



# 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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