

DeepEcho Module

The DeepEcho Module is a long-endurance wide-band echosounder that can autonomously operate to a depth of 1000 meters.

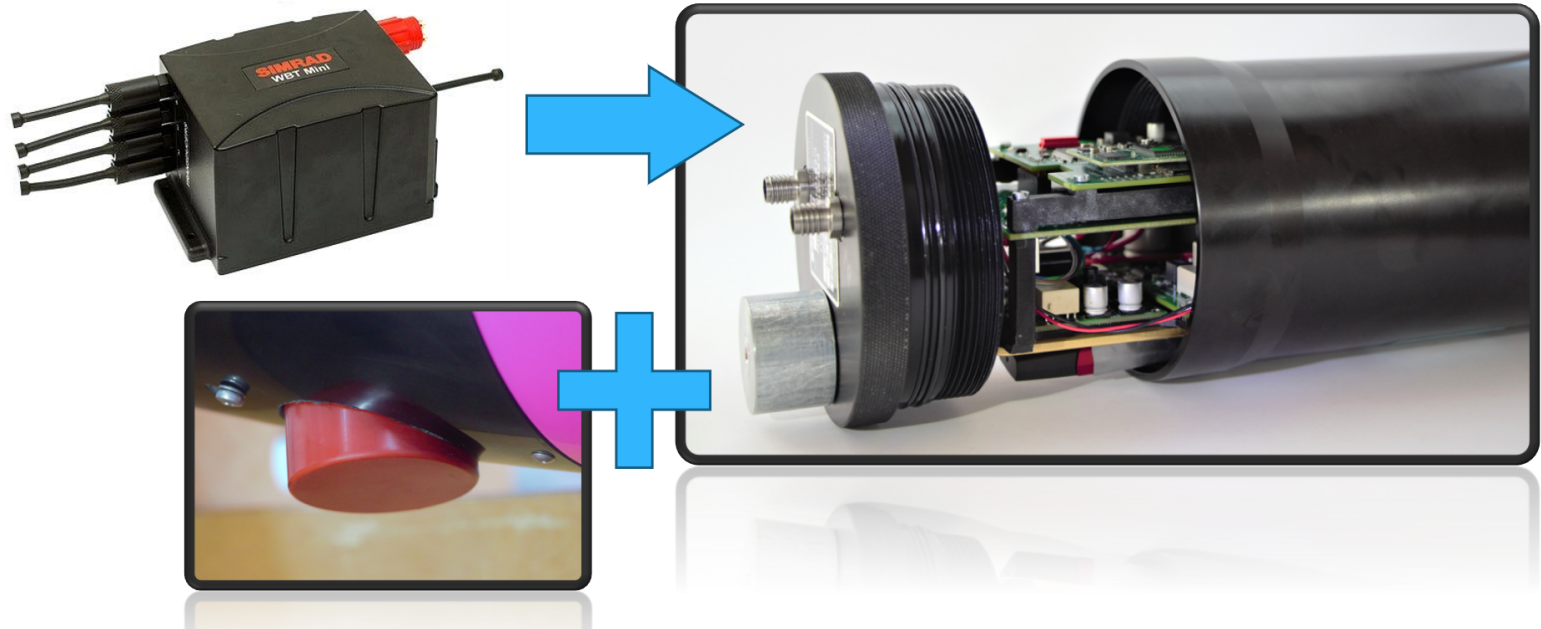
The echosounder operates on descent with the transducer facing vertically downwards.



DeepEcho Module Integrated with KM M1 Seaglider

Key Features

- ✓ Water properties & vertical current measured simultaneously
- ✓ Steady, bubble-free observing platform
- ✓ Low electronic & acoustic noise levels
- ✓ Expected Range: 50 meters



Cyprus Subsea redesigned the KM SIMRAD EK80 wideband transceiver (WBT) echosounder in order to fit in the M1 Seaglider payload bay. By reconfiguring the WBT electronics and placing them in a different geometrical configuration, these electronics fit into a cylindrical aluminium pressure housing. In addition to this reconfiguration, the design includes a 333 kHz single-beam transducer further streamlining the design by eliminating the need for one of the processing cards.

DeepEcho Module Applications

- + Autonomous, persistent bubble leak monitoring, discovery
- + Ship support minimized
- + Weather restrictions lifted
- + Ecosystem characterization
- + Deep, mesopelagic habitats now accessible
- + Organism avoidance minimized at all depths
- + Marine mammal prey, behavioral studies

Targets

- ✓ Bubbles
- ✓ Copepods
- ✓ Krill
- ✓ Fish Larve
- ✓ Micro & Macronekton (including Fish)

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