

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 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

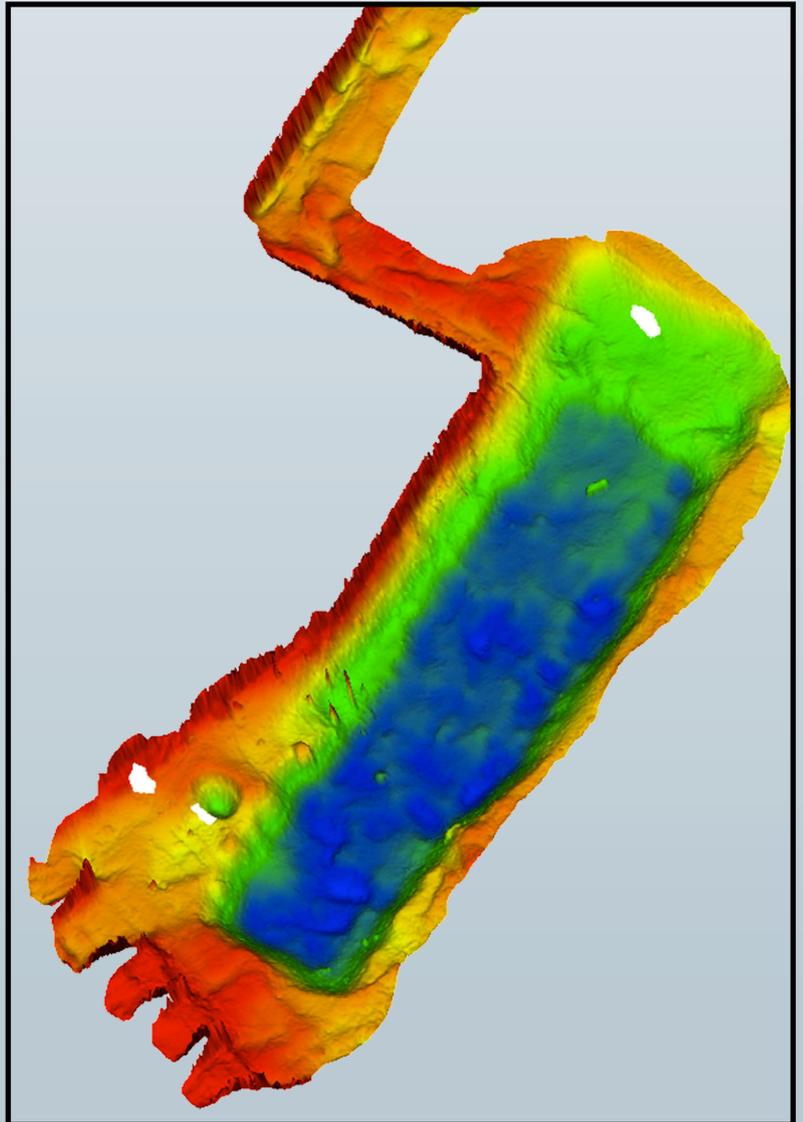
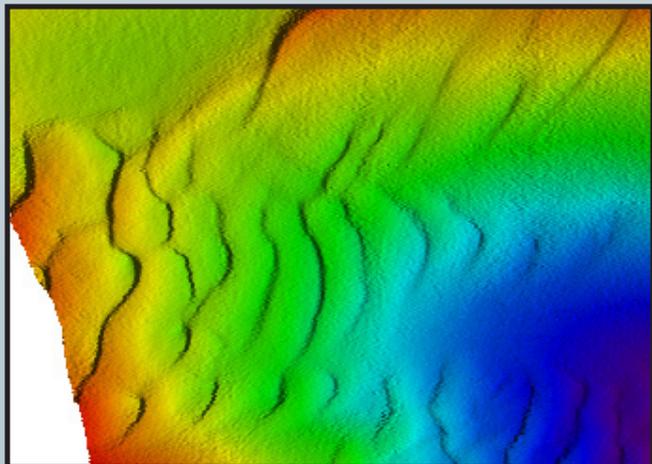
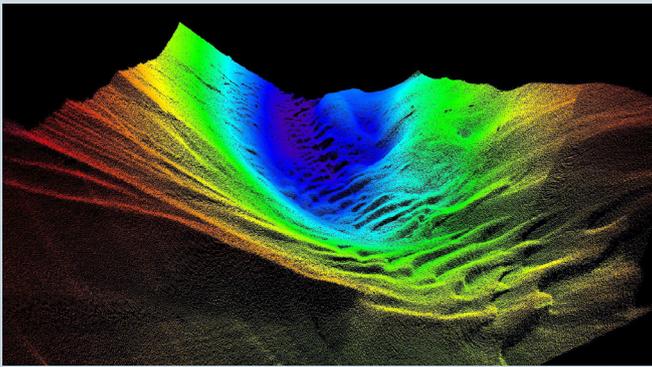
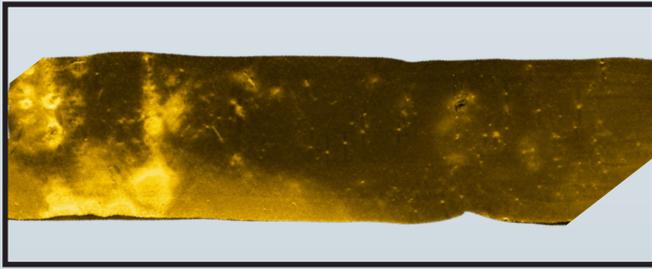
- ✓ Shallow Water Bathymetry
- ✓ Pipeline Surveys
- ✓ River, Estuary, Channel and Pond Surveys
- ✓ Harbor and Coastline Surveys
- ✓ USV, UUV, AUV & ROV Surveys
- ✓ MCM & Littoral Combat Zone Surveys

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°

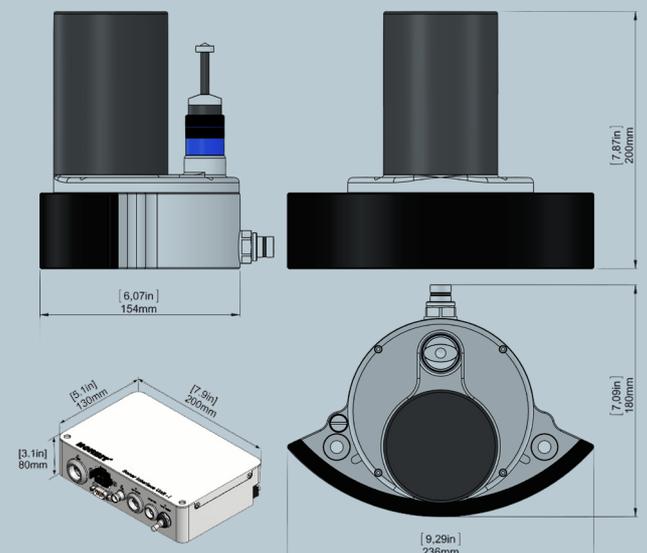
EXPERTS in sensor equipment providing telemetry and communication solutions for harsh environments. NORBIT develops and delivers innovative products - allowing you to explore more.

NORBIT Wideband Multibeam Sonar For High Resolution Bathymetry



TECHNICAL SPECIFICATIONS

SWATH COVERAGE	7-210° (SHALLOW WATER IHO SPECIAL ORDER >155°)
RANGE RESOLUTION	<10mm (ACOUSTIC)
NUMBER OF BEAMS	256-512 EA & ED
OPERATING FREQUENCY	400kHz w/80kHz BANDWIDTH (FREQ. AGILITY 200-700kHz) (LOW FREQ MODE AND HIGH FREQ ULTRA RESOLUTION MODE)
PING RATE	UP TO 50Hz, ADAPTIVE
DEPTH RANGE	0.2-275m (160m TYPICAL)
RESOLUTION	0.9° ACROSS, 1.9° ALONG @400kHz. OPTION: ALONG 0.9° 0.5° ACROSS, 0.9° ALONG @700kHz
WEIGHT	<4.5kg(AIR), 3kg(WATER)
POWER CONSUMPTION	40W (55W MAX)
VOLTAGE	10-28VDC or 100-240VAC (ROV DIRECT: 22-29VDC)
INTERFACE	ETHERNET
STANDARD CABLE LENGTH	8m, OPTIONS: 25m, PIGTAIL, MAX 600m VDLS
DEPTH	100m OPTIONAL: 900m, 4500m, 6000m
OPERATING TEMPERATURE	-4°C to +40°C (TOPSIDE -20°C to +55°C)
STORAGE TEMPERATURE	-20°C to +60°C
ENVIRONMENTAL	TOPSIDE: IP67: DUST TIGHT, PROTECTED AGAINST THE EFFECT OF IMMERSION UP TO 1m



Part #12003