Introducing the all-new, ultra compact and high-resolution curved array bathymetric system from NORBIT.

The 400kHz integrated multibeam solution offers high resolution in conjunction with the smallest possible tightly coupled INS/GNSS solution inertial navigation system for the most compact high resolution multibeam system. Having the inertial navigation system integrated into the sonar, ensures fast and reliable mobilization.

The WBMS-series are based on a flexible sonar platform that utilizes the latest in analog and digital signal processing, and features a curved array. 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
- Multibeam Sonar Integrated with IMU and GPS
- State of the Art GNSS-aided Inertial Navigation System
- 80kHz Bandwidth
- Simple Ethernet Interface
- Integrated Sound Velocity Probe
- Hydrodynamic Fairing & Mounting Bracket Included
- FM & CW Transmissions
- Side-Scan, Water Column, Backscatter, Snippets
- Exceeds IHO Special Order, CHS Exclusive Order & USACE New Work

Applications
- Shallow Water Bathymetry
- Pipeline Surveys
- River, Estuary and Pond Surveys
- Harbor and Lake Surveys
- USV & UUV
- MCM & Littoral Combat Zone Surveys

Options
- Senior Hydrographer for Support and Training
- Sound Velocity Profiler
- Turn-Key Survey Platform
- Laptop
- Permanent Hull Mount Option
- Pole Mount and Travel Option
- 200kHz Version
- Narrow Beam Option
- Acquisition, Navigation and Post Processing Software
- Can be Delivered with all Major Software Packages e.g. HYPACK, QINSy, EIVA, CARIS and Others

www.norbit.com
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)

DEPTH RANGE
0.2-275m (160m TYPICAL @ 400kHz)
(-300m WITH 0.9° X 0.9° OPTION)

PING RATE
UP TO 60Hz, ADAPTIVE

RESOLUTION
(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)

HEADING RESOLUTION
0.03° (RTK) LONG BASELINE PP (0.08° SHORT BASELINE)

PITCH/ROLL ACCURACY
0.02° INDEPENDENT ON BASELINE

HEAVE ACCURACY
2 CM OR 2% (TRUEHEAVETM), 5 CM OR 5% (REAL TIME)

WEIGHT
APPROX 8kg (AIR), 5kg (WATER)

INTERFACE
100Mb/s ETHERNET

STANDARD CABLE LENGTH
STD 8m, OPTIONS: 2m, 25m, 50m

POWER CONSUMPTION
45W (65W MAX) (10-28VDC, 110-240VAC)

OPERATING TEMP.
-4°C to +40°C (TOPSIDE -25°C to +40°C)

STORAGE TEMP.
-20°C to +60°C

ENVIRONMENTAL
TOPSIDE: IP67: DUST TIGHT, PROTECTED AGAINST THE EFFECT OF IMMERSSION UP TO 1m/WET-END: 100m

DATASHEET - PS-150007-18