

PARTH FLS

3D FORWARD LOOKING MULTIBEAM SONAR



The PARTH FLS is a compact system designed for mounting on an Autonomous Underwater Vehicle (AUV) and surface platforms. The use of multibeam sonar technology provides information faster than mechanical sonar to the user. It can be used as a sensor for navigation aid by means of obstacle and avoidance detection in front of the vehicle's planned trajectory and subsequently adjust course and mission plan.

The PARTH FLS operates on a frequency range between 200-400kHz with a viewing angle of 120° Horizontally and 45° Vertically which cover a larger area. The combination of high ping rate and bandwidth results superior resolution and image quality.



Sonar Processor Unit



Transducer Deep
Water (200Khz)

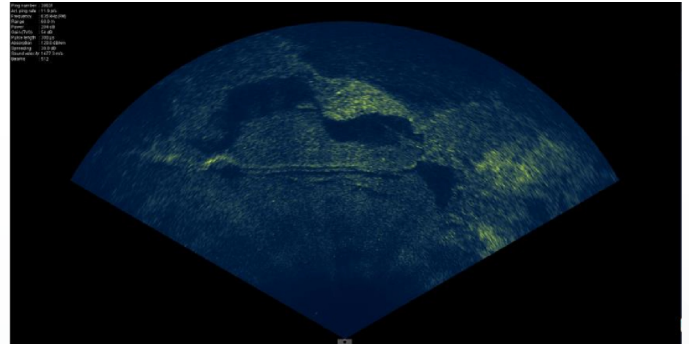
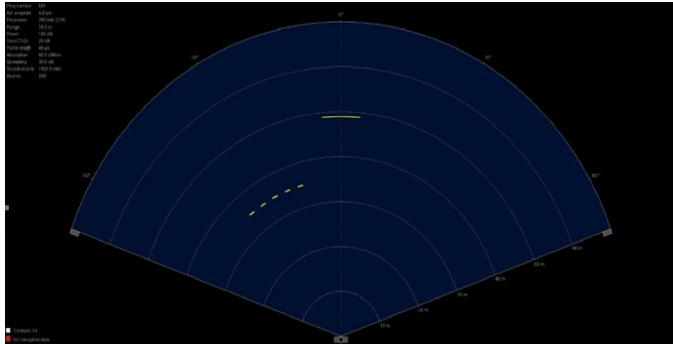


Transducer Shallow
Water (400Khz)

KEY FEATURES OF SONAR UNIT

- » Frequency Range: 200-400kHz
- » Update Rate: 0.5 s to 2 s
- » Operating Range: 05-300 meter
- » Weight: 25-35 Kg (Totally Depends upon the depth rating & frequency)
- » Number of Beams: 128/256
- » Resolution: 1° Degree
- » Data Transfer to Host vehicle: TCP/IP
- » Power: 48 VDC
- » Target Strength and Size: Small objects

SONAR TARGET VIEW



KEY FEATURES OF CONTROL SOFTWARE

- » Wedge
- » Water Column
- » Bottom Detect
- » Snippets
- » Helmsman
- » Control Software can control Range, Gain, Pulse Length, Gate, Ping Rate, Beam Mode (Equi Distant, Equi Angle, Hybrid), Beam Steering etc.

FUNCTIONALITY

- » General Visual Inspection
- » Obstacle avoidance
- » Close Visual Inspections (looking closely at the condition of underwater infrastructure)
- » Défense Asset Inspections
- » Underwater object Tracking
- » Search for and map objects on the seafloor such as shipwrecks



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