# NORBIT
*- explore more -*

# WIDEBAND MULTIBEAM SONAR
## Compact Forward Looking

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

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

- ✓ 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
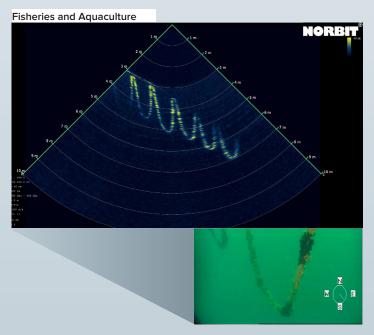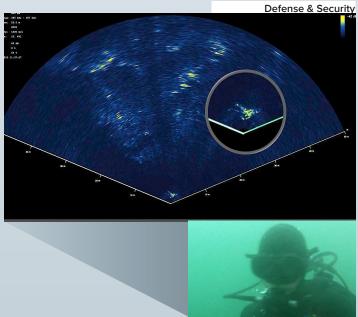
## Applications

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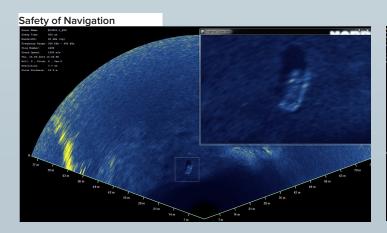- ✓ Marine Construction
- ✓ Fisheries
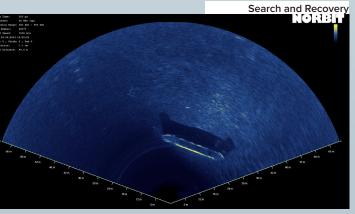- ✓ Sciences

## Options

- ✓ Wide Coverage Projector (up to 180°)
- ✓ Depth Rating: 900m or 6000m
- ✓ 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

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

# 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 | **60Hz** |
| DEPTH RATING | **UP TO 900m or 6000m** |
| WEIGHT - DRY | **2.5kg(AIR) 0.2kg (WATER)** |
| WEIGHT - WET | **APPROX 0 kg (APP. 0.6kg w. WIDE COVERAGE PROJECTOR)** |
| CABLE LENGTH | **STD. 8m, OPT.: 2m, 25m, 50m PIGTAIL, 600m WITH VDSL** |
| VOLTAGE | **10-28VDC OR 100-240VAC (ROV DIRECT: 24-29VDC)** |
| POWER CONSUMPTION | **30W** |
| INTERFACES | **100Mbits/s ETHERNET 16Mbits/s OPTIONAL VDSL** |
| OPERATING TEMP. | **-4°C to +40°C** |
| STORAGE TEMP. | **-20°C to +60°C** |

Note: Dimensions may vary, dimensions shown is for the standard 900m version.