

WIDEBAND MULTIBEAM SONAR

For High Resolution Bathymetry

Introducing powerful, ultra compact and high-resolution multibeam sonar from NORBIT.

The WBMS series are the most compact sonars designed for use on all platforms. With approx 40W power consumption, the system is suitable to operate from battery. NORBIT's wideband multibeam technology facilitates long range real-time data collection and at the same time achieves high resolution data.

The WBMS sonars are based on a state of the art analog and digital platform featuring powerful signal processing capabilities, offering roll stabilized bathymetry and several types of imagery and backscatter output. 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

- ✓ Sub-centimeter Range Resolution
- ✓ FM & CW Processing
- ✓ 80kHz Bandwidth
- ✓ Flexible Power Source (10-28 VDC, 100-240 VAC)
- √ Simple Ethernet Interface
- ✓ Roll-stabilisation, Side-scan, Water Column, Backscatter, Snippets
- ✓ Integrated Sound Speed Probe
- ✓ Integrated Inertial Navigation Solution
- ✓ Exceeds IHO Special Order, CHS Exclusive Order & USACE New Work

Applications

- √ Shallow Water Bathymetry
- √ Pipeline Surveys
- ✓ River, Estuary, Channel and Pond Surveys
- √ Harbor and Coastline Surveys
- √ USV, UUV, AUV & ROV Surveys
- ✓ MCM & Littoral Combat Zone Surveys

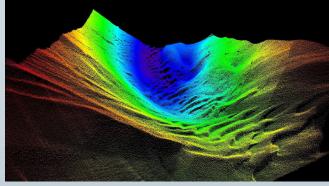
Options

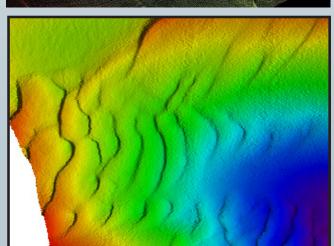
- √ 900m, 4500, 6000m Depth Rating
- √ Mounting Bracket
- √ Motion Sensor
- ✓ Data Acquisition Software
- ✓ Senior Hydrographer for Support and Training
- ✓ Turn-Key Survey Platform
- √ AUV Version
- √ VDSL Data Link
- ✓ Permanent Hull Mount Option
- √ Pole Mount and Travel Option
- ✓ 200kHz version
- ✓ Narrow Beam Along Track 0.9°

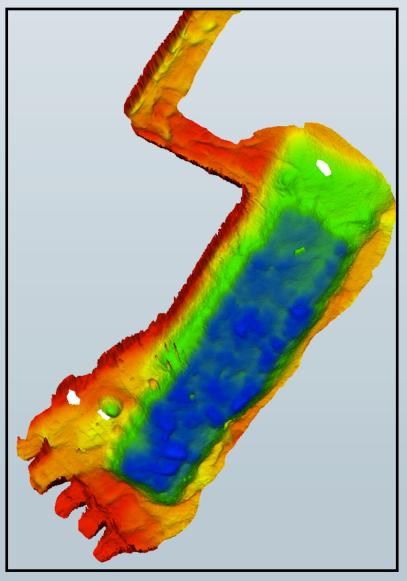
NORBIT Wideband Multibeam Sonar

For High Resolution Bathymetry









TECHNICAL SPECIFICATIONS		
	SWATH COVERAGE	5-210° FLEXIBLE SECTOR (SHALLOW WATER IHO SPECIAL ORDER >155°)
	RANGE RESOLUTION	<10mm (ACOUSTIC w. 80kHz BANDWIDTH)
	NUMBER OF BEAMS	256-512 EA & ED
	OPERATING FREQUENCY	NOMINAL FREQUENCY 400kHz (FREQUENCY AGILITY 200-700kHz)
	PING RATE	UP TO 60Hz, ADAPTIVE
	DEPTH RANGE	0.2-275m (160m TYPICAL @ 400kHz)
	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
	WEIGHT	<4.5kg(AIR), 3kg(WATER)
	POWER CONSUMPTION	40W (55W MAX)
	VOLTAGE	10-28VDC OR 100-240VAC (ROV DIRECT: 24-29VDC)
	INTERFACE	ETHERNET
	STANDARD CABLE LENGTH	STD. 8m, OPTION.: 2m, 25m, 50m, PIGTAIL, 600m WITH VDSL
	DEPTH RATING	100m OPTIONAL: 900m, 4500m, 6000m DEEP WATER (>100m) DESIGNED FOR UP TO 7m/s VEHICLE SPEED.
	OPERATING TEMP.	-4°C to +40°C (TOPSIDE -20°C to +55°C)
	STORAGE TEMP.	-20°C to +60°C
	ENVIRONMENTAL	TOPSIDE: IP67: DUST TIGHT, PROTECTED AGAINST THE EFFECT OF

