

NORBIT - iWBMSh-Dual Head TURNKEY MULTIBEAM SONAR SYSTEM

For High Resolution Bathymetry

Compact and high-resolution Dual head curved array bathymetric mapping system by NORBIT.

This all-in-one tightly integrated broadband multibeam turnkey solution offers high resolution bathymetry over a wide swath. The high-end sonar with globally leading GNSS/Inertial Navigation System (Applanix OceanMaster) embedded into the unit ensures fast and reliable mobilisation and highest quality sounding for installations in all conditions.

The WBMS-series are based on a flexible sonar platform that utilises the latest in analogue and digital signal processing. With broad R&D expertise, NORBIT has developed, from the ground-up, exciting new technology that allows existing and new applications to benefit from the advantages offered by a compact wideband curved-array multibeam sonar.



Features

- Multibeam Sonar with Integrated Inertial Navigation System & Integrated NTRIP Client.
- √ 80kHz Bandwidth
- √ Roll-stabilisation
- ✓ Backscatter outputs (Intensity, Sidescan, Sidescan Snippets, Snippets, Water Column)
- ✓ Multidetect
- √ Simple Ethernet Interface
- √ Integrated Sound Velocity Probe
- √ Hydrodynamic Fairing
- √ FM & CW Processing
- ✓ Flexible Power
- ✓ Exceeds IHO Special Order, CHS Exclusive Order & USACE New Work

Applications

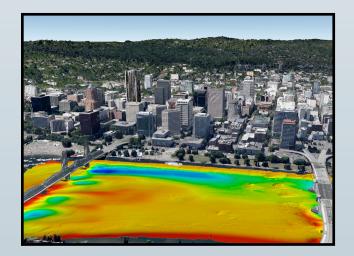
- √ Shallow Water Bathymetry
- √ Pipeline Surveys
- √ Pond, River and Estuary Surveys
- √ Harbor and Lake Surveys
- ✓ USV & UUV
- ✓ Open Ocean Surveys

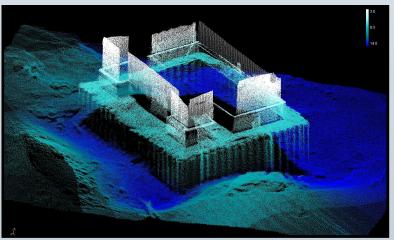
Options

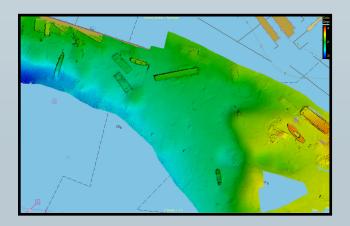
- ✓ Senior Hydrographer For Support and Training
- √ Sound Velocity Profiler
- ✓ Laptop
- ✓ Turnkey Survey Solutions
- ✓ Permanent Hull Mount Option
- √ Pole Mount Option
- ✓ 200kHz Version
- ✓ Narrow Beam Along Track 0.9°
- √ Top-end INS (Roll, Pitch & Heading 0.01degree)
- ✓ Entry level INS
- Acquisition, Navigation and Post Processing Software
- ✓ Can be Delivered with all Major Software Packages e.g. HYPACK, QINSy, EIVA, CARIS and Others

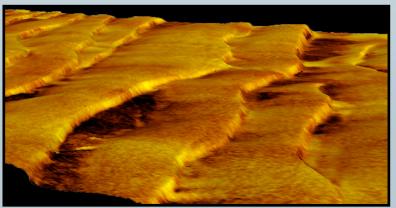
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TECHNICAL SPECIFIC	ATION	
SWATH COVERAGE	5-210° FLEXIBLE SECTOR (SHALLOW WATER IHO SPECIAL ORDER >155°)	
RANGE RESOLUTION	<10mm (ACOUSTIC W. 80kHz BANDWIDTH)	9 x DR012 M10x65 + washers 1 1 10
NUMBER OF BEAMS	512-1024 EA & ED	
OPERATING FREQUENCY	NOMINAL FREQUENCY 400kHz (FREQUENCY AGILITY 200-700kHz)	
DEPTH RANGE	0.2-275m (160m TYPICAL @400kHz)	
PING RATE	UP TO 60Hz, ADAPTIVE	
RESOLUTION (ACROSS X ALONG	STANDARD: 0.9° X 1.9° @400kHz AND 0.5° X 1.0° @700kHz. NARROW OPTION: 0.9° X 0.9° @400kHz AND 0.5° X 0.5° @700kHz	
POSITION	HOR: ±(8mm +1ppm X DISTANCE FROM RTK STATION) VER: ±(15mm +1ppm X DISTANCE FROM RTK STATION) (ASSUMES 1m GNSS SEPARATION)	
HEADING ACCURACY	0.02° (RTK) WITH 2m ANTENNA SEPARATION	
PITCH/ROLL ACCURACY	0.01° INDEPENDENT OF ANTENNA SEPARATION	
HEAVE ACCURACY	2 cm OR 2% (TRUEHEAVETM), 5 cm OR 5% (REAL TIME)	DETAIL A SCALE 2: 5
WEIGHT	APPROX. 15kg (AIR) LESS THAN 9.5kg (WATER) (EXCL. BRACKET)	675
INTERFACE	ETHERNET	(7.87m) 5.51m) 20-m 15.00m
CABLE LENGTH	STD. 8m, OPT: 2m, 25m AND 50m	Note: Sonar dimensions may vary
POWER CONSUMPTION	100W (10-28VDC, 110-240VAC)	depending on configuration.
OPERATING TEMP.	-4°C to +40°C (TOPSIDE -20°C to +55°C)	
STORGAGE TEMP.	-20°C to +60°C	
ENVIRONMENTAL	TOPSIDE: IP67: DUST TIGHT, PROTECTED AGAINST THE EFFECT OF IMMERSION UP TO 1m/WET-END: 100m	