



XPLORER 1

MARINE SURVEY USV

UNCREWED SURFACE VESSEL



Oil & Gas



Wind Farm



Near Shore



Off Shore

Sea State IV
ENVIRONMENT

≥ 500 KG
PAYLOAD

≥ 500 NM
ENDURANCE

3° in SS3
ROLL AMPLITUDE

XPLOER 1

TECHNICAL SPECIFICATIONS

PHYSICAL

| | |
|----------------------|--------------------------------------|
| Dimension | 8.38m(L)*2.517m(W) |
| Hull Material | Anti-corrosion Marine Aluminum Alloy |
| Displacement | 4.9t |
| Draught | 0.65m |
| Payload | 500kg |

PROPULSION

| | |
|------------------------|--------------|
| Propulsion | Water Jet |
| Fuel | Diesel |
| Engine Capacity | 916L |
| Power Rating | 48kW@2700rpm |

PLATFORM

| | |
|-------------------|---|
| Features | Modular Design + Excellent Navigability |
| Security | Anti-impact and Anti-overturn Active Roll Reduction System |
| Stability | Roll Amplitude : ≤ 3 Degrees in SS3 |
| Thermostat | Device Cabin Kept at $28^{\circ}\text{C} \pm 2^{\circ}\text{C}$ |

PERFORMANCE

| | |
|---------------------|---------------|
| Survey Speed | 5-8 kn |
| Max Speed | 10 kn |
| Endurance | 500nmile@6kn |
| Survival | Sea State IV |
| Operation | Sea State III |

PERFORMANCE

| | |
|---------------------|--|
| Control Mode | Manual + Remote Control + Autonomous |
| Range | Auto: $\geq 10\text{KM}$ RC: $\geq 800\text{m}$ |
| Base Station | 3 x Independent Display Screens (Real-time Video/ Navigation/ Survey) |

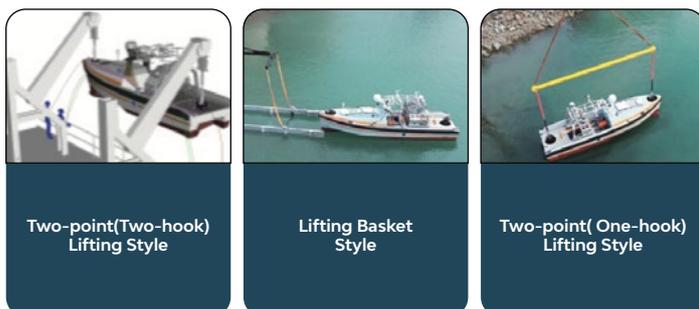
NAVIGATION AIDS & SAFETY

- ✓ AUTO Collision Avoidance
- ✓ Multi-USV Cooperative Control
- ✓ Fault Self Inspection
- ✓ Auto Return During Communication Loss
- ✓ Route Deviation: $\leq 2\text{m(RMS)}$ in SS3

FEATURES



Multiple Automatic Launch & Recovery Methods



TYPICAL PAYLOADS

