



Newsletter – *Aug 2013*

ASB Systems Pvt. Ltd.

Fish 'em out!

Do you wish to keep chasing fish all the time, or would you rather zero in on the locations where you can easily find them?? If your answer is the latter, **Biosonics** is your solution...

Popularity of a certain brand does not necessarily guarantee its worthiness....a monopolistic market may have ensured its survival. A particular car brand which was ubiquitous on our streets till few years back is no longer even manufactured, and the ones that are still operating are on the verge of extinction. Its popularity was not due to its performance, or the frugal features that it boasted of. Infact when choices were made available, the brand started disappearing from the roads faster than a flash.

Similar so is the case with Scientific Echosounders. To term these simply as "Fish-finders" would be a gross misnomer. Today these devices have evolved into much more sophisticated instruments which can do a lot more than just fish-finding.

Knowing how to search for fish is one thing....also knowing where to search for fish is another!

In this issue...



Biosonics – A complete Scientific Echosounder



Scientific Echosounder models – Comparison



Special Application – Waveglider DT-X sub



Coda Octopus Summer Promotion

Customer satisfaction is our prime objective

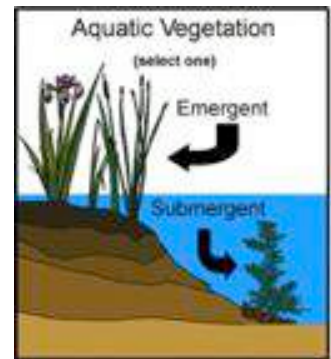
BIOSONICS Scientific Echosounders

Any scientific echosounder is capable of doing Fish stock assessment and providing the user with depth information. But only Biosonics is also capable of doing accurate Substrate classification and Submersed aquatic vegetation mapping in addition to the above.

Substrate classification - A Substrate is the surface on which a plant or animal lives. Studies have proven that the substrate type plays an important role in determining fish habitat areas.

Aquatic vegetation mapping - These plants are important because they help protect water quality, provide habitat for fish and wildlife, and provide economic and aesthetic opportunities.

The above factors coupled with fish finding features is what makes it a complete Fish finding solution. While there are several other players in the market, when it comes to features like Habitat mapping, Population & Biomass estimation, Split-beam technique, and measuring SAV, Biosonics is the obvious choice.



Presented below is a comparison chart between Biosonics, and models available from some other manufacturers around the world.

	Biosonics DT-X/ DT-X sub/MX	European manufacturer	Canadian manufacturer	Japanese manufacturer
				
Application	Fish stock assessment, bathymetric surveying, substrate classification, and submersed aquatic vegetation mapping	Fish stock assessment and habitat mapping	ROV, AUV & UUV installation Fish finding	Fish Finder
Type	Portable/Uplooking	Portable/Uplooking	Portable	Ship fitted
Technology	Split-Beam - Four simultaneous transducers possible	Single-beam - requires multiple transceivers	Single transducer	Scanning transducer for fish detection
Frequency	38, 70,120, 200, 420, &1000 kHz	200Khz	120Khz	24 or 80 Khz

Depth Range	Upto 500m	200m	0.5-100m	Upto 5000m/Upto 2000m
Internal DGPS	Yes	No	No	No
Submersible mode	Internal memory and/or real-time data in submersible model	No internal memory, only real-time data	NA	NA
Drawback	<p>Biosonics is the only sounder which can do all of the following:</p> <ol style="list-style-type: none"> 1. Fish stock assessment 2. Bathymetric surveying 3. Substrate classification 4. Submersed aquatic vegetation mapping 	Requires Multiple Transceivers and transducers	Low on features, mainly for ROVs	Dedicated fish finder w/ echosounder, no substrate classification or vegetation mapping. All models are hull mount type only, not portable

Applications:-

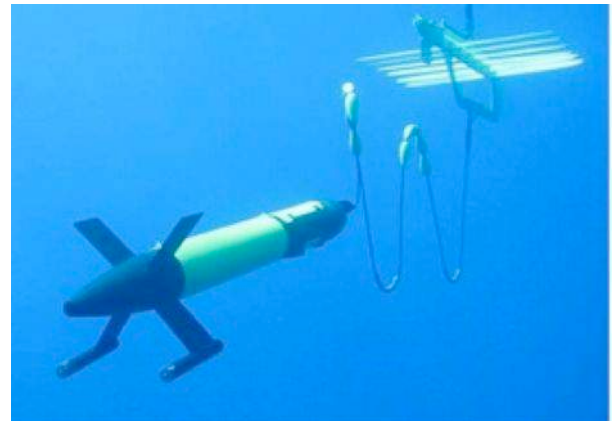
Fisheries stock assessment - Determine fish location, distribution, quantity, size, behavior, and biomass. Advanced analysis provides details on individual fish behavior and movement.

Submersed Aquatic vegetation (SAV) - Detect and measure SAV density, canopy height and geographic distribution. Data can be read into GIS or other application for further analysis or mapping.

Substrate classification - Classify bottom substrates such as rock, sand, or mud. Data can be easily uploaded into GIS or other application for further analysis or mapping.



Wave Glider DT-X SUB Tow Vehicle



Wave Glider DT-X SUB Tow Vehicle During Testing in Hawaii

Special: The Wave Glider® DT-X SUB is a hybrid machine combining a Liquid Robotics Inc. (LRI) Wave Glider, a wave-propelled autonomous marine robot with a BioSonics DT-X scientific echosounder housed in a purpose-built, missile-shaped tow vehicle. The LRI Wave Glider is a new class of persistent ocean vehicle able to harvest the energy in ocean waves to provide essentially limitless propulsion. Data are logged within the DT-X SUB and downloaded after vehicle recovery. The high-resolution data can be analyzed for information on bathymetry, fish biomass, marine mammals, mixing layers, and other variables.

Coda Octopus Summer Promotion

Coda Octopus is celebrating its achievement of developing and supporting their GEO range of software for twenty years, with an installed population of 500 seats world-wide.

As a part of this celebration, Coda Octopus has announced a promotional “Summer Offer” which will run until 31st October 2013. The GEO range of products consists of the DA4G data acquisition system, Seismic+, Sidescan+ and Mosaic software. **Do contact us for more details....**



Seismic+

Sidescan+

Mosaic



Summer Offer 1:

This offer is for the purchase of Seismic+, Sidescan+ and Mosaic modules. The buyer will be entitled for a discount of over 30% off the normal price. As an additional benefit, the Mosaic module will be eligible for upgrade to any new version of similar software produced by Coda Octopus within the next twenty-four months. A further 15% off for order quantities of 5 or more.

Summer Offer 2:

This offer allows the user to update their existing Coda Octopus Sidescan or Seismic software to the latest Siesmic+ and Sidescan+ versions at a 20% discount off the normal price.

Summer Offer 3:

This offer allows the user to update their existing Coda Octopus DA Series to the latest DA4G model and includes the File Utilities free of charge, and an opportunity to have the Acquisition Interfaces module at less than half the normal price.

Summer Offer 4:

This offer is for the DA4G500 with Seismic+. DA4G500 supports 1 trigger and 2 analog channels. This offer allows the user to replace or add to their seismic survey data acquisition and processing software with the latest technology from Coda Octopus with over a 15% discount from the normal price.

Summer Offer 5:

This offer is for the DA4G2000 with Seismic+. DA4G500 supports 2 triggers and 4 analog channels. This offer allows the user to replace or add to their seismic survey data acquisition and processing software with the latest technology from Coda Octopus with over a 20% discount from the normal price.