



RNAV Recon Navigation System for DPD

RNAV is a neutrally buoyant advanced electronic navigation system, providing user friendly precision navigation for the STIDD Diver Propulsion Device (DPD).

Integrated into a proprietary STIDD pressure container with gloved hand push button interface, RNAV provides DPD operators the convenience and confidence of a proven, COTS, electronic navigation system.

- The STIDD Recon Navigation (RNAV) system provides surface and submerged moving map navigation as well as sonar capabilities to the STIDD Diver Propulsion Device (DPD).
- Pinpoint accuracy reduces navigation errors and maximizes battery endurance.
- Global map coverage allows for full spectrum of mission planning and execution.
- Self-contained system is ready for mounting into the DPD, in a neutrally buoyant configuration to maximize DPD efficiency.
- Utilizes the on-board DPD "MUSCLES" battery for reliable operation with low power draw.
- "Hot start GPS position acquisition in under 10 seconds, signal re-acquisition in less than 1 second."
- Inertial Navigation System (INS), fluxgate compass, and ultrasonic speed sensor enables DPD position to be determined accurately via "Live Reckoning" in absence of surface navigation lock.
- Digital Depth sensor with selectable frequencies monitors and displays bottom contours, depth to bottom, and water temperature.



The RNAV mast easily folds-down to stow and lock when not in use.

DPD with deployed RNAV mast



DPD with integrated RNAV System with Remote Card Reader

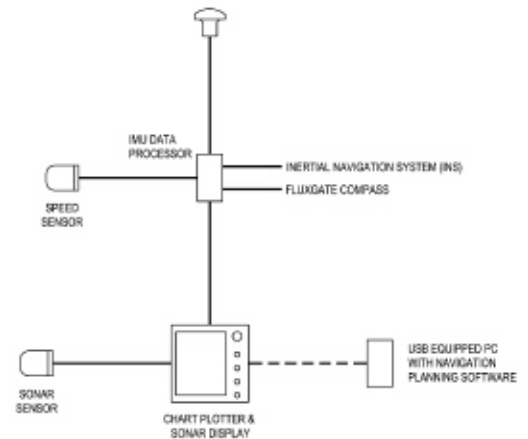


REMOTE CARD READER for RNAV enables pre-mission planning and post-mission data exchange between RNAV and a PC, as well as rapid upload of any C-Map nautical chart in the world.



Deployable Mast/Antenna

- Ruggedized, pressure-proof antenna on 48 in. (122 cm) locking and pivoting mast.
- Mast can be deployed while submerged to facilitate position update "sneak and peek".
- Proven single-handed lock mechanism is simple to deploy and stow while on the surface, underway, or submerged.



Standard Navigation System:

The DPD is equipped with a depth gauge, magnetic compass, and lightstick tube which illuminates both instruments. The DPD may be fitted with electronic navigation and sonar upgrades upon request.

Performance:

The DPD is propelled by a single 26VDC steerable electrical thruster powered by a "MUSCLES" Lithium Ion (Li-Ion) battery system. The thruster provides 75 lbs. (333 nt) of thrust for directional control and variable forward speeds of up to 3 knots for ranges over 5 nm. The electronic "Battery Status Indicator" continually monitors battery condition and displays run time remaining.



Extended Range Option:

When ordered, a second "MUSCLES" Li-Ion Battery may be connected with the optional B-Link Adapter Kit and carried as cargo for extended range operation.

RNAV Head Unit Dimensions & Weight

Weight in air:	11.5lbs. (5.2 kg)
Weight in water:	0 lbs. (0 kg)
Width:	10 in. (25 cm)
Height:	8 in. (20 cm)
Depth:	6 in. (15 cm)