



NaviSound 200

Portable Hydrographic Singlebeam Echosounders



NaviSound 200

- **Portable, highly compact, lightweight unit**
- **Easily configured frequency selection**
- **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, singlebeam 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 205:**
One-channel singlebeam echosounder for light surveying
- **NaviSound 210:**
Basic, one-channel, singlebeam echosounder for hydrographic survey operations
- **NaviSound 215:**
Enhanced singlebeam echosounder that uses one receiver channel to operate two transducers in true real-time, alternating frequency operations





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TECHNICAL DETAILS

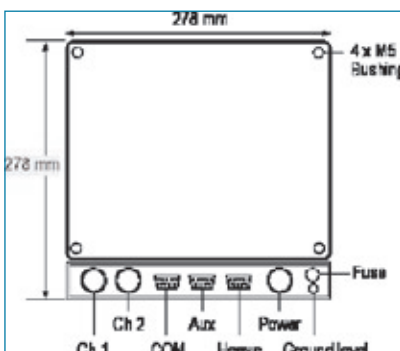
| | |
|------------------------|--|
| Frequencies: | User-selectable frequencies from 15 -600kHz. Standard 28-35 and 190-225kHz |
| Impedance: | 100Ohm (others on request) |
| Max. power: | 300W |
| Power control: | Manual or automatic |
| Pulse length: | Manual, 5 steps |
| Units: | Meters & feet |
| Resolution: | 1cm (210 & 215) 1dm (205) |
| Accuracy: | 1cm at 210kHz (1 sigma), 7cm at 33kHz (1 sigma) (assuming correct sound velocity, transducer draft) |
| TVC detection level: | 20Log (depth) |
| Additional feature: | Built-in barcheck utility |
| Sound velocity | 1350 - 1600m/sec in |
| Calibration: | 1m/sec step |
| Transducer draft comp: | 0 - 99.99m |
| Graphics: | 11cm wide thermal |
| Recording: | paper recorder |
| Resolution: | 800 pixels (gray shades) |
| Transfer speed: | 20 lines/sec |
| Temperature: | Operating: 0°C - 45°C Storage: -10°C - 70°C |
| Serial interfaces: | 1: Communication 2: Heave input 3: Auxiliary input (DGPS) 4: Repeater output |
| Dimensions: | 273 x 278 x 115mm (11 x 11 x 4.5in.) |
| Weight: | 5.5kg (12lbs) |
| Supply voltage: | 10 - 28VDC (external AC converter available) |
| EMC radio noise: | CE approved |

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): | 5Hz | 20Hz | 20/10Hz |
| 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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