星天海洋
STARTEST MARINE



SoundTrack

Sound Velocity Profiler

Product Overview

SoundTrack is a compact and well-structured acoustic profiler dedicated to underwater investigations of offshore and inland rivers and lakes for the purpose of in-depth correction of single beam bathymetry, multibeam bathymetry beam angle correction, etc. SoundTrack uses time leap technology to provide acoustic data for mapping levels, equipped with bluetooth connections, chargeable batteries and integrated GPS modules to provide geographic information for each set of data. The data can be downloaded wirelessly through the Bluetooth module, and the data can be viewed and edited through the configured software.

[Product Features]



- Acoustic acoustic profile system.
- Lithium cells with a chargeable high capacity, full of which can work for more than 24 hours in a row
- Magnetic switches, long life and good corrosiveness.
- LED lamps indicating power, GPS and Bluetooth state
- Bluetooth module, which allows the equipment to communicate wirelessly with computers
- GPS module, geographical classification of data
- Large capacity storage card to store up to 256 file data, 1 million data sets

[Applications]

- Underwater mapping, offshore, inland, etc.
  - Hydrological surveys of lakes, ponds and rivers
- Scientific research
  - Marine engineering
- Acoustic rectification
  - Single beam bathymetry.
  - Multibeam bathymetry.
  - USBL
  - Image sounds.

[Software Specifications]

- 2 Auxiliary Sensor Configuration Software
- Configure Partial Parameters
- Achieving access to and storage of raw data from profilers
- Acoustic profiler data smoothed and thind and stored

[Equipment Components]

The system collects data from the acoustic profiler probe, which is recorded in the internal storage card and is transmitted to the user via bluetooth after the acoustic profiler leaves the water surface

Personal computers.

The reading of measured data on acoustic speed, temperature and depth requires the use of personal computers and the operation of acoustic measurement and processing software provided by the manufacturer with the acoustic profiler.

[Technical Specifications]

Acoustic speed range	1410~1700m/s
Acoustic speed measurement precision	Better than 0.1 m/s
Sound speed measurement resolution	≤0.001m/s
Depth measure range	0~500m
Depth measure precision	Better than 0.2 per thousand x D
Depth Resolution	≤0.01m
Temperature measure range	Better than 0 ~ 40°C
Temperature Measurement Resolution	≤±0.001m/s
Temperature measurement precision	≤0.1℃
Sample Rate	Better than 0.5 m (set-deep trigger)
Supply Voltage	220VAC±10%，50Hz±5%
Power	≤1W
Pressure-resistant depth	500 m/6000 m (modifiable)
Time of renewal.	≥24h
Dimensions	≤ϕ80mm×400mm
Weight	≤3kg
Water connector	One.
Power plugs.	One.
Connect to cable	≥1.5m

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