

## USV Options

	TARGET BOAT	B7	B10	CUSTOM USV
<b>Physical Characteristics</b>				
Length	7 m	7 m	10 m	Customer Defined
Beam	2.1 m	2.1 m	2.8 m	Customer Defined
Dry Weight	1600 kg	2000 kg	3000 kg	Customer Defined
Hull Type	Planning-V	Planning-V	Planning-V	Customer Defined
Operational Control	Unmanned	Unmanned	Unmanned with optional Manned Capability	Unmanned with optional Manned Capability

<b>Mechanical Setup</b>				
Max Combined Engine Horse Power	250 HP	400 HP	900 HP	Customer Defined
Propulsion	Outboard	Outboard, Stern Drive, Water Jet	Outboard, Stern Drive, Water Jet	Customer Defined
Fuel Capacity	300 L	750 L	1500 L	Customer Defined
Anchor Winch	N/A	Maxwell RC10	Maxwell RC10	Customer Defined
Equipment Tower	N/A	2 Level Mounting Bracket	Mounting Tower	Customer Defined
Generator	N/A	N/A	30 kW	Customer Defined

<b>Performance</b>				
Max Speed	35 knots	50 knots	55 knots	Hull and Engine Dependent
Range	140 nm	450 nm	600 nm	Hull, Engine and Fuel Capacity Dependent
Payload		750 kg	1200 kg	Hull and Engine Dependent
Control	Remote Control ≥2km, Waypoint control ≈15km	MAP Pro Autonomous Control & MAP RC remote control 30km+	MAP Pro Autonomous Control & MAP RC remote control 30km+	MAP Pro Autonomous Control & MAP RC remote control 30km+
Communications	Serial RF Data Link	IP Mesh Radio	IP Mesh Radio & SatCom	IP Mesh Radio & SatCom
COMMS Encryption	N/A	AES 128 or 256	AES 128 or 256	AES 128 or 256
System Architecture	RS232	IP, NMEA 2000	IP, NMEA 2000	IP, NMEA 2000
Configurable Failsafe(s)	Continue mission	Continue mission, loiter in current position, engine kill, return to home in reverse waypoint order & user specified.	Continue mission, loiter in current position, engine kill, return to home in reverse waypoint order & user specified.	Continue mission, loiter in current position, engine kill, return to home in reverse waypoint order & user specified.

<b>Power</b>				
Voltage	12 VDC	12 VDC	12 VDC, 24VDC & 110/220 VAC	12 VDC, 24VDC & 110/220 VAC
Remote Switching & Power Distribution	N/A	16 Channels	32 Channels	Customer Defined

<b>Equipment</b>				
GPS	✓	✓	✓	Customer Defined
INS	✓	✓	✓	Customer Defined
AIS	N/A	✓	✓	Customer Defined
Radar	N/A	✓	✓	Customer Defined
Depth Sensor	N/A	✓	✓	Customer Defined
Fixed Cameras	N/A	3	4	Customer Defined
Stabilized EO/IR Gimbal	N/A	✓	✓	Customer Defined
Industrial Router	N/A	8 Ports	16 Ports	Customer Defined
Flood & Spot Light	N/A	✓	✓	Customer Defined
Loud Hailer	N/A	✓	✓	Customer Defined
Engine Diagnostics	N/A	RPM, Fuel, Temp, Battery, Operating Hours	RPM, Fuel, Temp, Battery, Operating Hours	Customer Defined

<b>Optional Equipment</b>				
Winch for Towed Equipment	N/A	N/A	✓	Customer Defined
Launch and Recovery Support Structure	N/A	N/A	✓	Customer Defined
Towed Sonar	N/A	N/A	✓	Customer Defined
Thru Hull or Transom Mounted Sonar	N/A	✓	✓	Customer Defined
Configurable Payload Mounting Points	N/A	N/A	✓	Customer Defined
Directional Microphone	N/A	✓	✓	Customer Defined
Police Lights	N/A	✓	✓	Customer Defined