

U_TRACKER IV



U_Tracker-IV is a multifunction Autonomous Underwater Vehicle designed for marine ecology research, archaeological mapping, coastal surveys and other scientific purposes.

The system is built on a core navigation platform that can be expanded with additional modules according to mission requirements.

Key features:

- Automatic sonar target identification;
- Effective operation in poor or zero visibility;
- Low magnetic signature (composite hull);
- 5 DoF control: hovering and point rotation;
- Fixed Depth and Terrain Following navigation;
- Surface remote control via long-range RF;
- Low-noise design with oil-immersed components.

Payloads:

- Basic navigation
- Optional small camera
- Environmental sensors
- Entry-level sonar

Controls:

- Pre-programmed patterns
- Acoustic modem data
- Periodic UW GPS fixes
- Radio link
- Acoustic tracking system

Technical Specs:

- Max depth: 300 m
- Maximum speed: 5 knots
- Cruise speed: 3 knots
- Endurance: 8 hours

Dimensions:

- Length: ~2,2 mt
- Diameter: 16 cm

Weight:

- Air: ~25 kg
- Water: ~1.0 kg positive buoyancy

Propulsion:

- 1 main stern propellers
- 2 horizontal thrusters
- 2 vertical thrusters

Energy supply:

- Internal rechargeable Li-Po battery set

Communication

- GPS
- Wi-Fi
- RF
- Ethernet

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