AUTONOMOUS UNDERWATER VEHICLE (AUV) OPERATIONAL UPTO 150 M

BRIEF DESCRIPTION:

Modular streamline structure helps to integrate additional payloadswith very less efforts with reasonably lesser drag without changingthe original configuration. It is stable against roll motion making it suitable for the sea-bed mapping application in addition to relevant scientific data collection. Degrees of Freedom (DOF) have been reduced from six to five through mechanical design, thereby balancing the roll motion of the system and reducing control complexity. Design for slight positive buoyancy for better diving control and safety i.e., prevention of AUV getting lost on the sea due to any malfunctioning. Controllability of a system with large dimensions (Length 4.9 m., Diameter: 0.5 m.) Dual communication including both RF and Acoustic communication. Emergency handling with power management and leak detection subsystems. Single ground reference point (SGRP) for electrical Isolation and Grounding of the complex AUV system. Capable of autonomous navigation through and pre-defined trajectory.

ADVANTAGE:

AUV-150 can be deployed for seabed mapping, coastal surveillance, mine counter measure and oceanographic measurements during adverse weather conditions. It can perform various jobs related to underwater inspection with camera, surveying etc.

Scale of development: Ready for licensing of Technology

