

NaviSound 600 Series

Advanced Hydrographic Singlebeam Echosounders



NaviSound 600

- **High ping rate, up to 20Hz**
- **High performance. Resolution 1cm**
- **Frequency range from 15 – 600kHz**
- **Up to four independent frequencies in simultaneous operation mode**
- **Support depths up to 1200m**
- **Rollback of recorded echogram even whilst recording**
- **Sound Velocity profile compensation with built-in editor software**

RESON's NaviSound 600 Series is a new range of Advanced Hydrographic Survey Echosounder designed to meet the needs of Hydrographic surveyors working on medium to large survey vessels. Best choice for surveying in shallow water, harbors, waterways, off-shore and for dredging applications.

Supports dual, triple or quad channel sounding operation. Convenient four-channel mini Multi Channel System (MCS). Continuous internal data storage with playback capability, and unique RESON developed tamper resistant data set encryption, - offering a verifiable back-up alternative to paper recorder.

NaviSound 600 Series provide reliable depth measurement and convenient, easy-to-operate capabilities. Premium features include 19" Panel PC for desk, roof or 19" rack mount. Marine approved by: ClassNK, GL, DNV, BV, ABS and LRS. NaviSound 600 Series is delivered with NaviSound Control Center software (NCC). The NaviSound 600 data output is supported by all Hydrographic survey software packages.

The control and display software has the ability to graphically display, record and playback the depth profiles and print-out on a standard Windows Printer as well. The NaviSound 600 Series is separated in two parts for installation of the transceiver part close to the transducer and the Panel PC in the sonar room. Data transfer via Ethernet/ USB/ COM/ LPT connection.

Individual NaviSound 600 models are as follows:

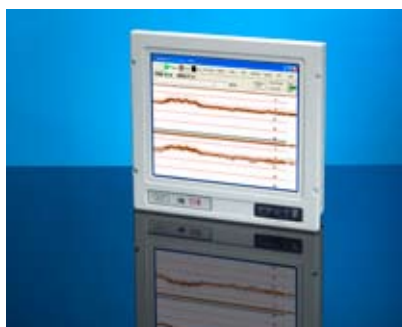
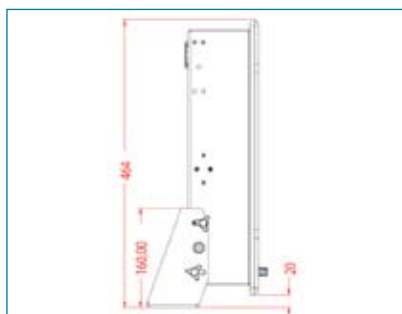
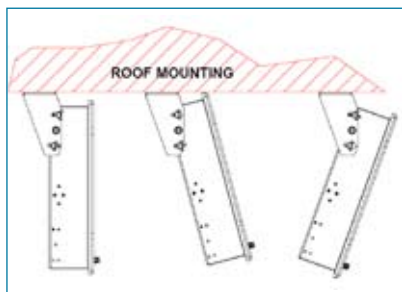
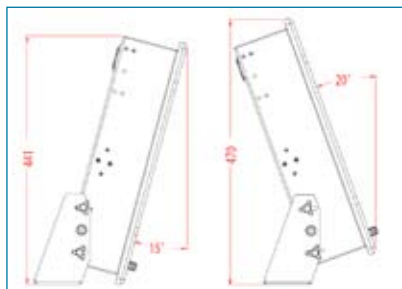
- **NS 620:**
Standard Hydrographic EchoSounder supports dual channel simultaneous operation
- **NS 630:**
Enhanced Hydrographic EchoSounder supports triple channel simultaneous operation
- **NS 640:**
Improved Hydrographic EchoSounder supports quad channel simultaneous operation





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SYSTEM PERFORMANCE

Output resolution:	1cm (in metric mode)
Measuring units:	Meters or Feet
Data logging & transfer:	Internal HDD, Ethernet, USB2.0 or serial RS232C port
Frequency range:	15 - 600kHz
Frequencies:	28-35kHz and 190-225kHz; others on request
Transducer impedance:	100Ohm nominal
Power Control:	Manual
Gain control:	Manual or automatic
Pulse length:	Manual or automatic; 20µs to 4ms
Accuracy:	1cm @ 210kHz; 7cm @ 33kHz; 15cm @ 15kHz

INTERFACE

Supply voltage:	24VDC
Power consumption:	60W
Transducer draft comp:	0 - 99.99m; 0 - 300ft
Man Sound Velocity:	1350 - 1600m/sec in 1m/sec increment
Auto Sound Velocity profile:	1350 - 1600m/sec in 1m/sec increment
Interface I/O (Remote Transceiver):	4 x serial RS-232C for Com, Heave, GPS and Loop-Through
Interface I/O: (Panel PC)	4 x serial RS-232C; 4 x USB 2.0; 2 x LAN; 1 x LPT
Output protocol:	DESO25, NMEA, NaviSound, GTRACE
Operating & Control system	Windows XP; NaviSound Control Center (NCC)
Additional features:	Bar check program

PHYSICAL DIMENSIONS

Dimension (Remote Transceiver):	275x350x125mm; 10.8x13.8x4.9in (HxWxD)
Weight (Remote Transceiver):	5.5kg; 12.1lbs
Dimension (Panel PC):	444x483x100mm; 17.5x19.0x3.9 in (HxWxD)
Weight: (Panel PC)	11.0kg; 24.3lbs
Temperature Operating:	0° to +45°C (32° to 113°F)
Temperature Storage:	-10° to +70°C (14° to 158°F)
Humidity:	Non-condensing
EMC radiation:	In accordance with CE guidelines

MODEL COMPARISON

NaviSound:	620	630	640
Max transmit power:	450W	450W	450W
Depth range: (metric)	0.2 - 1200m	0.2 - 1200m	0.2 - 1200m
Depth range: (imperial)	0.7 - 4000ft	0.7 - 4000ft	0.7 - 4000ft
Channels/ Transducers:	2/2	3/3	4/4
Max Ping Rate: (PRF)	20Hz	20Hz	20Hz

OPTIONS

- LAN cables
- Interconnection RS-232C cable (Extended Distance Data Cable) EDDC (max 150m; 500ft)
- External power module and AC cable
- 19" Rack mount kit for Remote Transceiver
- Table top/ roof mounting bracket for 19" Panel PC
- Non-standard filter kits between 15-600 kHz
- RESON's dedicated Hydrographic standard transducer program
- Hull mount transducer tank or outboard rig
- Sound Velocity Profiler

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For Acoustical Measurement Accuracy please refer to www.reson.com or contact sales.

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