

M75 Unmanned Patrol Vessel



25 KN
Max. Speed

120 NM
Endurance



Electro-optical pod



Loudspeaker



Forward-looking Sonar

Compact, budget-friendly, and suitable for river and nearshore applications, the M75 is a small surveillance USV, serving as an entry-level solution for waterborne surveillance and alerts.

Application Scenarios

Conducting 24/7 patrols and guarding tasks in rivers and nearshore areas, tracking and issuing warnings to suspicious vessels, and optionally performing underwater object detection with equipped side-scan sonar

Key Features

- 1 Strong rescue capability with automatic life raft ejection
- 2 Real-time high-definition video streaming from the photoelectric pod
- 3 High-speed diesel jet pump thrusters reaching up to 25 knots
- 4 Supports point-to-point communication over distances of up to 15km
- 5 Unique self-righting function, suitable for high sea conditions

SPECIFICATIONS

Physical

Dimension	5.5m(L)*1.75m(W)
Weight	1.2t
Draught	0.42m
Hull Material	Carbon Fiber Composite

Performance

Max Speed	25 kn
Endurance	120nm @ 20kn
Operation Sea State	Sea State III

Power & Propulsion

Propulsion	Yanmar Diesel Engine 110HP + Alamarin Water-jet 260HP
Power for Electronics	Battery Pack + Diesel Generator
Fuel Capacity	Diesel 120L

Navigation Aids & Safety

Situation Awareness	Navigation Radar, LiDAR, AIS, Camera
Collision Avoidance	Dynamic / Static Collision Avoidance

Control & Communication

Control Mode	Remote Control / Autonomous
Communication	Private Network 10-20km, Remote controller 1km, Public Network
Software	OceanAlpha USV Navigation & Mission Software

INTEGRATIONS

Electro-optical Pod

Police Light

Search Light

Loudspeaker

Side Scan Sonar(Optional)

Forward-looking Sonar (Optional)

APPLICATION CASE



OFFSHORE OIL AND GAS PLATFORM MATERIAL TRANSPORTATION AND SECURITY PATROL

EQUIPMENT USED:

M75 USV

MISSIONS:

- ① 24/7 maritime patrol surveillance
- ② Efficient and cost-effective supply transportation
- ③ Autonomous execution of multiple tasks when integrated with various mission payloads