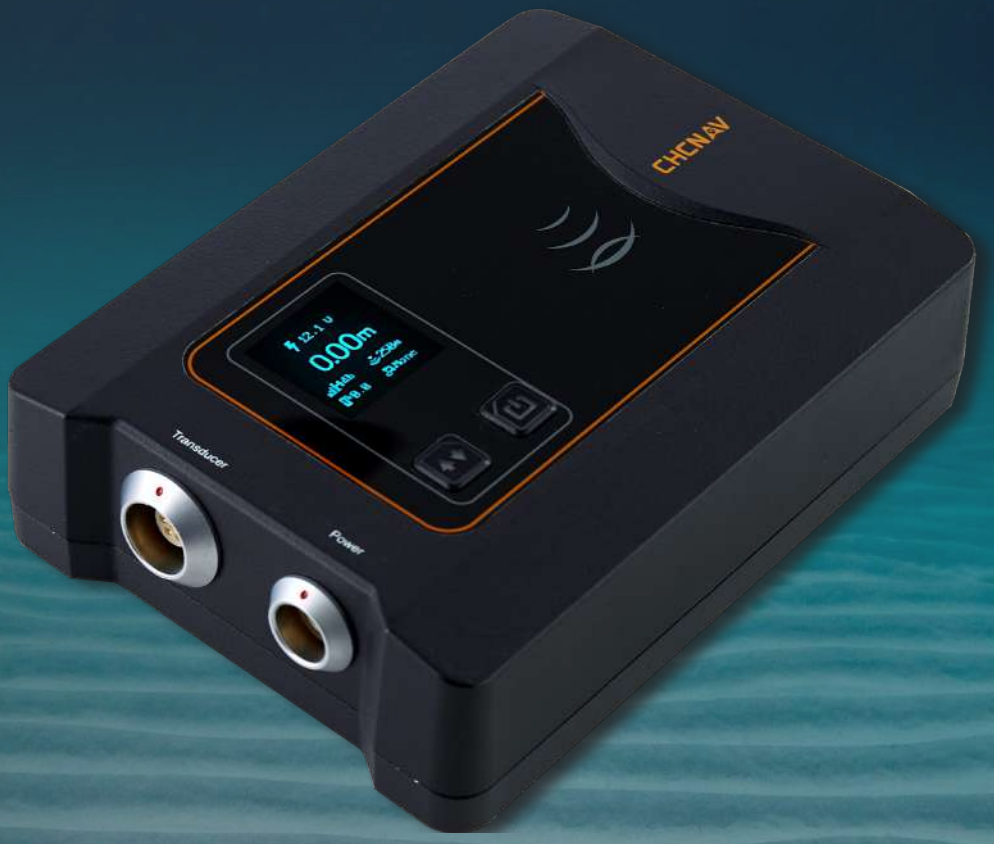
CHCNAV

D270

SINGLE-BEAM ECHO SOUNDER



MARINE SURVEY
& CONSTRUCTION

CHCNAV

SINGLE-BEAM ECOSOUNDER FOR BATHYMETRIC SURVEY

D270 is a portable, single beam echosounder that integrates a built-in water temperature sensor to enable real-time correction of sound velocity in response to temperature changes, resulting in superior depth measurement accuracy.

The D270 echosounder is a cost-effective solution for a variety of applications, including river cross-section measurements, reservoir capacity assessments, and dredging volume analysis.Operating on a Linux platform, the D270 features intuitive web-based parameter configuration and seamless chart plotting, simplifying survey tasks and improving efficiency. With 8GB of internal memory, it provides ample data storage for even the most extensive bathymetric surveys.

VERSATILE SINGLE BEAM ECHO SOUNDER

The D270 is a complete package consisting of the D270 controller, a transducer with built-in temperature probe, and its mounting mast. Operating at a frequency of 200 kHz, the D270 provides a maximum depth measurement capability of 200 meters. Its wireless connection to an optional GNSS RTK receiver is ideal for high accuracy bathymetric surveys. The D270 is particularly well suited for river cross-section surveys and reservoir capacity assessments.

GREATER CONVENIENCE AND EFFICIENCY

Bluetooth and Wi-Fi connectivity enhances both convenience and efficiency by enabling wireless setup when used with an optional GNSS receiver. Integrated connectivity streamlines wireless communication and data transfer, increasing workflow efficiency and ensuring seamless bathymetric surveying operations.

INFORMATION AT A GLANCE

The D270's OLCD display provides a quick and comprehensive overview of vital data, including voltage status, water depth and GNSS satellite tracking. Users can easily switch to view additional information such as water temperature, sound velocity and draft, making it a versatile and user-friendly way to effectively monitor operations.

ENHANCED OPERATIONAL SAFETY

By giving operators immediate alerts of shallow water and data anomalies, the D270 significantly improves operational safety. Its proactive workflow ensures safe operation and reliable results when conducting bathymetric surveys, even in challenging environments.

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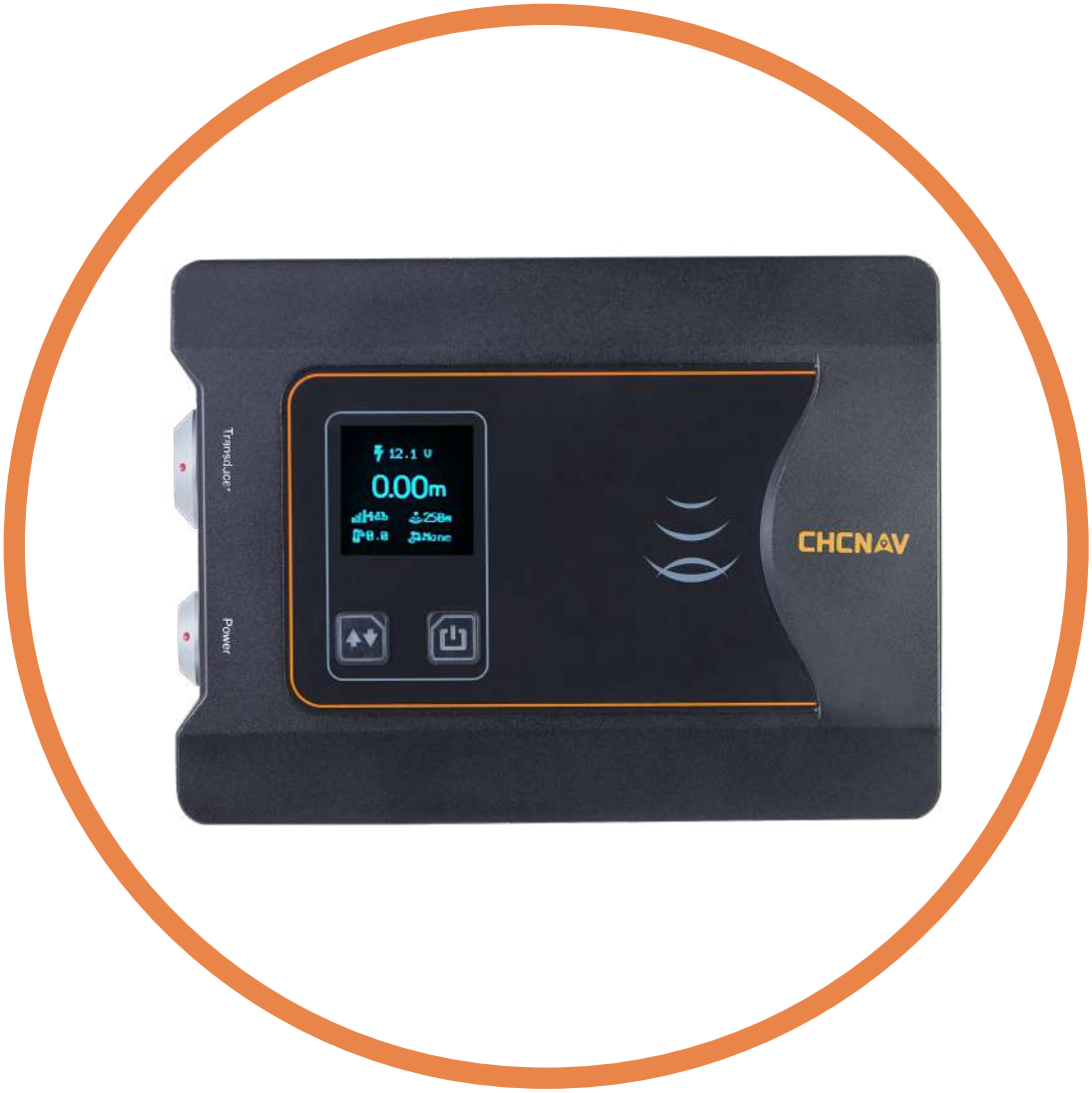

DESIGNED FOR BATHYMETRIC SURVEY

SPECIFICATIONS

Measurement Parameters	
Frequency	200 kHz
Beam Width	6.5°±1° (200 kHz)
Depth Range	0.15 m to 200 m
Resolution	0.01 m
Accuracy	± 0.01 m + 0.1% x D (D = water depth)
Maximum sample rate	30 Hz
Sound velocity adjustment range	1300 m/s to 1700 m/s

Electrical	
Maximum transmit power	300 W
Power consumption	10 W
External power	10-36 V DC / 100-240 V AC

Communication	
Operating system	Linux
Web page	Support PC/Mobile web pages/ Android APP
Ports	RS232 / Network port / Transducer port
Wi-Fi	802.11n - 2.4 GHz
Bluetooth	BT5.0, compatible with BT2.X
Data format	CHCNAV, NAME SDDPT/SDDBT, Original waveform
Storage	8 GB, support host to store water depth data
Voice prompt	Support shallow water tips
Water temperature sensor	-55°C ~ +125°C, real-time correction of the sound speed

Physical	
Size (L x W x H)	25.7 cm × 12 cm × 6.4 cm (transducer)
Weight	0.84 kg (host) 2.15 kg (transducer)
Environmental	Operating temperature: -20°C ~ +60°C (-4°F ~ +140°F) Storage temperature: -40°C ~ +70°C (-40°F ~ +158°F)
IP Rating	IP67
Material	Aluminum Alloy
OLED display	1.46 inch, resolution (of a photo) 128 x 128

* All specifications are subject to change without notice.
(1) Operating time varies based on temperature. Specifications are subject to change without notice.

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