



## ***B7 The Beagle Unmanned Surface Vessel (USV)***

***The B-7 is an unmanned surface vessel [USV] that has been in development since 2009, and is one of the most diverse and economical USV platforms available today. Our team of experts design custom solutions per mission requirement. The task solutions include:***

- ***Threat Detection***
- ***Anti-Piracy***
- ***Search and Recovery Missions***
- ***Towing Sonars***
- ***Mapping and Hydrographic Surveying [GIS]***
- ***Security Patrols and Port Protection***

### **Basic Characteristics:**

- LOA 27ft
- BOA 7.2ft
- Composite body
- Sealed & enclosed wiring system
- Diesel inboard x 1
- Jet drive with no gearbox
- Rudder system within Jet drive
- No propellers in water
- Composite Tower
- Payload Approx 1T
- RF Compatible
- Satcom ready
- Omni high gain directional antennas
- Ground station control
- Protocol of communication is MAVLINK
- GPS & Digital compass to communicate navigation



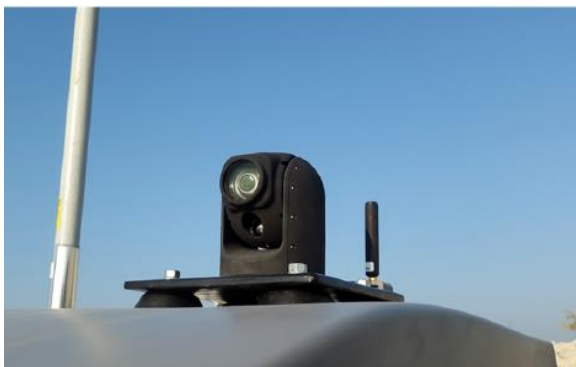
- Night navigation lights available for others to see the boat when needed
- 3 Data links in total, 2 for RF and one SATCOM

### **B – 7: READY FOR SURVEILLANCE, MISSION CAPABLE**

Sophisticated USV users clearly understand the responsibilities and requirements in the adoption and applications of the technology as it rises to all the challenges in today's complex global landscape. With the B-7 supporting stability for economic and security related challenges; assuring freedom of passage by securing sea and air lines of communication. These and other missions call for a USV that is fully capable of defending nations and private assets around the world.

The B-7 is the leading USV that meets this stringent capability and requirement:

- Unrefueled Surveillance Range: Exceeding 800 Nautical Miles
- All-Weather, Day or Night Precision
- Aids in Air to Surface Precision Munitions
- Highest Technology Ground Station and Range Boosters
- High Survivability Achieved Through a Combination of Low Radar Cross Section
- Minimum Operation and Support Costs
- Low Manpower Requirements



### **B-7: ANY MISSION, ANYTIME**

No other international multirole Unmanned Vessel meets customized capabilities, requirements and the responsibilities needed by any maritime survey or surveillance mission around the world. The B-7 has the capability to perform any mission, anytime.

#### **Coastal Defense**

Maritime interdiction. Whatever the mission, the B-7 performs. No other multirole USV has been designed to be used for almost any maritime surveillance requirement. New precision Global Positioning System (GPS)-Guided waypoint capable – provide the B-7 the capability to suppress and deter any threat to coastal assets.



### **Water to Air**

The onboard Camera surveillance system allows live feedback for any friendly aircraft to view in real-time what the USV camera can see on water.

### **Deep Interdiction**

The high fuel efficiency and low cruise drag of the B-7 provide range/payload performance that is unmatched by any USV or manned vessel.

### **Maritime Interdiction**

Monitoring the coastline, protecting sea lanes and ports and guiding ships in pirate-infested waters.

### **Advanced Ground Station**

Color multifunction displays provide the primary interface with sensors and added integrated third party hardware such as Sonars or weapons and give the pilot exceptional awareness of the battle space through tactical situation formats.

### **Advanced Autopilot**

Auto throttle modes and multi waypoint Modes along with many other modes that are incorporated in the B-7 decrease pilot workload. With an Automatic return to home feature that enables the boat to return to a location that is set by the Pilot as a fail safe option.

### **Affordability**

Protecting Budgets and Borders. It might be said that no price tag can be put on the importance of national defense. Yet the reality is this: budgets and borders are both important – another reason the B-7 is favored. Today's most capable, best-value USV is also the most affordable in terms of procurement and operational life-cycle costs.



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