

CHCNAV Echo sounder D390

TURNKEY HYDROGRAPHIC SOLUTION

Cut down mission mobilization cost by 20%

The D390 is a fully integrated and affordable single frequency echo sounder solution combined with the performance of an industrial PC. Light, portable and with a rugged IP66 aluminum alloy enclosure, the D390 is easy to set up and to deploy in any remote location.



SIMPLIFIED SURVEY OPERATION

Fast learning curve

HydroSurvey7 manages your project within a single intuitive software from positioning and navigation to data acquisition and data processing and export in CSV format.



STANDARD DGNSS AND SENSORS INTERFACES

Full compatibility with NMEA data

The D390 is easy to pair with any GNSS RTK receiver outputting standard NMEA messages and offers enhanced compatibility with CHCNAV GNSS receivers.



ULTRA-FAST STARTUP WITHOUT LAG TIME

Achieve maximum productivity and save survey time.

The embedded Windows 10 operating system provides fast boot and total operation stability. The D390 allows you to start your survey rapidly, save time and enable you to achieve results faster.

SPECIFICATIONS

MeasurementParameters	
Frequency	200kHz

Output Power	500W RMSmax
Depth Range	0.15m to 300m
Accuracy	±0.01m+0.1% of depth
Resolution	0.01m
Sampling Rate	Up to 60Hz
Draft Adjustment	0m to 9.9m
Sound Velocity Adjustment	1300m/s to 1700m/s
Data Output	-User defined -CHCNAV -NMEA SDDPT/SDDBT -Original Waveform
Display	12-inch resistive touch screen
LCD Resolution	HD 1024×768 pixels
Interface	-2xRS-232 serial ports -2xUSB3.0 ports -2xUSB2.0 ports
RAM	4GB DDR3L 1600MHz
ROM	32GB
CPU	1.6GHz
Power Consumption	25W
Physical	
Size(LxWxH)	36.5cm×25.8cm×0.95cm
Weight	4.7kg
Pulse Power	300W
Input Power	10V DC to 30V DC
Operating Temperature	-30°C to +60°C(-22°F to +140°F)
Ingress Protection	IP66

OVERVIEW

The D390 is a cost-effective and rugged bathymetric solution that uses an advanced 200 kHz transducer to match different hydrographic conditions and significantly improve sounding performance and usability. The 7-degree beam angle provides focused directional and lateral resolution. In addition, the water depth recording frequency can be as high as 60 Hz. Using pulse width discrimination and automatic redundant data suppression enhance data accuracy and reliability.

Easy to operate with its feature-rich CHCNAV HydroSurvey software, the D390 clearly displays real-time depth readings and the survey project parameters on its 12-inch HD touch screen. The standard serial interfaces for motion sensors and GNSS differential receivers allow centimeter position precision.