



NaviSound 200 Series

PRODUCT SPECIFICATION

PORTABLE HYDROGRAPHIC SINGLE-BEAM ECHOSOUNDERS



- *Portable, highly compact, lightweight unit*
- *Broadband frequency agile*
- *Multiple bottom digitizing with single frequency for sediment and vegetation surveys*
- *Supports single or alternating channel operations*
- *High-performance, easy-to-operate, and very reliable*

RESON's NaviSound 200 Series are highly portable, single-beam echosounders that offer a range of high-performance features. With a selection of models, the NaviSound 200 Series supports a wide range of hydrographic survey applications.

NaviSound 200 echosounders provide reliable depth measurements in a convenient, easy-to-operate unit. Advanced features include multiple bottom digitizing with a single frequency for sediment and vegetation surveys. Besides its compact size and low weight, the NaviSound 200 enclosure provides the highest possible water resistance.

An affordable side-looking sonar (SLS) option that records dual-sided imagery is also available for selected NaviSound 200 models.

Individual NaviSound 200 models are as follows:

- **NaviSound 215:** Enhanced single-beam echosounder that uses one receiver channel to operate two transducers in true real-time, alternating frequency operation
- **NaviSound 210:** Basic, one-channel, single-beam echosounder for hydrographic survey operations
- **NaviSound 205:** One-channel single-beam echosounder for light surveying

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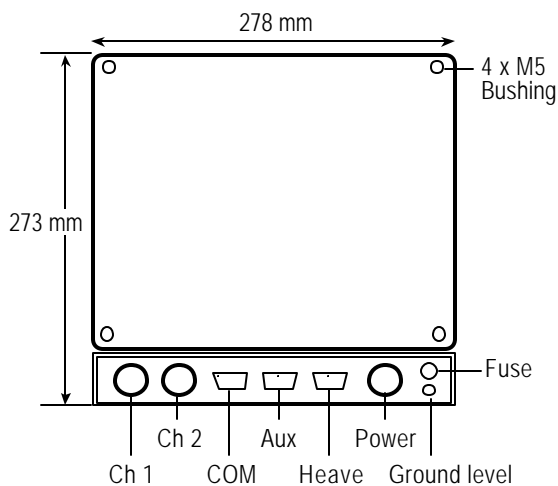
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NaviSound 200 Series System Specifications

TECHNICAL DETAILS

| | | | |
|-----------------------------|---|------------------------------------|---|
| Frequencies: | User-selectable frequencies from 15-600 kHz. Standard 28-35 and 190-225 kHz | Sound velocity calibration: | 1350 - 1600 m/sec in 1 m/sec step |
| Impedance: | 100 Ohm (others on request) | Transducer draft comp: | 0 - 99.99m |
| Max power: | 300 W | Graphics: | |
| Power control: | Manual or automatic | Recording: | 11 cm wide thermal paper recorder |
| Pulse length: | Manual, 5 steps | Resolution: | 800 pixels (gray shades) |
| Units: | Meters & feet | Transfer speed: | 20 lines/sec |
| Resolution: | 1 cm (210 & 215) 1 dm (205) | Serial interfaces: | 1: Communication 2: Heave input 3: Auxiliary input (DGPS) 4: Repeater output |
| Accuracy: | 1 cm at 210 kHz (1 sigma), 7 cm at 33 kHz (1 sigma) (assuming correct sound velocity, transducer draft) | Dimensions: | 273 x 278 x 115 millimeters (11 x 11 x 4.5 inches) |
| TVC detection level: | 20 Log (depth) | Weight: | 5.5 kg (12 lbs) |
| Additional feature: | Built-in barcheck utility | Supply voltage: | 10 - 28 VDC (external AC converter available) |
| | | EMC radio noise: | CE approved |

REAR VIEW



MODEL COMPARISON

| NaviSound | 205 | 210 | 215 |
|----------------------------------|----------|----------|----------|
| Output resolution: | dm | cm | cm |
| Depth Range: | 0.5-100m | 0.2-600m | 0.2-600m |
| Channels/Transducers: | 1/1 | 1/1 | 1/2 |
| Max. sounding rate (PRF): | 5 Hz | 20 Hz | 20/10 Hz |
| Heave input: | - | ✓ | ✓ |
| NMEA output: | ✓ | ✓ | ✓ |
| DESOxx output protocol: | - | ✓ | ✓ |
| Supports SLS option | - | ✓ | ✓ |
| AC Converter Option | ✓ | ✓ | ✓ |

Scope of delivery: NaviSound 200 Series User's Manual, DC power cable, RS-232C communication cable for PC, spare paper, transducer connector(s), and fuses & thermal head cleaning kit



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Due to our policy of continuous product improvement, RESON reserves the right to change specifications without notice.