

Specs Sheet of ENS

Company Name: Emergency Call






School Name: Keang Peng School (Secondary Section)

Home State: AVENIDA HIPÓDROMO, NO.389
KEANG PENG SCHOOL(SECONDARY SECTION)
Macau 00853

Distance Required Traveling to Houston: 7000 miles

History of Company: We has participated in a regional event but this is the first trip to international completion

Members:

				
Chan Io Tong CEO Form 6 student	Lou Weng Keong Graphic designer Form 5 student	Lao Ka Hong CFO Form 5 student	Cheong Chi Kit CTO Form 5 student	Lei Cheok Wa Promotion director Form 4 student

ROV Name: ENS

Total Cost of Construction: US\$ 870

Primary Materials Used in Construction: PVC and aluminum

Approximate Dimensions: 0.5m X 0.65m X 0.4m (Width X Depth X Height)

Total weight: 13 Kg

Maximum Electric Power Consumed: 189W

Maximum Propelling Velocity: 24.6cm/s

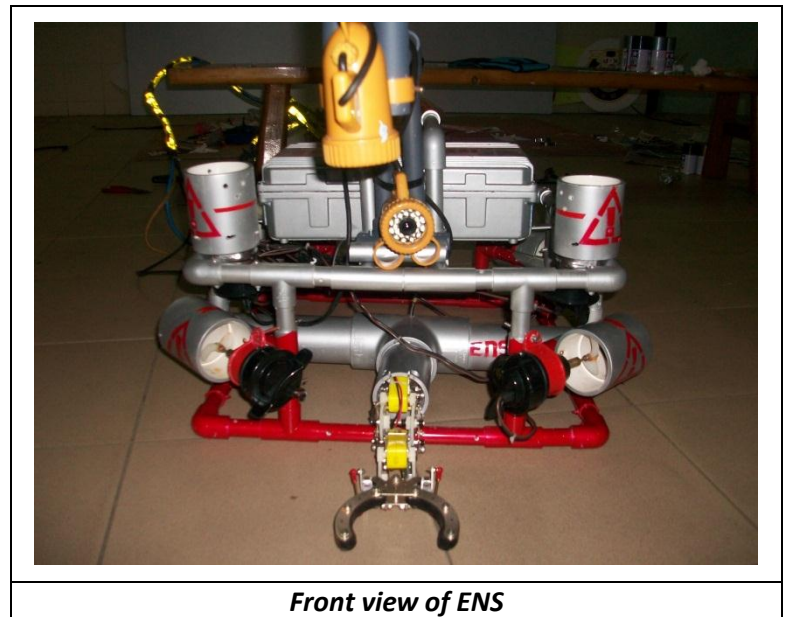
Maximum Turning Velocity: 1.58rad/s

Safety features:

1. Low voltage operated control panel and high voltage isolated design;
2. Double waterproofing technique (water-resistance paint and O-rings) & Fuses for precaution of short circuit;
3. Ducts for each thruster to avoid getting entangled in seaweeds or other underwater obstacles.

Special features:

1. Versatile movements gained, including moving forward and backward, making turns as well as lateral movements;
2. Ease-to-use and moving velocity control available because we adapt using joystick as the main user control interface;
3. 15 meters Reflective tether available;
4. Portable manipulator which can be replace with different kinds of grippers and devices;
5. Equipped with depth meter and sample extractor.



Front view of ENS