

# Case Study:

## BAY DYNAMICS INTEGRATES ISS360 SONAR INTO CUSTOM BLUEROV-C



### Overview

Bay Dynamics, a leading provider of subsea solutions in New Zealand, has developed a bespoke commercial ROV, the BlueROV-C featuring the Impact Subsea ISS360 Imaging Sonar.

Designed and built exclusively by Bay Dynamics, the BlueROV-C adapts the popular Blue Robotics ROV platform to suit the needs of commercial operators. In this instance, a tailored, retractable mount was engineered to integrate the ISS360 seamlessly.

### Challenge

A local New Zealand Council required a compact, transport-friendly ROV equipped with high-performance imaging sonar to carry out critical infrastructure and reservoir inspections.

**These reservoirs supply drinking water to towns and communities, making reliability and data quality essential.** The solution had to be robust, compact and easily deployable, with minimal setup time.

### Solution

Bay Dynamics recommended the ISS360 Imaging Sonar, known for its exceptional clarity, range and performance in a compact form factor.

To complement this, the team engineered a custom retractable mount, allowing the sonar to be quickly deployed or stowed without tools, simply by loosening a knob. This ensured the system was easy to transport while preserving the sonar's full functionality during inspections.



BlueROV-C with ISS360 Sonar lifted & ready for operation.



BlueROV-C with ISS360 Sonar stowed for transport.

### APPLICATIONS INCLUDE:

ROV & AUV Navigation | Target Identification | Diver Navigation |  
Port Surveillance | Motion Reference | Search & Recovery |



### Results

- **Toolless, retractable sonar deployment** system designed specifically for the ISS360.
- **Improved versatility and ease-of-use** for operators conducting drinking water reservoir inspections.
- **Positive customer feedback**, citing satisfaction with both the sonar and the custom integration.



### Featured Technology

- **ISS360 Imaging Sonar**, High-resolution, 360° imaging for underwater operations.
- **BlueROV-C**, Custom commercial ROV platform by Bay Dynamics.

### About Bay Dynamics

Bay Dynamics are trusted distributors of Impact Subsea products in New Zealand and experts in developing tailored ROV systems.

Their BlueROV-C platform reflects their commitment to innovation and customer-focused engineering.

### Quote from Bay Dynamics:

"We designed the retractable ISS360 mount specifically for this project, it's compact, completely toolless and works beautifully.

The customer loves it."



BlueROV-C with ISS360 Sonar stowed for transport.