

# The Coral Partners' Nova Ray<sup>®</sup> Winged ROV Basics

## The Highest Performance ROV In The World! Drop & Go Ready!<sup>™</sup>

### The Basics: Proprietary Nova Ray ROV Technology

Coral Partners' management has a 25-year successful track record of inventing patenting and promoting marine technology. Their showcase technology is the Nova Ray submersible remotely operated vehicle (ROV).

The innovative arcuate winged shape and patented design of the Nova Ray ROV and its intellectual property is disruptive and revolutionary. The Nova Ray ROV is the result of 22+ years of research and development and over US\$3,500,000 in R&D.

It solves such nagging industry problems as response time, ease of use, and most uniquely, rock-solid stability, and the ability to "controlled tow" or operate free-flying in strong currents (tested up to 10kts). Its portability, reliability and innovative design offer the promise for deep market share penetration and an almost unlimited ranges of applications.

### Proprietary "Arcuate" Wing Technology

In addition to its US and foreign patents, the Nova Ray ROV is set apart from all of its competitors by the Arcuate Wing and modular design.

The Arcuate Wing design eliminates the phenomenon known as "Dutch Roll Instability," a problem experienced by flat wing designs. Anyone who has flown an old fashioned kite and watched it roll side-to-side has experienced this phenomenon. The Nova Ray ROV inventors eliminated the "Dutch Roll" effect by incorporating what is known as the "Arcuate" form wing with a rudder & stabilizer for extra control. The result is true axis flight and stability in significant currents. The typical industry standard ROVs have attempted to overpower ocean currents, while simultaneously ignoring the impact of the cable-times-velocity of current on the performance of an ROV or Underwater Towed Vehicle (UTV). The Nova Ray successfully addresses these performance issues. The arcuate-shaped wings of the Nova Ray ROV counteract the lifting force of the umbilical (tether or cable). Therefore, the speed of the boat (or other vessel) or current has little effect on the operational stability of the Nova Ray. The Arcuate Wings increase cable use efficiency and reduce the amount of cable necessary to operate or control-tow at depth.



The Nova Ray's unique hydrodynamic features effectively use water flow rather than resistance to maintain operational control under changing operating modes. Under thruster power, the wings operate just as a high-winged airplane would in free flight. Under "controlled" tow, the arcuate wing, combined with the seamless shift in the center of rotation from the cable pull, produces a stable configuration through the water column.

Call us for a live demo of the Nova Ray from the Tampa Florida:

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**Learn More At:**

**[www.NovaRayROV.com](http://www.NovaRayROV.com)**