



### UV Information and Contact

|              |                       |
|--------------|-----------------------|
| Name         | ROVlatis              |
| Mission Type | Oceanographic Surveys |

### General Specifications

|                             |   |
|-----------------------------|---|
| Beam (m)                    | --  |
| Draft (when resurfaced) (m) | --  |
| Frame                       | Marine-grade Aluminium with detachable toolskid                 |
| Tether description          | 400m 80kN braided vectran fibre carrying 8 fibre-optic channels |

### Support Vessels Requirements

|              |    |
|--------------|----|
| Control vane | -- |
|--------------|----|

### Speed Duration and Range of Operation

|                                     |    |
|-------------------------------------|----|
| Diving and resurfacing speeds (m/s) | -- |
| Max. cruising range                 | -- |
| Normal dive duration (hours)        | -- |
| Cruising speed (m/s)                | -- |

#### Max. Speed:

|                |    |
|----------------|----|
| Forward (m/s)  | -- |
| Lateral (m/s)  | -- |
| Vertical (m/s) | -- |

### Crew and Scientific Observers

|                               |    |
|-------------------------------|----|
| Scientific observers (number) | -- |
| Pilots (number)               | 1  |

### Energy

#### Total Energy Available:

|                               |    |
|-------------------------------|----|
| Propulsion and steering (kWH) | 11 |
| Scientific payload (kWH)      | -- |

### Propulsion and Steering

#### Thrusters (Thrust Force)

|                            |                                   |
|----------------------------|-----------------------------------|
| Aft (N)                    | --                                |
| Lateral (N)                | --                                |
| Fore (N)                   | --                                |
| Vertical (N)               | 4                                 |
| Control planes arrangement | 4 vectored horizontal, 4 vertical |

### Pressure Hull (Manned Sphere)

|                     |    |
|---------------------|----|
| Inside diameter (m) | -- |
| Material            | -- |
| Portholes           | -- |
| Thickness (m)       | -- |

| Trim Adjustment and Ballasting              |   |
|---|---|
| Trim adjustment and ballasting              | 1000m depth rated syntactic foam (neutral or positive buoyancy options)   |
| Navigation Equipment                        |   |
| Non-Acoustic                                |   |
| Attitude and heading                        | --  |
| Pressure sensor                             | CDL Microbath (Digiquartz & precision depth modules)  |
| Acoustic                                    |   |
| Doppler                                     | RDI Workhorse Navigator 600   |
| Altimeter                                   | Reson SVP-24  |
| Longbaseline system                         | --  |
| Ultrashort baseline system                  | --  |
| Other equipment                             | 6 horizontal mounted Trittech single beam echosounders for obstacle avoidance. ixSEA PHINS 6000 INS.                                |
| Automatic Guidance and Control Capabilities |   |
| Depth control                               | Provided by MPPT - proprietary Navigation Assistance Toolset integrated with ixSEA PHINS INS, USBL and DVL.                         |
| Altitude control (above the seabed)         | Provided by MPPT - proprietary Navigation Assistance Toolset integrated with ixSEA PHINS INS, USBL and DVL.                         |
| Heading control                             | Provided by MPPT - proprietary Navigation Assistance Toolset integrated with ixSEA PHINS INS, USBL and DVL.                         |
| Speed control                               | Provided by MPPT - proprietary Navigation Assistance Toolset integrated with ixSEA PHINS INS, USBL and DVL.                         |
| Way-point tracking                          | Provided by MPPT - proprietary Navigation Assistance Toolset integrated with ixSEA PHINS INS, USBL and DVL.                         |
| Path following                              | Provided by MPPT - proprietary Navigation Assistance Toolset integrated with ixSEA PHINS INS, USBL and DVL.                         |
| Customer - Defined Instrumentation Support  |   |
| Dimensions                                  | --  |
| Power (kW)                                  | --  |
| Communication Links                         | --  |
| Max. weight in water (kg)                   | --  |
| Max. weight in air (kg)                     | 100   |
| Scientific Instrumentation and Tools        |   |
| Still cameras (number)                      | 4   |
| Lightning (number)                          | 5   |
| Manipulator / Sampling                      | --  |
| Video cameras (number)                      | 4   |
| Total power (kW)                            | --  |
| Additional Information                      |   |
| Examples of missions executed               | Sea Trials of with new instrumentation payload. Inspection of Sea Data Buoy (Galway), Dock and inshore water surveys and inspection |
| Examples of scientific data acquired        | --  |
| Other                                       | --  |