



The new HY1603 is a portable intelligent echo sounding system designed by Haiying Marine. Adopting all-in-one structure, the system integrates computer, digital signal processing and graphic imaging technology to realize the perfect combination of echo sounder and computer platform. One case in hand, you can survey anywhere anytime.

Featuring intelligent detection, identification and locked tracking to the dynamic signals, the embedded Haiying Star acquisition and post-processing software can automatically monitor and control the whole process of survey, display and store depth data and images in real time ensuring its high-level accuracy and reliability. Meanwhile, the state-of-the-art software makes sure both hydrographic survey and navigation can be conducted at the same time. A PPS interface is integrated into the system for synchronizing depth and GPS data. Housed in a rugged, lightweight and portable carry-on case, the HY1603 can be easily deployed on small survey vessels and opportunistic platforms, and widely used for bathymetric surveys in rivers, ports, coastal areas or other complex conditions.

HY1603 All-in-one Portable Echosounder

Features



All-in-one design
IP67 protection grade



Innovative and intelligent design
Self-adaptive signal control



Real-time monitoring
PPS interface for time synchronization



17" large LCD screen
Ultra high pixel design



Internal lithium battery
External power supply



Acquisition and post-processing software
Interfaced with other sensors

Configuration

- Main unit, transducer, Haiying Star software, User manual



Specifications

Transducer

- Frequency : 208kHz \pm 1kHz
- Beam width: 8° \pm 1°
- Depth range: 0.15m~300m
- Pulse width: 0.1~0.5ms
- Output power: 4 channels adjustable
- Accuracy: 1cm \pm 0.1%d (d is the measured depth)
- Ping rate: Max.20Hz
- Phasing: Automatic change
- Gain: Manual/Automatic change, 0~40dB
- SV range: 1400m/s~1600m/s
- Output format: NMEA DBT, NMEA DBS, DESO 25, ODOM, SDH13D
- Dimension: 22m(L)X11cm(W), 10m Cable (standard)
- Weight: 2kg

Main Unit

- Operating system: Windows 7, 1.99GHz Intel core CPU, 8GB Memory
- Hard disk: 240GB SSD (expandable)
- Built-in: Haiying Star acquisition and post-processing software (optional)
- Display: 17" large-sized LCD
- Internal Battery: 12V rechargeable battery, continuous working hours \geq 8 hours
- Input Power: 12VDC or 220VAC
- Interfaces Com: 1 x LAN, 2 x USB, 2 x RS422, 1 x BNC, transducer com, power com
- Dimension: 50.2cm(L) x 40.0cm(W) x 18.8cm(D)
- Weight: 13kg

