

Nova Ray[®] Options – An Ocean Of Possibilities

All Nova Ray models deliver incredibly powerful inspection and survey information through its internal camera system & sensor capabilities.

Communications from the Nova Ray ROV to the Control Console, incorporating a provided rugged-duty laptop with our proprietary Nova Ray ROV Command & Control software system and secondary visual image display video monitor(s) (depending on configuration).

Nova Ray 305 / 500 Standard Configuration:

Each Nova Ray 305 / 550 Model Comes Equipped With:

- Dual External Cameras – Stereo Can Be Used With VR and Photogrammetry Software
- BlueView Forward Scan Sonar
- EdgeTech Side Scan Sonar
- Dual 1/3 HP Thrusters Delivering Speeds of 6 Knots (1/2HP Thrusters Optional)
- 100 Meter Umbilical (Longer Cables Optional)



Nova Ray 305/550 Model Configurations:

Side-scan Sonar Equipped Standard

When equipped with EdgeTech Side-scan Sonar, the Nova Ray ROV delivers exceptional image clarity to the Control Console in Real-Time. Images are displayed in high resolution for wide area sweeps, reconnaissance projects, and underwater searches and surveys of large areas. Because of the high-efficiency thrusters you have the ability to loiter and maneuver to view anything of interest, even in strong current. If working in turbid or murky water, low light conditions or are focused on locating objects, the Nova Ray delivers unequaled performance.

Wide-vision Forward Scan Sonar Equipped Standard

When equipped with BlueView Wide-vision Forward Scan Sonar, the extreme performance of the rugged Nova Ray ROV records data, images and provides real-time feedback to the operator. The forward scan sonar has the flexible capabilities to meet specific project needs. The Nova Ray's proprietary Skids provide for extra payload and stability.

Optional Nova Ray configurations can provide **multiple application** features.

Easy removal of the forward scan sonar system and external camera quickly converts the Nova Ray ROV back to basic inspections and surveys using the internal camera system. **Applications** include detection and/or obstacle avoidance (obstructions and other hazardous devices), and area surveillance. An ideal use is for baseline and repetitive imaging of specific locations and structures or for environmental monitoring.

Additional 305/550 Model Options Include:

- Viewing Dome instead of solid nose
- "Nova+" Skids for Extra Payload Attachment
- External and Internal Camera System

A Vast Array of additional sensors (such as those below)



The Extreme ROV From Coral Partners

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Learn More At:

www.NovaRayROV.com

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A Range Of Options (All Models)

Here are but a few of the options available. Each Nova Ray can be custom delivered to meet your exacting needs:

- **Altimeter:** Optional Altimeter for altitude data and additional auto pilot mode. The altimeter measures altitude of structures and objects, range to other structures and objects, and monitors sedimentation or scouring.
- **Nova Ray Articulating Arms:** Manipulators / Articulating Arms are available using customer specified devices or Nova Ray Electric Manipulators.
- **Redundant Circuits:** Reduce potential down time in the field with extra Easy-to-install / Field-swappable Back-up Control Boards. Allowing for any repair work to easily be done at the factory without having to send the entire ROV back.
- **External Camera:** An external camera comes standard with specific configurations, but can be add-on to other models.
- **Upgrade Fiber Optic Umbilical:** Convert to fiber optic cable for enhanced communications capabilities with smaller diameter umbilical.
- **Navigation and Tracking:** Advanced technology, map-based navigation and tracking solutions are easily integrated to meet user applications.
- **Nova Ray Higher Efficiency Thrusters – 1/2 HP:** Beef up thruster power with two, ½ hp thrusters for projects requiring more power. (1/3 HP Thrusters are standard)
- **Nova Ray Vertical Thrusters:** While the Nova Ray is highly maneuverable, some projects may desire the addition of vertical movement in a confined survey space (ie, port pilings). Nova Ray offers its high-performance vertical thrusters for exactly these situations.
- **Your Sensors & Instrumentation:** Add your own sensors or instruments to the Nova Ray, these can include (but are not limited to): Chemical – Biological Radiation Detection, Magnetic Detection, Alternate Wavelength / Vision Camera Systems, Sample Capture, Tagging, and much more. All Nova Ray ROVs are hydrophone ready.
- **Inspection Software:** Inspection Manager Enterprise software, from NetLink Inspection Systems, provides a powerful tool capable of life-cycle management for the inspection requirements of company assets (ship hull surveys, offshore platforms, subsea pipelines). NetLink, a provider of software and related services, addresses the need for computerized subsea inspection data acquisition. Operator defined software can also be integrated.

Included Standard With Nova Ray Configurations

- **TAPP(+)** Kit (Tools and Parts Plus Kit): Tools and parts for basic maintenance and repairs in the field are conveniently packaged into the TAPP (+) Kit. While the Nova Ray[®] undergoes rigorous Quality Assurance testing, breakdowns can occur on any project site. That's one of the reason why the Nova Ray[®] is modular in design. If a part breaks, fix or replace it onsite and get back to work. Return the part to the factory later. The kit includes the Basic TAPS kit items and one each of the following: light, complete circuit board, thruster, actuator and skid. Help keep your project on schedule with the TAPP (+) kit.
- **Integrated Nova Ray Surface Command & Control:** Integrated Nova Ray Surface Command & Control Console with 3-Axis Joystick; Laptop Computer ; and Real-time Video Display
- **Transport/Operation Cases:** Transport/Operation Cases with Wheels and Telescoping Handles – no need to purchase third-party transport cases.



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Nova Ray ROV 305/550 Models Deployment Options:

- From Port / Dock
- From Small Boat
- From Large Vessel
- From Helicopter
- From Heavy Lift Aerial Drone
- From Shore



Nova Ray ROV 305/550 Key Design Features Include:

- Patented Portable Nova Ray ROV with “Arcuate” Wings – Proprietary to Nova Ray
- Proprietary Nova Ray Command and Control Software with Interval Upgrades
- Fully Digital Onboard ROV Electronics
- 3-Auto Pilot Modes for Multi-Tasking
- Maximum Performance Dual Operation Mode (Tow or Free Use Thrusters)
- Two, 1/4hp High Efficiency Power Thrusters
- Dual-quartz High Intensity Lighting System
- 300ft Umbilical for Data & Power (Optionally Longer)
- **Patented** Cable/Tether Attachment Mechanism for Center/Tow Point Movement Automatically while in-use
- Internal Camera & Sensor Payload Dry Compartment System – Can Accommodate Many Industrial & HD Video Cameras
- **Patented** Channel and Rail System for Optional Instruments & Add-on Devices
- Nominal Configuration Depth rated to 305 meters (1,000 ft)
- Sonar Ready
- Easy Field Repairable – Swap Out Components

Also Included Standard With The Nova Ray 305/550 Model Configurations:

- Integrated Nova Ray Surface Command & Control Console with 3-Axis Joystick; Laptop Computer ; and Real-time Video Display
- Transport/Operation Cases with Wheels and Telescoping Handles (for 305 & 550 Models)
- Tools & Parts Standard Kit (TAPS)

Nova Ray DeepDiver™ 1500/4000 Meter Model Configurations

The robust industrial-grade Nova Ray DeepDiver ROV offers comprehensive imaging, tracking, work capabilities for a broad range of user applications. It includes high resolution sonar, both side scan and forward scan. The forward scan sonar includes flexible capabilities to meet specific project needs. The optional “Drop Down” belly rig provides for large payload attachment, articulated work arms, as well as multiple deployment configurations. The typical basic configuration is for full range visual & sonar imaging. Like all Nova Ray ROVs, any configuration can accommodate user selected add-on technology. Nova Ray DeepDiver are built on demand to exact customer requirements



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