CodaOctopus
Sound Underwater Intelligence

Benefits

Improved situational awareness
Real time decision making
Increased productivity
Maintain subsea operations in zero visibility
Minimises non-productive time
Enhanced safety

Expert 24x7 Technical Support

Applications

Port and Harbour security
Infrastructure inspection
Dredging and rock dumping
Cable laying, burial and pull-in monitoring
Scour inspection
Marine salvage
Diver monitoring
Obstacle avoidance and ROV navigation
Decommissioning
Contraband detection
Biological studies (fisheries, marine mammals)
AUV and ROV 3D Volumetric Mapping

The Echoscope® C-Series. Compact real-time 3D sonar for performance and economy

The Echoscope® C500 forms part of the new Echoscope® Compact Series (C-Series). The C500 is based on our patented Echoscope® technology and delivers real-time 3D sonar capability in a smaller, lighter, ruggedised form factor with reduced power requirements.
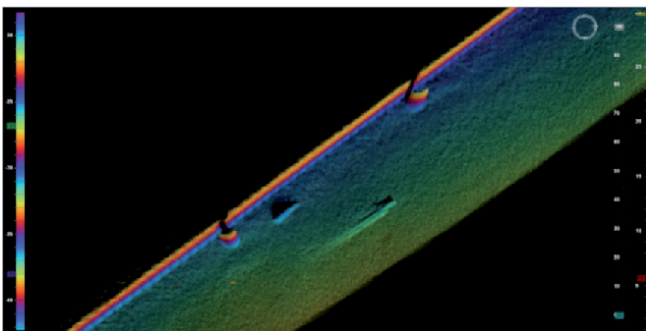
The Echoscope® C500 is suitable for ROV and AUV based applications as
well as vessel deployments. The unit outputs real-time 3D data at beam widths of 1.1° x 2.1° (375 kHz) and 0.6° x 1.2° (610 kHz).

Fully integrated with our powerful CodaOctopus® Underwater Survey Explorer (USE) software, the C500 can be used with the full range of functionality available including the latest Models+ module allowing dynamic control of sonar augmented 3D models in the 3D Workspace. The C500 allows the acquisition of full real-time 3D data in a time efficient manner.

Features

- High definition 3D sonar image generated in real-time
- Mosaicing capability
- Displays complex moving structures accurately
- Accurate even in turbid water
- Suitable for installation on vessels, ROV, barge or crane
- Accurate geo-referenced data
- Versatile DTM output options
- Very easy to use even by non-sonar experts such as crane operators and law enforcement officers

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Technical Specifications

Performance (by Model)	Echoscope® C500
Frequency	375 and 610kHz
Number of beams	128 x 64 (8,192 total)
Maximum range*	80m (262 ft)
Minimum range*	1m (3.3ft)
Range resolution	**2cm (0.79")**
Update rate (ping rate)	Up to **20 Hz** software selectable
Angular coverage	50°x50°, 50° x 25°, 25° x 50°, 25° x 25° software switchable
Beam spacing	0.39° (Hor.) or 0.78° (Vert.) at 375 kHz or 0.19° (Hor.) x 0.39° (Vert.) at 610 kHz dependent on angular coverage

*Software selectable
**The actual working range will depend on the target's size, reflectivity, and the level of detail required for the application

Physical	
Dimensions (h x w x d) (excluding connectors)	292 x 300 x 171.5mm (11.5" x 11.8" x 6.75")
Weight in Air	17.6 kg (38 lbs)
Weight in Water	7.5 kg (16.5 lb)
Power Consumption	2.05A at 24Vdc
Depth Rating	600 m (1,968ft) with 3,000m (9,840ft) option

Interfaces	
Sonar head to control unit	Single cable for power, data and control
Control unit to top-end PC	**100Mb Industry Standard Ethernet** and RS232

Applications

Port and harbor security, Infrastructure Inspection, Underwater construction, Dredging and rock dumping, Mattress laying, Cable laying, burial and pull-in monitoring, Scour inspection, Marine salvage, Diver monitoring and identification, Obstacle avoidance and ROV navigation, Decommissioning, Contraband detection, Biological study (fisheries, marine mammals)

Echoscope® C500 data. St. Petersburg, Florida

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