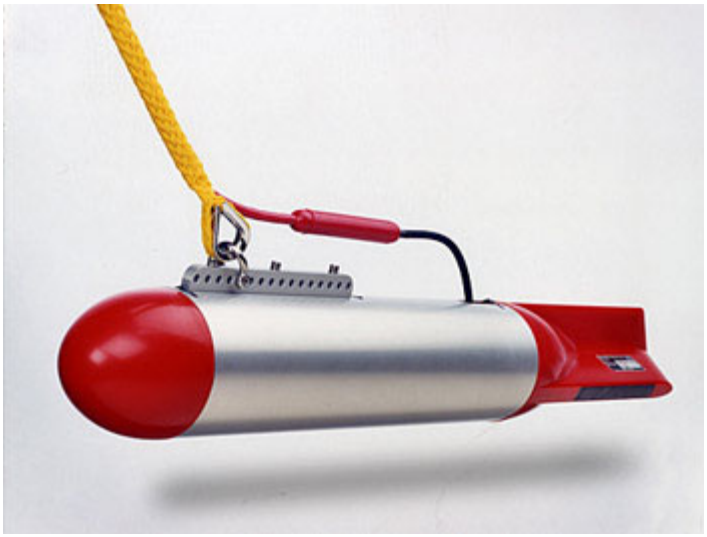
Digital Sidescan Sonar System

A Product Manufactured by Imaginex, Inc

The new SportScan sidescan sonar system is a truly remarkable breakthrough with price and performance for sidescan towfishes. This totally digital, full-featured system is complete and ready for connection to a host PC computer (including software), all for 1/10th the cost of other sidescan sonars! Like many other sonar systems the SportScan can be completely controlled from your laptop computer: ranges can be changed, gains set, images and data can be sent to your printer or stored on hard disk, all with the click of a mouse button.

The SportScan is designed from top to bottom for ease of deployment and use. A highly advanced Kevlar™ reinforced towfish cable (included with the standard unit) is light enough to eliminate the need for a winch. The towfish operates from a standard 12 Volt DC power supply or boat's battery, and the RS-232 connector plugs directly from the Kevlar™ towfish cable into the back of a PC computer or laptop. Simply load the towfish body with as much ballast weight as desired, lower the towfish over the side of the boat by hand, and start towing.



Sharp, high definition images of the sea-floor immediately roll onto the computer screen! Coral reefs, rock outcroppings, and submerged shipwrecks show up clearly as the towfish goes by. If mapping of underwater features is desired, the SportScan software can read GPS (Global Positioning System) data fed into the PC computer, display it on the screen, and use the speed over ground to adjust the aspect ratio of the sonar image. Objects can have their height and length determined with the click of a mouse. All data can also be stored to hard disk for later display and analysis. The accuracy and resolution of the SportScan combined with GPS makes returning to underwater features of interest easy. For further data processing and map plotting, optional software is available to convert SportScan data to XTF format, which is compatible with most mosaic programs.

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SportScan Specifications

Hardware Specifications

Frequency	330 kHz or 330/800 kHz dual frequency
Transducers	One transducer per side, tilted down 20^0
Transducer Beam Width	330 kHz: 1.8^0 x 60^0 800 kHz: 0.7^0 x 30^0
Display Resolution	Both sides displayed: Range scales ÷ 200 Single side displayed: Range scales ÷ 400
Max Operating Depth	30 meters (100 feet)
Max Cable Length	60 meters (200 feet)
Interface	RS-232 Serial Interface @ 115.2 kbps
Connector	Wet mateable (Impulse LPMBH-4-MP)
Power Supply	10 – 16 VDC at 200 mA max.
Dimensions	114 mm (4,5”) diameter x 833 mm (32.8”) length
Weight	In Air: 4.5 kg (10 lbs) In Water: 1.2 kg (2.7 lbs)
Ballast	Standard diver belt weights, or equivalent
Construction Materials	Polyurethane & 6061-T6 Aluminum
Finish	Clear anodized

Software Specifications

Windows Operating System	Win881ss.exe
Modes	Side Scan
Range Scales	15, 30, 60, 90, and 120 meters (50, 100, 200, 300, and 400 feet)
File Format	(filename).81s
GPS Input (4800, N, 8, 1) NMEA 0183 Formats:	GLL, CGA, VTG, RMC
Recommended Computer Requirements	100 MHz Pentium 16 MB RAM 1 GB Hard Disk 800 x 600 x 256 Color Graphics

Ordering Information

30 m unit w/23 meter tow cable	Standard Configuration	GSS.881.000.150
330/800 kHz	Option	GSS.005
45 m (150’) Tow Cable	Option	GSS.016
60 m (200’) Tow Cable	Option	GSS.017
XTF Converter (converts *.81s to XTF format)	Option	GSS.019
Rough Rider II Plus PC Ruggedized, waterproof field laptop PC	Option	GSS.020 CALL FOR PRICES, SPECIFICATIONS, AND OPTIONS