

NOVA RAY®



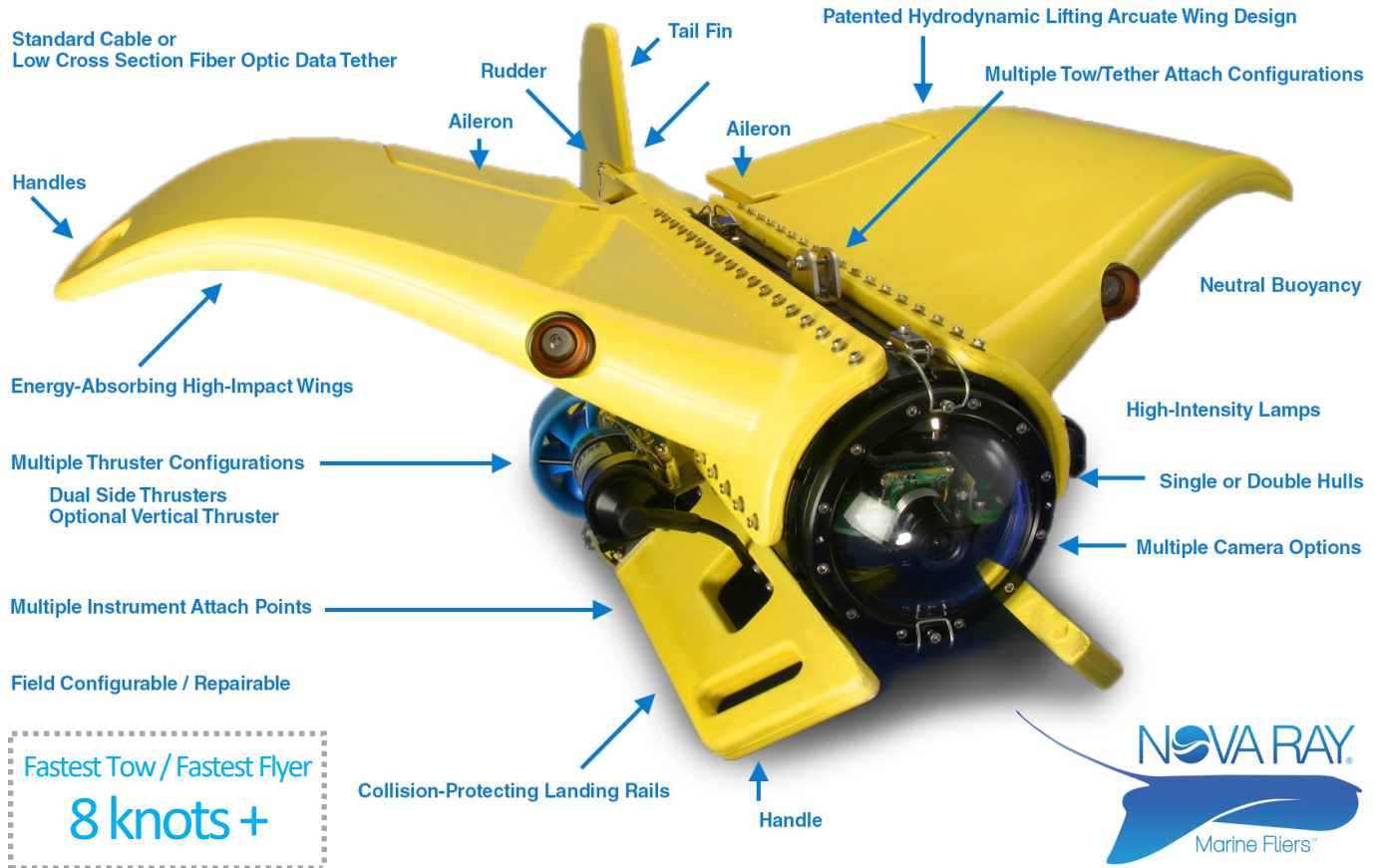
Extreme Performance & Rock Solid Stable Controlled Tow & Free Flying In Any Current

305/550 FEATURES

NOVA RAY
The Most Advanced ROV Available

Fully Modular Patented Design

Standard Cable or
Low Cross Section Fiber Optic Data Tether



Nova Ray® ROV Models		
Model	Max Depth	Basic Configuration
NR 305 MF	305 Meters	PATENTED WINGED ROV, DUAL THRUSTERS, DUAL CAMERAS, FRONT SCAN + SIDE SCAN SONARS, POSITION TRACKING, UMBILICAL + PATENTED CABLE MOUNT, HIGH INTENSITY LIGHTS
NR 550 MF	550 Meters	PATENTED WINGED ROV, DUAL THRUSTERS, DUAL CAMERAS, FRONT SCAN + SIDE SCAN SONARS, POSITION TRACKING, UMBILICAL + PATENTED CABLE MOUNT, HIGH INTENSITY LIGHTS
NR 1500 DD	1500 Meters	PATENTED WINGED ROV—CONFIGURATION TO MEET CUSTOMER REQUIREMENTS
NR 4000 DD	4000 Meters	PATENTED WINGED ROV—CONFIGURATION TO MEET CUSTOMER REQUIREMENTS

Call +1.833.NOVARAY / 833.668.2729

www.NovaRayROV.com





Extreme Performance & Rock Solid Stable Controlled Tow & Free Flying In Any Current

Nova Ray® ROV 305 / 550 Model Attributes

	Feature	Value	Description
PERFORMANCE	Max Depth	305 or 550 Meters	From Surface to Depth - Fully Functional At Surface - Fully Tested To Target Depth
	Max Current	8 knots +	Fully Stable Against Currents In Any Axis/Direction - Arcuate Wings Counters Destabilizing Effects Of Cable Drag, Cross/Tidal/Turbulent Currents - Thrusters Can Be Used As Additional Stabilization
	Max Speed	8 knots +	Can Be Towed At Speeds Of 9+ Knots Or More / Free Flying Speed Is Based Upon Thruster HP - 6* Knots For Standard 1/3HP Thrusters
	Operational Modes	Control Tow + Free Flying	Can Be Towed / Towed With Thrusters / Free Flying With Thrusters
	Cable Effects	Negligible	Patented Arcuate Wings, Patented Tow Point, & Control Surfaces Overcome Cable Drag, Oscillation, and Current Instability
	Control	Aircraft-Like Control Surfaces	Rudder Provides Directional Control, Thrusters Provide Yaw Rotation And Forward/Reverse Direction, Ailerons (Elevons) Provide Vertical Control Pitch Up/Down & Roll Control - Wings Provide Roll/Pitch Stability
	Thrusters	1/3HP Standard	Two Industrial Grade DC Brushless Rare Earth Motors - Port/Starboard Magnetic Drive - Impact Resistant Thruster Guards - 1/2 to 2HP Optionally Available**
	Cable/Depth Ratio	Down To 2:1	Provides Deeper Operation For Given Cable Length Compared To Other Towed Devices - Typically 70% Deeper - Under Tow Achieves 2.38:1 / With Thrusters Under Tow Can Reduce To 2:1 - This Reduces Overall Cable Length For Same Depth
	Umbilical	100m Standard	100 Meters Provided Standard - 15mm/12 Conductor/Neutrally Buoyant - Any Length Can Be Optionally Provided - Umbilical May Need To Be Upgraded If Customer Sensors Configured Requiring More Conductors/Data Lines**
CONTROL	Command & Control	Multi-Screen	Nova Ray 305/550 Models Include: Industrial Laptop Computer Plus Dual Screens For Video & Sonar - Commercial Grade Pilot 3-Axis Joystick - All Built Into Travel Case But May Be Installed In Permanent Location On Vessel
	Control Software	Proprietary +	Proprietary Piloting & Control Software Showing ROV Attitude, Depth, Heading, & Temp / Plus Sensor Data Viewing Software Provided By Sensor Manufacturer (Teledyne BlueView Standard)
	Flight Controls	Multiple Control Modes	Manual Flight Control Plus 3 Auto Pilot Modes: Heading Hold, Level Mode (Wings or Depth) - Optional Altimeter Provides Additional Mode: Altitude Hold Providing Stable Automatic Altitude Control Above Floor**
SENSORS	Cameras	Dual Cameras	Provides Dual Views Or Stereoscopic With VR - Still Photo & Full HD Video - Allows Photo Grammetry (With 3rd Party Software) - Includes High Intensity Lights - Optional Automatic Hardware Image Enhancement** - Mounts For Additional Cameras Or Sensors
	Sonar	Front & Side Scan Standard	Forward Scan Sonar: Teledyne BlueView*** Side Scan Sonar: EdgeTech Side Scan Frequencies from 75 kHz to 1600 kHz - Simultaneous Dual Frequency operations*** - Optional Bottom Profiler Can Be Added**
SPECS	Power	Shipboard or Generator	Operator Provided Typically Under 300w (VA) - Easily Powered By Portable Generator
	Physical	Industrial Strength	1022mm x 997mm x 356mm (550 Model 406mm) 31kg - Construction: Wings Proprietary Polymer Formula—Molded Components Impact Resistant - Body Stainless Steel & Aluminum - Acrylic Dome Optional (Not Required For Cameras)**

Notes: * Approximate ** Optional Feature At Additional Cost *** Full Sensor Specifications & Data Sheet Available Upon Request

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