The WASSP Multibeam system has given us access to a first class shallow water survey tool, that was once cost prohibitive.

Zane Thackeray, Hydrographic Surveyor, Durban, South Africa.

WASSP-S Multibeam Sonar Specifications

**MODEL: WM818D-S**

- **Frequency:** 160kHz
- **Sonar:** Single beam and triple beam
- **Number of Beams:** 224
- **Beamwidth:** 4° x 4° at 16kHz
- **Beam Spacing:** Equidistant or Equiangular (320° @ 0.54° beams)
- **Transmit Beam Width (athwartships x fore-aft):** 180° x 12°
- **Receive Beam Width (athwartships x fore-aft):** 360° x 12°
- **Beam Forming:** Roll stabilized digital - Dynamically focused receive beams
- **Depth/Range Resolution:** 75mm
- **Ping Rate:** 48Hz @ 10m slant range
- **System Range:** 2-200m water depth, 300m+ slant range
- **Firing Rate:** 48Hz @ 10m slant range
- **System Range:** 2-200m water depth
- **Sonar Mode:** Single beam and triple beam
- **Number of Beams:** 224
- **Beamwidth:** 4° x 4° at 16kHz
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No other multibeam can match WASSP-S.

WASSP provides a proven multibeam platform that can be configured with the hydrographic software and sensors to meet your specific survey needs.

- **Accurate motion stabilization – heave, pitch and roll**
- **Focus on high speed communication between the transceiver and WASSP PC allows more of the signal processing to be done in WASSP proven software environment, enabling enhanced data quality and interfaces for post processing**
- **Advanced signal processing techniques and broad dynamic range provide data quality that has to date only been available on systems costing at least three times the WASSP-S**

Front cover photograph courtesy of Ports of Auckland Ltd, New Zealand

WASSP is fully supported in the field by our international network of dealer service technicians.

For details of the WASSP dealer nearest you please go to our website  – www.wassp.com.

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The WASSP-S has been purposely developed to transform the multibeam market – to deliver an outstanding and versatile multibeam solution for an exceptionally low cost.

WASSP-S is a survey grade multibeam offering accuracy, reliability, and ease of use.

It is the ideal shallow water survey tool for:

- Seafloor mapping of wharves, harbours, waterways, foundations and shipping channels;
- Full seafloor search to detect obstructions, sub-sea equipment, scour and other features;
- Project condition and coastal engineering surveys;
- Dredging measurement and payment surveys;
- Water column analysis.

WASSP-S offers a versatile platform that can be configured with sensors and software to match specific survey needs.

‘Plug and Play’ with QINSy® and HYPACK®

WASSP integrates seamlessly with leading hydrographic and dredging software suites, such as QINSy® and the HYPACK®.

The WASSP-S has been evolved from a proven technology platform. The new WASSP-S features 224 beams per ping – switchable between equi-distant and equi-angular. What’s more, the-S works with your existing sensors, and HYPACK or QINSy software, so there’s no extra equipment to buy, or new software to learn.

1. Using appropriate software such as HYPACK/HYSWEEP® or QINSy®

WASSP-S benefits at a glance:

- IHO Order 1a Compliant
- External sensors to match the accuracy requirements
- Integrates with QINSy and HYPACK
- Compact transducer is ideal for pole mounting or flush mounting in hull
- High density 224 beam 160kHz transducer for work in 2m to 200m depth
- 120° coverage port to starboard
- Depth to coverage ratio of 1 to 3. At 100m coverage is 340m wide
- Continuous real-time 2D and 3D mapping
- Record and replay survey runs for analysis later.
- Easy to operate and quick to install.
- Stabilised for pitch, heave and roll. Compatible with GPS sensors.
- Multiple, selectable display modes.
- Software updates as new features and functions are added.

Due to its ease of installation, WASSP Multibeam was used for survey reconnaissance of the MV Rena grounded on the Astrolabe Reef in New Zealand. Within 48 hours of equipment delivery surveyors had located multiple submerged containers in depths of up to 80 metres.