

Umbra Specification Sheet

Maritime Underwater Solutions

Prince Andrew High School • Dartmouth, NS

Dimensions

Length: 45.0cm
Width: 46.5cm
Height: 35.0cm

Operating Specifications

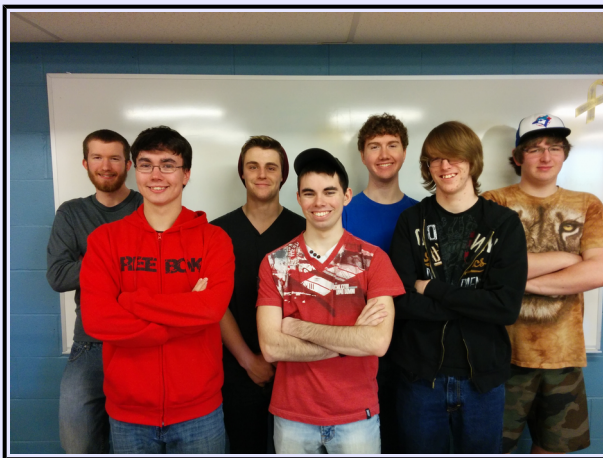
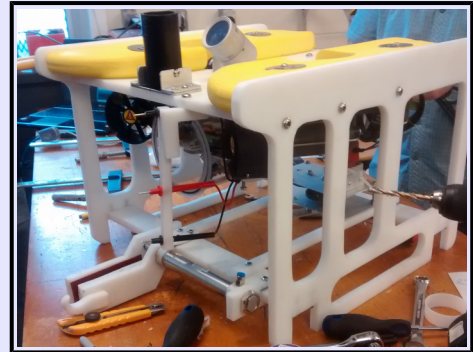
Power Requirement: 12 volts DC
Maximum Operating Depth: 6 metres

Vehicle Features

Propulsion: 6 Seabotix BTD150 Thrusters, 2 BlueRobotics T100 Thrusters
Tools: Horizontal Pneumatic Claw, High Torque Rotator, Algae Collection

System

Control: Xbox 360 Controller, Pulse Width Modulation, Servo
General: Removable Electronics Tray, Voltmeter, 3 Cameras, Depth Sensor
Material: High Density Polyethylene
Safety: 25 Ampere Circuit Breaker, Main Power Switch, Shrouded Thrusters, Double O-Ring Sealed Electronics, Water Sensor



Company Information

Name: Maritime Underwater Solutions
School: Prince Andrew High School
Grade Range: 10-12
Location: Dartmouth, Nova Scotia, Canada
Distance from competition: 1 482km
MATE History: 2nd year competing,
2nd international competitor

Maritime Underwater Solutions Team

(Left to Right):

Charlie McKay (Marketing Director)
Jake Graham (Electrical Engineer)
Evan Terry* (Mechanical Engineer)
Alex Dewar (CEO)
Jerret DeMan (Mechanical Engineer)
Tyler Robinson (CFO)
Micheal Pierrynowski (Design Engineer)
* denotes new member

Manufacturing Cost: \$5492.30