:	3600 m 1450 m
Bearing accuracy LF:	< 1,5°
Bearing accuracy HF:	< 1°
Environmental conditions	
Shock:	i.a.w. BV 0430
Vibration:	i.a.w. BV 0440
Climatic resistance:	i.a.w. DEF-STAN 07-55
Temperature range operation:	-7°C to +45°C
Temperature range storage:	-40°C to +70°C
Protection (inboard equipment):	i.a.w. DIN 40 050
Electromagnetic compatibility:	i.a.w. BV 3012
Airborne noise level:	i.a.w. DIN45635 (A)
Reliability:	MTBF: Electronics > 1.800 hrs Transducer > 40.000 hrs
Power supply:	115V AC at 50/60 Hz
Power consumption:	approx. 800 VA
Display:	15" VGA TFT
Control and Display Unit	
Weight:	approx. 54 kg
Dimensions:	D 388 x W 515 x H 549