



## Seabed Portable Lightweight Multibeam Set (SPLMS)

Seabed is introducing the first lightweight multibeam set in the world that can be transported as check-in luggage with any airline with no extra charge. The SPLMS is ideal for projects where rapid mobilization is required and where logistical challenges are taken into account due to the simple deployment.

### Set components

- **Norbit WBMS Sonar**

The ultra-compact wideband sonar has low power consumption. The new technology allows long range real time data collection whilst simultaneously achieving very high range resolution. The Sonar has an integrated SV sensor.

- **Seabed SGR6-D Sx GNSS receiver**

From standalone metre-level to RTK centimetre level positioning, the SGR6 is flexible to meet your positioning needs. With 240 channels and comprehensive support for all current and planned GNSS signals, the SGR6 is field upgradeable to eliminate the need for future hardware changes.

- **SBD-IMU-Sx**

Synchronous Position, attitude and navigation (SPAN) technology brings together two different but complementary technologies: Global Navigation Satellite System (GNSS) positioning and inertial navigation. The absolute accuracy of GNSS positioning and the stability of inertial measurement unit (IMU) gyro and accelerometer measurements are tightly coupled to provide an exceptional 3D navigation solution that is stable and continuously available, even through periods when satellite signals are blocked.



- **AML Base-X Sound velocity profiler**

This rugged shallow water logging instrument is designed for profiling in coastal waters. High speed 25Hz sampling ensures excellent data resolution

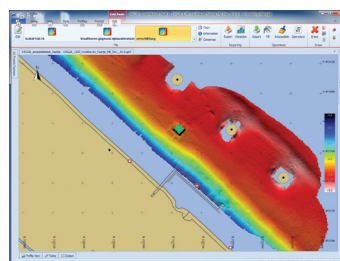
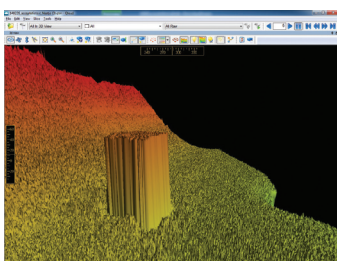
- **QINSy hydrographic Survey Software**

This is an integrated navigation system software package used extensively worldwide for acquiring and processing multibeam data. A template has been prepared for the usage of above mentioned equipment

- **Ruggedized Rimowa transport case**

### Set benefits

- Transportable as check in luggage by any airline with no extra charge
- Fully integrated and ready to use
- Rapidly deployable at any vessel
- Simple Ethernet Interface
- Low power consumption. The set may be operated for a full day on a single car battery



## Seabed portable lightweight Multibeam set specifications

## Contact us

For more specific information concerning how we can assist your organization's needs, please call +31(0)20 636 84 43 or visit our website for more information & all our contact details, [www.seabed.nl](http://www.seabed.nl)

Seabed portable lightweight multibeam set			
<b>NORBIT WBMS Sonar</b>		<b>AML BASE-X</b>	
<b>Swath Coverage</b>	7° min, 179° max, 140° optimal	<b>SV Xchange</b>	Range: 1375 to 1625 m/s
<b>Range Resolution</b>	<10mm		Precision: +/-0,006 m/s
<b>Number of beams</b>	256		Accuracy: +/-0,025 m/s
<b>Operating Frequency</b>	360 - 440KHZ, 80KHZ Bandwidth		Resolution: 0,001 m/s
<b>Equiangular -Equidistant</b>	BOTH		Response: 47 microseconds
<b>Range</b>	0,2-200m, Typical Survey Range	<b>P Xchange</b>	Up to 10 dBar
	100m from Sonar Head		Precision: +/-0,03%FS
<b>Update Rate</b>	Up to 40HZ, Range Dependent		Accuracy: +/-0,05%FS
<b>Resolution</b>	0,9° Across Track, 1,9° Along Track @		Resolution: 0,02%FS
	400KHZ		Response: 10 milliseconds
<b>Power Consumption</b>	<36W	<b>Depth</b>	100m
<b>Input Voltage</b>	20 to 28 VDC	<b>Input Voltage</b>	7,5 to 26 VDC
<b>Interface</b>	100MB/S Ethernet	<b>Operating Temperature</b>	"-20° C to +45° C
<b>Standard Cable Length</b>	8m	<b>Operating Time</b>	12 Hours
		<b>Scan</b>	Up to 25 HZ
<b>SGR6-D-Sx</b>		<b>SBD-IMU-Sx</b>	
<b>Dual antenna</b>	GGL L1 L2	<b>Heading Accuracy</b>	0,02 Degree
<b>Position Accuracy</b>	1cm + 1ppm (RTK)	<b>Pitch/Roll Accuracy</b>	0,015 Degree
<b>Maximum Data Rate</b>	Up to 100 Hz	<b>Heave (Instantaneous)</b>	5cm or 5%
<b>Time Accuracy</b>	20 ns RMS	<b>Heave (Post Processed)</b>	3,5cm or 3,5% W.I.E.
<b>Input Voltage</b>	9 to 36 VDC	<b>Power</b>	9 to 18 VDC (13W max)
<b>Interface</b>	Ethernet, COM 1 tm 4 and IMU	<b>Waterproof</b>	30m
<b>Memory</b>	4G Onboard Memory		
<b>QINSy hydrographic data acquisition, navigation and processing software package</b>			
<b>QINSy Qcloud - 3D Area Based Data Cleaning Tool (optional)</b>			
<b>Novatel Waypoint Inertial Explorer (optional)</b>			
Dimensions: 400 x 370 x 720 mm			
Colour: Black			
Wheels: Yes			
Total Weight 22,5kg			

Specifications are subject to change without prior notification.



Getting to the bottom of things