PS-240015-6

NORBIT WINGHEAD® B59S

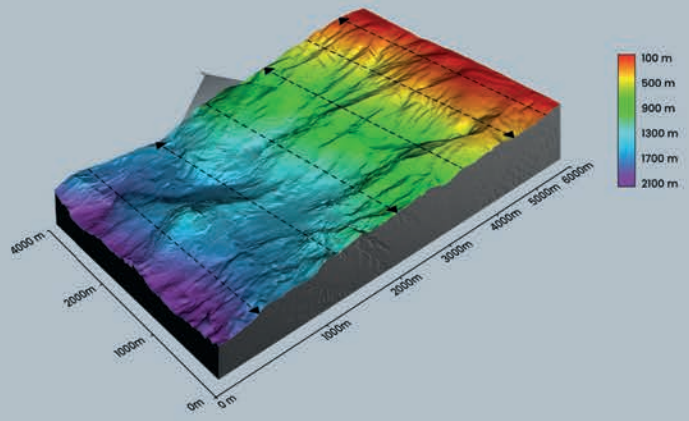


Superior Performance High-Resolution Long Range Motion Stabilised Bathymetric System.

Designed to offer high performance in shallow to deep waters while keeping the portability and single man deployment. The system is equipped with high end POSMV IMU/GNSS for surface vessel use. This ultra-high resolution curved array bathymetric system allows for rapid mobilisation anywhere anytime.

The NORBIT WINGHEAD platform is based on a state of the art analogue and digital technology featuring powerful signal processing capabilities ensuring the highest quality survey data performance. The sonar offers active yaw stabilisation as well as roll and pitch stabilisation and several imagery and backscatter outputs. 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.

The Long Range WINGHEAD B59S sonar is a high resolution curved array broadband multibeam echo-sounder designed to operate in the most demanding environments. Characterised by compact form factor, low power draw and tight integration, WINGHEAD B59S is an optimal choice for surface vessels ranging from medium size USVs to large vessels and permanent hull mounts.



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WINGHEAD B59S

NORBIT
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Features

- ✓ Active Pitch and Roll Stabilisation
- ✓ Multibeam Sonar can be Integrated with Inertial Navigation System & Integrated NTRIP Client
- ✓ Backscatter Outputs (Intensity, Sidescan, Snippets, Water Column)
- ✓ Multidetect
- ✓ Simple Ethernet Interface
- ✓ Integrated Sound Velocity Probe
- ✓ 1024 Dynamically Focused Beams
- ✓ FM & CW Processing

Options

- ✓ Yaw Stabilisation w. Single Head
- ✓ Detached NORBIT IMUd (Applanix Wavemaster II or Oceanmaster)
- ✓ 19 Inch Rack Mount, Top Side
- ✓ Detached Sound Velocity Probe (SVPd)
- ✓ Pole or Hull Mount Option
- ✓ Titanium Housing
- ✓ Supports NORBIT iLiDAR
- ✓ Can be Delivered with Software Packages HYPACK, Qinsy, EIVA, CARIS, BeamworX and Others

Applications

- ✓ SV & USV Survey Platforms
- ✓ Mid and deep Water Bathymetry
- ✓ Pipeline & Cable Pre Route Surveys
- ✓ Sediment Classification
- ✓ Post installation pipeline & cable inspections
- ✓ Mineral and Geological Surveys
- ✓ Wreck and seabed Search and Investigation
- ✓ Oceanographic Research
- ✓ EEZ Surveys
- ✓ Coastal Surveys

TECHNICAL SPECIFICATION

SWATH COVERAGE	10-145° FLEXIBLE SECTOR
RANGE RESOLUTION	7.2cm @ 60kHz 1.8cm @ 200kHz
NUMBER OF BEAMS	EA & ED: 1024
STABILISATION	ROLL, PITCH (YAW OPTION)
OPERATING FREQUENCY	60kHz & 200kHz (FM & CW)
DEPTH RANGE	~2,500m
PING RATE	UP TO 60Hz, ADAPTIVE
RESOLUTION (ACROSS X ALONG)	3.3° x 1.5° @ 60kHz 1.0° x 0.5° @ 200kHz
INTERFACE	ETHERNET
POWER CONSUMPTION	TYPICAL <100W
DIMENSIONS	L x W x H 1105.6mm X 126.4mm X 455.4mm
WEIGHT	~24kg (AIR) ~5kg (WATER) (WITHOUT BRACKET) ~28kg (AIR) ~10kg(WATER) (WITH BRACKET)
CABLE LENGTH	STD. 50m OPTIONAL: 25m
OPERATING TEMP.	-4°C to +40°C (TOPSIDE -20°C to +55°C)
STORAGE TEMP.	-20°C to +60°C
ENVIRONMENTAL	TOPSIDE: IP67 COMPLIANT (1m), WET-END (SONAR): 50m

OUTLINE DRAWING

