

Dive Deeper with Independent Analysis



Enabling Autonomous Unmanned Underwater Vehicles Model Optimization for Subsurface Operations



Independent

On-board processing for autonomous real-time decisions

Extended

Improve depth, speed, and agility of missions

Enhanced

4x the mission potential on the same device

Defend

- Explosive ordnance and other hazardous material need to be identified
- Mine countermeasures and harbor safety need to be elevated
- Submarine and enemy UUVs need to be identified and countered

LEIP:

- Leverage faster threat recognition and acquisition
- Launch autonomous mine countermeasures in network denied areas
- Enhance anti-submarine warfare tactics and capabilities

Deploy

- Limited device endurance can derail mission scope and success
- Navigation obstacles can impede UUVs
- Communication while deployed can reveal location

LEIP:

- Increases mission length with optimized power and performance
- Supports independent subsurface navigation
- Lessens detection risks with faster updates while underway

Inspect

- Ships need to be inspected for damage and attached ordnance
- Storms can impact undersea cables and infrastructure
- Harbors and piers need to be monitored for foreign objects

LEIP:

- Extends length and scale of near-land and harbor monitoring missions
- Helps identify subsurface threats and damage far faster
- Furthers monitoring of undersea infrastructure and hardware

Decide

- Data needs to lead to response/action in real-time
- Decisions need to be reliable, trusted, and secure
- Emerging and advanced threats need to be identified and countered in time

LEIP:

- Delivers tactical maritime domain awareness with faster inference
- Strengthens the efficiency of existing operations
- Allows independent operation in contested areas with accurate, secure results

For more information, visit latent.ai