

NORBIT - iWBMS TURNKEY MULTIBEAM SONAR SYSTEM

For High Resolution Bathymetry

Introducing the all-new, compact and high-resolution conformal array bathymetric system from NORBIT.

The 400kHz integrated multibeam solution offers high resolution in conjunction with the preferred inertial navigation system from surveyors around the world. Having the inertial navigation system GNS/INS integrated into the sonar, ensures fast and reliable mobilization.

The WBMS-series are based on a flexible sonar platform that utilizes the latest in analog and digital signal processing. Combined with broad R&D expertise, NORBIT may adapt the hardware technology to allow for new applications that benefit from the advantages offered by a compact wideband multibeam sonar.



Features

- ✓ Multibeam Sonar integrated with IMU and GPS
- ✓ State of the art GNSS-aided inertial navigation system
- ✓ 80kHz bandwidth
- ✓ Ultra-compact Turn-key solution
- ✓ Simple Ethernet Interface
- ✓ Fast and reliable Mobilization
- ✓ Integrated Sound Velocity Probe
- ✓ Hydrodynamic Fairing
- ✓ Mounting bracket included
- ✓ FM & CW Transmissions
- ✓ Flexible power

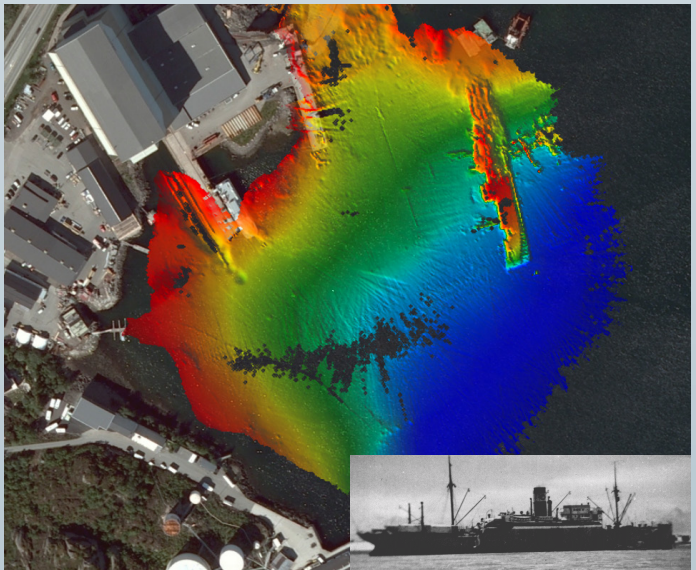
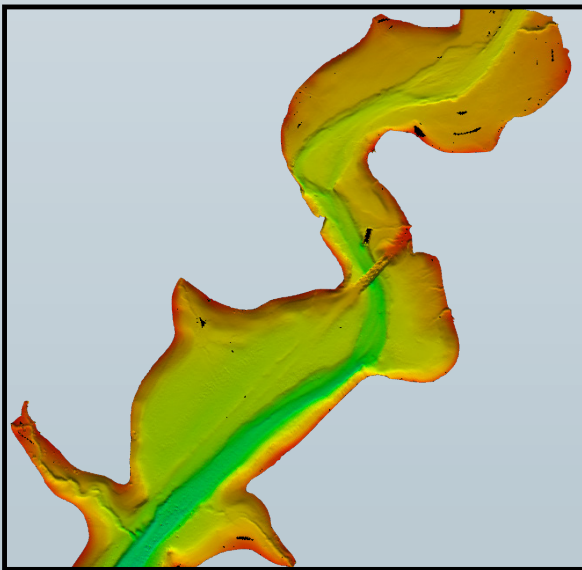
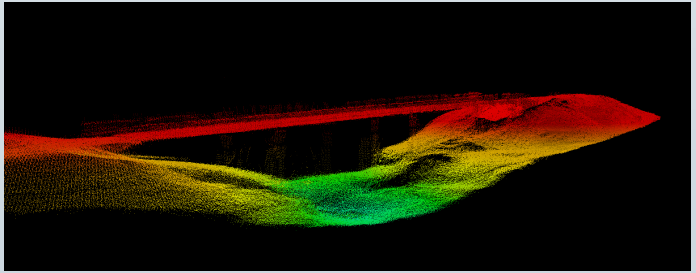
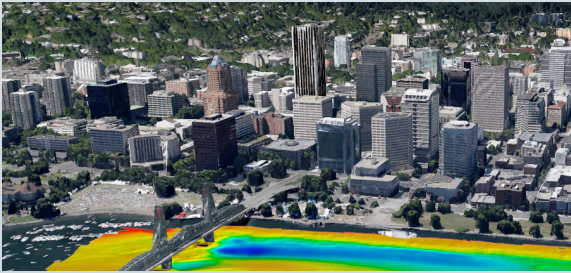
Applications

- ✓ Shallow water bathymetry
- ✓ Exceeds IHO Special Order
- ✓ Exceeds USACE Class 1 & LINZ Special Order
- ✓ Pipeline surveys
- ✓ Pond surveys
- ✓ Harbor surveys
- ✓ USV, UUV, AUV & ROV
- ✓ MCM & Littoral Combat Zone surveys

Options

- ✓ Senior Hydrographer support and training
- ✓ Navigation Post Processing Software
- ✓ Sound Velocity Profiler
- ✓ Data and processing software
- ✓ Laptop

NORBIT iWBMS Wideband Multibeam Sonar For Turnkey High Resolution Bathymetry



TECHNICAL SPECIFICATIONS

SWATH COVERAGE	TYPICALLY 140° (7-179° FOR SPEC. APPLICATIONS)
RANGE RESOLUTION	<10MM (ACOUSTIC)
NUMBER OF BEAMS	256 EA/ED
OPERATING FREQUENCY	360-440KHZ, 80KHZ BANDWIDTH
RANGE	0.2-200M, TYPICAL SURVEY RANGE IS 120M FROM SONAR HEAD (LIMITED SWATH)
PING RATE	UP TO 40HZ, RANGE DEPENDENT
RESOLUTION	0.9° ACROSS TRACK, 1.9° ALONG TRACK @400KHZ
POSITION ACCURACY	0.02-0.1M (RTK)
HEADING ACCURACY	0.03° (RTK) WITH 2M BASELINE
PITCH/ROLL ACCURACY	0.02° INDEPENDENT ON BASELINE
HEAVE ACCURACY	5CM OR 5% (2CM RTK)
WEIGHT	APPROX. 9.5KG (AIR) <6KG (WATER)
INTERFACE	100MB/S ETHERNET
STANDARD CABLE LENGTH	8M
POWER CONSUMPTION	55WMAX (12-28VDC)
OPERATING/STORAGE TEMP.	-4° TO +40°/-20° TO +60°

