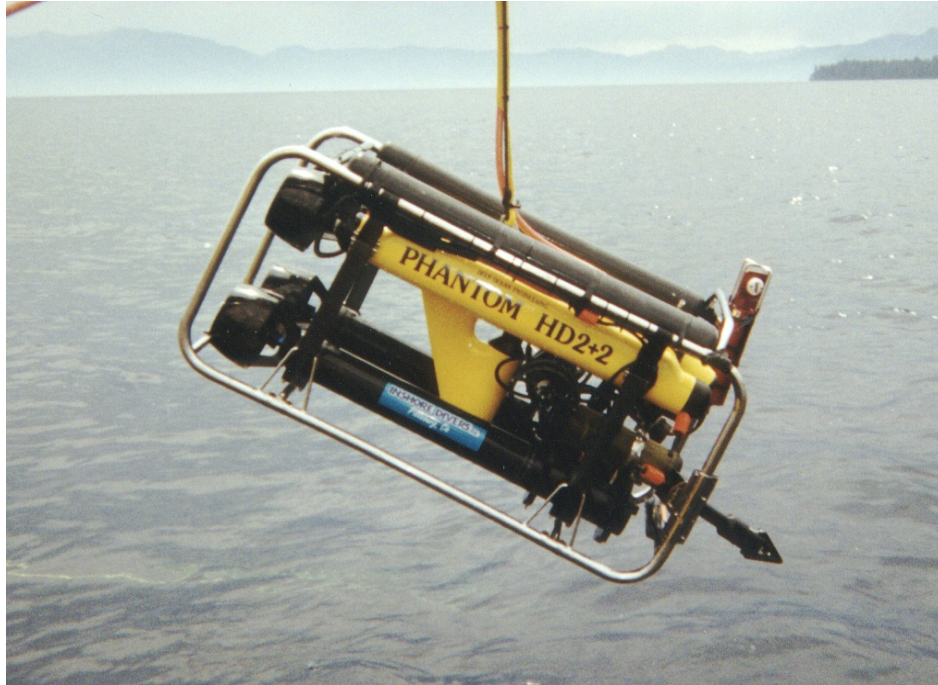




GLOBAL INSHORE

PHANTOM™ HD 2+2 ROV



The HD 2+2 is, unquestionably, the workhorse of INSHORE DIVERS' inventory of ROVs. Whether used for inspection, search, light salvage and recovery or maintenance; in open water or confined areas, the HD 2+2 provides reliable and consistent performance. Its six powerful, torque-balanced thrusters; four horizontal, one vertical and two lateral provide excellent maneuverability. The four horizontal thrusters provide tremendous forward power to pull up to 5,280' (1.6 km) of fiber-optic umbilical cable or 2,100' (640 meters) of standard, hard wired umbilical, the limiting factor being the loss of video and control signals through wire conductors. The thruster shafts have fail-safe, oil filled, double barrier seals.

The HD 2+2 accepts a wide range of video cameras and our standard, high-resolution color video camera has tilt capabilities. The HD 2+2 system also has provisions for additional accessories such as sonar, manipulators, still cameras, specialized sensors, and custom tooling. The vehicle, thrusters, cameras and accessories are protected by a sturdy, full perimeter stainless steel, tubular frame. Please see reverse side for ROV particulars.

PHANTOM™ HD 2+2

Remotely Operated Vehicle Specifications

GENERAL	<ul style="list-style-type: none"> • Weight: 241 lb 109 kg • Length: 55 in 143 cm • Width: 27.0 in 68.5 cm • Height: 26.5 in 67.3 cm • Maximum Operating Depth: 1,000 ft 300 m 		
PERFORMANCE	Maneuverability <ul style="list-style-type: none"> • Forward Thrust - Normal: 120 lb 54 kg • Forward Thrust - Boost: 158 lb 71 kg • Speed: 4 knots • Payload: Variable with additional buoyancy 		
VIDEO CAMERA	High Resolution CCD color video camera <ul style="list-style-type: none"> • Lens: 4.8 mm, f/8 automatic iris with water corrected lens port • Sensitivity: 450+ lines at 0.3 lux • Focus: 10 cm to infinity (remotely controlled) • Field of view: 75 to 85 degrees diagonal • Tilt movement: 90° either side of center 		
LIGHTS	<ul style="list-style-type: none"> • Two each 250 watt, tungsten-halogen lamps 		
POWER REQUIREMENTS	<ul style="list-style-type: none"> • Input Voltage (selectable): 90 – 250 VAC • Frequency: 50 / 60 HZ • Power Rating (standard): 6 KVA 		
USER POWER AVAILABILITY	<ul style="list-style-type: none"> • 50 W 24 VDC @ 2A • 80 VDC @ 0.6 a 		
UMBILICAL	<ul style="list-style-type: none"> • Length: 1,500 ft 457 meters • Diameter: 0.8 in 20.3 mm • Weight in Water: Neutral 		
INSTRUMENTATION	<table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Real-time video monitoring • Fluid-gimbaled, flux gate compass • Electronic depth gauge • Audio feedback reflecting vehicle condition • Auto heading and depth </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Leak detector • On-screen video overlay • Up to four lines of video annotation • Audio annotation • VHS or SVHS video recording </td> </tr> </table>	<ul style="list-style-type: none"> • Real-time video monitoring • Fluid-gimbaled, flux gate compass • Electronic depth gauge • Audio feedback reflecting vehicle condition • Auto heading and depth 	<ul style="list-style-type: none"> • Leak detector • On-screen video overlay • Up to four lines of video annotation • Audio annotation • VHS or SVHS video recording
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OPTIONS	<table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Manipulators • Still cameras • Special lamps • Sonar • Cable Cutter • Magnetometer • Non Destructive Testing (NDT) </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • CTD unit • Tracking systems • Special tooling • Laser Scaling Equipment • Altimeter • GPS Integration </td> </tr> </table>	<ul style="list-style-type: none"> • Manipulators • Still cameras • Special lamps • Sonar • Cable Cutter • Magnetometer • Non Destructive Testing (NDT) 	<ul style="list-style-type: none"> • CTD unit • Tracking systems • Special tooling • Laser Scaling Equipment • Altimeter • GPS Integration
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OTHER	<ul style="list-style-type: none"> • Vehicle and umbilical can be cleaned and disinfected for potable water use. • Vehicle and umbilical are generally unaffected by chemical and biological contamination. 		

