

# Passive Sonar System LOPAS 8300

- Ultra-compact passive sonar system
- Suitable for initial outfit and refit programs
- Flexible interfacing concept to integrate in existing environment
- Adaptation to various array geometries
- Windows based MMI
- BITE incl. insulation and sensitivity test of hydrophones
- Onboard simulator (optional)
- Raw data recorder (optional)



## HIGHLY FLEXIBLE PASSIVE SONAR

LOPAS 8300 is a passive sonar system for submarine application. Its compactness makes it the ideal choice for refits of conventional submarines or as initial outfit onboard of midgets and mid-sized submarines.

All processing, display and control electronics are fitted in one cabinet minimising the impact on the existing infrastructure and making the installation extremely easy. In addition the flexible interface concept reduces the cost and time needed for integration during a refit.

For newbuildings suitable arrays equipped with ELAC Nautik's hydrophones type KE 9 are available to be installed as circular or conformal array.

For refits there is no need to exchange the existing hydrophone array as LOPAS 8300 adapts to all kinds of arrays and hydrophones regardless of type, size, geometry and supplier.

New hydrophones supplied by ELAC Nautik can easily be fitted to the already installed hydrophone array.

Even though being the most compact system available the performance characteristics of LOPAS 8300 are comparable with those of bigger systems. The range of operational features cover:

- Broadband detection
- Automatic target tracking
- Classification
- Audio recording
- Ray trace
- TMA
- Torpedo warning
- BITE

Additional features like Onboard Simulator and Raw Data Recorder are optionally available.

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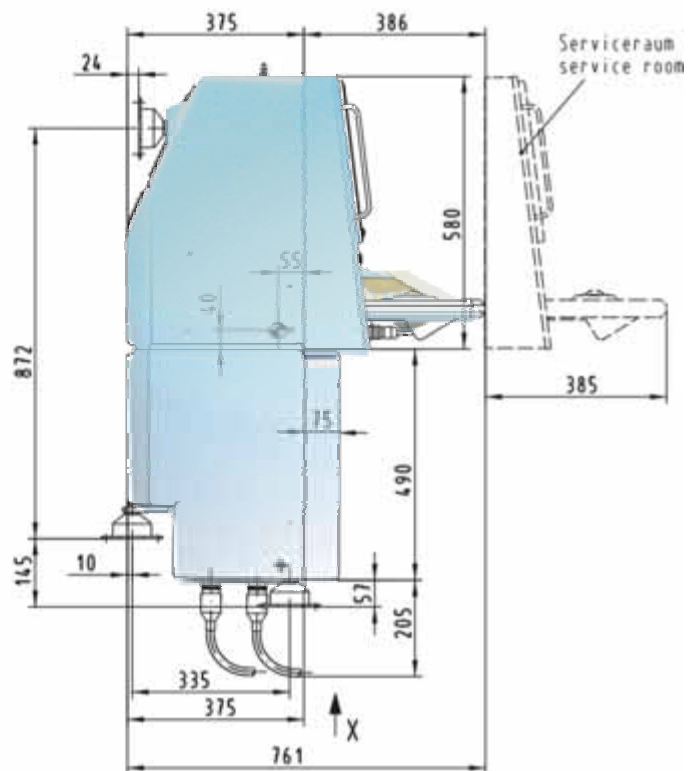
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## TECHNICAL DATA

Operating Frequency	0,3 kHz to 12 kHz
Number of Preformed Beams	96 (192 half beams)
Automatic Target Tracking	8 ATT channels
Integration Time	0,3 s to 19 s
History Presentation	10, 30, 60 min
Bearing Accuracy	≤ 0.5° (ideal conditions assumed)
Frequency of Audio Channel	0,3 kHz to 12 kHz
Frequency of UT-Channel	1 kHz to 12 kHz
Spectral Analysis	96 beams simultaneously
DEMON Analysis	YES
Data Recording	Audio (digital)
Power Supply	220V / 50 Hz single phase, 115VAC / 60 Hz / 660VA

## WEIGHT & DIMENSIONS

Mass: 190 kg ±20%



Technical data are subject to change without notice.  
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