

SCIENCE AND RESEARCH CONFIGURATION

# PRO 4 SCI 300R

**THE PRO 4** SCI 300R Scientific ROV System has been specifically configured for researchers, biologists, educators, and scholars to quickly and effectively perform a variety of basic underwater observation tasks in rugged environments where gear takes a beating. The standard computer from the BASE Scientific system is replaced with a rugged Toughbook computer and adds an industrial hand controller. The one man deployable ROV can document fascinating marine life and their habitats, ancient architectural sites, endangered and invasive species, and polluted habitats in harsh environments both above and below the surface.



## SYSTEM COMPONENTS

- » Pro 4 ROV Submersible
- » Pro 4 Control Panel (monitor not included)
- » Toughbook Computer -10.5-Inch Display  
VideoRay Cockpit Control Software Included
- » Wireless Programmable Hand Controller
- » Rugged Programmable Hand Controller
- » Standard Capacity Tether Deployment System
- » Plug and Play Modular Tether:
  - 100 m (330 ft) Neutrally Buoyant Performance
- » LYYN Real Time Video Enhancement
- » Pelican 1620 Hard Case with Custom Packaging
- » Basic Tool Kit with Complete Ballast Set
- » Owners Manual
- » Sunshade
- » Three (3) Days of Open Enrollment Training for One Operator



PHOTO: MINDY BELL



## GENERAL SYSTEM

Power Requirements	100-240 VAC
Total System Weight	62.8 kg (138.6 lb)
Cases	3 Watertight Rugged Pelican Cases
Owners Manual	Hard Copy & Online Digital
System Tool Kit	Basic Tool Kit
Communications Protocol	RS-485
Warranty	2 Year Limited

## SUBMERSIBLE

Depth Rating	305 m (1,000 ft)
Size	37.5, 28.9 22.3 cm (14.75, 11.4, 8.75 in)
Weight	6.1 kg (13.5 lb) [with Full Ballast Set] (sonar head is additional 2.3 kg (5 lb))
Ballast	(No Tools Required) Ballast System with Complete Stainless Ballast Set

## PROPULSION (4.2 Knots Maximum Speed)

Horizontal/Vertical	2 Brushless/1 Brushless Direct Drive/Geared 100 mm Propellers/65 mm Propeller
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## CAMERA

Main	High Resolution - NTSC or PAL Format Color and B&W Wide Dynamic Range Digital Slow Shutter White Balance 20+ Real Time Camera Settings
Sensitivity	Color Mode: .004 lux B&W Mode: .0001 lux
View Angle	90° Horizontal/140° Diagonal
Vertical Tilt	180° Control

## LIGHTING

(2) LED Array with 32 Emitters 3,600 lumens	Beam Spread covers entire range of Main Camera
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## INTEGRATED SENSORS

3D-Tilt Compensated Compass	Leak Indicator	Volt Meter
Accelerometer	Water Temperature	Depth Sensor
MEMS Gyro	Internal Temperature	

## CONTROL PANEL

Size	53, 43, 22 cm (21, 17, 8.5 in)
Weight	16 kg (35 lb)
Computer	Toughbook Computer with swivel display - 10.5 inch
Software	Programmed with complete suite of VideoRay Cockpit Control software
Main Display	Available as an option
Controller	Rugged USB Programmable Hand Controller and Wireless USB Programmable Hand Controller
Recording	Integrated Recording (.WMV, .AVI formats) One Button Hand-Controlled Video and Still Image Recording
Overlay	Date, Time, Depth, Heading, Customized Text, Logo
Video Out	Digital or Analog Composite

## TETHER

Length	100 m (330 ft) total length, Standard Neutral Buoyancy Tether 10 mm diameter, 454 kg (1,000 lb) breaking strength
Management	Standard Capacity Tether Deployment System Enclosed in a Pelican 1620 Case with slip ring

## INTEGRATED ACCESSORIES

LYYN Real Time Video Enhancement

INQUIRE WITH AN AUTHORIZED SALES REPRESENTATIVE ABOUT ADDITIONAL AVAILABLE ACCESSORIES FOR THIS ROV SYSTEM

[www.videoray.com](http://www.videoray.com)

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