

 EchoLogger

DASS710, ultracompact 3D scanning sonar

For affordable underwater structure monitoring

Dual Axis Scanning SONAR, DASS is realtime 3D imaging sonar and can be deployed stand alone mode or daisy chain mode using RS-485 network.

The 3D point clouds produced by DASS is very high resolution from a high frequency sharp pencil beam composite transducer, which is very useful for studying the dynamics of sediment scour and aggregation and monitoring underwater structures. The DASS outputs X, Y, Z cloud points compatible with various commercial and open source software packages including EIVA NaviSuite and Cloud Compare. It can also output intensity and backscatter data along with point clouds.



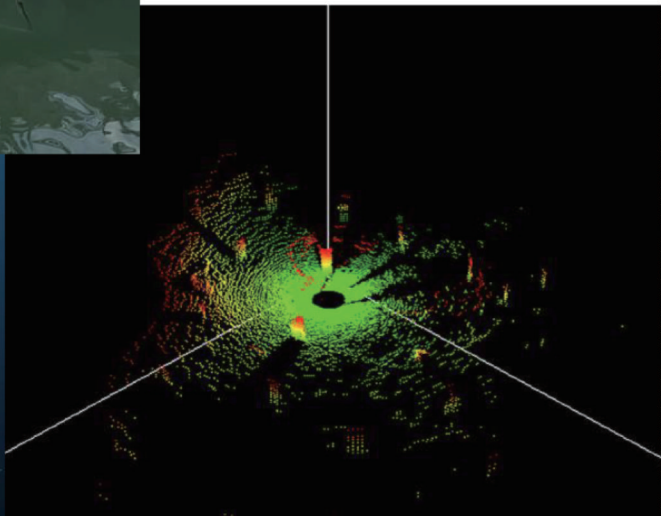
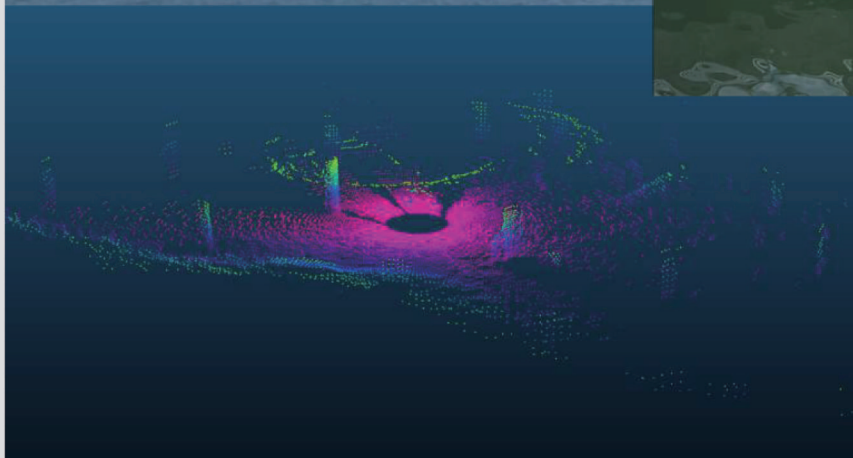
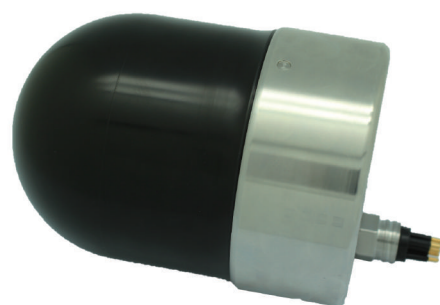
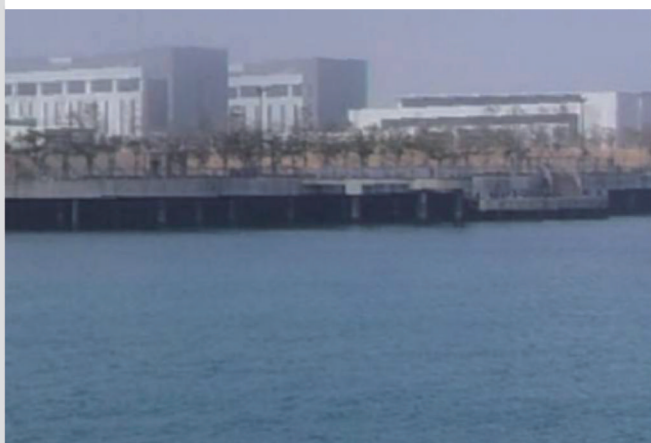
Features

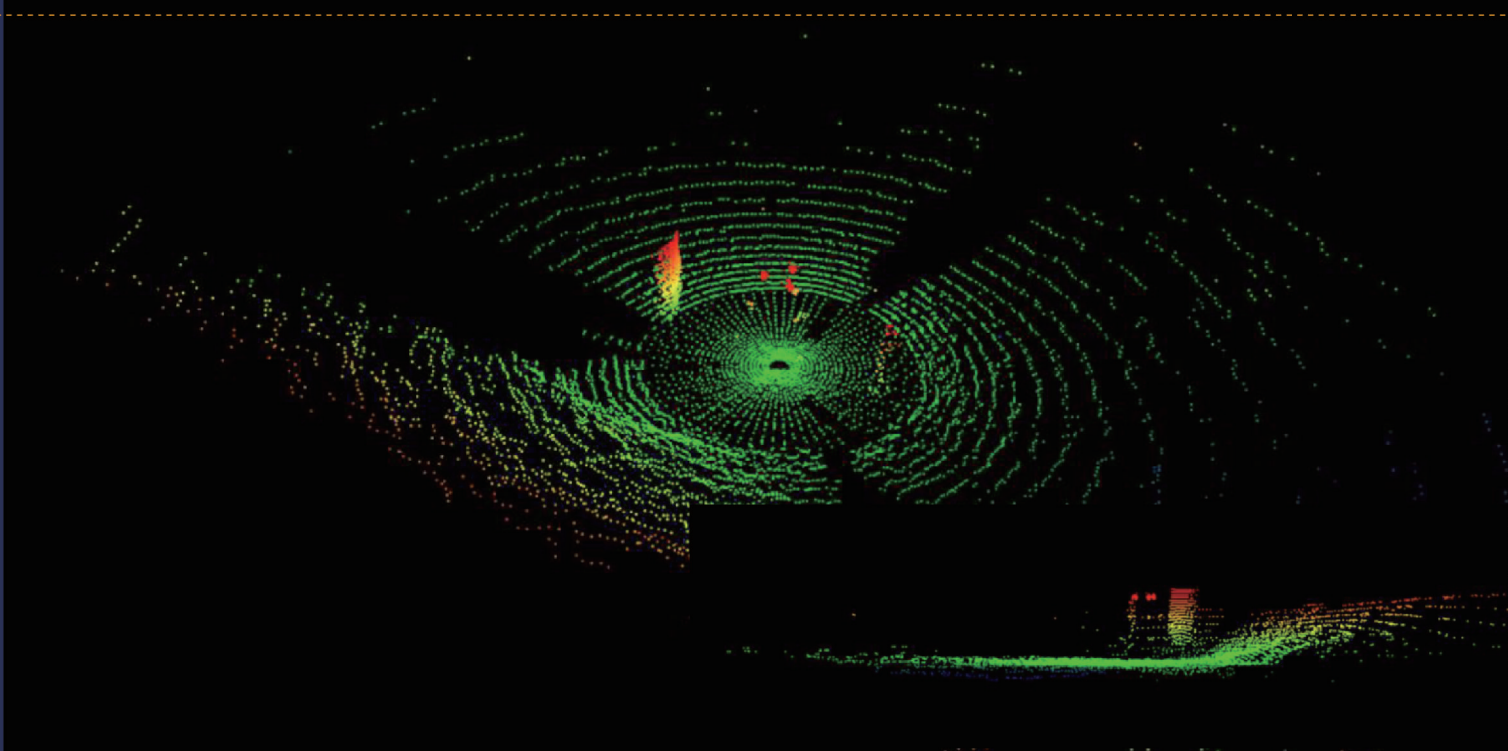
- High scanning resolution and scanning speed
- Outputs 3D point clouds along with intensity and backscatter
- Ultra compact
- Easy to operate
- Affordable price



Applications

- Optimised for SCOUR monitoring of bridges, wind turbines and underwater structures
- Underwater bridge substructure and dock inspections





Specifications

- Acoustic Frequency - 750 kHz / 1MHz
- Beam width - 1.5 ° / 1° Conical (-3dB, echo mode)
- Max Ranges - 50m/30m
- Scan Angle Resolution - Up to 0.1°
- Horizontal Scanning Sector - 360° ,
- Vertical Scanning Sector - 200° (±100°)
- Range Resolution - 1.0 mm
- Digital Output Interface - RS-232, RS-485 isolated
- Communication Speed - 4800 ~ 921,600 baud (115,200 baud default)
- Connector - MCBH6MSS
- Power supply - 10 ~ 60 VDC, 8W max
- Operation Temperature - -10°C +50°C
- Operating Depth - 300m
- Dimensions - Ø110 x H150 mm
- Weight - 2.25kg / 0.78kg (air/ water)
- Housing Materials - SS and Acetal

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