Delivering Rapid-Response ISR and Cross-Domain Connectivity

AeroVironment’s innovative Blackwing is a small, Unmanned Aircraft System (UAS) that delivers rapid-response Intelligence, Surveillance and Reconnaissance (ISR). The system can be deployed from an underwater submarine using an underwater-to-air delivery canister or ship surface/mobile ground vehicle via tube or Multipack Launcher (MPL).

Blackwing incorporates an advanced, miniature Electro-Optical and Infrared (EO/IR) sensor and provides operators with real-time video for information gathering and feature/object recognition. Its built-in secure Digital Data Link (DDL™) delivers cross-domain Command and Control (C2) relay operations between undersea and surface vessels, and Unmanned Underwater Vehicles (UUVs).

Blackwing is designed to be interoperable with AeroVironment’s Family of UAS, including Puma™ AE, Raven™, and Wasp™ AE, and RF communications systems, including the Long-Range Tracking Antenna (LRTA) and 360 Multi-Sector Antenna (MSA). The system’s small size and quiet motor make it difficult to detect, recognize, or track, even at close ranges. Blackwing has a modular payload bay to enable specific mission capabilities.

- **Rapid Launch — Rapid-Response ISR**
- **Weight:** 4 lbs
- **Launch method:** Underwater-to-Air delivery canister, tube, MPL
- **Tactical Data Relay — UAS to UUV**
- **Able to assess Below Line of Sight targets**
- **Modular Payload**
- **Integrated EO/IR Sensor Suite:** Front and side look day/night cameras
- **Observables:** Very low visual, thermal, and acoustic signatures
- **Comms:** DDL-Joint, Interoperable, Encrypted, Wideband

Wing Span: 27 inches
Length: 19.5 inches
Diameter: 3 inches

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