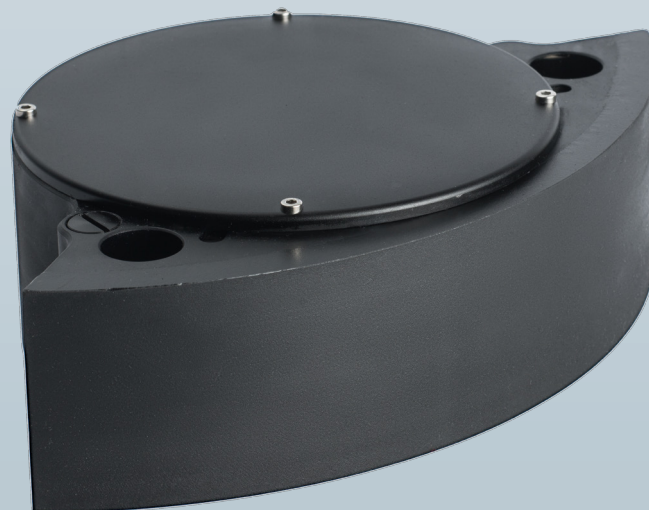


WIDEBAND MULTIBEAM SONAR

Compact Forward Looking

The WBMS-series are ultra compact sonars designed specifically for use on moving platforms. NORBIT's wideband multibeam technology allows long range real-time image updates, whilst simultaneously achieving high range resolution, allowing you to explore more.

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

- ✓ Long Range
- ✓ High Update Rate
- ✓ High Angular Resolution
- ✓ High Range Resolution
- ✓ Ethernet Interface
- ✓ Ultra Compact Single Unit Solution
- ✓ Standard Product Delivery Incl. Shipping Case and Sonar Interface Unit

Applications

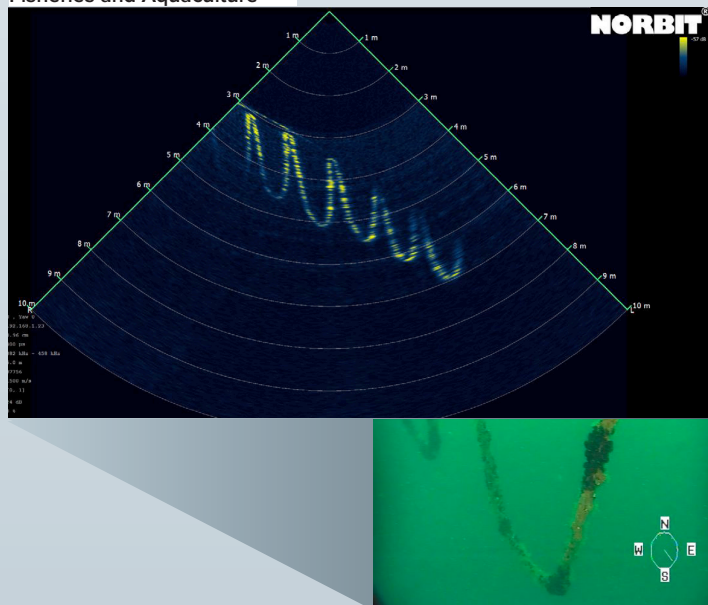
- ✓ Inspection (ROV, AUV and other Moving Platforms)
- ✓ Obstacle Avoidance
- ✓ Search and Recovery
- ✓ Automatic Leak Detection
- ✓ Marine Construction
- ✓ Fisheries
- ✓ Sciences

Options

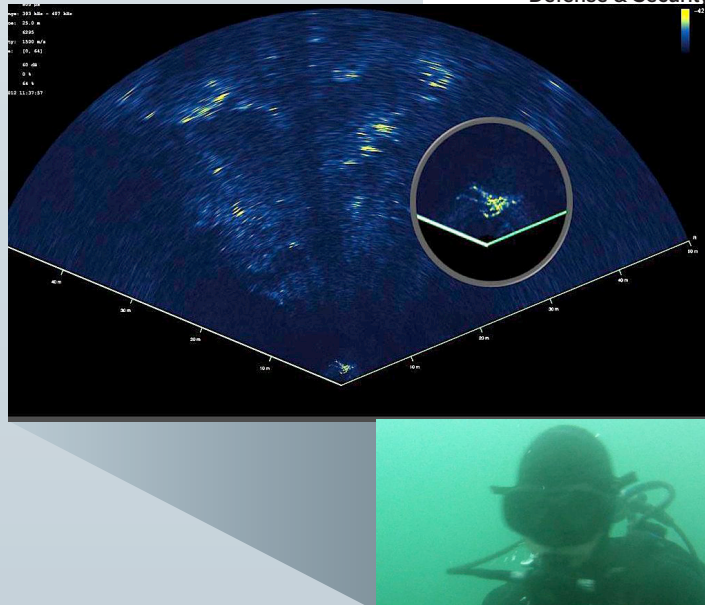
- ✓ Wide Coverage Projector (up to 180°)
- ✓ 1500m or 6000m Depth Rating
- ✓ Custom Vertical Beam-Width (2-30 Deg)
- ✓ VDSL Data-link
- ✓ Weather Rated Command/Control Laptop
- ✓ AUV, ROV Interconnectivity kits
- ✓ Custom Cable Length Options
- ✓ ROV Version

NORBIT Compact Multibeam Echo Sounder

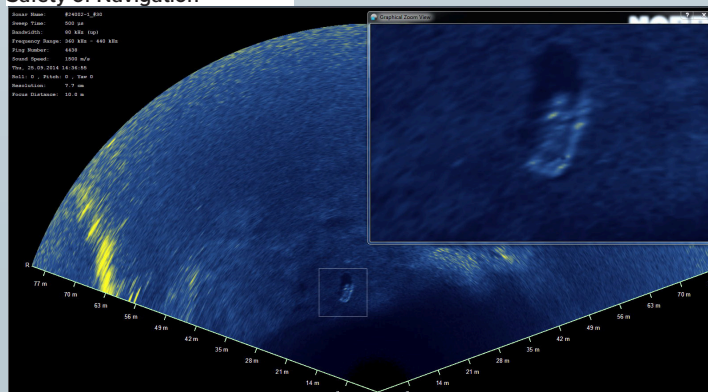
Fisheries and Aquaculture



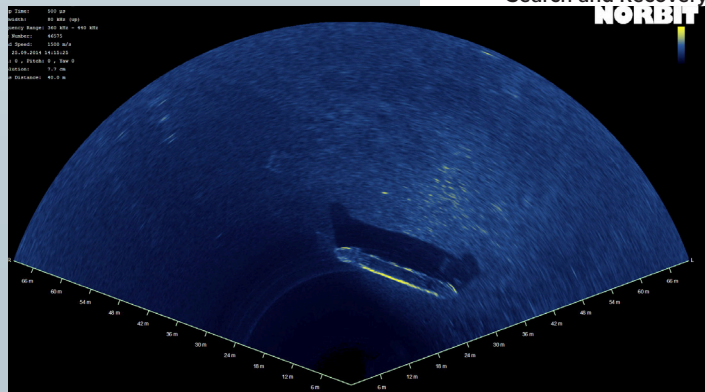
Defense & Security



Safety of Navigation

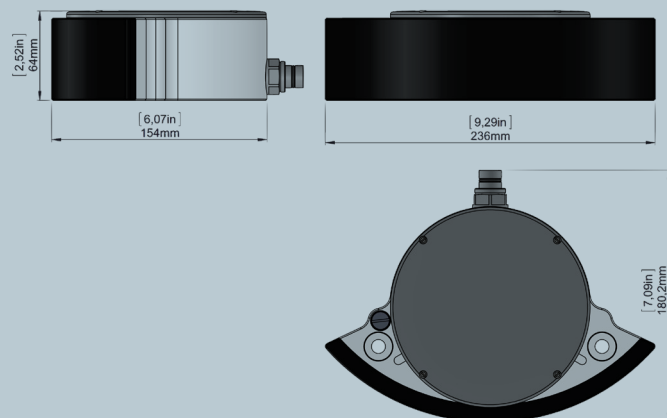


Search and Recovery



TECHNICAL SPECIFICATION

HORIZONTAL COVERAGE	7° to 180° (TYPICAL 120°) 150° OPTION
VERTICAL COVERAGE	> 25°
ANGLE RESOLUTION	<0.9°
OPERATING FREQUENCY	400kHz +/- 40kHz
RANGE RESOLUTION	< 10mm
RANGE	250m (NOMINAL 100m) @ 400kHz
UPDATE RATE	50Hz
DEPTH RATING	350m, 1500m or 6000m
WEIGHT - DRY	< 2.3 kg (2.9 kg W. WIDE COVERAGE PROJECTOR)
WEIGHT - WET	APPROX 0 kg (APP. 0.6kg w. WIDE COVERAGE PROJECTOR)
OPERATING/STORAGE TEMP	-4°C to +40°C/-20°C to +60°C
CABLE LENGTH	STD. 8m, OPT.: 20m, 2m PIGTAIL, 600m WITH VDSL
VOLTAGE	10-28VDC or 100-240VAC (ROV DIRECT: 22-29VDC)
POWER CONSUMPTION	30W (40 MAX)
INTERFACES	100Mbps/s ETHERNET 16Mbps/s OPTIONAL VDSL
ENVIRONMENTAL	TOPSIDE: IP67: DUST TIGHT, PROTECTED AGAINST THE EFFECT OF IMMERSION UP TO 1m



Part #24002

Illustration of standard configuration