



Specialty Devices, Inc

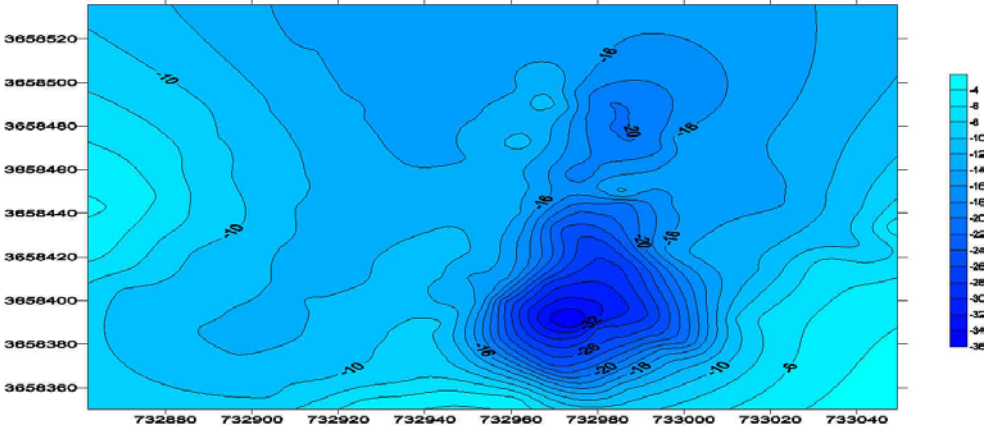
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IDS and IDS PLUS Depth and Sub-bottom Profilers



IDS is a bathymetric survey system in a single portable splash proof unit. With the IDS+ option, a sub-bottom profiler and sub-bottom sediment classification capability is added. This rugged system includes a computer that can also serve as your navigation computer and includes a full sunlight readable TFT color display and waterproof keyboard and joystick. Depth sounder software and rapid data playback and review software is included.

The portable waterproof case operates from a 12 volt car battery makes the IDS ideal for small boat operations. With the IDS, your GPS receiver, a battery and a boat, you are ready to begin surveying. All sounder and post-processing software is included. The 200 kHz Intelligent Depth Sounder provides the latest technology in high resolution and accuracy with the added convenience of “paperless” electronic recording. The IDS+ sub-bottom profiling capability adds up to 4 additional operating frequencies to the 200 kHz IDS depth sounder. A full 16 bit digitizer provides better depth and sub-bottom data than available on older analog paper recording systems.



SDI's "Paperless" IDS Intelligent Depth Sounder

IDS is a full survey grade depth sounder that digitizes the echo to 16 bit resolution and stores the full digital record on hard disk. IDS provides play back with high resolution and detail. 65,536 shades of gray are digitized versus a maximum of 16 shades typical of paper records. The depth resolution is maintained regardless of the depth range. DEPTHPIC and SDIDEPTH software provides convenient replay and reprocessing of hydrographic data without hand digitizing or scaling of position. Navigation data and collection parameters are saved with each depth sounding. Positions, events and operator annotations are exchanged between HYPACK and SDIDEPTH programs.

DEPTH SOUNDER SPECIFICATIONS:

Software	SDIDEPTH data acquisition and in-the-field data analysis and replay DEPTHPIC post-processing and editing software with multiple file output options
Ranges	7.5 m to 200 m (300 m optional)
Minimum Depth	1.2 feet (0.5 meter) standard, 8" (0.2 m) optional
Frequency	200 kHz (operator settable +/- 10%)
Beam Pattern	9-degree standard, 3-degree optional (200 kHz)
Resolution	1.5 cm (0.75 cm optional)
Depth Units	Meters, Feet, Fathoms
Speed of Sound	Fresh, Salt, or settable 1400 TO 1600 m/s
Settings for	Tide, Draft, heave (input), blanking, keel alarm, NMEA std. DGPS data format
Zoom	Operator continuously selectable
Tracking	Automatic, settable and fixed with re-digitizing in playback
Tracking gates	0.1, 0.2, 0.5, 1, 2, 5, 10 (m, ft., fth.)
Data Format	ASCI and binary files compatible with HYPACK, SURFER, and GIS packages

SDI's Multi-Frequency Sub-bottom Profiler (optional on IDS)

Up to five frequencies, ranging from 3.5kHz to 200 kHz, can be utilized to provides depth and fine resolution sub-bottom profiling

SDI's Waterproof Hardened Computer

SDI's hardened computers include armored display windows, marine grade aluminum display housings and non-corrosive impact resistant plastic cases with stainless steel hardware. Display controls and hinges are o-ring sealed and connectors are waterproof or splash resistant.

This computer can be upgraded in the future unlike most laptops.

COMPUTER SPECIFICATIONS:

Operating system	Windows 2000 or XP
Clock Frequency	800 mHz or higher
Ports	Serial, parallel, USB (optional LAN, IEEE1394 Firewire)
Keyboard/Mouse	Waterproof backlit tactile keyboard, waterproof joystick/ four button
Data Storage	20 gByte Hi G shock standard (40, or 60 gByte optional)
Data Transfer	512 mByte USB Solid State Hard Disk Drive

Navigation

The IDS can serve as you navigation computer with the installation of your HYPACK SURVEY, LITE or MAX software and your input of DGPS data from your external DGPS receiver.

SDI is a distributor for HYPACK, Inc. software.

Visit our Web Site at www.Specialtydevices.com