

All scientific devices and systems - overview

The scientific devices onboard RV Heincke are subdivided into the categories [Echo Sounders](#), [Meteorology](#), [Oceanography](#), [Ship Navigation](#) and [Underwater Positioning Systems](#).

Echo Sounders

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Fishing Echo Sounder (Simrad EK 60 / EK 80)
Multibeam Echo Sounder (EM712)
Scanmar Fishnet Echo Sounders
Sediment Echo Sounder (Innomar SES)
Sound Velocity Probe (MIDAS SVP)
Sound Velocity Probe (Valeport Mini SVS)

Meteorology

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Hyperspectral UV-VIS Radiance Sensor (RAMSES)
Weather Station

Oceanography

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CTD Probe with Carousel Water Sampler
Flow Meter (PROMAG 50)
Fluorometer (ECO FL(RT))
Thermosalinograph

Ship Navigation

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Dual Axis Doppler Log (DO Log)
Electromagnetic Log (EM Log)
GPS Receiver DGPS SAAB R5
GPS Receiver Trimble Marine SPS461
Gyrocompass (NAVIGAT X MK1)
Motion Sensor (PHINS)
Navigation Echo Sounder
Ship Navigation Platform (NACOS)

Underwater Positioning Systems

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Global Acoustic Positioning System (GAPS)

Winch system

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Winch measuring system
Winches and cables

Information technology