



NaviSound 400

Hydrographic Survey Singlebeam Echosounders



NaviSound 400

- **High ping rate (20Hz at 15m) for faster survey speeds**
- **Easily configured frequency selection**
- **Multiple bottom digitizing with single frequency for sediment and vegetation surveys**
- **Simultaneously support for dual channels on selected models**
- **High performance, easy-to-operate**
- **Supports depths up to 6000m**
- **Universal power supply**

RESON's NaviSound 400 Series are portable singlebeam echosounders that offer premium features and support depths up to 6000m. With a selection of models, the NaviSound 400 Series supports a wide range of hydrographic survey applications.

NaviSound 400 echosounders provide reliable depth measurement and convenient, easy-to-operate capabilities. Premium features include: built-in thermal paper recorder with large print area, universal power supply, and simultaneous, dual-channel operation on the NaviSound 420. The rugged NaviSound 400 enclosure also provides the highest possible water resistance. An affordable side-looking sonar (SLS) option that records dual-sided imagery is also available for all NaviSound 400 Series models.

Individual NaviSound 400 models are as follows:

- **NaviSound 410:**
Enhanced hydrographic echosounder that supports single channel operation
- **NaviSound 415:**
Enhanced hydrographic echosounder that supports alternating frequency operation
- **NaviSound 420:**
Enhanced hydrographic echosounder that supports simultaneous, dual channel operation
- **NaviSound 420DS:**
Deep-sea hydrographic echosounder that supports simultaneous, dual channel operation at depths up to 6000m





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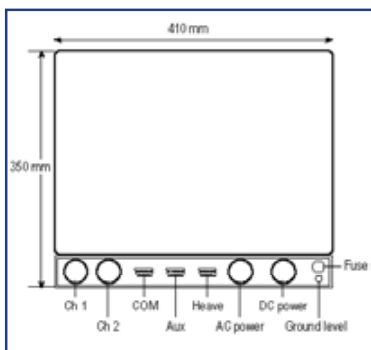
TECHNICAL DETAILS

Frequencies:	User-selectable frequencies from 15-600kHz. Standard 28-35 and 190-225kHz
Impedance:	100Ohm (others on request)
Max. Power:	300W 2KW (420DS model)
Power Control:	Manual or automatic
Pulse Length:	Manual, 5 steps
Units:	Meters & feet
Resolution:	1cm
Accuracy:	1cm at 210kHz 7cm at 33kHz (assuming correct sound velocity, transducer draft)
TVC detection level:	20Log (depth)
Sound velocity:	1350-1600m/sec in
Calibration:	1m/sec step
Additional feature:	Built-in barcheck utility
Transducer draft comp:	0-99.99m
Graphics:	Recording: 21cm wide thermal paper recorder
Resolution:	1400 pixels (5 gray shades)
Transfer speed:	15 lines/sec
Temperature:	Operating: 0°C - 45°C Storage: -10°C - 70°C
Serial I/F:	1: Communication 2: Heave input 3: Auxiliary input (DGPS) 4: Repeater output
Dimensions:	350 x 410 x 240mm 350 x 410 x 255mm (420DS) (14 x 16 x 10in.)
Weight:	15kg (33lbs)
Supply voltage:	10-28VDC, 115-230VAC 24VDC, 115-230VAC (420DS)
EMC radio noise:	CE approved

MODEL COMPARISON

NaviSound	410	415	420	420
DS Output resolution:	cm	cm	cm	cm
Depth Range (meters):	0.2-1200	0.2-1200	0.2-1200	0.2-6000
Channels/Transducers:	1/1	1/2	2/2	2/2
Max Ping Rate:	20Hz	20/10Hz	20Hz	20Hz
Heave input:	•	•	•	•
NMEA output:	•	•	•	•
DESOxx output protocol:	•	•	•	•
Supports SLS option:	•	•	•	•

Scope of delivery: NaviSound 400 Series User's Manual, DC power cable, AC Power Cable, RS-232C communication cable, 19" rack mount kit, Transducer Connector(s), spare paper, fuses and thermal head cleaning kit.



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For Acoustical Measurement Accuracy please refer to www.reson.com or contact sales.



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