DEEPOCEAN

# USV CHALLENGER

VESSEL SPECIFICATION SHEET




## IMR, SURVEY AND ROV SUPPORT VESSEL

USV Challenger is a remotely operated light intervention, inspection and survey support vessel owned by USV AS, a partnership between DeepOcean, Østensjø Rederi and Solstad Offshore.

Operated from the Remote Operations Centre (ROC) in Haugesund, the vessel combines advanced onboard sensor systems and a highly redundant vessel design with an electric work-class ROV and dedicated launch and recovery system

With an endurance of 14–25 days, USV Challenger can perform offshore scopes independently or complement to a conventional subsea vessels, providing a cost-efficient, lower-emission solution for IMR, survey and ROV operations.

USV Challenger is designed for both crewed operations within Trade Area 4 (Fartsområde 4) and uncrewed operations within the Norwegian sector (economic zone). The vessel's redundant systems are designed to ensure reliable operations and minimise downtime.

## KEY VESSEL FEATURES

- FULLY REMOTE OPERATED UNCREWED VESSEL
- MULTI-LAYERED REDUNDANT COMMUNICATION SYSTEM
- HIGH-PERFORMANCE ELECTRIC WORK-CLASS ROV
- ACTIVELY GYRO STABILISED VESSEL
- 492 kWH OF BATTERY POWER
- NOVEL IN-HOUSE LARS DESIGN
- 1 500 M WROV UMBILICAL
- SEASTATE 7 WMO SURVIVABILITY
- 42 IP CAMERAS
- PORTS CALL ALONG THE NORWEGIAN COAST
- STATION KEEPING

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## CLASSIFICATION

| | |
|---|---|
| **CLASS** | DNV ✠1A,E0, Battery (Power)<br>ER (SCR), Cyber Secure (Essential) |
| **NORWEGIAN MARITIME AUTHORITIES** | Cargo ship less than 24 meters<br>Norwegian Ship Register (NOR)<br>(Crewed) - Fartsområde 1-4<br>(Uncrewed) - Norwegian Continental Shelf (Trade Area North Sea and Baltic) |
| **FLAG** | NOR |

## POSITIONING

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|---|---|
| **STATION KEEP** | Maritime robotics station keep and Joystic system |
| **REFERENCE SYSTEM** | Seapath<br>130/MRU (GNSS/INS), Furuno SC-703<br>HiPAP 502 |

## NAVIGATION

| | |
|---|---|
| **SITUATIONAL AWARENESS** | Maritime Robotics SeaSight X<br>8 x LWR (Long-Wave Infrared)<br>Furuno FAR-1518 radar<br>Furuno DRS4D-NXT radar<br>FLIR M364c<br>8 x CCTV outside dome cameras<br>34 x internal CCTV cameras |
| **NAVIGATION EQUIPMENT** | 2 x Simrad GC-80 Gyro compass<br>Veem Stabilisator Gyro<br>Simrad S-3009 Echosounder<br>Simrad SAL R1A Speed Log<br>2 x Furuno Coastal ECDIS<br>Tron AIS TR-8000 MKII Class A<br>2 x Deif WSS 750 wind sensor<br>Sailor 7222 VHF DSC Class A GMDSS<br>IHM Flexible-IP (VHF VoIP) |
| **COMMUNICATION** | 2 x VSAT<br>2 x 4G/5G<br>2 x Starlink,<br>Iridium SBD,<br>Iridium Certus |

## ROV

| | |
|---|---|
| **WORK CLASS ROV** | Argus 258 Hp electrical WROV |
| **LAUNCH & RECOVERY** | Evotec 6 Te SWL electrical winch<br>Automated L&R Novel design<br>1 500m umbilical |

## ACCOMMODATION (DAY TIME)

| | |
|---|---|
| | 4 pax (Trade Area 4) (No bunks)<br>Pantry<br>WC<br>Shower<br>Day room with Pantry |

## DIMENSIONS

| | |
|---|---|
| **LENGTH** | 23.5 m |
| **LENGTH (LOA)** | 26.9 m |
| **BREADTH** | 7.5 m |
| **DRAUGHT** | 3.5 m |
| **DEADWEIGTH** | 57 Te |
| **LIGHTWEIGHT** | 284 Te |
| **GROSS TONNAGE** | 220 Te |
| **AIR DRAFT** | 14 m |

## PROPULSION

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|---|---|
| **PROPULSION SYSTEM** | Hybrid Diesel - Electric with batteries |
| **MAIN ENGINE** | 2 x Volvo Penta D16 MH IMO III, |
| **ENGINE POWER** | 2 x 588 mkW |
| **GENERATORS** | 2 x 525 ekW |
| **BATTERY CAPACITY** | 490 KW |
| **AZIMUTHS** | 2 x 375 kW |
| **BOW THRUSTER** | 1 x 190 kW Pump Jet |

## PERFORMANCE

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|---|---|
| **SPEED MAX** | 9.7 kts |
| **ECO SPEED** | 8 kts |
| **ENDURANCE** | 14 - 25 days |
| **SEASTATE** | 7 WMO survivability |

## TANK CAPACITIES

| | |
|---|---|
| **FUEL** | 31 $m^3$ |
| **UREA** | 3 $m^3$ |
| **BILGE WATER** | 7 $m^3$ |

## CONSUMPTION

| | |
|---|---|
| **TRANSIT MAX 9.7 KTS** | ~ 4.6 Te / day |
| **TRANSIT ECO 8 KTS** | ~ 2.5 Te / day |
| **STATION KEEP** | ~ 0.9 Te / day |
| **SHORE CONNECTION** | ~ 0 Te / day |

Revision Date 20.10.2026

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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.