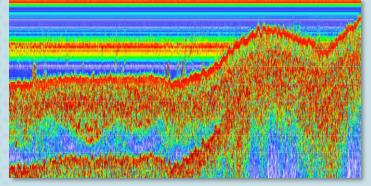
GENERAL

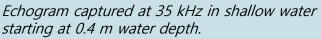
SUBPRO 2545 High-Performance Sub-Bottom Profiler for ASVs, ROVs and Shallow Water

The SUBPRO 2545's multi-frequency capabilities result in efficient surveys with extraordinary results. Its settings can be tuned to match specific applications like, soft sediment evaluation, sediment transport monitoring, detection of upper sediment layers.

Additionally, the high resolution of the system enables an outstanding detection of embedded objects. Optional additional receiver for even higher spatial resolution and ultra-shallow water surveys, starting at 0.25m.

With its compact size and weight as well as low power consumption the SUBPRO2545 is the ideal unit for integration into USVs, ASVs and ROVs.







ACOUSTICS

The SUBPRO 2545 in operation, integrated into an unmanned surface vehicle (USV).



The transducer of the SUBPRO 2545 mounted into the hull of the USV.

Easy Integration:

Optionally General Acoustics will provide the SUBPRO 2545 integrated in various USVs, ASVs and other vessels. Speak to us about your survey goals and we help you choosing a suitable platform including remote control, positioning and communications systems.

System Components

- One high quality, narrow beam, broad band transducer 25 to 45 kHz for in-hull installation or over the side operation
- SUBPRO-System in IP65 housing (optional 19" housing for 230VAC version).
- Integrated controller for triggering, transmitting, receiving, amplifying and real-time processing of signals, pps-module for time synchronisation, power supply
- Graphic display via external or in-boat PC (not included)
- Windows operating software SUBPRO-Studio, including raw data logging and real time post/re-processing, data conversion into SEG-Y, Hypack-ready, GPS (NMEA) input
- Transducer cable

GENERAL

Key Advantages

Very compact size and low weight, for USVs, ASVs, ROVs.

One single system for sub bottom, as well as **hydrographic surveying** tasks.

Ultra-shallow water capabilities, starting at 0.25m

Application Examples

Echogram captured at 45 kHz revealing a small 5 cm object in 2.5 m water depth on top of sand sediment, buried under a biological layer

Specifications

System

SUBPRO 2545

- Frequency: 25 to 45 kHz
- Transmit power: up to 2 KW peak (optionally 4 kW peak)
- Ping duration/ -rate: 80 µs to 1 ms / up to 20 Hz
- Dynamic Range: 160 dB
- Technical internal resolution: 1 mm (24 bit)
- Vertical resolution: < 5 cm (depending on settings)
- Penetration: more than 15 m (depending on material and settings)
- Power Supply: 24 VDC (optional 230 VAC only in 19" housing)
- Power consumption: 60 W
- Controller dimensions: 33 x 23 x 15 cm
- Controller weight: 8.5 kg

General Acoustics

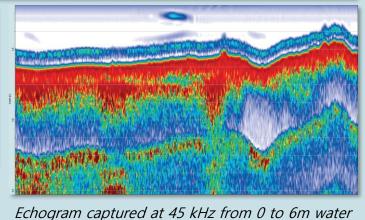
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Transducer

depth showing a clear view on the sediment layers.

- Broadband, 25 to 45 kHz, narrow beam
- Beam Angle: 9° at 25kHz, 6° at 45 kHz (Ø20 cm), 6° at 25 kHz, 4° at 45 kHz (Ø 30 cm)
- Size (Ø x h): 20 x 15 cm (optional 30 x 14 cm)
- Weight: 8 kg (18 kg for Ø 30 cm)
- Cable Length: 1m (longer on request)
- Optional separate receiver dimensions: 10 x 10 x 2 cm





Energy efficient operation and overall low power consumption for optimized battery size at autonomous survey platforms

ACOUSTICS

Suitable for all sizes of survey-vessels or ships, as a portable or hull mounted system.

Easy integration as a complete measuring system and survey system.