Marine Magnetics

Side Scan Sonar
Integrations

The easiest all-in-one solution to integrate our products with side scans.

A single 10m tow cable is terminated with everything you need. No modifications to your magnetometer or gradiometer are required. Simply swap out your tow cable for the integration cable and you are ready to go. Best of all, your accessories, including power supply, are still compatible. The integration maintains the basic system integrity of each product, ensuring that they can both run independently as well as together.

What Does The Integration Cable Consist Of?

The side scan integration consists of a single 10m tow cable terminated on one end with a stainless steel housing rated to 3000m, that provides both an electrical and mechanical tow point. The other end mates with a SeaSPY and SeaQuest. The voltage range is 20-250VDC.

How do I connect the two products?

Mechanical Tow Point

The interface tow point connects to an extension bar fastened to the side scan. The side scan tow cable connects to the top of the bar, and our interface clips directly to the bar with a clevis pin (provided), through a universal link that allows swivel action in two dimensions, while preventing the towfish from rotating.

Electrical Tow Point

The electronics provide power conditioning and everything required to interface with the side scan. The electronics continuously limit output power to a maximum of 10W, ensuring that no damage will occur to the mag/grad or side scan if the contacts in the integration cable are inadvertently shorted.

Even though the side scan can supply the integration cable with as much as 250VDC, the integration cable never carries more than a safe 24VDC.

Why A 10m Cable?

Protect Your Mag

After numerous sea trials with side scan manufacturers we found that 10m was an optimum length for the retrieval process. Shorter distances placed the mag at risk of smashing up against the survey vessel when the side scan was winched in. Should you require a shorter or longer cable length, we will meet your requirement.

How Does the Data Get To Me?

Digital Output

The digital data output from SeaSPY and SeaQuest is sent to a data input port on the side scan unit. The side scan's telemetry is then used to relay the magnetometer data to the surface, where it is then decoded from the side scan data stream and can be viewed using our SeaLINK software on your PC.

Options

- Interface housings rated to 6000m
- Longer or shorter integration cable lengths
- Floatation tow cable
- For integrations with other digital side scans, please contact Marine Magnetics at info@marinemagnetics.com

We have integrated with

Benthos SIS1000, SIS1500, SIS3000
EdgeTech 4150, 4200, 4300, 4700, 2000 and 24000
Geoacoustics 2000 combined side scan and sub-bottom
Geoacoustics dual frequency and digital side scans
Klein 2000, 3000 and combined K chirp sub-bottom
Tritech SeaKing

For additional information about side scans, please contact the manufacturer directly:

Benthos	www.benthos.com
EdgeTech	www.edgetech.com
Geoacoustics	www.geoacoustics.com
L3 Klein	www.L3com.com
Tritech	www.tritech.com

"This is to attest to our satisfaction with the SeaSPY magnetometers that we operate as part of our equipment pool. We have found them to be reliable and user friendly. Our clients have been pleased with the resultant data as well.

We appreciate your assistance in maintaining our units, and rushing parts to us on those occasions where we have needed them."

Ewan Cumming
Fugro Jacques GeoSurvey

SeaSPY and SeaQuest are ideal to integrate for 4 reasons:

Ultra low power requirements

Unmatched deep tow capabilities

Worldwide operation without any restrictions – no dead zones

Their sleek design ensures the towing stability of the side scan is not compromised

SeaSPY, the product we launched over 10 years ago, was designed to pick up where traditional marine magnetometers left off. Initial research and our sales since then tell the same story: surveyors want a mag they can rely on. SeaSPY's mandate was to help surveyors save time, money, and energy by taking the realities of working in the field into account.

SeaQuest is the only gradiometer platform able to measure gradients in all three axes simultaneously, accurately and in real time. It is your best chance for finding the proverbial needle in a haystack. SeaQuest suppresses background geology, rendering small man-made objects identifiable. The platform is expandable from 2 to 10 sensors.

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