WBMS 128-FLS

Advanced Forward Looking Sonar System for High Resolution Imaging

FEATURES
✓ Wide Band Multi Beam Sonar designed and developed for use as Forward Looking Sonar (FLS)
✓ 400 kHz Hi-Res Multi Beam Sonar with 80 kHz bandwidth
✓ 90° angle horizontal
✓ 20° angle vertical
✓ <0.9° angular resolution
✓ <10 mm range resolution
✓ High update rate
✓ Ultra compact single unit solution
✓ Simple Ethernet interface
✓ Standard video streaming protocols
✓ Low power consumption
✓ Fast and reliable mobilisation
✓ Firmware update

APPLICATIONS
✓ Inspection on moving platforms for USV, UUV, AUV & ROV
✓ Obstacle & Collision avoidance
✓ Search & recovery
✓ MCM & Littoral Combat Zone surveys
✓ Leak detection

The WBMS 128-FLS is a new advanced ultra compact Forward Looking Sonar (FLS) designed specially for use on moving platforms.

The wide band technology allows long range real-time image updates, whilst simultaneously achieving high range resolution.

WBMS 128-FLS is the best choice for inspection, obstacle and collision avoidance as well as search & recovery.

Introducing the all-new, extremely compact and high-resolution Forward Looking Sonar system with thanks to the broad R&D expertise from NORBIT SubSea.

Combined with R&D’s expertise, the flexibility enables to adapt the technology to allow new applications to benefit from the advantages offered by a compact wide band multi beam sonar.

The WBMS 128-FLS multi beam solution offers high resolution in conjunction with high-end Inertial Navigation Systems (INS) from various manufactures.

The WBMS 128-FLS is based on flexible sonar platform that utilises the latest in analogue and digital signal processing from NORBIT SubSea.

With low power consumption, the system may be operated for a full day on a single deep cycle battery.

By having an external Inertial Navigation System (INS) connected to the sonar, ensure a fast and reliable vessel mobilisation.

Easy to setup and operate with thanks to NORBIT’s Graphic User Interface WBMS GUI.

Premium features includes standard video streaming protocols supported by most current Hydrographic Survey Software packages.
WBMS 128-FLS

SYSTEM PERFORMANCE

- Angle horizontal: 90°
- Angle vertical: 20°
- Angular resolution: <0.9°
- Range resolution: <10 mm
- Numbers of beams: 128
- Operating frequency: 400 kHz +/-40 kHz
- Band width: 80 kHz
- Range: Up to 100 m
- Ping rate: Up to 20 Hz
- Buoyancy: <–7 N
- Depth rating: 350 m

INTERFACE

- Sonar connector: Deck cable to sonar head
- Ethernet connector: CAT-5 (comm between PC and Sonar)
- Ethernet speed: 100Mbs BASE-T
- D-sub 9 connector: RS-485
- AUX connector: Sonar diagnostics and future expansions
- Power connector: Input DC voltage (front and rear)
- Supply voltage / Power consumption: 10 - 30 VDC / 24 W (typical)
- Output protocol: Standard video streaming protocols
- Operating & Control system: Windows 7 & NORBIT WBMS GUI Software

PHYSICAL DIMENSIONS

- Wet-end (HxWxD), weight: 67 x 231 x 154 mm, 2.0 kg (air), 1.2 kg (water)
- Dry-end (HxWxD), weight: 50 x 200 x 144 mm, 2.2 kg
- Wet-end temp: –10° to 50°C (Ta), –20° to 55°C (Tstg)
- Dry-end temp: –20° to 60° (Ta), –25° to 65°C (Tstg) (non-condensing)
- EMC Radiation: In accordance with CE guidelines

SCOPE OF DELIVERY

- Sonar head
- Sonar Interface Unit (SIU)
- Sonar deck cable, 8 m
- Power Supply, 90-240VAC / 24 VDC
- DC power cable, 5 m
- Ethernet data cable, 5 m
- Mounting bracket for pole
- Pelicase 1410 shipping container
- WBMS GUI Software on USB flash memory
- WBMS 128-FLS Manual (hard copy)

OPTIONS

- External power supply, 115/230 VAC - 24 VDC
- Sound Velocity Profiler (SVP)
- GNSS / DGPS / RTK positioning system
- Motion Reference Unit (MRU)
- Initial Navigation System (INS)
- Initial Measurement Unit (IMU)
- Survey computer and display
- Panel computer
- 19” Rack mount
- Bathy Mounting Pole
- Mounting bracket
- Extended warranty
- HYSWEEP - HYPACK Hydrographic Survey Software

SONARTRONIC reserves the right to change specifications without notice

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