DPD System 2
Manned & Autonomous Vehicles with Navigation, Control & Communications for EOD and Maritime SOF

Now available with

AC2
Acoustic Communications

stiddmil.com
Moving easily between manned and autonomous roles, STIDD’s new generation of propulsion vehicles provide operators innovative options for an increasingly complex underwater environment.

Over the past 20 years, STIDD built its Submersible line and flagship product, the Diver Propulsion Device (DPD), around the basic idea that divers would prefer riding a vehicle instead of swimming.

Today, STIDD focuses on another simple, but transformative goal: design, develop, and integrate the most advanced Precision Navigation, Control, Communications, and Automation Technology available into the DPD to make that ride easier, more effective, and when desired . . . RIDERLESS!

DPD2 - Manned Mode

DPD2 - OM2 Mode
Manned or Autonomous...
The "All-In-One" Vehicle
Moving easily between manned and autonomous roles, STIDD's new generation of propulsion vehicles provide operators innovative options for an increasingly complex underwater environment.

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RNAV2 - Manned Mode

RNAV2 was developed by STIDD partnering with Greensea as the backbone of this capability. RNAV2 is powered by Greensea’s patent-pending OPENSEA™ operating platform, which not only enables RNAV2’s open architecture, but also seamlessly integrates STIDD’s OM2/AP2 Diver Assist /S2 Sonar/ AC2 Communications products into an intuitive, easy to use, autonomous system. When fully configured with the Precision Navigation, Control & Automation System including RNAV2/OM2/AP2/S2/AC2, any DPD easily transitions between Manned, Semi-Autonomous, and Full-Autonomous modes.

RNAV2

PRECISION NAVIGATION, CONTROL & AUTOMATION SYSTEM

RNAV2

PRECISION NAVIGATION & CONTROL

• Ensures Precise Clandestine Navigation
• Intuitive, User-Friendly Interface
• Open Architecture System
• Diver-Portable and DPD-Mounted in single form factor

0M2

AP2

S2

AC2

OPTIONALLY-MANNED

• Automates key DPD Functions
• Seamless transition from Manned to Autonomous Modes

DIVER ASSIST

• Provides accurate 2 Axis Heading Control of the DPD and 4th Axis Depth Control

SONAR

• Enhances Precision Navigation
• Allows Obstacle Avoidance and Target Identification

ACOUSTIC COMMUNICATIONS

• Provides long range communications between DPDs
• Enables texting, data sharing and tracking
Introducing **RNAV2**

**PRECISION NAVIGATION SYSTEM**

for DPD-Mounted, Diver-Portable & DPD-OM2 Missions.

RNAV2 Precision Navigation System (p/n 4600-101) is an innovative electronic navigation system that can be either mounted in the DPD to enable precision navigation by combat divers, or without divers for Optionally-Manned Vehicle (OM2) missions. Additionally, the RNAV2 can be dismounted in seconds for swimming in hand-held mode. In any role, the RNAV2 offers SOF personnel the unprecedented capability of a navigation tool for precise clandestine subsea navigation, mine countermeasures, beach reconnaissance, ship-attack, missions, object identification, and AUV operations.

The RNAV2 adjustable back-lit 8.4” color LCD screen constantly displays the operator’s position on a high resolution moving map display for instantaneous situational awareness. Position accuracy of 0.5% over distance traveled is achieved through a suite of high-accuracy on-board sensors and an optimized Kalman filter.

The RNAV2 is powered by an internal BB-2590/U Li-Ion battery which provides system power for 7+ hours or 5+ hours when configured with the 2S Sonar Option forward imaging sonar. The battery life enables 1500 full discharge cycles and is recharged through an external recharging port on the RNAV2. Recharge time is <8 hours.

The simple to operate ergonomic input devices and user-friendly mission planning software allow all levels of users to create waypoints and routes and easily upload them into the RNAV2.

**RNAV2, AP2 Diver Assist, OM2 Communications and 0M2 run on Greensea proprietary software**

RNAV2, OM2, AP2 Diver Assist and AC2 Communications are powered by Greensea’s proprietary Balefire software, which provides easy-to-use, highly accurate navigation and control system applications for military and commercial use. Surveillance, detection, identification, and prosecution of targets can be executed efficiently and repeatedly with the exclusive proprietary RNAV2/Greensea package.

The AP2 Diver Assist provides instantaneous heading and depth control for a stable platform and pinpoint navigational accuracy. Stability and control translates to accurate, reliable mission performance, while divers in hostile environments are free to focus on the mission rather than vehicle control.

**Greensea proprietary features:**
- Station keeping
- Alarm management
- Target tracking
- Target-relative positioning
- Dynamic positioning
- Mission execution
- Single-screen, intuitive interface

Greensea’s reliability, presentation, and performance make it the choice of leading military and scientific operators of manned, unmanned, subsea, and surface vessels worldwide.

Greensea partners with STIDD Systems, Inc. to provide advanced custom solutions for the DPD, RNAV2, AP2, OM2, AC2 and other diver products.
to Mission Success

NEW!

0M2
OPTIONALLY-MANNED VEHICLE PACKAGE

OM2 is a transformative system of vehicle control features that enable full remote autonomous control of the DPD.

OM2 features include:
- Automated Antenna Mast
- Automated Throttle Control
- Communications Receiver
- Network Sensor Integration Hub

NEW!

S2 SONAR for RNAV2

The S2 Sonar Option for RNAV2 (p/n 4600-102) enhances the precision navigation capabilities of the innovative RNAV2, adding high quality forward-looking sonar images to the operator in low- and zero-visibility environments for precise long, or short range obstacle avoidance and/or target interrogation.

- Snap-in for DPD Navigation
- Snap-out for Swimming Navigation

NEW!

AC2
ACOUSTIC COMMUNICATIONS

The AC2 Acoustic Communications option for RNAV2 is designed to work with the STIDD DPD and RNAV2 system to provide subsea communications and situational awareness between divers. Dive team members can easily text message each other to reduce risk and improve operational efficiency.

AC2 features include:
- Track team mates
- Support for homing and docking
- Exchange mission data
- Broadcast GOTO waypoints
- Configurable commands
- Macro commands (copy position, transit positions, copy heading, copy waypoints)

NEW!

AP2 DIVER ASSIST for RNAV2

The AP2 Diver Assist Option provides exceptional RNAV2 control of the DPD by dynamically adjusting vehicle pitch and heading, automatically keeping the DPD on its programmed or manually-selected course and depth, while accurately compensating for the effects of currents, diver motions, and changes in diver buoyancy.

AP2 Diver Assist features include:
- AP2 Diver Assist 2-axis control of the DPD via integrated electro-mechanical actuators fitted to the pitch and rudder linkages of the DPD reduces power consumption, diver workload, and enroute time to destination by eliminating the inherent control inaccuracies of the typical operator.
- The AP2 eliminates manual heading errors, deviations, depth excursions, and delayed diver response to changing environmental conditions, allowing the operator to focus on critical mission functions.
- AP2 Software control algorithms provide a smooth and safe descent/ascent rate, protecting the divers from undesired excursions.
- Manual override of RNAV2 commands via the control yoke, allows the operator to quickly change heading or depth when required.

Applications for the S2 Sonar Option for RNAV2 include:
- Zero visibility Navigation
- Object Detection
- Obstacle Avoidance
- Situational Awareness
- Operations Monitoring
- Area Survey/Search & Recovery
- Diver/Swimmer Detection & Tracking
- DPD-mountable and diver swimmable operation for maximum mission efficiency

S2 Single-Frequency Sonar mounted to RNAV2

RNAV2 with AC2 Screen
The 2S Sonar Option for RNAV2 enhances the precision navigation capabilities of the innovative RNAV2, adding high quality forward-looking sonar images to the operator in low- and zero-visibility environments for precise long, or short range obstacle avoidance and/or target interrogation.

**S2 Sonar Applications include:**
- Detection /Obstacle Avoidance
- Situational Awareness
- Operations Monitoring
- Area Survey/Search & Recovery

**OM2**

OM2 is a transformative system of vehicle control features that enable full remote autonomous control of the DPD while maintaining manned capability.

**OM2 features include:**
- Automated Antenna Mast
- Automated Throttle Control
- Communications Receiver
- Network Sensor Integration Hub

**RNAV2-P**, **NAVIGATION & CONTROL**

RNAV2 is an innovative electronic navigation system that can be either mounted in the DPD to enable precision navigation by divers, or without divers for AUV missions. The RNAV2 adjustable backlight 8.4” color LCD screen constantly displays the operator’s position on a high resolution moving map display for instantaneous situational awareness. Superior accuracy over distance traveled is achieved through a suite of high-accuracy on-board sensors and an optimized Kalman filter.

RNAV2 includes the following cutting edge precision accuracy sensors:
- 600kHz Doppler Velocity Log (DVL)
- 3-axis compass module with sub .5° heading accuracy
- 40 channel GPS with <2.4m position accuracy

The RNAV2 is powered by an internal BB-2590/U Li-Ion battery which provides system power for 7+ hours. The simple to operate ergonomic input devices and user-friendly mission planning software allow all levels of users to create waypoints and routes and easily upload them into the RNAV2.

**DPD2, DIVER PROPULSION DEVICE**

The DPD, designed for and certified by the U.S. Navy, is the most widely used military-grade underwater mobility vehicle in the world.

**DPD Certifications:**
- DPD is the only export controlled “Approved for Navy Use” (ANU) certified diver propulsion device in the world.
- NATO NSN NATO (National) Stock Number
- UN Transport Certified

*PATENTED: U.S. Patent No. 6,615,761 * International Patents Pending

**AC2 COMMUNICATIONS**

The AC2 acoustic communications system is designed to work with the STIDD DPD and RNAV2 system to provide subsea communications and situational awareness between divers. Dive team members can easily text message each other to reduce risk and improve operational efficiency.

**AC2 features include:**
- Track team mates
- Support for homing and docking
- Exchange mission data
- Broadcast GOTO waypoints
- Configurable commands
- Macro commands

**STIDD DPD SYSTEM 2 LAYOUT**

DPD with fore/aft cutaways exposing installed RNAV2 and AP2 actuators
The 2S Sonar Option for RNAV2 enhances the precision navigation capabilities of the innovative RNAV2, adding high quality forward-looking sonar images to the operator in low- and zero-visibility environments for precise long, or short range obstacle avoidance and/or target interrogation.

S2 Sonar Applications include:

- Detection / Obstacle Avoidance
- Situational Awareness
- Operations Monitoring
- Area Survey / Search & Recovery

AP2 Diver Assist Option provides exceptional RNAV2 control of the DPD by dynamically adjusting vehicle pitch and heading, automatically keeping the DPD on its programmed or manually-selected course and depth, while accurately compensating for the effects of currents, diver motions, and changes in diver buoyancy.

AP2 Diver Assist features include:

- AP2 Diver Assist 2-axis heading control and 4th axis depth control of the DPD via integrated electro-mechanical actuators fitted to the pitch and rudder linkages of the DPD
- The AP2 Diver Assist eliminates manual heading errors, deviations, depth excursions, and delayed diver response to changing environmental conditions.
- AP2 Diver Assist software control algorithms provide a smooth and safe descent/ascent rate, protecting the divers from undesired excursions.

RNAV2 is an innovative electronic navigation system that can be either mounted in the DPD to enable divers for AUV missions. The RNAV2 adjustable backlight 8.4" color LCD screen constantly displays the operator's position on a high resolution moving map display for instantaneous situational awareness. Superior accuracy over distance traveled is achieved through a suite of high-accuracy on-board sensors and an optimized Kalman filter.

The RNAV2 is powered by an internal BB-2590/U Li-Ion battery which provides system power for 7+ hours. The simple to operate ergonomic input devices and user-friendly mission planning software allow all levels of users to create waypoints and routes and easily upload them into the RNAV2.

RNAV2 includes the following cutting edge precision accuracy sensors:

- 600kHz Doppler Velocity Log (DVL)
- 3-axis compass module with sub .5° heading accuracy
- 40 channel GPS with <2.4m position accuracy
- Multi-state Kalman filter

OM2 is a transformative system of vehicle control features that enable full remote autonomous control of the DPD while maintaining manned capability.

OM2 features include:

- Automated Antenna Mast
- Automated Throttle Control
- Communications Receiver
- Network Sensor Integration Hub

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- Track team mates
- Support for homing and docking
- Exchange mission data
- Broadcast GOTO waypoints
- Configurable commands
- Macro commands

The AC2 Diver Assist Option provides exceptional RNAV2 control of the DPD by dynamically adjusting vehicle pitch and heading, automatically keeping the DPD on its programmed or manually-selected course and depth, while accurately compensating for the effects of currents, diver motions, and changes in diver buoyancy.

AP2 Diver Assist features include:

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- The AP2 Diver Assist eliminates manual heading errors, deviations, depth excursions, and delayed diver response to changing environmental conditions.
- AP2 Diver Assist software control algorithms provide a smooth and safe descent/ascent rate, protecting the divers from undesired excursions.
When equipped with the complete Navigation, Control and Automation System, the DPD's inherent speed, endurance, and payload capacity enable operators to conduct an unprecedented range of missions in Manned, Semi-Autonomous and Full Autonomous Mode . . . all with the same DPD!

### MISSIONS
- ISR
- Infil/Exfil
- Beach Survey
- Payload Delivery
- MCM
- CT - Piracy / Narcotics
- Over-Watch of CACHE site
- Near Land / Harbor Monitoring
- Deploy - Leave Behind Sensors / Arrays
- Search & Recovery Operations
- MUM-T Operations
- Rapid Environmental Assessment

### FEATURES
- Precision Navigation
- Increased Operator Situational Awareness
- Reduced Operator Workload
- Low Operator Effort Transits
- Low Operator Training Required
- Route/Mission Changes from Remote C² Nodes
- On-Call Resupply/Extraction
- Fully Autonomous Capability - NO Operator Required

### EQUIPMENT
- RNAV2
- AP2
- S2
- RNAV2
- AP2
- S2
- OM2

**POWERED BY GREENSEA**

Greensea provides navigation, control, and autonomy products for marine vehicles based on their patent-pending OPENSEA™ operating platform. Over 700 systems have been installed on manned, unmanned, surface, and subsea vehicles. www.greenseasystems.com

RNAV2 with S2 Sonar is also Diver Portable for Clandestine, Short Duration Dives requiring Precision Navigation.
When equipped with the complete Navigation, Control and Automation System, the DPD’s inherent speed, endurance, and payload capacity enable operators to conduct an unprecedented range of missions in Manned, Semi-Autonomous and Full Autonomous Mode . . . all with the same DPD!

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**DPD MODE**

- **MANNED**
- **MANNED & OM2**
- **OM2**

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**EQUIPMENT**

- RNAV2
- AP2
- S2
- RNAV2
- AP2
- S2
- OM2

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**MISSIONS**

- • ISR
- • Infil/Exfil
- • Beach Survey
- • Payload Delivery
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**FEATURES**

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Switching easily between Manned, Semi-Autonomous, and Full Autonomous modes, the DPD configured with the complete Navigation, Control and Automation System can perform an unprecedented number of Communication missions.

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**DIVER PORTABLE**

RNAV2 enables short duration dives requiring Precision Navigation

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**DPD-OM2**

OM2 transforms DPD2 into a fully autonomous vehicle. (Shown with optional CP2 Cargo POD)

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**DPD-MANNED/OM2**

OM2 provides operators options for semi-autonomous, or fully autonomous vehicle modes

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**DPD-MANNED**

AP2 Diver Assist reduces operator workload / increases situational awareness

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**STIDD’s DPD2**, when configured with the complete RNAV2 controlled Precision Navigation and Automation System, provides the benefits of Manned-Unmanned Teaming (MUM-T) operations, where the combined strengths of each capability can be optimized to increase overall situational awareness and navigational accuracy. Using the unmanned element of MUM keeps the manned assets safe and improves overall mission effectiveness.
STIDD now offers an expanded lineup of three different DPD2 Vehicles optimized to execute any mission profile with different combinations of SPEED, RANGE, and PAYLOAD CAPACITY.

**DPD2 Vehicles for All Missions**

**SINGLE THRUSTER (TEC2)**
p/n 4500-100-TEC

The STIDD Diver Propulsion Device (DPD) is the most widely used military-grade underwater mobility platform in the world. The DPD enables divers to travel farther and faster with more payload than previously possible with any other diver propulsion device.

- Approved for US NAVY Use (ANU Listing)
- Under contract to USMC, US Army, USSOCOM and many International SOF Maritime Units
- NATO NSN (National Stock Number)

**SINGLE THRUSTER (TEC2) EXTENDED RANGE**
p/n 4500-100-TEC-ER

With the addition of a second High Capacity “MUSCLES” Lithium-Ion Battery System, the Single Thruster DPD with Extended Range Option effectively doubles the Range.

- 200% the Range of a Single Thruster DPD
- Two Batteries Required
- Same Dimensions & Certifications as Standard DPD

**DUAL THRUSTER (XT)**
p/n 4500-100-XT-TEC

The DPD with Dual Thruster (DPD-XT) provides operators not only additional speed and range, but also two independently redundant propulsion systems. The DPD-XT maintains all DPD exterior dimensions and certifications. The DPD-XT utilizes two (2) standard DPD batteries which power two (2) TEC2 thrusters. For missions that require extended speed and range, the Dual Thruster DPD is an ideal platform.

- 33% Faster than Standard DPD
- Redundant propulsion improves mission safety
- Twin high efficiency, low noise direct drive DC thruster motors
- Two Batteries
- Additional towing capacity: Easily tows 3-4 divers with full load

All DPD vehicles quickly convert from deployed rapid operation mode to stowed lightweight space-saving transportation mode.

**ALL DPD VEHICLES ARE CERTIFIED APPROVED FOR NAVY USE (ANU)**

**TEC2 High Performance Thruster**
p/n 4600-1-200

Brute Power for Maritime SOF

All DPD vehicles are available with STIDD’s NEW high-efficiency TEC2 Thruster, which provides a 25% increase in speed over our standard MIK Thruster.

- Proprietary Magnetically Coupled Drive
- No dynamic seals to maintain
- Innovative Nozzle and Ducted Propeller
- Increased Diver Safety
- Significantly Improved Efficiency
- Self-Regulating Motor Load Electronics for improved reliability

**MAXIMUM DPD SPEEDS**

<table>
<thead>
<tr>
<th>VEHICLE TYPE</th>
<th>SPEED (kt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPD-TEC2</td>
<td>2.7</td>
</tr>
<tr>
<td>DPD-XT-TEC2</td>
<td>3.2</td>
</tr>
</tbody>
</table>

*All DPD speed & range values are based upon (1) diver. Actual performance may vary with diver, training, environmental conditions and equipment.*

**“MUSCLES” LITHIUM-ION POWER SYSTEM**

Massive Unit Small Cell Lithium Energy System

Developed to give the DPD a better performing, more reliable, higher value, virtually maintenance-free power source, the DPD Lithium-Ion Battery System utilizes rigid cylinder lithium-cobalt cells - the most advanced, most mature cell technology available. Each “MUSCLES” battery consists of cells arranged in series and parallel arrays, monitored by proprietary control, balancing and safety circuits.

**The DPD Lithium-Ion Advantage**

- Maximum Performance with Minimal Maintenance
- May be shipped via commercial cargo aircraft
- Partial cycles are cumulative. No “memory” effect
- Best overall performance and economy of any electric propulsion system

STIDD now offers an expanded lineup of three different DPD2 Vehicles optimized to execute any mission profile with different combinations of SPEED, RANGE, and PAYLOAD CAPACITY.
High Performance TEC2 THRUSTER

TEC2 High Performance Thruster (p/n 4600-1-200)

Brute Power for Maritime SOF
All DPD vehicles are available with STIDD’s NEW high-efficiency TEC2 Thruster, which provides a 25% increase in speed over our standard MIK Thruster.

- Proprietary Magnetically Coupled Drive
- No dynamic seals to maintain
- Innovative Nozzle and Ducted Propeller
- Increased Diver Safety
- Significantly Improved Efficiency
- Self-Regulating Motor Load Electronics for improved reliability

MAXIMUM DPD SPEEDS*
DPD-TEC2 (Single TEC2 Thruster)  2.7kt
DPD-XT-TEC2 (Dual TEC2 Thruster)  3.2kt

*All DPD speed & range values are based upon (1) diver. Actual performance may vary with diver, training, environmental conditions and equipment.

“MUSCLES” LITHIUM-ION POWER SYSTEM

Massive Unit Small Cell Lithium Energy System
Developed to give the DPD a better performing, more reliable, higher value, virtually maintenance-free power source, the DPD Lithium-Ion Battery System utilizes rigid cylinder lithium-cobalt cells - the most advanced, most mature cell technology available. Each “MUSCLES” battery consists of cells arranged in series and parallel arrays, monitored by proprietary control, balancing and safety circuits.

The DPD Lithium-Ion Advantage
- Maximum Performance with Minimal Maintenance
- May be shipped via commercial cargo aircraft
- Partial cycles are cumulative. No “memory” effect
- Best overall performance and economy of any electric propulsion system
The DPD provides combat divers versatile options for carrying combat equipment including Internal, External, and Towable Cargo POD.

1. INTERNAL CARGO HOLD

Up to 3 ft³ (85L) of cargo can be stowed in the DPD’s fore body section secured by a cargo net. Internal cargo can include diver personal gear or mission equipment. With optional Cargo Bag with Neutral Buoyancy Unit (NBU) Pouches and the optional (NBU) Packs, divers are able to make their internally carried cargo neutrally buoyant.

(Above) Cargo Bag contoured fits into the DPD cargo area. Once the bag is filled with equipment it can be made neutral with the addition of the NBU Packs.

(Left) Neutral Buoyancy Unit (NBU) Pack contains 64 NBU cells. Each cell provides 1lb (500g) of buoyancy. For use with the Contoured Cargo Bag, or other load out containers.

2. EXTERIOR CARGO TIE-DOWN POINTS

Versatile cargo points, positioned port and starboard on the DPD fore body, allow operators to attach weapons, hooks, and other cargo to the DPD while underway.

Haul all the Gear... When all options are used together, operators expand available cargo capacity to over 15 cu-ft (425L) enabling the easy transport of all required gear.
3. **CP2 CARGO POD**

Low-Drag Towable Capsule

p/n 4580-100

The new CP2 DPD Cargo POD (p/n 4510-400), provides an additional 12 cubic feet (340L) of cargo space with minimal additional drag, when towed behind the Diver Propulsion Device (DPD). Optimized for minimal drag using advanced CFD (Computational Fluid Dynamics), and extensively dive-tested under real world conditions, the Cargo POD is fabricated from marine alloy aluminum and hardcoat anodized for prolonged corrosion resistance and rugged durability. Neutral buoyancy is provided by hard-mounted rigid foam volumes in the nose and tail sections. The 21 inch (0.53m) diameter and 92.5 inch (2.4m) length are compatible with NATO submarine torpedo tubes.

**CP2 Cargo POD features include:**

- Hinged Hatch, allowing full access to the interior
- Positive spring-loaded gloved-hand operable hatch lock
- Internal tie down rails to secure gear
- Bow tow-eye for quick link to DPD
- Forward and aft lifting eyes for fast launch and recovery
- Stabilizing stern planes for positive tracking without pitch or yaw
- Multiple vents for quick fill/drain
- Four (4) Hand Holds for easy manual lift/carry

**CP2 Specifications:**

- **Material:** Marine aluminum alloy
- **Finish:** Hardcoat anodized
- **Hardware & fittings:** 316L Stainless steel
- **Cargo Volume:** 12 cu-ft (340L)
- **Cargo Weight (air):** 700 lbs (317kg) max
- **Cargo Access:** Hinged hatch
- **Cargo Hatch:** 18 in x 48 in (0.5m x 1.2m)
- **Cargo length, max:** 66 in (1.7m)
- **Cargo hatch lock:** Spring-loaded latch
- **Cargo Tie Downs:** Three (3) 48 in (1.2m) rails
- **Drag Load:** Minimal
- **Diameter:** 21 in (0.53m)
- **Length:** 93.5 in (2.4m)
- **Weight, empty (air):** 80lbs (36.3kg)
- **Weight (salt water):** 0lbs (0kg)
- **Lifting Handles:** Four (4)
- **Lifting Points:** Forward and aft

• The Cargo POD weighs 80lbs (36kg) in air, and may be loaded with up to 700lbs (317kg) of neutrally buoyant cargo. • The Cargo POD is towed from the DPD aft tow point. • Horizontal and vertical Stern Planes keep the Cargo POD aligned within the shadow of the DPD, resulting in minimal additional drag. • An additional Cargo POD may be added to double DPD cargo capacity from 12 cu-ft (340L) to 24cu-ft (680L).
DPD2 and OPTIONS & ACCESSORIES

4500-100-TEC2
DPD2 Vehicle, RNAV2 Ready
Includes:
• 1 ea. DPD2 Li-Ion Battery
• 1 ea. TEC2 Thruster with T-Prop and T-Struts

4500-100-XT-TEC2
DPD2 Dual Thruster Vehicle, RNAV2 Ready
Includes:
• 2 ea. DPD2 Li-Ion Battery
• 2 ea. TEC2 Thruster with T-Prop and T-Struts

4600-101
RNNAV2 Precision Underwater Navigation & Control System
An innovative electronic navigation system for use by combat divers, mounted in the DPD2, or dismounted in seconds for swimming in hand-held mode. Includes, internal Li-ion battery and external charger.

4600-104
S2 Sonar (Single Frequency 900 MHz)
Enhances the precision navigation capabilities of the innovative RNNAV2, adding high quality forward looking sonar images to the operator in low and zero visibility environments for precise long or short range obstacle avoidance and/or target interrogation.

4600-120
AP2 Diver Assist
Provides exceptional RNNAV2 control of the DPD2 by dynamically adjusting vehicle pitch and heading, automatically keeping the DPD2 on its programmed or manually selected course and depth, while accurately compensating for the effects of current, diver motion, and changes in diver buoyancy.

4600-200
OM2 Autonomy
OM2 is a transformative system of vehicle control features that enable full remote autonomous control of the DPD2 while maintaining manned capability.

4600-301
AC2 Acoustic Communications
The AC2 acoustic communications system is designed to work with the STIDD DPD and RNNAV2 system to provide subsea communications and situational awareness between divers. Dive team members can easily text message each other to reduce risk and improve operational efficiency.

4600-111
RNNAV2 Tactical Mission Planning/Debrief Terminal
The mission planning terminal allows for a computerized method of planning and optimizing mission parameters for use with the RNNAV2 navigation system. Post mission debriefing capabilities allows the users to review actual tracks and transit depths, recorded sonar images, marked target positions, etc.

4510-112
DPD2 “MUSCLES” Li-Ion Battery Charger
Charges one (1) DPD2 Li-Ion Battery from full discharge to full charge. (NSN 6130-01-536-0585)

4510-120
Spare DPD2 Li-Ion Battery
Contained in sealed Pressure-Proof Battery Container. (NSN 6140-01-536-0008)

4580-100 Cargo POD
The CP2 cargo POD provides an additional 12 cubic feet (340L) of cargo space with minimal additional drag when towed behind the DPD. Hardcoat anodized and neutrally buoyant, the 21 inch (0.53m) diameter and 92.5 inch (2.4m) length are compatible with NATO submarine torpedo tubes.

4510-130
DPD2 Contoured Cargo Bag with NBU Pouches
Cargo bag contoured to fit into the DPD2 cargo area and be made neutral with NBUs (p/n 4510-944)

4510-944
Neutral Buoyancy Unit (NBU) Pack
Contains 64 NBU cells, each cell provides 1 lb (454g) of buoyancy. For use with Contoured Cargo Bag (p/n 4510-130) or other load out container. (NSN 4220-01-538-5980)

4510-210 TEC2
Deployment Load Out Kit
All parts and consumables required to support the DPD2 during both operational deployment and emergency field repairs for one (1) DPD for approximately four (4) years. (NSN 4220-01-538-5985)
DPD2 and OPTIONS & ACCESSORIES

DEEP SUBMERGENCE DPD OPTION
270 FSW (82m)

4500-100-DS
Deep Submergence DPD2 Vehicle
Includes: All required NAVSEA Approved components to extend transport/operating depth to 270 FSW (82m), including: Deep Submergence DPD “MUSCLES” Li-Ion Propulsion Battery in sealed Pressure-Proof Battery Container (p/n 4510-118-DS), Deep Submergence rated Thruster and Throttle pressure containers; and O&M Manual (p/n 4510-125). Charger (p/n 4510-112) not included.

4510-120
Deep Submergence DPD BATTERY
“MUSCLES” Li-Ion Propulsion Battery Same configuration as a standard DPD battery, but housed in a NAVSEA approved Machined Billet pressure container. When combined with Deep Submergence Upgrade Kit (p/n 4510-253), extends the transport/operating depth of a DPD (p/n 4510-100) to 270FSW (82m).

4510-253
Deep Submergence Upgrade Kit
Kit includes all required NAVSEA approved components to increase transport/operating depth of a standard DPD (p/n 4510-100) to 270 FSW (82m). Deep Submergence Upgrade kit does not include DPD Deep Submergence Li-Ion Propulsion Battery (p/n 4510-118-DS), which must be purchased separately.

4600-901
DPD2 Service and Support Package
Service and Support:
1 year DPD/RNAV2 (additional years of support available upon request)
• email/phone/24hr urgent phone support
• RNAV2 Software Updates
• bug fixes • access to minor feature updates
• access to major feature updates
• Greensea Knowledge Base • Personal online training
*Customized programs are available as necessary, including extended on-site and/or offshore support.

4600-900
DPD2 Training Package
Includes: 5 days on-site DPD and RNAV2 training by STIDD certified technician

4510-932
Factory Technical Support

4510-933
ON-SITE Technical Support *

4510-934
ON-SITE Operational Training & Support *

* For services rendered in CONUS. Consult factory for details.

4510-131-RNAV2
Heavy Duty Carry Bag (A)
Protective nylon zippered bag designed for hand-carrying the DPD2.

4510-137
Maintenance Cart (B)
Wheeled cart for servicing or storing the DPD2.
(NSN 4220-01-536-1013)

4510-155
Reusable Shipping Container (C)
Molded IATA-Approved HDPE Container with foam inserts. For one (1) DPD2. Stainless Hardware.

4510-138
DPD All Terrain Dolly (D)
Launches the DPD2 over rough terrain and over the beach to water.

4510-940-TEC
Long Term Maintenance Spare Parts
Includes all spare parts required to perform DPD depot maintenance and non-warranty repair for one (1) DPD for approximately four (4) years.
(NSN 2590-01-536-1576)

4510-200-TEC
Field Service Kit
Basic tool kit required to service and maintain the DPD2 while in operational deployment.

4510-210-TEC
Deployment Load Out Kit
All parts and consumables required to support the DPD2 during both operational deployment and emergency field repairs.

4510-943
Provisioning Parts List (PPL)
Listing of all recommended replaceable parts and LRUs for the DPD with current FY pricing.
MILITARY EXHIBIT SCHEDULE & IN-WATER DEMOS

Our military exhibit booth is an ideal place to see STIDD Sub Boats and discuss your requirements with STIDD’s team of expert acquisition specialists. Please check our website for exact show dates.

STIDD also invites approved users to visit our Sub Boat Test Facility in South Florida for in-water demonstrations. On-site demonstrations at customer’s facility are also possible. Contact STIDD for more details.

With over 450 units in operation by US and International Special Operations Forces (SOF), the STIDD DPD is the most widely used Combat Diver Propulsion Vehicle (DPV) in the world.

STIDD Systems, Inc. is proud to support these Military Units and International Organizations, including:
- U.S. Special Operations Command
- United States Marine Corps
- Navy Special Warfare Command
- Army Special Forces Command
- North Atlantic Treaty Organization (NATO) Members and Major Non-NATO Allies (MNNA)
- Association of South East Asian Nation Members (ASEAN)

stiddmil.com
The STIDD Military Products website includes the latest, most up to date unclassified information on STIDD Military Submersibles
To become an authorized STIDD Military Website User Contact: 631-477-2400 ext 158 or e-mail sales@stiddmil.com

- DPD (Diver Propulsion Device) Items
  Items are on GSA Contract No. GS-07F-0101K
  www.gsaadvantage.gov
- STIDD Systems is a Small Business Entity.
- STIDD Submersible Boats are subject to ITAR controls. US Department of State DTC license required for export.

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