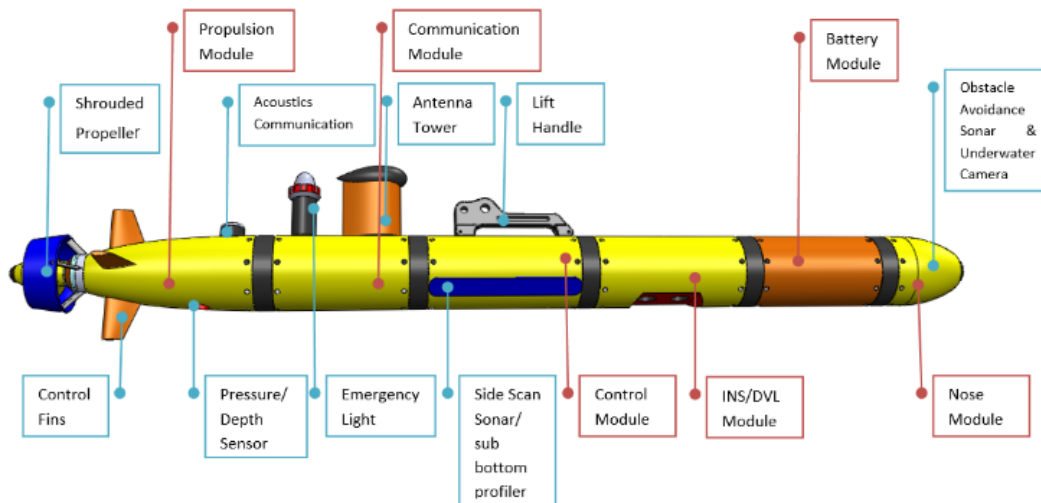# PAPUMA AUV SPECIFICATION

STANDARD FEATURES

DIMENSIONS: Standard Length: 1.86 meters

TUBE DIAMETER: 8 inches

WEIGHT: <60 kg (standard vehicle)

DEPTH RATING: 150 meters

ENDURANCE: 8 hours at speed of 2.5 knots;

SPEED RANGE: 1-5 knots

COMMUNICATION: Wireless 802.11n Ethernet standard

POWER: 18-24V DC Charge Voltage

TRACKING INTERNAL DATALOG: Programmable resolution

NAVIGATION:

   Surface: GPS

   Subsurface: Doppler Velocity Log (DVL), depth sensor and corrected compass

SOFTWARE

   Vector Map: Mission planning and data viewing

   Sonar Mosaic: Creates GeoTiff images of side scan records and KMZ files for Google Earth

   Underwater Vehicle Console (UVC): Operation, run mission, remote control

ENERGY: 1200 WHrs of rechargeable Lithium-Ion batteries,

ONBOARD ELECTRONICS: Intel processor with Windows; Up to 256 GB solid state drive for data collection

PROPULSION SYSTEM: 24V Servo Controlled DC Motor with 3-blade propeller

CONTROL: Four independent control planes (Pitch / Yaw Fins)

REMOVABLE FLASH: USB2.0 port for sonar record recovery

SENSORS & ACCESSORIES

SONAR SIDE SCAN: StarfishAUV (452kHz) Single frequency, CHIRP System, 100 Meter range per side

Doppler Velocity Log (DVL): 4-beam: Single frequency, downlooking DVL for bottom-track navigation

COMMUNICATIONS:

   Surface: 2.4 GHz telemetry radio.

HANDHELD REMOTE CONTROLLER: Touch screen based 2.4 GHz telemetry radio remote with joystick surface control (300 meter + range)

RUGGED TRANSIT CASE: With custom foam inserts, includes collapsible AUV field stand.