



communications

# HydroStar 4300 - SURVEY ECHOSOUNDER

- portable hydrographic echosounder
- dual frequency option
- 30 / 200 kHz
- thermal recorder
- sediment classification
- excellent price / performance ratio



by courtesy of NOAA

HydroStar 4300 is a well proven single beam survey echosounder, available as single frequency sounder (200 kHz) or dual-frequency sounder (200/30 kHz). For dual frequency operation only one transducer containing two elements is supplied.

Maximum water depths achieved with these options are 80 meters (single frequency) or 1000 m (dual frequency).

HydroStar 4300 provides heave compensation and sound velocity correction.

It provides advanced digital signal processing for reliable bottom detection and automatic chart annotation.

Automatic and manual controls allow access to time and date, position, alarm status, receiver gain, sound velocity adjustment, display ranges, and tide/draft adjustment.

HydroStar 4300 offers standard interfaces. One RS232 interface for heave input and one combined RS 422/232 interface for input of position or annotation and output of depth are available.

## PORTABLE UNIT FOR SMALL BOATS



HydroStar 4300 is the ideal tool for bathymetric measurements on small platforms like dinghis and launches.

Its light weight of both echosounder and transducer in combination with its splash proof metal case (IP 54) makes it an easy-to-handle and precise instrument for hydrographic surveys.

HydroStar 4300 combined with a PC or a notebook and any required peripherals and software is a portable and accurate survey system.

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## TECHNICAL DATA

### ACOUSTICS

Frequency	200 kHz or 30/200 kHz
Output power	up to 800 W
Depth resolution	1 cm
Accuracy	+/- 0.25% of water depth
Max. ping rate	11 Hz
Beam angle	
LSE 314, 200 kHz:	8°
LSE 218, 30/200 kHz:	24°/8°

### INTERFACES / POWER REQUIREMENTS

Input	
Heave	RS 232 or analogue potential-free contact
Event marker	potential-free contact
Free annotation or position	RS232/422
Output	
Depth	RS 422 / RS 232 NMEA protocol or proprietary
Power requirements	11-30V DC, less than 40 W 115 / 230V AC (optionally)

### PHYSICAL CHARACTERISTICS

Dimensions	
HydroStar 4300	470 mm x 350 mm x 210 mm
Transducer LSE 314	42 mm x 70 mm diameter
Transducer LSE 218	116 mm x 204 mm
Transducer support device	1520 mm
Weight	
HydroStar 4300	17 kg
Transducer LSE 314	1,3 kg
Transducer LSE 218	4,3 kg
Transducer support device	2,8 kg