

Fishing Echo Sounder (Simrad EK 60 / EK 80)

⚠ Attention:

Please note that operations of the Fishing Echo Sounder Simrad EK 60 / EK 80 requires experienced scientific staff on board and can be only operated on request. The system is not operated by the ship's crew. Request operations with the Fishing Echo Sounder Simrad EK 60 / EK 80 to AWI-Logistics in sufficient time prior to the cruise and clarify the data transfer after the cruise.

Data quality of Fishing Echo Sounder Simrad EK 60 / EK 80 is decreased by operating other Echo Sounders. Switch off these Echo Sounders for high data quality.

Summary

The sounder operates several frequencies simultaneously thus allowing to detect fish or even plancton in different depths.

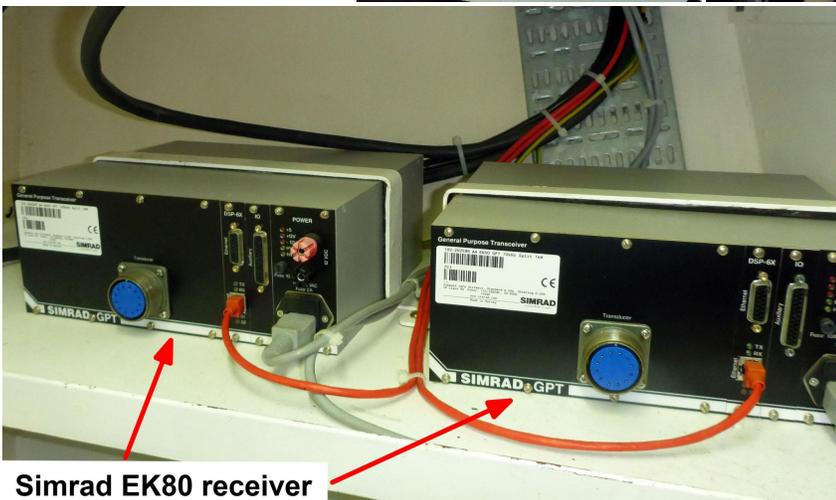
Manufacturer	Kongsberg
Model	Simrad EK 60 / EK 80
Serial No.	n/a
Type	echo sounder
REGISTRY-Link	REGISTRY (2350)



EK60 VGA Splitter



Location of EK80 computer

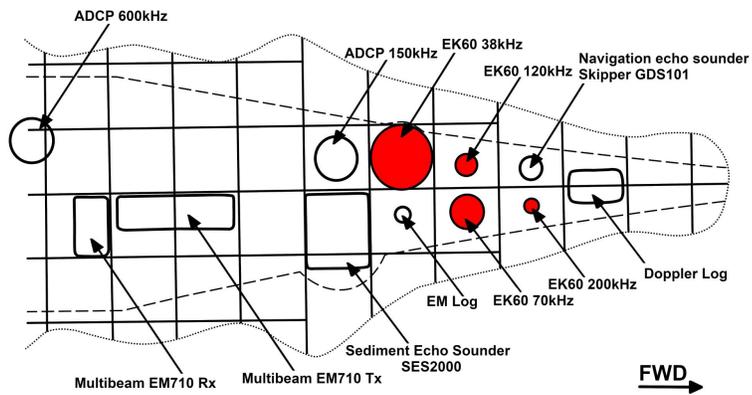


Simrad EK80 receiver

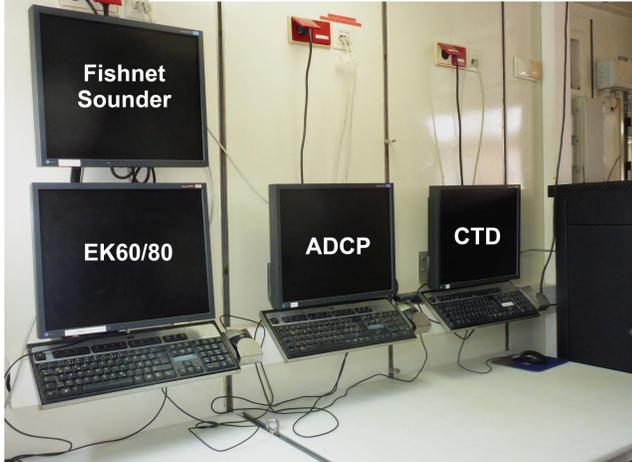
Simrad EK80 transceiver



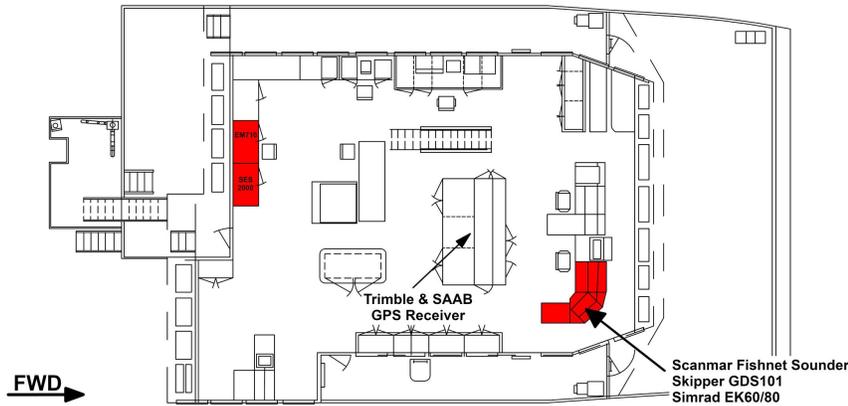
Position of devices in RV Heinckes keel



Work stations in Mess- und Registrierraum Operation units on bridge deck



Locations on RV Heinckes bridge deck



Transducer Frequency

Contacts

Name	Institution	Role
Sören Kräftefsky	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Data Scientist

Components

The four split beam transducer ES-38B, ES-70C, ES-120C and ES-200C are installed in the keel of RV Heincke. The transceiver and receiver are situated in the Lotgeraeteraum. Three PCs are available for handling of the EK60/80 on the bridge, in the Messraum and in the dry laboratory. Additionally a display is located in the wet laboratory.

The PCs are equipped with the acquisition and processing software ER60. For further processing the software "echoview" may be used. A dongle is required for usage of the software. The dongle is NOT permanently stored on the ship. Please contact the responsible person for usage of the dongle in advance of the cruise.

Name	Model	Serial Number	REGISTRY-Link
EK60 120 kHz transducer		WBT: 580699	REGISTRY (2521)
EK60 200 kHz transducer		WBT: 582193	REGISTRY (2523)
EK60 38 kHz transducer		WBT: 582157	REGISTRY (2541)
EK60 70 kHz transducer		WBT: 582166	REGISTRY (2522)

Position

I n fo	The transducer of the Fishing Echo Sounder system are situated in the keel of RV Heincke. Transceiver and receiver are located in the so called Lotgeraeteraum and the computers are stored in the Mess- and Registrierraum.
X	0.0 (no unit given) (no description given)
Y	0.0 (no unit given) (no description given)
Z	0.0 (no unit given) (no description given)

Data logging, storage and archiving

Logged parameters

Parameter	O2ARegistry Output Type	Unit
depth at different frequencies	depth	m

Central geographical ship's position and time standard

Rawdata storage on board

DShip

Data archiving on land

Documentation

- [Simrad EK60 brochure \(Factsheet, 4 MB\)](#)
- [Simrad EK60 manual \(User Manual, 4 MB\)](#)
- [Simrad EK60 \(Web site\)](#)
- [Simrad EK80 installation manual \(User Manual, 37 MB\)](#)
- [Simrad EK80 \(Web site\)](#)