



# Coda Octopus:3D

Real-Time Sonar Solutions

USE™



## Benefits

- Real time visualisation software for Echoscope® real time 3D sonar range
- Patented rendering techniques for clear 3D imagery
- Multiple editions to meet client budget and project requirements
- Modern user interface for ease of operation
- Feature-rich tools for reporting and data output
- Additional software modules to enhance capabilities
- Expert 24x7 Technical Support

## Applications

- High definition seabed surveys and inspections
- Subsea asset inspection and real time monitoring
- Marine construction monitoring
- Port Security and UXO surveys
- Scour monitoring, dredging and rock dumping
- Cable lay monitoring in real time
- Decommissioning and salvage operations

# World leading, real time, 3D software solutions for use with the unique Echoscope® 3D sonar

**Underwater Survey Explorer™, or USE™, is a range of state-of-the-art software editions for recording, displaying, processing and reporting on real-time 3D sonar data across our Echoscope® range (XD, Echoscope®, C500). Using the very latest in software development techniques and patented rendering algorithms, USE™ software will enable you to view the subsea scene in the highest definition possible and has been developed specifically to provide significant productivity and result processing capability. Now with our unique Volume Rendering engine and further enhanced by optional software modules and application specific solutions, each USE™ edition can be used for a host of subsea projects to increase productivity and enhance underwater visualisation.**

The top-level USE Professional™ edition captures all software features for optimising the visualisation of Echoscope® 3D data with options for live tagging and full editing of markers, simultaneous export to 3rd party navigation systems, beam-by-beam editing, alongside a number of digital terrain model (DTM) output methods and Volumetric Rendering engine which enables data to be rendered as a textured model with much higher resolution than normal and a more efficient memory storage.

Significant advantages to USE™ editions can be made by adding optional software modules or through application specific packages. Modules such as Baseline Comparison™, Models™ and Exporting™ can easily be added to USE™ PRO either at the time of order or by upgrading at a later date. Application specific software packages, such as CMS™, for marine construction monitoring, provide a unique feature set to increase concrete block placement productivity during breakwater construction.

Designed specifically for optimising data imagery from the world's leading real time 3D sonar, the Echoscope®, USE™ editions with optional Modules and Application Software solutions will deliver unsurpassed results whatever your subsea operational needs.

## Features

- Interactive 3D and 2D display
- User configurable data display
- Multiple data displays to maximise subsea feature visualisation
- Chart overview display
- Intuitive software set-up and controls
- Real-time Measurement Management and Reporting
- User selectable navigation data set-up
- On-line data measurement with automatic output options
- Colour code sonar data from user-defined datum point
- 3D Beam editing and Image Processing
- Volumetric Data Rendering Engine



# Coda Octopus

Sound Underwater Intelligence

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RealTime Sonar Solutions

USE™

	USE Advanced™	USE Professional™
<b>Software Views</b>		
Interactive 3D and 2D display	✓	✓
Chart view	✓	✓
Real time mosaic	✓	✓
Data rendering options	✓	✓
User-defined colour palettes	✓	✓
<b>Markers</b>		
Full marker suite	Limited	✓
<b>3D Modelling</b>		
Use of standard modelling set	✓	✓
Colour range by height from model datum	*	✓
Add optional Models™ software module	*	✓
<b>Advanced Processing</b>		
Create 3D image mosaic	✓	✓
Volume Models	✓	
Beam editing	✓	
Create mosaic for importing to marker suite	*	✓
Edit data per ping	✓	✓
Beam clipping from 128x128 to user-defined range	✓	✓
<b>Advanced Measurement Options</b>		
Real time measurement output via serial or UDP	*	✓
Real time measurement logging to file	*	✓
Repeat measurements	✓	✓
<b>Data Correction Options</b>		
Patch offsets and SVS corrections	✓	✓
SVP correction input options	*	✓
Navigation and tide correction input with smoothing	*	✓
On-line navigation smoothing	✓	✓
<b>Data Output Exports</b>		
Screen image capture	✓	✓
Raw X,Y,Z data export	✓	✓
Optional Exporting™ module	✓	✓
2D binned X,Y,Z output	✓	✓
Image output with automatic chart import	✓	✓
Creation of smaller sub-project files	✓	✓
<b>System Requirements</b>		
Processor	Intel® Core™ 2 DUO @ 2.2 GHz or equivalent (Intel® Core™ i7 recommended)	
Memory	2 GB (4 GB for 64-bit systems)	
Disk space	100 MB for installation (approximately 3.0 to 3.5 GB per hour, dependent upon ping rate)	
Graphics	Discrete nVidia® GTX460 (Desktop) or nVidia® GTX580M (laptop) or equivalent	
Operating System	Microsoft® Windows® 7 SP1 / Microsoft® Windows® 8	
Ports and I/O	Ethernet: 2 minimum, 3 recommended	
USB 2.0 port:	4 minimum, 6 recommended	
Serial:	4 minimum or via USB to serial adaptor	

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