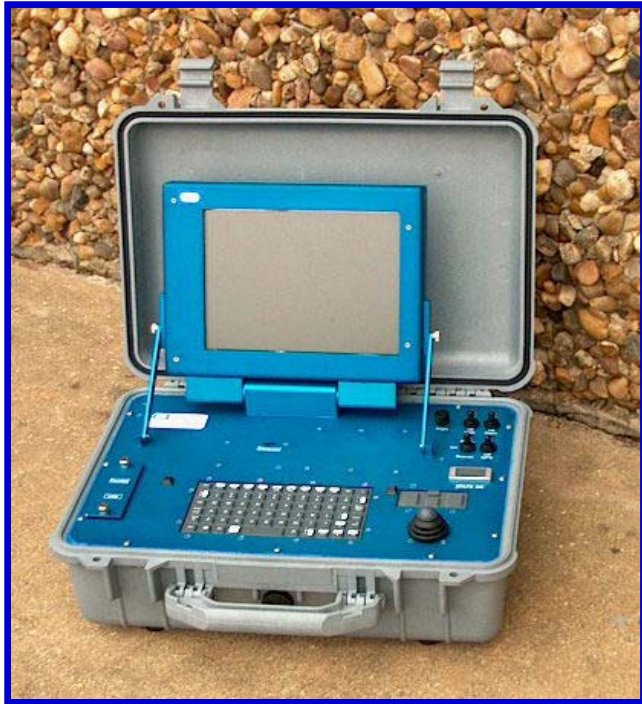


Surveycase

Hydrographic Survey System

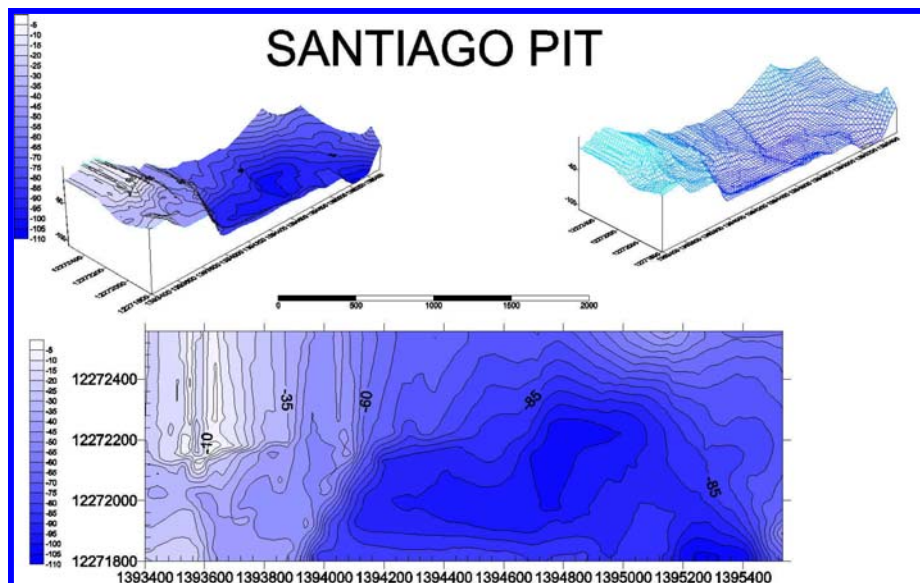


The new generation of Bathymetric Survey Systems is the **SURVEYCASE**. It is ideal for surveying in shallow water, harbors, and waterways and pre- and post-dredging applications. It is a simple-to-operate, complete hydrographic survey system contained in a single, portable, splashproof unit. The system includes an Intelligent Depth Sounder (IDS), an internal beacon receiver, and a WAAS receiver or an internal radio for use with SDI's Remote Differential Base Station. This small, low-power, all-in-one package includes a daylight screen, waterproof keyboard and waterproof joystick.

SURVEYCASE digitizes the echo to 16-bit resolution and stores the full digital record on hard disk and provides playback with high resolution and detail. 65,536 shades of gray are digitized versus a maximum of 16 shades of gray typical of paper records. Depth resolution is maintained regardless of the depth range. Positions, events, and operator annotations are exchanged between HYPACK and SDIDEPTH programs. DEPTHPIC and SDIDEPTH software

provide convenient replay and reprocessing of hydrographic data without hand digitizing or scaling of position. Navigation data and all other collection parameters are saved with all depth soundings. Post-processing with DEPTHPIC saves XYZ data in ASCII text format compatible with HYPACK, SURFER, AutoCAD, ArcView and GIS programs for contouring and TIN mapping.

SURVEYCASE operates from 12vdc and with navigation software, a battery and a boat, you are ready to survey. SDI's proprietary display is daylight visible and also dims for excellent night viewing. SDI's hardened computers include internal shock mounted electronics, armored display windows, marine grade aluminum display housings and non-corrosive impact resistant cases, and stainless hardware. Display controls and hinges are o-ring sealed and connectors are waterproof or splash resistant.



DEPTH SOUNDER SPECIFICATIONS

Software	SDIDEPTH windows pull down menu, keyboard hot key and playback DEPTHPIC full record loading, post processing with ASCII Text XYZ output*
Ranges	7.5m to 200m (300m optional)
Minimum Depth	1.2 feet (0.5 meter) standard, 8" (0.2m) optional with split transducer format
Frequency	200kHz (operator settable +/- 10%),
Beam Pattern	9-degree standard, 3-degree optional (200kHz)
Resolution	1.5cm or 0.75cm
Depth Units	Meters, Feet, Fathoms
Speed of Sound	Fresh, Salt, or settable 1400 TO 1600 m/s
Inputs for	Tide, Draft, heave, blanking, keel alarm, NMEA standard 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., ftm.)
Data Format	ASCII and binary files compatible with HYPACK, SURFER, and GIS packages

HYPACK SURVEY, LITE, or MAX options. SDI is a distributor for HYPACK software by HYPACK, Inc.

COMPUTER SPECIFICATIONS

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

Operating system	Windows XP
Clock Frequency	866 MHz or higher
Ports	Serial, parallel, USB (optional LAN, IEEE1394 Firewire)
Keyboard/Mouse	Waterproof backlit tactile keyboard, waterproof joystick/ button
Data Storage	60GB Hi-G shock standard (up to 120GB optional)
Data transfer	USB removable solid state HDD, USB CDRW, USB flash drive (1GB flash drive included)
Display Type	10.4" Diagonal Daylight Viewable LCD TFT with on screen controls
Display Resolution	1024 x 768 XGA, 256,000 colors
Display Intensity	3 to 1400 cd/m2 (nit) Full sunlight viewable and NVIS night vision compatible
External Display	VGA analog (XGA) output for optional external display
Input Power	12vdc @ 2.8 amps, (normal operational conditions)
Size	18" w by 15" d by 7" High (1 cu.ft.)
Weight	24 lbs.

DGPS SPECIFICATIONS

The SURVEYCASE uses 12-channel DGPS receivers with sub-meter accuracy and options for RTK cm accuracy. WAAS, USGS beacon receivers, and 10+ mile range radios for use with SDI's reference DGPS base stations are available.

Receiver	Novatel, Ashtech or Trimble DGPS (user choice, based on availability)
Antennas	Active patch integral DGPS L1, USCG beacon or options for L1/L2 or WAAS
Accuracy	Sub-meter standard, 1-2cm Kinematic optional with base station
Beacon receiver	Integral 2 channel auto track



Made in USA



Listed



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