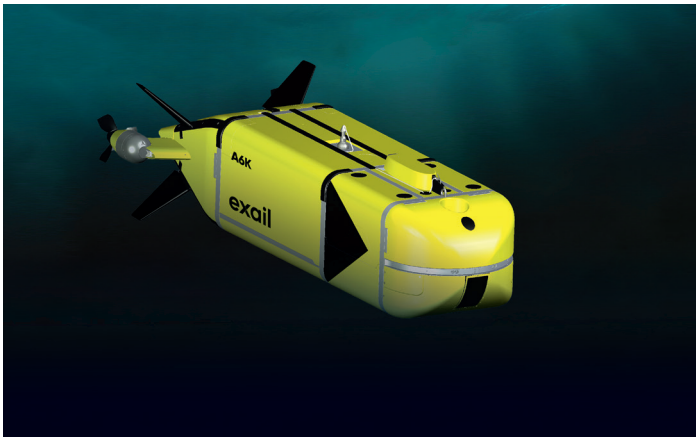
A6K

Ultra-deep survey and inspection Autonomous Underwater Vehicle



The A6K AUV can operate at depths of up to 6,000 meters. It offers long-endurance surveying and low-altitude hovering capabilities.
Derived from the Ulyx AUV, in operation with Ifremer (the French oceanographic institute), the A6K is particularly suited for missions such as surveys, pipeline and subsea cable inspections, as well as rescue missions.

FEATURES

- Unique dual mode survey & inspection down to 6,000m
- Long endurance
- Hovering capabilities
- Real-time target detection
- Automatic close-range inspection initiated during survey
- Large and modular payload section
- Multi-mission capabilites thanks to a wide range of sensors: SAS, MBES, cameras...
- Multi-payload capacity working simultaneously
- Ease of maintenance thanks to lateral openings
- Intuitive software for mission planning and supervision, data acquisition and processing
- Containerized in 20 feet ISO containers including C2, LARS, spares...
- Air-transportable

CHARACTERISTICS

Length	4.5 m
Width	1.6 m
Height	1.2 m
Weight:	+/-3,000 Kg according to configuration
Energy section	2 x 14 kWh
Propulsion	2 main thrusters + 4 auxiliary thrusters for hovering
Navigation	Inertial Navigation System (INS), Doppler Velocity Log (DVL), depth sensor and Global Positioning System (GPS)
Communication	WiFi, Iridium, Acoustic for Real Time Monitoring
Safety	Redunded architecture, Fault and leak detection, Emergency pinger, Iridium beacon, Strobe light, Emergency Drop Weight

OPERATIONAL PERFORMANCE

Endurance	Up to 30 hours according to mission profile and payloads
Max speed	5 knots
Nominal speed	3 knots
Inspection mode	± 1 knot
Operational depths	up to 6,000 m

PAYLOAD*

- Synthetic Aperture Sonar (SAS) or Side Scan Sonar (SSS)
- Multibeam Echo Sounder (MBES)
- High-resolution camera
- CTD
- Sub Bottom Profiler (SBP)
- Environmental sensors
- Volume Search Sonar (VSS)
- Laser
- Magnetometer
- Large customizable payload section

* depending on customer requirement

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