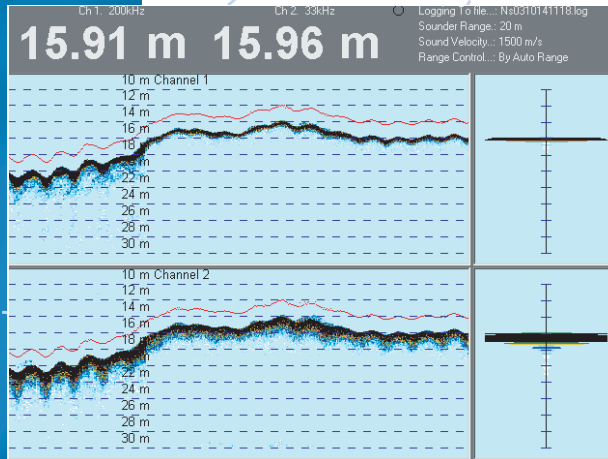


# NAVISOUND 500 SERIES

## PRODUCT SPECIFICATION

### DUAL CHANNEL HYDROGRAPHIC ECHOSOUNDER



- **Tamper-resistant digital data for verifiable back-up alternative to paper chart**
- **Large 10.4" transfective color display for improved daylight viewing**
- **Internal data storage for over 20 continuous hours**
- **20Hz sounding rate**

The NaviSound 500 series is portable, state-of-the-art dual channel echosounders designed to meet the needs of hydrographic surveyors. New advancements incorporate a large transfective color display for improved viewing in sunlight. Continuous internal data storage and playback capability, and unique RESON developed tamper resistant data set encryption, offering a verifiable back-up alternative to paper chart.

With a digital depth display, the NaviSound 500 series provides a sonogram for each sounding. External data transfers are performed using serial or Fast Ethernet connections. When the echosounder units are connected to a Windows-based PC, the sounding trace can be printed on a standard printer. File transfer is performed using a USB memory-key.

The NaviSound 500 series can easily be separated in two parts for installation on large survey vessels. The transceiver part can be placed close to the transducer, and the display part in the sonar room.

The NaviSound 500 series support multiple frequency options as well as high resolution dual Side-Looking-Sonar.

Individual NaviSound 500 models are:

**NaviSound 515:** Hydrographic alternating dual channel echosounder

**NaviSound 520:** Hydrographic simultaneous dual channel echosounder



# NaviSound 500 Series SYSTEM SPECIFICATIONS

## SYSTEM PERFORMANCE

<b>Output resolution:</b>	1 cm
<b>Measuring units:</b>	Meters or feet
<b>Data logging &amp; transfer:</b>	USB memory stick, Ethernet, or serial RS-232C ports
<b>Frequency agility:</b>	28-35 kHz and 190-225 kHz; other filter modules available between 15-600 kHz
<b>Transducer impedance:</b>	100 Ohm
<b>Gain control:</b>	Manual or automatic
<b>Pulse length:</b>	Manual or automatic 20µs to 4ms
<b>Accuracy:</b>	1 cm at 210 kHz 7 cm at 33 kHz

## INTERFACE

<b>Max start up current:</b>	10A@12VDC
<b>Power consumption:</b>	avg 60 W
<b>Supply voltage:</b>	11-28 VDC
<b>Transducer draft comp:</b>	0 - 99.99 m 0 - 300 ft
<b>Sound velocity input:</b>	1350-1600 m/sec in 1 m/sec increments
<b>Display:</b>	10.4" transflexive color screen, 640 x 480 pixels
<b>Interfaces I/O:</b>	4 x serial (RS-232C) and 1 x LAN for Heave, GPS Loop-Through, repeater
<b>Additional features:</b>	Bar check program

## OPTIONS

- Transport case
- External power module and AC cable
- External 115/230 VAC converter
- LAN interface cable
  
- 19" rack mount kit
- Table top mounting brackets
- Side Looking Sonar (SLS) transducer
- Nonstandard transducer impedance available
- Nonstandard filter modules between 15-600 kHz

## MECHANICAL INTERFACE

<b>Dimensions (HWD):</b>	275 x 350 x 185 mm 10.8 x 13.8 x 7.3 in
<b>Weight:</b>	11 kg (22 lbs)
<b>Temperature:</b>	
<b>Operating:</b>	0°-45°C (32°-113°F)
<b>Storage:</b>	-10°-70° (14°-158°F)
<b>Humidity:</b>	Noncondensing humidity
<b>EMC radiation:</b>	In accordance with CE guidelines

## MODEL COMPARISON

<b>NaviSound</b>	515	520
<b>Max. transmit power:</b>	300W	450W
<b>Depth Range</b>	0.2-600m (0.7-1,968ft)	0.2-1200m (0.7-3,936ft)
<b>Channels/transducers:</b>	1/2	2/2
<b>Max. Ping Rate(Hz):</b>	20/10	20

Version: Bxxxxx

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



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