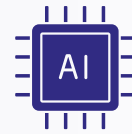
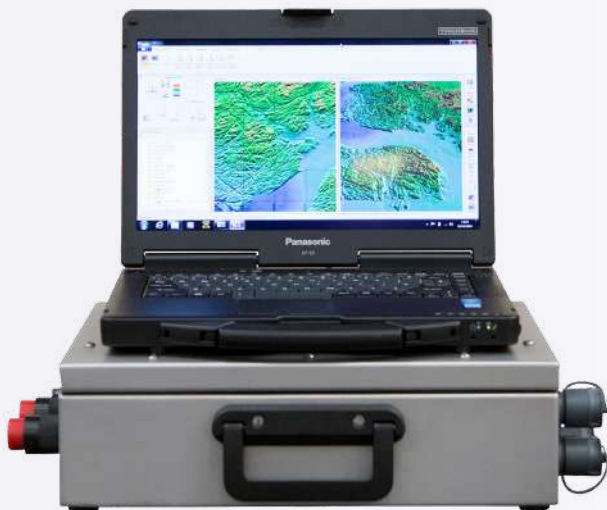




# GeoSwath 4R

## AI-Enabled Ruggedised Wide Swath Bathymetry and Side Scan System



Save time at sea and ashore with powerful real-time AI data processing, only on GeoSwath 4.

### OVERVIEW

**GeoSwath 4R offers industry-leading simultaneous swath bathymetry and side scan sonar mapping for shallow waters and is ideal for use in challenging conditions and on small vessels of opportunity.**

With data accuracies exceeding IHO hydrographic survey standards, GeoSwath 4R's transducer head provides a 240° field of view from port to starboard waterline and bottom coverage up to 12 x water depth. With flexible mounting options, the transducers are available in 125, 250, or 500 kHz frequencies, so any survey task can be optimised.

The included\* GS4 software provides a complete project-based solution for acquisition, storage and editing of sonar and ancillary data, data processing and advanced data gridding capabilities, side scan mosaicing, and 3D data visualisation.

### KEY FEATURES

- Ultra high resolution wide swath bathymetry
- 240° field of view to water line
- Bottom coverage up to 12 x depth
- Available in 125, 250 and 500 kHz
- IP66-rated splash proof deck unit
- Ruggedised laptop

### APPLICATIONS

- Hydrographic Surveys
- Dredging surveys
- Environmental surveys
- Rapid environmental assessment
- Inland waterway/seabed mapping
- Infrastructure inspection



# GeoSwath 4R

# Technical Specifications

| GeoSwath 4 Transducer                                  | 125 kHz   | 250 kHz   | 500 kHz   |
|--|---|---|---|
| Max Water Depth Below Transducers                      | 200 m   | 100 m   | 50 m  |
| Max Swath Width  | 780 m   | 390 m   | 190 m   |
| Max Coverage   | Up to 12 x depth                                | Up to 12 x depth                                | Up to 12 x depth                                |
| Range Resolution                                       | 6 mm  | 3 mm  | 1.5 mm  |
| Angular Resolution                                     | 0.04°   | 0.04°   | 0.04°   |
| Two-Way Beam Width (Horizontal)                        | 0.85°   | 0.75°   | 0.5°  |
| Max Swath Update Rate                                  | 30 per second (simultaneous port and starboard) | 30 per second (simultaneous port and starboard) | 30 per second (simultaneous port and starboard) |
| Transducer Head Dimensions                             | 550 mm (L) x 250 mm (W) x 476 mm (H)            | 468 mm (L) x 165 mm (W) x 411 mm (H)            | 362 mm (L) x 150 mm (W) x 361 mm (H)            |
| Transducer Head Weight, including peripherals (approx) | 35 kg   | 20 kg   | 14 kg   |

## GeoSwath 4R Deck Unit

|             |  |
|-------------|--|
| Physical    | Depth: 495 mm including handles, 700 mm including transducer cables<br>Width: 427 mm, 490.5 mm including 19" rack support<br>Height: 137 mm with feet, 131 mm rack mount (3U)<br>Weight: 11.5 kg |
| Power       | 100 VAC to 240 VAC, 50/60 Hz, 250 W; DC outlet 24 VDC for peripheral sensors max. 55 W   |
| Environment | 0 °C to 40 °C, -20 °C to 70 °C (storage)<br>< 95 % RH non-condensing (operation), < 55 % RH non-condensing (storage)   |
| Interface   | Laptop via Ethernet  |
| Min. spec.  | Panasonic Toughbook 55, 14", 8th gen. Intel Core i5, 8 GB DDR4-SDRAM, 1TB SSD, Windows 10 Pro  |

Specifications subject to change without notice. E&OE

\*GeoSwath 4 can also be interfaced to third-party software for acquisition and processing.



Holm Sand, Lowestoft, UK

125 kHz, 250 kHz and 500 kHz transducers

