



Stealth Buoy

Uses

- Coastal surveillance
- Port security
- Monitoring navigable chokepoints
- Marine Research
- Protection against illegal fishing

The world is becoming an increasingly volatile place. The rise of terrorist organizations and the asymmetric warfare capabilities of rogue states have resulted in a more unstable and unpredictable security environment. The key to minimizing potential threats in today's world is enhanced surveillance and intelligence gathering techniques that will increase situational awareness so that threats may be identified and confronted.

Whether it is for anti-submarine warfare, port security, or environmental and resource protection, the stealth buoy is the ideal surveillance solution to meet today's changing needs.

The stealth buoy is an A-size, air-deployable variable buoyancy platform intended to support a variety of sensors. After deployment, it lies on the sea floor in littoral waters until a specified 'triggering event' is detected (i.e. an acoustic signature), which causes the buoy to rise to the surface and establish

contact with a distant controller over an IRIDIUM satellite network. Once the stored data has been downloaded from the buoy, the controller remotely programs the buoy for a new mission, and it sinks to lie on the sea floor again.

The stealth buoy has three distinct advantages over traditional sonobuoys. Firstly, unlike traditional sonobuoys, the stealth buoy can provide a medium-term monitoring capability. Whereas traditional sonobuoys have a life expectancy of approximately eight hours, the stealth buoy can remain operational for up to one month. Further, it is reusable. Its batteries can be replaced and the stealth buoy redeployed. Finally, unlike traditional buoys that are at the mercy of currents and winds, the stealth buoy largely stays where it has been deployed. This allows Commanders the luxury of being able to strategically place the stealth buoy where it is needed most and having it remain where it was deployed.



Maritime Systems

Ultra
ELECTRONICS

Technical Specifications

Stealth Buoy

PHYSICAL CHARACTERISTICS

Primary Function.....covert acoustic surveillance in coastal waters

PHYSICAL CHARACTERISTICS

Diameter..... 4.875 in (123.82 mm)

Length.....36.0 in (914.44 mm)

Weight.....22.5 lb (10.2 kg)

Depth Capability.....660 ft (200 m)

Sensor Payload.....Passive acoustic hydrophone,
GPS positioning, temperature,
pressure, active sonar projector

Communications.....IRIDIUM satellite transceiver

Deployment.....Air launch from fixed or rotary wing
aircraft, over-the-side ship launch,
at depth submarine launch

Battery.....Replaceable Lithium or Alkaline
D-cell battery pack

Operating Life.....Nominally one month depending on
payload sensor requirements, battery
chemistry used, and number
of bottom-to-surface cycles

Shelf Life.....While intended to be expendable, the buoy can
be recovered for refurbishment (battery placement,
CO₂ cylinder refilling) and reused



making a difference

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BR808427 v1
Printed in Canada