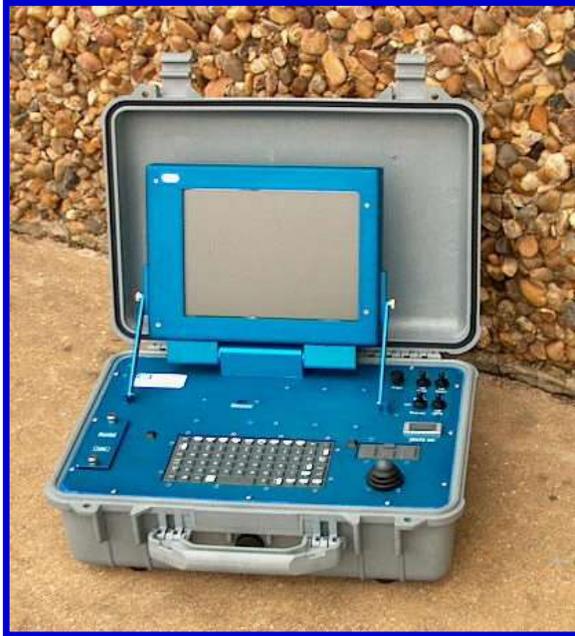


# Bathycase – BC-200JS

## Hydrographic Survey System



The **BATHYCASE – 200JS** is a highly-transportable hydrographic survey system with SDI's MRU 333 motion reference unit is designed specifically for installation in autonomous vehicles or Jet Skis or other in small manned vehicles in applications where operation in very shallow water is required.

**BATHYCASE JS** is a simple-to-operate, full survey-grade depth sounder that digitizes the echo to 16-bit resolution and stores the full digital record 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 provides convenient full echo replay and post-processing of hydrographic data. Navigation data and all other collection parameters are saved with all depth soundings. This "JS" designation of the BathyCase includes features that make this

system ideal for jet ski operation. This includes a Bluetooth keyboard and mouse interface and SDI's proprietary "Shallow Depth" mode for bottom tracking in very shallow water applications. Post-processing can be performed in HYPACK or with DEPTHPIC. Depthpic provides XYZ data in ASCII text format compatible with HYPACK, SURFER, AutoCAD, and GIS programs for contouring and TIN mapping.

**BATHYCASE** operates from 12vdc, and with navigation software, the MRU 333, internal or external GPS, external splash-proof display, Bluetooth keyboard and mouse, a battery and a jet ski, you are ready to survey. SDI's hardened computers include internal shock-mounted electronics contained in a splash proof, non-corrosive, impact-resistant case with stainless steel hardware. This computer is truly field-ready and with the MRU -333 can handle the fast turns and rapid motion of a Jet Ski.



## DEPTH SOUNDER SPECIFICATIONS

<b>Software</b>	SDIDEPTH data acquisition and in-the-field data analysis and replay DEPTHPIC post-processing and editing software
<b>Ranges</b>	7.5m to 200m w/ maximum depth bottom dependant and typically 150m to 200 meters
<b>Minimum Depth</b>	1.2 feet (0.5 meter) standard, 8" (0.2m) optional with split transducer format
<b>Frequency</b>	200kHz (operator settable +/- 10%),
<b>Beam Pattern</b>	9-degree standard, 3-degree optional (200kHz)
<b>Resolution</b>	1.5cm or 0.75cm (operator settable)
<b>Depth Units</b>	Meters, Feet, Fathoms
<b>Speed of Sound</b>	Default Fresh, Salt, or settable
<b>Settings for Zoom</b>	Tide, draft, heave, blanking, keel alarm
<b>Tracking gates</b>	Operator continuously selectable
<b>Data Format</b>	0.1, 0.2, 0.5, 1, 2, 5, 10 (m, ft., fth.). Automatic, settable and fixed
<b>Survey Software</b>	ASCII Text files compatible with HYPACK, SURFER, and GIS packages, SmartSurvey 2013 or optional HYPACK Software SDI is a distributor for HYPACK software by HYPACK, Inc.

## COMPUTER SPECIFICATIONS

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

<b>Operating system</b>	Windows 7
<b>Ports</b>	USB, Serial and optional Ethernet
<b>Keyboard/Mouse</b>	Waterproof external keyboard is mounted in front of the operator
<b>Data Storage</b>	160GB Hi-G shock standard, 340 GB optional
<b>Data transfer</b>	USB flash drive
<b>External Display</b>	VGA analog (XGA) output for external display
<b>Input Power</b>	12vdc @ 2.8 amps, (normal operational conditions)
<b>Size</b>	18" w by 15" d by 7" High (1 cu.ft.)
<b>Weight</b>	21 lbs.

## NAVIGATION

The IDS can serve as your navigation computer with the installation of SDI's SmartSurvey software or your HYPACK SURVEY software and your input of DGPS data from your external DGPS receiver.

## SMARTSURVEY Software

Integrated Navigation Bathymetric and Sub-Bottom Survey Software  
Automated Preplan Line Generation, Background Charts, Target Generation  
Integral Bathymetric Survey Software and Sub-Bottom Sediment Mapping Software (SDIDEPTH)  
Streamlined Full Echo Post-Processing Software with multiple Sub-bottom layer definition

**Please see our Motion Reference Units (MRU) for Single Beam and Multi-Beam Bathymetry Applications**

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HYPACK is a trademark of Hypack, Inc., Windows 7 is a trademark of Microsoft, Corp.  
Surfer is a trademark of Golden Software, Inc., AutoCAD is a trademark of AutoDesk Corp.



**Made in USA**



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