

# NAVISOUND 200 SERIES

## PRODUCT SPECIFICATION

PORTABLE HYDROGRAPHIC SINGLE-BEAM ECHOSOUNDERS



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

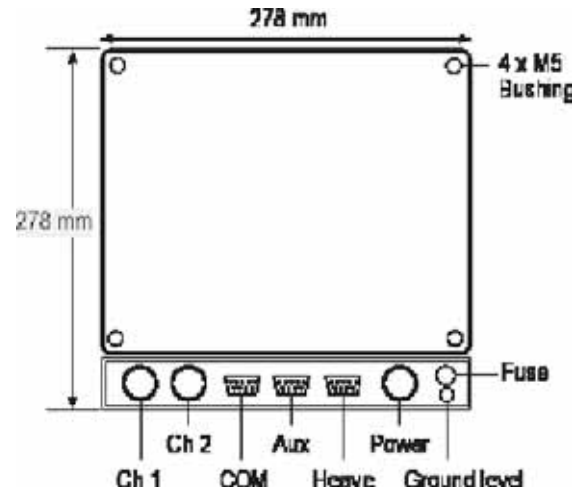


# NaviSound 200 Series SYSTEM SPECIFICATIONS

## TECHNICAL DETAILS

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

## REAR VIEW



## MODEL COMPARISON

NaviSound	205	210	215
<b>Output resolution:</b>	dm	cm	cm
<b>Depth Range:</b>	0.5-100m	0.2-600m	0.2-600m
<b>Channels/Transducers:</b>	1/1	1/1	1/2
<b>Max. sounding rate (PRF):</b>	5 Hz	20 Hz	20/10 Hz
<b>Heave input:</b>	-	√	√
<b>NMEA output:</b>	√	√	√
<b>DES0xx output protocol:</b>	-	√	√
<b>Supports SLS option:</b>	-	√	√
<b>AC Converter Option:</b>	√	√	√

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

Version: B042-031013

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



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