

WIDEBAND MULTIBEAM SONAR

For High Resolution Bathymetry

Introducing the all-new, extremely compact and high-resolution multibeam sonar from NORBIT.

The WBMS-series are ultra compact sonars designed specifically for use on all platforms. With low power consumption, the system may be operated for a full day on a single battery. NORBIT's wideband multibeam technology allows long range real-time data collection, whilst simultaneously achieving high range resolution.

The WBMS-series are based on a flexible sonar platform that utilizes the latest in analog 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

- ✓ Millimeter Range Resolution
- ✓ FM & CW Processing
- ✓ 80kHz Broadband
- ✓ Flexible Power Source (12-30 VDC, 90-250 VAC)
- ✓ Simple Ethernet Interface
- ✓ Ultra-Compact Single Unit Solution
- ✓ Integrated Sound Speed Probe
- ✓ Integrated Attitude Sensor & GPS Option
- ✓ Exceeds IHO Special Order
- ✓ Exceeds USACE New York & LINZ Special Order

Applications

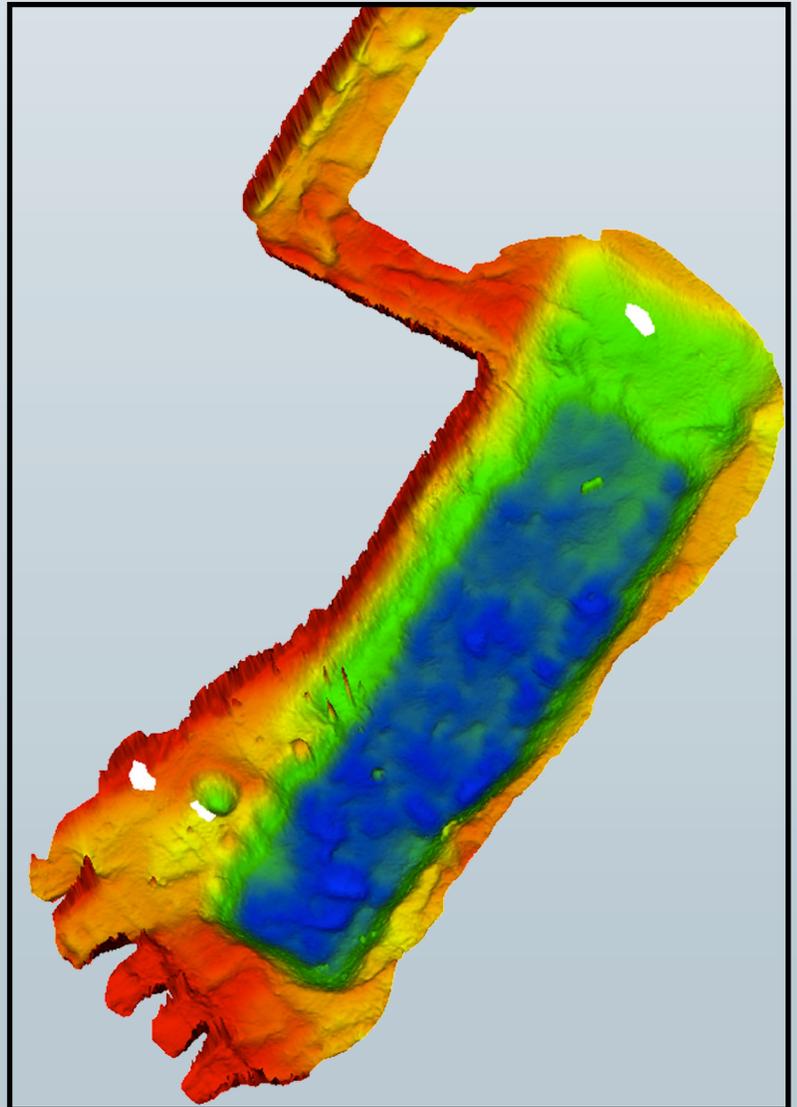
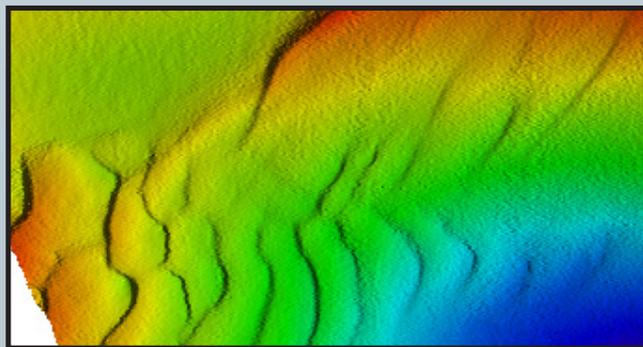
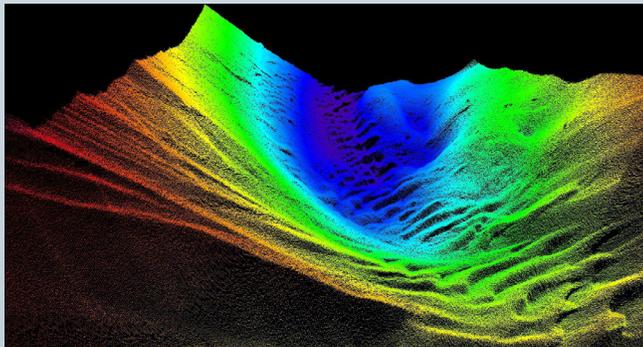
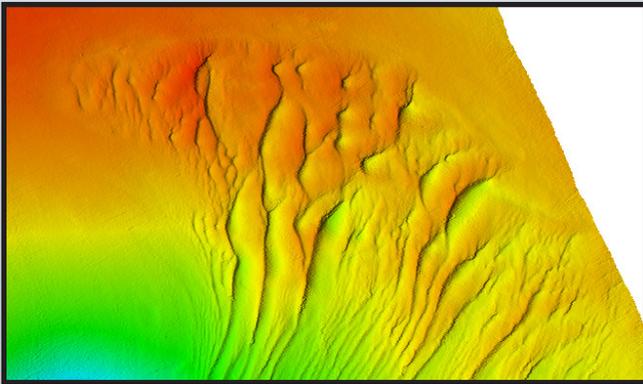
- ✓ Shallow Water Bathymetry
- ✓ Pipeline Surveys
- ✓ River, Estuary, Channel and Pond Surveys
- ✓ Harbor and Coastline Surveys
- ✓ USV, UUV, AUV & ROV Surveys
- ✓ MCM & Littoral Combat Zone Surveys

Options

- ✓ 4000M Depth Rating
- ✓ Mounting Bracket
- ✓ Motion Sensor
- ✓ Data Acquisition Software
- ✓ On-Site Senior Hydrographer Support
- ✓ Turn-Key Survey Platform
- ✓ Laptop
- ✓ AUV Version
- ✓ VDSL Data Link
- ✓ Permanent Hull Mount Option
- ✓ Pole Mount and Travel Option

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	7-179° (140° NOMINAL)
RANGE RESOLUTION	<10mm
NUMBER OF BEAMS	256 EA & ED
OPERATING FREQUENCY	360-440kHz, 80kHz BANDWIDTH
PING RATE	50Hz
DEPTH RANGE	0.2-275m (160m TYPICAL)
RESOLUTION	0.9° ACROSS TRACK, 1.9° ALONG TRACK @400kHz
WEIGHT	<4.5kg(AIR), 3kg(WATER)
POWER	<28W
VOLTAGE	10-29VDC OR 110/220VAC (ROV DIRECT: 22-29VDC)
INTERFACE	100Mb/s ETHERNET
STANDARD CABLE LENGTH	8m, OPTIONAL 20m PIGTAIL, MAX 600m (VDSL)
DEPTH	100m, 4000m OPTIONAL
STORAGE TEMPERATURE	-20°C TO +60°C
OPERATING TEMPERATURE	-4°C TO +40°C

