

NaviSound 630DS Series

Advanced Deep Sea Singlebeam Echosounders



- High ping rate, up to 20 Hz.
- High performance. Resolution 1 cm
- Frequency range from 10 – 200 kHz
- Three independent frequencies in simultaneous operation mode
- Support depths up to 6000 meters
- Rollback of recorded echogram even whilst recording
- Memory of user and factory settings
- A-scope picture of each ping
- Color or monochrome echogram
- Printing on standard Windows Printer
- Interface for Heave, AUX (DGPS) and Repeater output
- Sound Velocity profile compensation with built-in editor software
- Built-in bar check utility
- 19" Hi-Res Panel PC with 3 free slots

RESON's NaviSound 630DS provides high-quality soundings at operational ranges up to 6000 meters.

Designed for ocean research activities involve scientific investigation and oil & gas exploration.

The new NaviSound 630DS includes an enhanced 2 kW transmitter module as well as an improved receiver module.

Supports triple channel operation. Low, medium and high frequency.

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 630DS provide reliable depth measurement and convenient, easy-to-operate capabilities. Premium features include 19" Hi-Resolution Panel PC for 19" rack mount or optional desk and roof bracket. Display is Marine approved by: ClassNK, GL, DNV, BV, ABS and LRS.

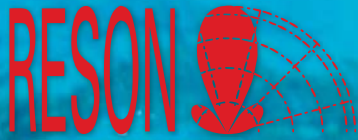
NaviSound 630DS Series is delivered with NaviSound Control Center software (NCC). The NaviSound 630DS data output is supported by all Hydrographic survey software packages.

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 630DS is separated in two parts for installation of the transceiver part close to the transducers and the Panel PC in the sonar room. Control & Data transfer via RS-232C cable.

- **NS 630DS/6000:**
Advanced Hydrographic EchoSounder supports triple channels simultaneous operation up to 6000m.





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SYSTEM PERFORMANCE

Output resolution:	1cm (0-1000m), 10cm (1000m-6000m)
Measuring units:	Meters or Feet
Data logging & transfer:	Standard PC via RS-232C
Frequency range:	10-200kHz
Frequencies standard:	12/15kHz, 28-35kHz and 190-225kHz; others on request
Transducer impedance:	100Ohm nominal
Gain control:	Manual or automatic
Pulse length:	Manual or automatic; 20µs to 4ms
Accuracy:	1cm@210kHz; 7cm@33kHz; 9cm@24kHz; 15cm@15kHz; 19cm@12kHz - Assuming correct speed of sound and draft

INTERFACE

Supply voltage/ Power consumption:	24VDC/60W (each RT module), 24VDC/75W (Panel PC)
Transducer draft comp:	0 - 99.99; 0 - 300ft
Man Sound Velocity:	1350 - 1600m/sec in 1/m sec increment
Auto Sound Velocity profile:	1350 - 1600m/sec in 1/m sec increment
Interface I/O (RT Module):	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 Centre (NCC)
Additional features:	Bar-check program

PHYSICAL DIMENSIONS

Dimension; Weight: Panel PC:	444x483x100mm; 17,5x19,0x3.9 in (HxWxD); 11.0kg; 24.3lbs
Dimension; Weight: RT	275x495x115mm; 10.8x19.5x4.5 in (HxWxD); 5.8kg; 12.8lbs
Temperature; Operating/ Storage:	0° - 45°C (32° - 113°F)/ - 10° - 70°C (14° - 158°F); Humidity; Non-condensing

MODEL COMPARISON

NS630DS/6000

Max transmit power	2000W
Depth range (metric)	0.2 - 6000m
Depth range (imperial)	0.7 - 19800ft
Channels/ Transducers	3/3
Max Ping Rate (PRF) Hz	20

SCOPE OF DELIVERY

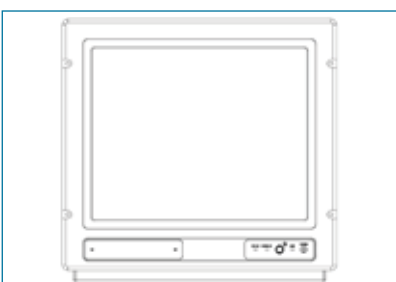
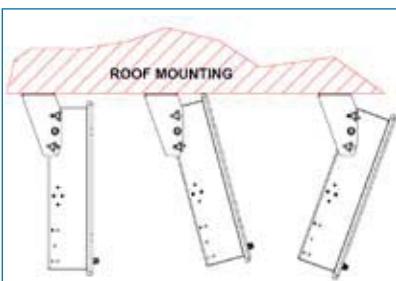
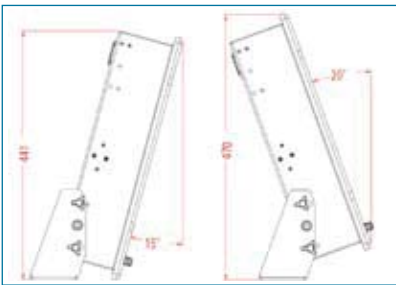
NS630DS/6000

19" Panel PC (Marine approved)	1
Transceiver Unit	2
NCC software program (CD)	1
User's Manual	1
DC Power Cable, 2m	2
RS-232C Data Cable for PC, 4m	1
Link / Sync Cable, 2m	1
Transducer Connectors	3
Shorting plug	1
Fuse	2

OPTIONS

- External 115/230 VAC converter and AC cable
- Interconnection RS-232C cable (Extended Distance Data Cable) EDDC (max 100m; 330ft)
- Non-standard filter kits between 10-200kHz
- 19" Rack mount kit
- Table top/roof mounting bracket for 19" Panel PC
- Transport case
- ESR-4 Echosounder Repeater
- RESON's dedicated Hydrographic standard transducer program
- Hull mounts transducer tank
- Sound Velocity Profile
- PDS2000-SB4 Hydrographic Survey software

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For Acoustical Measurement Accuracy please refer to



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