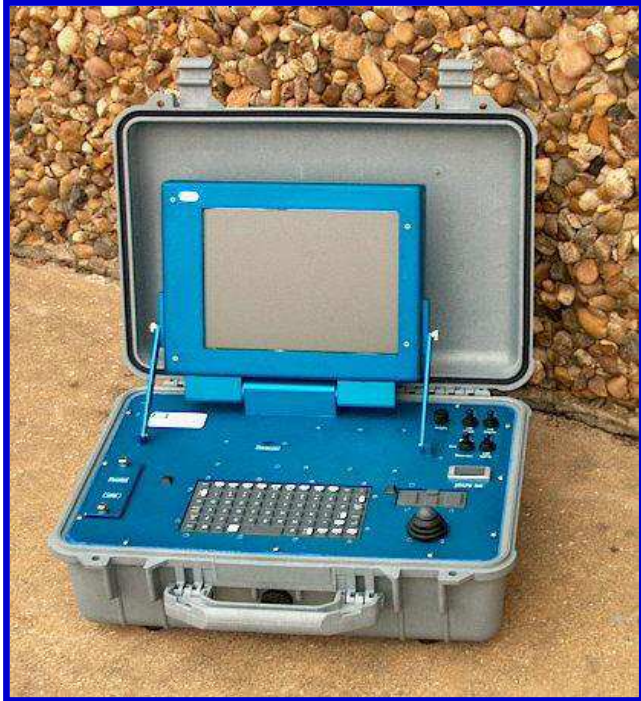


# Surveycase - SC200LC

## Hydrographic Survey System



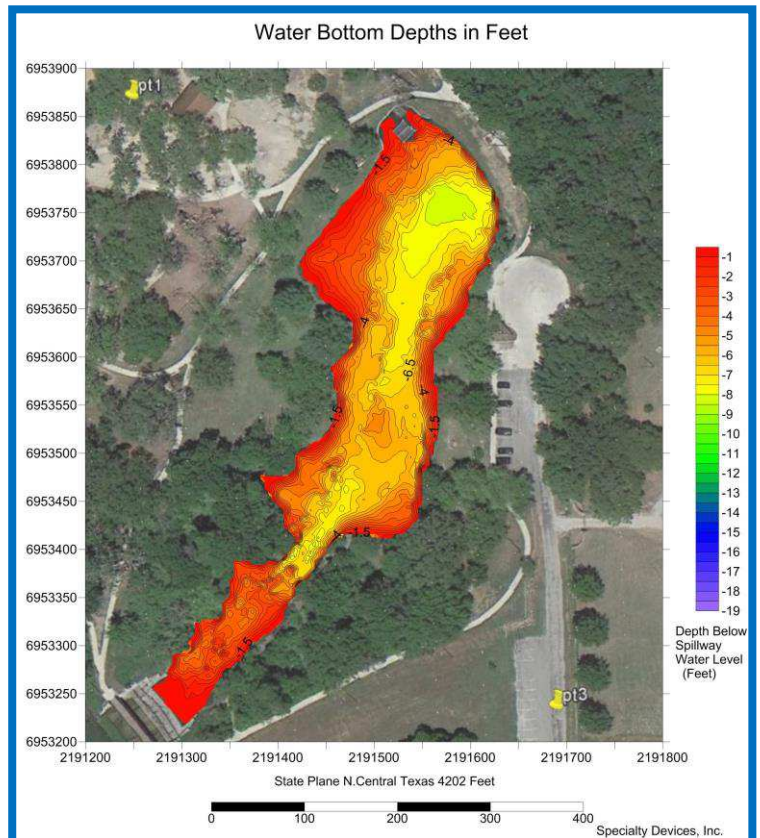
The **SURVEYCASE -200LC** is ideal for surveying reservoirs, bays, shallow lakes, waterways and for pre- and post-dredging applications. The SC200LC is a complete survey grade hydro-graphic survey system contained in a single, portable, splash proof unit. The SC200LC is designed to be an easy-to-use system with the included Intelligent Depth Sounder (IDS), precision GPS receiver with SBAS/WAAS, and a Windows computer system in a single case. This small, low-power, all-in-one package includes a daylight-visible high resolution display, waterproof keyboard and waterproof joystick. An optional dual-frequency Side Scan Sonar is available and will operate simultaneously with the bathymetric survey system under HYPACK software.

**SURVEYCASE** digitizes the echo to 16-bit resolution, stores the digital record on hard disk and provides playback with high resolution and detail. 65,536 shades of gray are digitized and 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 full echo replay and post-processing of hydrographic data. 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, 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 anodized aluminum display housings and non-corrosive impact-resistant cases with stainless hardware. Display controls and hinges are o-ring sealed and connectors are waterproof or splash resistant.

The SurveyCase was originally designed for the US military and has remained the choice for rugged environments with severe weather conditions. It proves its worth where a small boat all in one system is needed for simplicity and reliability without sacrificing features and accuracy.



## Internal DEPTH SOUNDER SPECIFICATIONS

|                  |   |
|------------------|---|
| Sounder Software | SDIDEPTH windows pull down menu, keyboard hot key and playback                  |
| Post-Processing  | DEPTHPIC full record loading with ASCII Text XYZ output*                        |
| Survey Software  | SmartSurvey or HYPACK SDI is a distributor for HYPACK software by HYPACK, Inc.  |
| Ranges           | 7.5m to 200m w/ maximum depth bottom dependant and typically 150m to 200 meters |
| 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 (operator setable)  |
| Depth Units      | Meters, Feet, Fathoms   |
| Speed of Sound   | default 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         |

## Internal COMPUTER SPECIFICATIONS

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

|                    |   |
|--------------------|---|
| Operating system   | Windows XP or Windows 8.2 or Windows 10   |
| Microprocessor     | Intel 5 <sup>th</sup> generation iCore 3, 5 or 7  |
| Ports              | Serial, parallel, USB (optional LAN, IEEE1394 Firewire, Ethernet or Bluetooth)                      |
| Keyboard/Mouse     | Waterproof backlit tactile keyboard, waterproof joystick/ button                                    |
| Data Storage       | 520GB Hi-G shock standard, 500 GB Solid State optional  |
| Data transfer      | USB Flash Drive (provided) or removable solid state HDD   |
| Display Type       | 10.4" Diagonal Daylight Viewable LCD TFT  |
| Display Resolution | 1024 x 768 XGA, 256,000 colors  |
| Display Intensity  | 3 to 1400 cd/m <sup>2</sup> (nit) Full sunlight viewable and military 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.   |

## Internal GPS SPECIFICATIONS

The SURVEYCASE uses up to 120 -channel GPS receivers with SBAS/WAAS, GLONASS, sub-meter accuracy and options for 20 cm or 1-2 cm accuracy using SDI's reference GPS base stations and 10 + mile range radios. L1/L2 antennas and receivers are also available.

|               |  |
|---------------|--|
| Receiver      | Novatel or Trimble Precision receiver  |
| Antennas      | DGPS L1 SBAS/WAAS or options for L1/L2 or USCG beacon                                  |
| Accuracy      | Sub-meter in DGPS standard, optional sub-meter 20cm, or 1-2cm Kinematic with RDBS base |
| Output format | WGS-84 Latitude/ Longitude and UTM meters X/Y  |

## Optional SIDE SCAN SPECIFICATIONS

|            |                          |
|------------|--------------------------|
| Frequency  | 330 kHz and 880 kHz      |
| Beam Width | 0.7 degree or 1.8 degree |
| Range      | 400 ft. per side         |



**Made in USA**



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