



EDGE LAB



LARSEN & TOUBRO

AMOGH



Dependable/affordable Autonomous Underwater Vehicle

Amogh is designed and developed in collaboration with Edgelab srl, La Spezia (Italy) and Larsen&Toubro ltd, Mumbai (India).

The AUV is designed to comply with International Hydrographic Organisation Standards for Hydrographic Surveys and regulations for the safety of navigation. The containerized design with built-in LARS and AUV maintenance support system is suitable for ease of deployment and installation.

Amogh is loaded with the latest state-of-the-art sensors, payloads, propulsion and energy system, which make it a best-of-class AUV for hydrographic and underwater surveillance, and reconnaissance operations.

Key features

- Endurance : 22 hours
- Operating Depth: 1000 m
- Maximum Speed: >7 Knots
- Operations: shallow/deepwaters patrolling, searching and tracking, oceanography and hydrography.
- Dual usage: mine countermeasures, Anti Submarine Warfare, long range sensor projection.

Mode of operation

- Supervised mode
- Autonomous mode
- Semi-autonomous mode

Payloads

- Multi-beam Swath Bathymetry System
- Side-Scan Sonar
- Sub-bottom profiler
- Underwater camera

Command, control & communication

- Radio Frequency Link - Range ~ 3 km
- Wi-Fi
- Ethernet Link
- Satellite Communication
- Acoustic Modem

Navigation and positioning

- AIS
- Doppler Velocity Log
- High-accuracy depth sensors
- Altimeter
- USBL tracking and positioning from control ship
- Collision avoidance system
- FOG200/INS by GEM Elettronica srl, S. Benedetto del Tronto (AP) - Italy

Safety features

- Acoustic transponder beacon (sub-surface)
- RF beacon (surface)
- Satellite link
- Emergency control surface through acoustic link
- Strobe light
- Safety drop-weight
- Emergency air lift

Dimensions

- Diameter: 700 mm
- Length: 5700 mm
- Weight: 1000 kgs

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