

Switchable FLS Imaging Option

R2Sonic incorporates a switchable forward-looking sonar (FLS) imaging option to Sonic 2024 Broadband Multibeam Echosounder Systems. When enabled, the option allows the user to easily switch from operating the Sonic 2024 in a bathymetric profiling mode, projecting a narrow 1° along-track beam, to an imaging mode projecting a wide 22° vertical beam.

In imaging mode the operator will see a plan view ahead of the sonar in real time, at much greater ranges than underwater cameras.

The Switchable option can be useful for a number of different operations. As application needs change, the Sonic 2024 asset can serve multiple functions.

- Offshore Applications: On underwater vehicles the sonar can be mounted on a tilt table, and when oriented horizontally is used for obstacle avoidance and search, while pointed downward can be used to map the bottom precisely. These underwater vehicles can range from ROV, AUV, Pipe or Cable Burial Plough, Excavator etc.
- Dredging Applications: Real-time control of dredging and mining operations where there may be a need to scan volume in addition to make precise bottom maps.
- Defense Applications: Harbor mapping tool in peace time, intruder and mine detection sonar in times of threat.
- Research Applications: Volumetric mapping, behavior tracking and monitoring pelagic fish schools or marine mammals in the water column.