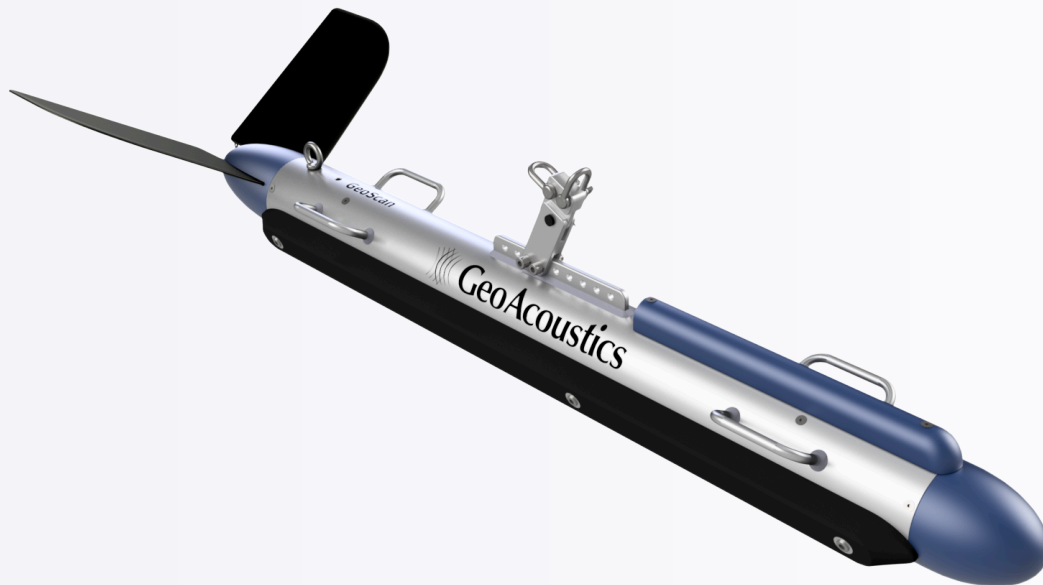# GeoScan 2361

## Simultaneous Dual Frequency Side Scan Sonar

**GeoAcoustics**

## OVERVIEW

**The GeoScan 2361 is a simultaneous dual-band, high-definition Side Scan Sonar designed for a diverse range of survey applications. Operating at 300 kHz and 600 kHz with a 60 kHz bandwidth, the GeoScan 2361 is the ideal solution for end-users demanding the highest range performance.**

The GeoScan 2361 uses ultra-short pulses and pulse compression technology for improved range resolution across track and image resolution. A dynamic variable aperture focusing system improves resolution at shorter ranges and quality at longer ranges, and an automated image equalisation system enhances contrast and definition.

The GeoScan 2361 contains an embedded pitch, roll & heading sensor, and a pressure sensor for depth measurement. Ideal for underwater infrastructure inspections, pipeline surveys, emergency response, archaeology, marine pasture assessments, and environmental monitoring, it delivers precise, high-resolution data at range.

## KEY FEATURES

- Dual frequency operation: 300 kHz & 600 kHz deliver increased range
- 60 kHz update time
- CW and Chirp pulses
- No near-field blurring
- Superior terrain visualisation

## APPLICATIONS

- Search & Recovery (SAR)
- Hydrographic surveys
- Object detection/identification
- Inspection & Engineering
- Marine Geology & Archaeology

# GeoScan 2361    Technical Specifications

## Performance

| | |
|---|---|
| Working Frequency | 300 kHz / 600 kHz |
| Signal Bandwidth | 60 kHz |
| Max Slant Range | 230m @300 kHz / 120m @600 kHz |
| Horizontal Beam Width | 0.28° @300 kHz / 0.26° @600 kHz |
| Vertical Beam Width | 50° |
| Across Track Resolution | 2.5cm @300kHz/ 1.25cm @600kHz |
| Along Track Resolution | 300 kHz: 0.24 m @5O m; 0.49 m @1OO m; 0.73 m @15Om<br>600 kHz: 0.09 m @20 m; 0.23 m @5O m; 0.34 m @ 75m |
| Signal Type | CW/Chirp |
| Working Depth | 300 m |
| Auxiliary Sensors | Pressure, roll, pitch & heading |

## Physical

| | |
|---|---|
| Towfish Size | 100 x 1200 mm |
| Towfish Weight | 25 kg (In Air) / 12 kg (In water) |
| Sonar Interface Module Size | 208 x 127 x 66 mm |
| Sonar Interface Module Weight | 1.6 kg |
| Power Supply | DC 20-36V |
| Power Consumption | 60 W |
| Cable Length | Standard 50 m (200 m Optional) |
| Data Interface | Ethernet Cable |
| Working Temperature | -2°C ~ 40°C |
| Storage Temperature | 20°C ~ 55°C |

## Software

| | |
|---|---|
| Display & Control Software | Supplied with GeoScan software for control and storage of sonar data |
| Third Party Compatibility | Export XTF format data to 3rd party applications |

Specifications subject to change without notice. E&OE