

## AUTONOMOUS WATER SAMPLING AND MONITORING BOAT

- Online water quality sampling & monitoring
- Pollution source tracking
- Applied in lake, pond and river



### 1 FEATURES



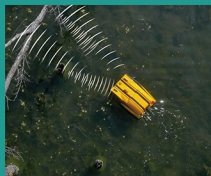
Automatic water sampling up to 4(8)×2L



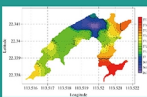
Monitor with multi parameters probe



Autopilot and real time video monitor



Intelligent obstacle avoidance



Sampling report and water quality map

### 2 SPECIFICATION

Model ESM30  
Dimension 115×75×43cm  
Weight 26Kg  
Max. Speed 2(4) m/s  
Endurance 6hours



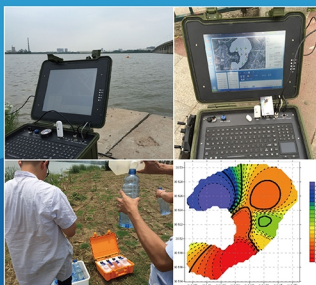
## APPLICATION CASE

### 1 Water Sampling and monitoring in Heraklion



- By using unmanned boat for automatic water sampling and monitoring, a demonstration work was made in Heraklion, Greece. Integrated with YSI EXO2 multi parameters sonde for online water quality monitoring. Samples were automatically took and stored in sampling box.

### 2 Wuhan water quality monitoring project



- 50 lakes' water project in Wuhan taken by Environment Protection Bureau. ESM30 unmanned boat was used to take 673 water samples and 4,678 monitoring points. 2 month schedule was shorten to 2 weeks with ESM30, which greatly enhance water monitoring efficiency.

### 3 Qianshan river pollution source tracking

- Water quality monitoring was conducted in Qianshan river, with the output of water quality data and contour map, abnormal water quality area was found and proved to be contaminated by sewage discharge.

