# **SPECIFICATIONS**

**AUTHORIZED DISTRIBUTION PARTNER** 

Echo Sounder Ver.2025.09.15

200kHz
30Hz
0.3 - 200m
±1cm + 0.1% h (h: Water Depth)
1cm
1300m/s - 1700m/s
6°
300W
5W
NMEA: SDPT/SDDBT
Linux
RS232 / Transducer Interface
Power Button
BT5.0, backward compatible with BT2.x
3400mAh, operating time 8 hours
DC9~28V
1.2kg
Main Unit: 137×72×50 mm,
Transducer: D70 mm × H105 mm
Probe: 316 Stainless Steel
IP67
Storage Temperature: -40°C to +70°C
Operating Temperature: -20°C to +60°C





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# HYD10 Portable Echo Sounder

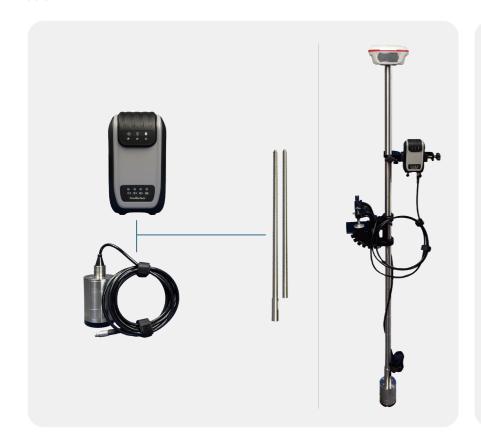
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## **HYD10 PORTABLE ECHO SOUNDER**

The HYD10 is a new-generation portable echo sounder developed by ComNav. Compact in design, it enables automatic depth measurement. With advanced algorithms and high signal-to-noise circuit design, it supports RTK data input and runs on a Linux-based industrial platform with a rugged and stable structure to ensure reliable performance.

Working with the "Survey Master" Android software, the HYD10 supports mobile operations and 64GB storage on a field controller, with real-time online map display to free fieldwork from bulky computers. It supports 200kHz high-precision measurements, balancing accuracy and environmental adaptability.

## **>>>** COMPOSITION



## Survey Master Software Highlights

Navigation and data collection capabilities

Multiple output formats, including customizable options

Flexible planned line module with adjustable intervals

Comprehensive data corrections: coordinates, water level, draft, sound velocity, time delay

High performance with up to 30Hz ping rate for maximum efficiency

## >>> SOFTWARE INTERFACE



The software interface is designed with a user-friendly approach, eliminating redundant function buttons.

Core operations—such as starting depth measurement, connecting devices, and viewing data—are clear at a glance, enabling users to operate it proficiently without professional training.

#### **High Accuracy**



Equipped with next-generation ultrasonic depth measurement technology, the system achieves depth errors within 10 mm with significantly enhanced resolution. It precisely identifies shallow variations and underwater obstacles, ensuring reliable data.

#### **Wireless Convenience**



Stable Bluetooth connects the main unit with mobile devices without cables, while WiFi enables fast RTK integration. This replaces the traditional "main unit-transducer-RTK" wired setup, avoiding cable breakage or poor connections and making fieldwork easier.

#### **Durable and Reliable Protection**



IP67-rated dust and water resistance, tested with 96-hour cyclic salt spray.

#### **Lightweight and Portable**



Unlike traditional bulky echo sounders that require heavy external batteries, the HYD10 is purpose-built for portable hydrographic surveys. Its compact design makes it easy to carry and significantly reduces workload in the field

#### **Integrated Functions**



The software integrates both RTK surveying and hydrographic modules. Underwater depth measurement and RTK ground point surveying are seamlessly combined, eliminating the need to switch systems and enabling efficient "depth + positioning" operations.

### **User-friendly Software Support**



The accompanying software provides navigation, data collection, and multiple output formats for survey results.

## **>>>** APPLICATION







Submerged terrain mapping



Channel surveying



Lake depth measurement