

Sediment Echo Sounder (Innomar SES)



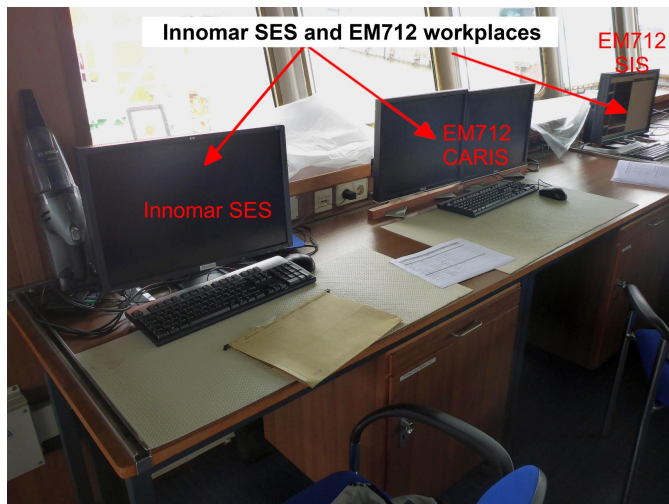
Attention:

Please note that operations of the Sediment Echo Sounder Innomar SES requires experienced scientific staff on board for permanent supervision of data acquisition and storage. The system is not operated by the ship's crew. Announce operations with the Sediment Echo Sounder to AWI-Logistics prior to the cruise and clarify the data transfer after the cruise.

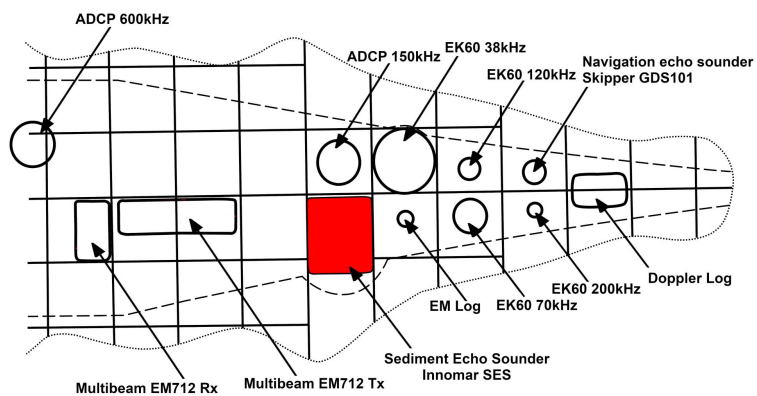
Summary

The Sediment Echo Sounder surveys the upper layers of the seafloor via the reflection of acoustic signals. Penetration of the sediment up to 70m can be achieved under good conditions. The system is operational up to 2000m water depth.

Manufacturer	Innomar Technologie GmbH
Model	SES-2000 medium-100
Serial No.	2021/09/F/88/E3
Type	echo sounder
REGISTRY-Link	REGISTRY (11194)



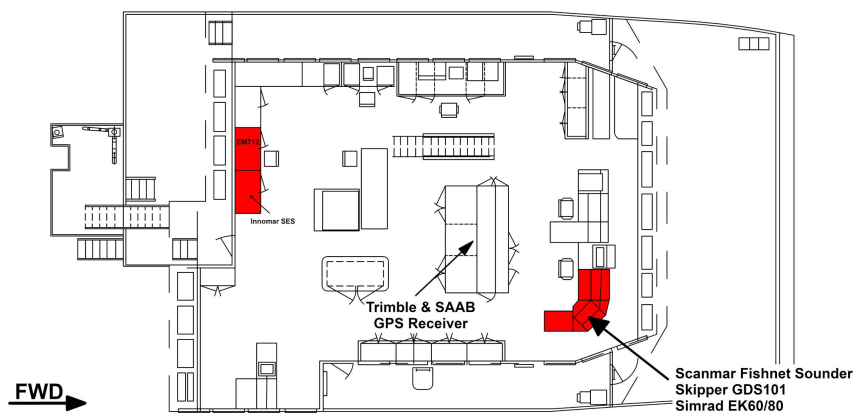
Position of devices in RV Heinckes keel



Innomar SES Electronics



Locations on RV Heinckes bridge deck



Transducer frequency

Contacts

Name	Institution	Role
FIELAX Support	FIELAX Gesellschaft für wissenschaftliche Datenverarbeitung mbH	Device Contact
Ralf Kroker	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Device Contact

Components

The SES system consists of the transducer, the main unit and a data acquisition PC. The software "SES for Windows" is installed on the acquisition PC. Furthermore two PCs with the processing software "ISE Post Processing Software for SES2000" are available on the bridge deck and in the Messraum.

Name	Model	Serial Number	REGISTRY-Link
Transducer of SES2000 SN e3082-4		E3082-4	REGISTRY (11195)

Position

No local frame definition available.

Data logging, storage and archiving

Logged parameters

Parameter	O2ARegistry Output Type	Unit
Two-way traveltime	time	ms
Depth, compacted	depth	m

Central geographical ship's position and time standard

Rawdata storage on board

DShip

Data archiving on land

Documentation

- [Innomar SES User Manual \(User Manual, 10 MB\)](#)
- [RV Heincke SubBottom Profiler Support Manual \(Article, 669 kB\)](#)
- [Innomar ISE Handbook \(User Manual, 6 MB\)](#)
- [Innomar SES2000 Quickstart \(User Manual, 154 kB\)](#)