

School name: Po Leung Kuk Ngan Po Ling College

Team name: Underwater robot team

Company name: Newtype Industries

History of MATE ROV (Hong Kong regional) Competition Participation:

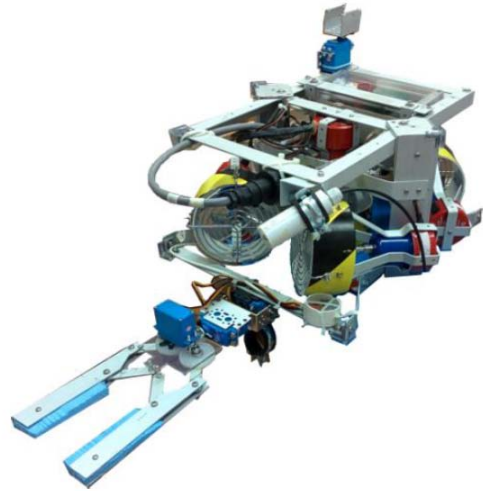
Returning members of MATE ROV regional contest

First time participating in the international contest

Distance to international contest: 7658 miles

ROV SPECS:

ROV Name: Type II
Total Cost: HKD\$9,423 (up to 20th May 2014)
Primary material: Aluminium alloy (for frame and manipulator)
Dimensions: Length 0.67m (~ 26.5 inch)
Width 0.38m (~ 15 inch)
Height 0.19m (~ 7.5 inch)
Maximum Electric Power Consumed: 240W
Mass: 7.0 Kg
Speed: Horizontal Speed: 0.27m/s
Rotational Speed: 1.51 rad/s



Safety features:

- Propeller cover
- 25A fuse connected to input
 - 2.5A fuse for 500 GPH bilge pump
 - 5A fuse for 1100 GPH bilge pump
 - 5A fuse for cameras and servos
- No sharp edges
- Digital ammeter and voltmeter for monitoring current drawn and voltage provided

Special features

- Aluminium alloy frame
- Ergonomics controls
- 4-vectored propulsion configuration
- Free looking camera
- Dual axis movement manipulator
- Quick fit accessories
- Quick assemble electronic box

NEWTYP INDUSTRIES

Members:



Donald
-Chief
Executive
Officer
-Lead
Electrical
Engineer

Jonathan
-Lead
Mechanical
Engineer
-Pilot

Shoyu
-Head of
Research and
Development
(R&D)
-Co-pilot

Stitch
-R&D
-Poolside
operator

Kaiser
-Chief
Financial
Officer
-R&D