

# DEEPFLIGHT DRAGON



# DEEPFLIGHT DRAGON TECHNICAL SPECIFICATIONS

## GENERAL SPECIFICATIONS

**Occupants:** 1 pilot, 1 passenger  
**Maximum Operating Depth:** 100m (330ft)  
**Dimensions LxWxH:** 5.0m x 1.9m x 1.1m  
(16.4ft x 6.2ft x 3.6ft)  
**Weight:** 1800 kg (3968 lbs)  
**Maximum Payload:** 250 kg (551 lbs)  
**Maximum Cruising Speed:** 4 knots  
**Endurance / Autonomy:** up to 8 hours  
**Type:** Hover Capable  
**Certification:** Lloyd's Register

## SAFETY

**Buoyancy:** Fixed positive buoyancy, auto return to the surface  
**Emergency Flotation:** Emergency inflatable lift system  
**Egress:** Internal or external egress  
**Stability:** Dynamic self-righting  
**Depth Protection:** Programmable depth protection system  
**Fault Detection Identification and Recovery System (FDIR):** Record and monitor critical mission data such as depth, controls, life support, power, and overall system health, and provide audible and visual alarms

## LIFE SUPPORT SYSTEMS

**Oxygen System:** 2 independent oxygen systems  
**Carbon Dioxide Removal:** Replaceable soda lime cartridges  
**Emergency Life Support Duration:** 72 hrs  
**Monitoring:** 2 independent life support monitors

## PROPULSION AND BATTERY

**Propulsion Type:** Electric, brushless DC direct-drive  
**Power Capacity:** 14 kWh  
**Battery Type:** Lithium Iron Phosphate (LiFePO4)

**Battery Management:** Voltage protection, auto-balancing  
**Charging:** Dual 120-240 VAC chargers  
**Charge Time:** 4 hours  
**Emergency Battery:** 72 hours for critical systems

## PRESSURE HULL AND INTERIOR

**Hull Type:** Proof tested high strength composite  
**Viewports:** Polished cast-acrylic hemispherical viewports  
**Seating:** Custom adjustable with integrated harness  
**Air Conditioning:** Adjustable flow air-conditioning system

## NAVIGATION AND COMMUNICATION

**Communication System:** Integrated underwater, surface, and internal communications with hand-held backup VHF  
**Tracking:** USBL integrated tracking system with backup pinger locator beacon  
**Navigation:** Magnetic compass, altimeter, depth gauge

## SERVICES

**Training:** On-site piloting, integration, and maintenance training  
**Maintenance:** Optional extended warranty and maintenance package  
**Troubleshooting:** 24 / 7 service and support

## AUXILIARY

**Lighting:** 4 external LED lights  
Max Lumens: 7,000 - 9,300  
**Underwater Video:** Integrated video and audio capture  
**Other:** Rigid protective guards for acrylic domes, canvas cover, spare parts and tool kit, checklists and manuals

