Product Data Sheet

Pro 4 Rack BASE

The Pro 4 Rack BASE Remotely Operated Vehicle (ROV) System has been specifically configured for operations requiring Pro 4 ROV performance from a vessel or command center with rack mounted hardware. The Rack BASE ROV Control Panel features a completely redesigned 2U package that fits seamlessly into any existing rack.

The Pro 4 Rack BASE system includes a standard Pro 4 submersible, a Dell PC loaded with VideoRay Cockpit ROV control software, a 2U integrated control panel, and an industrial USB hand controller.

The VideoRay Rack BASE configuration is also configured to accept both the BlueView 2D imaging sonar (not included) as well as the Tritech Micron DST scanning sonar (not included). The user must also select a tether configuration for this system.

**SYSTEM INFORMATION**

- **Depth Rating**: 305m (1,000 ft)
- **System Weight**: 25.8 kg (57lbs)
- **Communications Protocol**: RS-485
- **Cases**: Watertight Rugged Hard Case
- **Owners Manual**: Hard Copy and Online Digital
- **Tool Kit**: Basic Tool Kit
- **Warranty**: 2 Year Limited
- **Additional**: BlueView Imaging and Tritech Micron Sonar Ready
  Sunshade
**SUBMERSIBLE**

Length 37.5cm (14.75in)  
Width 28.9cm (11.4in)  
Height 22.3cm (8.75in)  
Weight 6.1kg (13.5lb) [with Full Ballast Set]  
Ballast Ballast System with Complete Stainless Ballast Set  

**Propulsion**

Configuration 3 thrusters (2 horizontal/1 vertical)  
Motor Type Brushless  
Thrust 21lb  
Speed 4.2knots  
Propeller 100mm Propellers/65mm Propeller

**Lighting**

Type Optimized LED Arrays  
Number of Sources 2  
Camera Coverage Forward-looking Beam Spread covers entire range of Main Camera  
Lumens 3,600 lumens per light (7,200 total)

**Integrated Sensors**

Accelerometer 3D Tilt Compensated Compass  
Leak Indicator Internal Temperature  
Depth Sensor MEMS Gyro  
Water Temperature System

**CAMERA**

Main High Resolution - NTSC or PALFormat  
Color or Black & White  
Wide Dynamic Range  
Digital Slow Shutter  
White Balance  
20+ Real Time Camera Settings  
Sensitivity  
Color Mode 0.004 Lux  
B&W Mode 0.001 Lux DSS  
View Angle  
90° Horizontal  
140° Diagonal  
Vertical Tilt 180° Control

**CONTROL PANEL**

Power Requirements 100-240 VAC; 50,60 Hz, 800 Watt min  
Length 43cm (17in)  
Width 8.9cm (3.5in)  
Weight 7.7kg (17lb)  
Computer Dell i7 Rack Mount computer  
Software Complete suite of VideoRay cockpit control software  
Main Display User supplied  
Controller Industrial USB Hand Controller  
Recording Integrated Recording (.WMV, .AVI)  
One Button Hand-Controlled Video and Still-Image Recording  
Overlay Date, Time, Depth, Heading, Customized Text, Logo  
Video Out Digital or Analog Composite

**TETHER**

Neutral Performance Neutral bouyancy, smaller diameter  
Standard Neutral Neutral bouyancy  
Negative Extension Negative bouyancy

VideoRay tether is plug and play; the type and length are selected based on how you plan to use the ROV system. See above options and select.

**ACCESSORIES**  For more details, visit [www.videoray.com](http://www.videoray.com)

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**Sonar**

- Blueprint Blueview (pictured)
- Tritech

**Navigation & Positioning Systems**

- Non Acoustic Positioning
- USBL

**Auxiliary Cameras**

- Second POV
- GoPro

**Non Destructive Testing (NDT)**

- Ultrasonic Thickness (pictured)
- Cathodic Protection
- Radiation Probe

**Video Enhancement**

**Automation**

- CoPilot RI by Seebyte

**Manipulators**

- Single Axis Rotating (pictured)

**Shiphull Crawler**

**Recovery and Retrieval Tool Kit**