

GeoAcoustics Digital Side Scan Sonar



GeoAcoustics has launched the Sonar 2094 Digital, based upon the GeoAcoustics Dual Frequency Side Scan Sonar. Around a thousand of these systems have been sold since their 1994 launch and hundreds of thousands of line-kilometres have been surveyed across the world's oceans. The system adds to the characteristics of its predecessor the benefits of digital technology.

The Sonar 2094 Digital is capable of

- Simultaneous dual frequency, 114 kHz and 410 kHz
- 24bit data acquisition offering a dynamic range that makes acquisition AGC and TVG obsolete thus providing repeatable results
- Extended range performance through 20 MHz raw data sampling and dynamic digital

filtering techniques

- Improved resolution
- Very long cable operation

Sonar 2094 Digital incorporates the established 159D towfish design which is now equipped with new, fully digital electronics, supported by a wide bandwidth link to the new Digital Side Scan Transceiver deck unit.

The towfish can be supplied with attitude and/or depth sensors options as well as an RS232 channel for a magnetometer interface. Its standard depth rating is 1000m with a 2000m-rated towfish available.

The Digital Side Scan Transceiver has an onboard Windows PC for acquisition software installation and can be delivered with an inbuilt GPS interface.

Upgrade paths are available for existing GeoAcoustics Dual Frequency Side Scan users.

<https://www.hydro-international.com/content/news/geoacoustics-digital-side-scan-sonar-2>
