

ES 5100 Navigation Echosounder The New Standard for Navigation Echosounder

ES 5100 - the New Standard for Navigation Echosounder

Key Highlights

- **Type Approved**
- **User-Friendly**
- **Flexible**
- **High Resolution Graphical TFT Colour Display**
- **Highly Reliable**
- **6 Ranges**

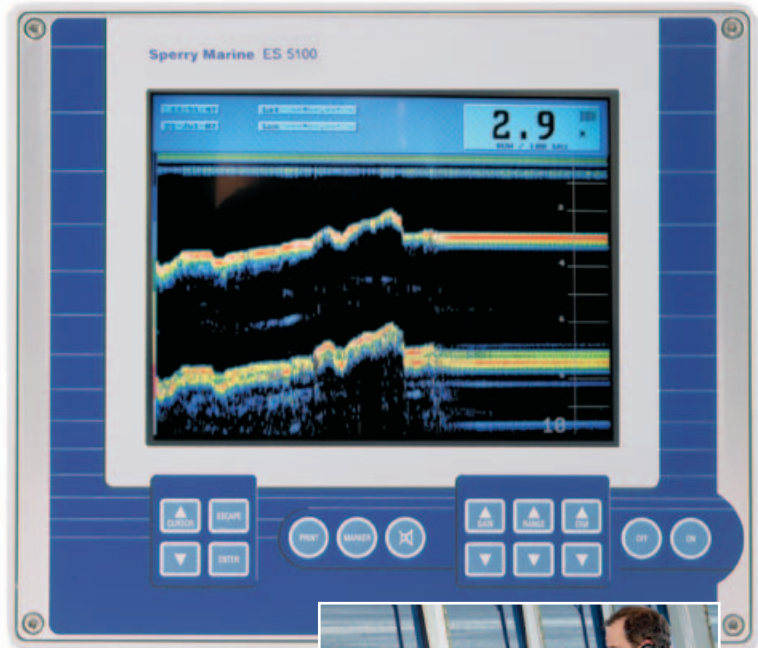
The ES 5100 is the successor to the market leader ES 5000 and sets the standard for navigation echosounder from shallow to deep water. It can be operated as a single or dual frequency unit with up to 4 transducers for frequencies from 30 to 210k. The ES 5100 offers 6 basic ranges from 10 to 2000m, 24 hours memory, interfaces for output of depth data, input of position data and printer interface.

Compact Display

- Day & night colour selection
- Continuous observation of depth data in conventional recording mode
- Digital display of water depth and selected range position data
- Optional digital display, DAZ25

User-Friendly

- Self-explanatory and practical
- Direct access to all important functions
- Menu guided operation
- Menu controlled transducer adaption / performance setting
- Memory for depth soundings of more than the last 24 hours for print-out including all supplementary data such as sounding range, time and position



Flexible

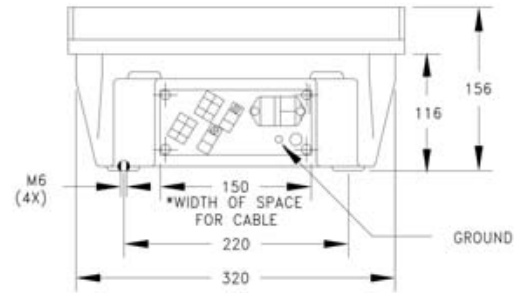
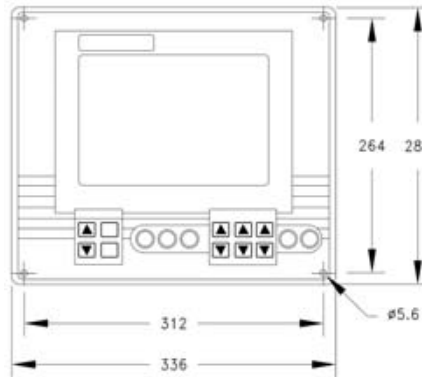
- Optional mounting arrangements for display
- 8 standard frequencies available, in single or dual-frequency
- NMEA standard interfaces allow integration of the ES5100 into any bridge configuration
- Serial interface for data acquisition, remote control, output status
- Retrofit possible to existing Sperry Marine or other manufacturers' transducers
- Standard Sperry Marine transducers LSE 297/50 kHz resp. LSE 313 / 200 kHz, especially developed for ES5100

Reliable

- Compliant with IMO rules and recommendations
- Dead man alarm
- Mute control for acoustic alarm
- Power supply voltage monitoring
- Electronic data storage results in no mechanical wear and no paper consumption

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Product Information

Frequencies	28, 30, 33, 38, 50, 100, 200, 210 kHz; single or dual frequency; existing transducers can be used
Display of data	Colour TFT display; Size: 10.4", free selection of display layout; night & day presentation mode; optional on printer
Basic scale ranges	10, 20, 50, 200, 500, 2000 m
Units	Selectable: meters, fathoms or feet
Measuring accuracy	Better than 2,5 % of depth reading
Minimum sounding depth below transducer	Approx. 0,5 m
Trim correction	5 m
Draft correction	Up to 29,9 m
Output power	150, 450, 1000 W RMS, depending on transducer
Pulse repetition rate	Pulse repetition rate: max. 180 pulses per minute
Gain control	Time Variable Gain (TVG) manual and automatic control for depth finding
Special features	Recording of time and date internally generated
	Data output (depth values etc.)
	Position if externally available
	Dead man alarm
	Mute control for acoustic alarm
Interfaces	Output: DPT according to NMEA 0183 and DIN EN 61 162-1. Input: NAV data according to NMEA 0183 and DIN EN 61 162-1
Environmental conditions	According to EN 60 945
Operating temperature	-15°... +55°C
Protection code	IP 53
Power supply	90- 260 V, 50 - 60 Hz; optionally 10-30 V DC;
	Supply voltage monitoring
Power consumption	Approx. 35 W
Type Approval	BSH-Approval 6296/021/02/Wheelmark
Weight	6,1 kg
Dimensions	Height 288 x width 336 x depth 150 mm

Sperry Marine, with worldwide headquarters in Charlottesville, VA, and major engineering and support offices in Melville, NY, New Malden, England, and Hamburg, Germany, is part of the Northrop Grumman **Electronic Systems** sector.

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