



NaviSound 500

Dual Channel Hydrographic Echosounder



NaviSound 500

- **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





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SYSTEM PERFORMANCE

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

INTERFACE

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

MECHANICAL INTERFACE

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

MODEL COMPARISON

NaviSound	515	520
Max. transmit power:	300W	450W
Depth Range:	0.2-600m (0.7-1.968ft)	0.2-1200m (0.7-3.936ft)
Channels/transducers:	1/2	2/2
Max. Ping Rate(Hz):	20/10	20

OPTIONS

- Transport case
- External power module and AC cable
- External 115/230VAC 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 15-600kHz

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