



Model SS-1000



Featuring:

High precision 200 kHz hydrographic survey sounder designed for various hydrographic surveying applications including bottom profiling, dredging and waterway maintenance

Featuring a daylight-readable 5.7" QVGA resolution LCD screen echo sounder, displaying bottom echo in up to 7 analog RGB colors or bottom contour in user-selected single color

Full screen display of realtime echogram or split screen of echogram and graphic display of user-specified past soundings

A specially designed transducer unit is supplied, consisting of dual ceramic resonators embedded in a single housing (one devoted to transmission, the other to reception) for minimum detectable depth of less than 30 cm.

Fully automatic operation for bottom tracking (automatic selection of depth ranges, automatic adjustment of receiver gain, automatic adjustment of TVG level optimized for the transducer)

Five echogram feed modes without compromising data collection capability (sounding rate in use)

Realtime output of sounding data along with GPS-derived information from an external GPS data source in industry standard format (NMEA-0183/ IEC 61162) for online processing in PC-based user applications.

Stores collected soundings and associated information (LAT/LON position* and date/time*) for up to 12 hours in internal non-volatile memory.

Automatic annotation of recorded echogram with position coordinates*, date and time of surveyed locations based on NMEA-0183 format data from an external GPS data source

Monochrome graphic printer (Model PR-950D, 112 mm X30m/roll thermal paper) is optionally available for realtime printing of bottom profiling with associated data* (LAT/ LON position, date and time)

Specifications:

- **Display Screen:**
5.7" 7-analog RGB-color LED-backlit TFT-LCD
- **Frequency:** 200 kHz
- **Transducer:**
Dual PZT ceramic crystals in single ABS housing
- **Transmit Power:** Approx. 600W RMS max. to transducer
- **Depth Ranges:** 2.5 to 800m/1.2 to 400 fathoms in 9 ranges
- **Mode of Operation:**
Automatic (range, gain and TVG settings) or manual
- **Minimum Detectable Depth:**
Less than 30 cm with specified transducer
- **Velocity Standard:**
1500 m/sec., adjustable over 1400-1600 m/sec. range
- **Data Storage:**
Up to 12 hours of depth data (NMEA-0183 DPT) with *date/time and *LAT/LON readouts
- **Data Retrieval:**
Past 15 min./1/3/6/12 hrs. of data via interface ports
- **Alarms:** Depth, power failure/shutdown, missing bottom
- **External Interface:** RS-422 and 8-pin NMEA-0183 connector
- **Cabinet Size & Weight:**
248/196(W)X216/196(H)X102(D) mm with/without mounting bracket, approx. 2.2 kg (with bracket)
- **Power Requirements:**
11-40 VDC, 0.7A at 12V, 0.4A at 24V (typical)

* connection to GPS data source to NMEA-0183 port required

NOTE: All specifications are provisional and subject to change without notice or obligation.



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