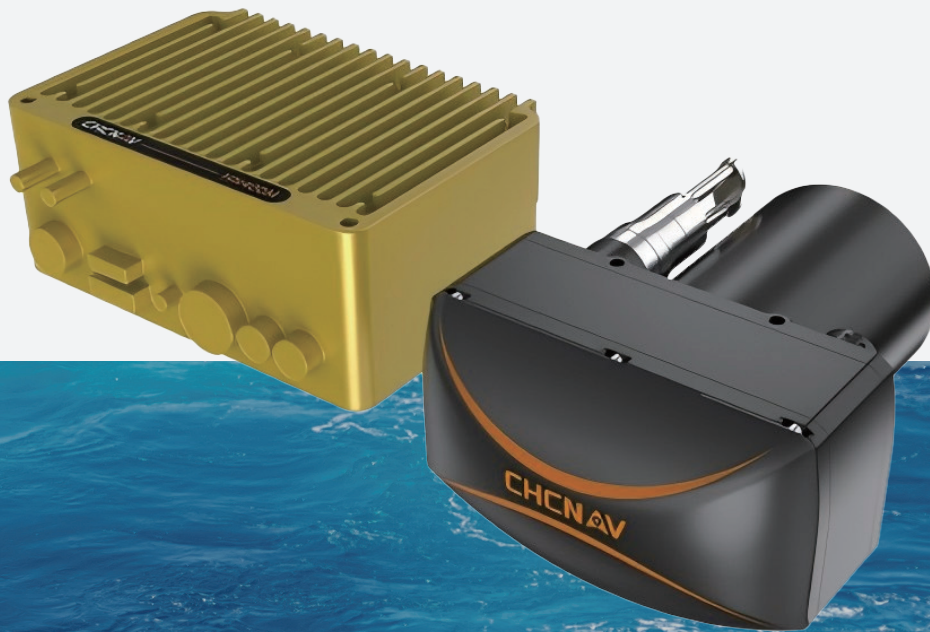


HN-400M

Multibeam



High Accuracy
Broad Coverage



Compact & Versatile
Deployment



Simple Android-
Based Control



Fully Integrated
Survey-Ready

➤ HN-400M Multibeam

The HN-400M, developed by CHC Navigation, is a next-generation integrated multibeam echosounder solution. It combines high-precision positioning, IMU, and surface sound velocity sensor into a compact, calibration-free system. Engineered for high accuracy, portability, and ease of use, it delivers efficient operation and reliable performance in port engineering, marine surveying, hydrographic research, and other complex aquatic environments. The HN-400M adapts seamlessly to both unmanned and manned vessels.



➤ SPECIFICATIONS

Swath Coverage	145° ⁽¹⁾
Number of RX Beams	512
TX Beam Width Along-Track	1.45° ⁽²⁾
RX Beam Width Across-Track	1±0.1° ⁽³⁾
Range	0.2 - 200 m ⁽⁴⁾
Frequency	400 kHz/550 kHz
Ranging Resolution	< 10 mm
Beam Distribution	EA & ED
Roll Stabilization	Yes
Pressure Rating, Sonar Head	60 m
Position Accuracy	HOR: ±(8 mm + 1 ppm) VER: ±(15 mm + 1 ppm)
Heading Accuracy	0.08° (RTK) with 2 m Antenna Separation
Pitch/Roll Accuracy	0.03° Independent of Antenna Separation
Heave Accuracy	2 cm or 2% (TRUEHEAVE™); 5 cm or 5% (Real Time)
Ping Rate	50 Hz
Weight W. Bracket	Air: 3.5 kg Water: 1.2 kg
Dimensions	191 mm × 111.5 mm × 179 mm
Calibration-Free Installation	Yes
Software Compatibility	EasySail, CMS, CoSail, BeamworX, Hypack, QPS, EIVA, Caris
Power Consumption	50 W

(1) Roll stab is limited to 130° swath.
(2) This is the beamwidth at 550kHz; the beamwidth at 400kHz is 2°.
(3) This is the beamwidth at 550kHz; the beamwidth at 400kHz is 1.3°.
(4) Dependent on water temperature and salinity.

*Specifications are subject to change without notice.
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