



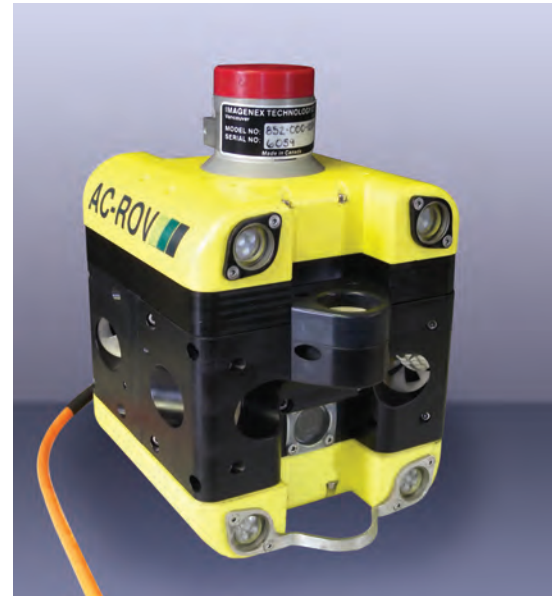
AC-ROV Scanning Sonar

The market leading **AC-ROV 100** Underwater Inspection System is available with an Ultra-Miniature digital Scanning Sonar, retro fit option.

Sonar is an acoustic technique which presents an image of the environment in conditions when the camera is limited by the visible range. There may be times when visibility is poor making the location and inspection of targets in the water a more difficult task. Sonar helps overcome this problem and is an aid to navigation.

In-line with the **AC-ROV** ethos of mobility, portability and robustness the solution is an integrated arrangement of the Imagenex Model 852 Sonar. The outcome retains the clean, robust and snag free shape of the **AC-ROV**, whilst the topside interface is 100% Imagenex standard.

The Sonar system could not be easier to deploy, with **no modifications required** to the **AC-ROV** system and **no specialist training** for integrating the transducer block to the vehicle.



- **Scans to Maximum AC-ROV Depth**
- **Real Time Scanning Output**
- **AC-ROV mobility, portability and robustness**
- **Simple 'no modification' retrofit**
- **Can be fitted to most existing AC-ROV 100s**

The model 852 Digital Imaging Sonar has been customised for use with the **AC-ROV 100** to offer the world's smallest scanning sonar ROV package.

SPECIFICATION

Sonar Type	Imaging Type, Fan Beam, Fluid Compensated Transducer.
Scanning Range	50m (164 feet)
Continuous Rotation	360 degrees
Range Accuracy	0.02 meters typical (0.8 inches)
Beam Width	2.5 degrees x 22 degrees
Min. Detectable Range	150mm
Step Sizes	3 degrees (normal), 6 degrees (fast)

DEPLOYMENT and OPERATION:

The system can be easily retro-fitted to the **AC-ROV** to provide real time data feedback for display on a PC or laptop using Imagenex custom made software.

Install the Imagenex software onto a PC or laptop and connect the serial interface cable between the **AC-ROV** control box and the laptop / PC USB terminal. The Sonar is then ready to use.

With the **AC-ROV** deployed and for best results find a stable platform or ensure stability during flight and commence scanning. The real time scan data will be displayed on your PC or Laptop through the Imagenex software to provide a two dimensional image of any solid objects within 50 meters of the **AC-ROV**.