



DEEPFLIGHT

HIGH-PERFORMANCE PERSONAL SUBMARINES

Ushering in a New Era of Ocean Adventure

With 94% of the oceans being unexplored, every dive provides the opportunity
to see sights no human has ever seen





THE ADVENTURE BEGINS

Your senses are ignited. The world beneath you opens. You become one with the surrounding marine life. Chart your course and explore a piece of the planet no human has seen before, all from the comfort and safety of your DeepFlight submarine.

THE DREAM BECOMES REALITY

DeepFlight submarines open the oceans for underwater adventure, enabling up close and personal interactions with marine life. Perform barrel rolls with dolphins, breach with humpback whales, or hover next to beautiful coral reefs.



EXPERIENCE UNDERWATER FLIGHT

Transform the two-dimensional elevator experience of conventional submersible dives into exhilarating flights through blue space. Whether you are looking to buy your own submarine, or just have an experience of a lifetime, DeepFlight submarines are the ideal accessory for resorts, tour operators, and superyachts.

SILICON VALLEY SOLUTIONS FOR THE OCEANS

DeepFlight has led the way in innovative submarine design. State of the art technology, combined with lightweight, high-strength composites, advanced piloting and life support electronics, and the safety of positive buoyancy make underwater exploring safe and easy, allowing you to focus on the wonders of the sea.

THE DEEPFLIGHT DIFFERENCE

We set out from the beginning to create a fundamentally new type of personal submarine.

Out with the Old

Most personal submarines are based on designs created for research-focused tasks, making them heavy and complex to operate, while providing only one dive profile: a two-dimensional, “elevator-like” experience.

In with the New

DeepFlight submarines are specifically designed for human enjoyment. They are lightweight, intuitive to operate, and uniquely offer a diverse range of experiences based on underwater flight.



DEEPFLIGHT SUPER FALCON 35



DEEPFLIGHT DRAGON

KEY FEATURES & BENEFITS OF DEEPFLIGHT SUBMARINES

UNCOMPROMISING SAFETY

Designed with safety as the number one criteria, all DeepFlight craft are subject to DeepFlight’s stringent testing standards.

CERTIFICATION

Certified by Lloyd’s Register, a globally recognized provider of classification, compliance, and consultancy services for the marine industry.

PRESSURE HULL

Pressure hulls have been tested to up to 6x deeper than operating depth; cockpits are maintained at one atmosphere at all times.

FIXED POSITIVE BUOYANCY

DeepFlight submarines automatically float to the surface.

LIFE SUPPORT

Two independent life support systems provide redundant safety.

COMMUNICATIONS

Communication systems enable contact between the pilot, passenger(s) and surface crew.

DEPTH MANAGEMENT

Programmable depth protection system which can set depth limits for each dive.

EASY AND FUN TO PILOT

DeepFlight submarines are designed to provide a fun and hassle-free experience for both owners and guests.

INTUITIVE COCKPIT

Intuitive controls and a simple layout enable you to dive with minimal training. If Apple designed a submarine cockpit, this would be the one.

THREE-DIMENSIONAL FLIGHT

Super Falcon and Super Falcon 35’s throttle controls speed; the joystick controls pitch, roll and yaw.

STABLE FLIGHT

Dragon’s throttle controls depth, and its joystick controls speed and heading.

YOU TAKE THE CONTROLS

No need for a professional pilot. We train owners and their staff to fly their DeepFlight submarine.





EASE OF OPERATIONS

With their light weight and small footprint, DeepFlight submarines can readily operate from more yachts and shore bases than any other personal submarine on the market.

OPTIMAL SIZE FOR STORAGE
Fit into most yacht garages, with minimal or no need for any retrofit.

HASSLE-FREE LAUNCH AND RECOVERY

Launch similar to yacht tenders using existing cranes and trolley systems.

LAUNCH AND RECOVERY PLATFORMS

Customized launch and recovery systems allow passengers easy entry and exit on the water, as well as access to dive locations.

MINIMAL MAINTENANCE

Existing crew members or staff can be cross-trained for all operational and maintenance support tasks.

LOW OPERATING COSTS

DeepFlight submarines require minimal, easily sourced supplies for operation.

UNPARALLELED EXPERIENCE

Diving in a DeepFlight submarine is an active and engaged experience. This is not a tour bus, but rather a three-dimensional underwater experience.

FLY, DON'T SINK

It's not just about what you see, but also how you are moving through the water.

COMFORT

Pilot and passenger(s) sit in individual, comfortable, air-conditioned cockpits with legs outstretched.

IDEAL VIEWING

Pilot and Passenger(s) enjoy a 360 degree view through their individual polished acrylic domes.

MULTIPLE DIVE PROFILES

Every dive can provide a unique experience—from a slow balletic excursion with giant manta rays, to an exhilarating barrel roll, to a gentle cruise over a shipwreck.





POWER TO EXPLORE

State of the art technology, combined with a light weight design and an efficient electric powertrain, enables unprecedented speed, range and maneuverability to explore the wonders of the sea.

EFFICIENT LITHIUM IRON PHOSPHATE BATTERIES
8 hours of diving with an overnight charge.

THRUSTERS FOR HOVERING
DeepFlight Dragon's vertical and horizontal thrusters enable stable hovering over areas of interest.

INVERTED WING DESIGN
Super Falcon and Super Falcon 35 possess unprecedented speed, range, and maneuverability.

ENVIRONMENTALLY FRIENDLY

DeepFlight submarines are all-electric and environmentally friendly. Think Tesla of the Oceans.

LOW ACOUSTIC EMISSIONS
Insulated to minimize any noise or electric emissions, allowing greater interaction with marine life.

LOW VOLTAGE SYSTEM
Safe and easy to operate around swimmers and marine mammals.

NO ENVIRONMENTAL IMPACT
DeepFlight submarines never land on reefs or on the bottom of the ocean.



DEEPFLIGHT SUPER FALCON 3S TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS
Occupants: 1 pilot, 2 passengers
Maximum Operating Depth: 100m (330ft)
Dimensions LxWxH: 7.6m x3.3m x 1.6m (25ft x 10.8ft x 5.2ft)
Weight: 2860 kg (6300 lbs)
Maximum Payload: 375 kg (825 lbs)
Maximum Cruising Speed: 4 knots
Endurance / Autonomy: up to 8 hours
Type: Hydrobatic
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 under-water, 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



DEEPFLIGHT SUPER FALCON 3S

Launching in 2017, DeepFlight Super Falcon 3S builds on the innovations made with the original Super Falcon, and adds a 3rd seat for an additional passenger to share the underwater adventure. Each passenger benefits from his/her own cast-acrylic hemispherical canopy that provides a 360-degree view of the surrounding sea life.

DEEPFLIGHT SUPER FALCON TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS
Occupants: 1 pilot, 1 passenger
Maximum Operating Depth: 100m (330ft)
Dimensions LxWxH: 5.9m x2.7m x 1.6m (19.3ft x 8.8ft x 5.2ft)
Weight: 1800 kg (3,968 lbs)
Maximum Payload: 375 kg (825 lbs)
Maximum Cruising Speed: 5 knots
Endurance / Autonomy: up to 8 hours
Payload: 250 kg (551 lbs)
Type: Hydrobatic
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: 10 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 under-water, 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



DEEPFLIGHT SUPER FALCON

DeepFlight Super Falcon’s patented inverted wing design utilizes the principles and dynamics of flight to dive. Forward thrust combined with the wing structure enables the Super Falcon to fly underwater with unprecedented range, speed and agility.

Super Falcon was designed for easy use from yachts or shore to explore ocean life. Barrel roll with dolphins, spy-hop with whales, or cruise through underwater canyons, all in style, safety, and comfort. Hailed as the Learjet of the oceans, diving in a Super Falcon is a radically different experience from a conventional submarine.

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 under-water, 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



DEEPFLIGHT DRAGON

DeepFlight Dragon takes underwater flight to the next level by enabling you to both hover and fly. With vertical and horizontal thrusters providing its quadcopter dynamics, you can now stop, hover and maneuver while exploring never before seen sights along the way.

Dragon was designed specifically for the yacht market, and is the smallest and lightest personal submarine available. Dragon might look like a Formula One racecar, but it operates more like an underwater quadcopter.

There's nothing like flying through the ocean.
Go on a DeepFlight adventure today.





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