

SCIENCE & RESEARCH CONFIGURATION

# PRO 4 SCI 300SE



## CONFIGURATION COMPONENTS

**THE PRO 4 SCI 300SE** has been specifically configured for Science & Research Operations to quickly and effectively perform a variety of inspection and observation tasks. It is delivered with the main components – Submersible, Control Panel, and Tether and is integrated with the LYNN Real Time Video Enhancement feature for low visibility conditions. The longer tether configuration allows for deeper exploring and inspections. This system is delivered standard with 190 m (630 ft) total of modular tether segments for deeper dives, a manipulator arm, and a tether management system.

**Depth Rating: 305 m (1,000 ft)**  
**Maximum Speed: 4.2 Knots**



- Pro 4 ROV Submersible
- Pro 4 Professional ICB
- Integrated Toughbook Computer
- Rugged Hand Controller
- Fixed Second Camera
- Manipulator
- Plug and Play Modular Tether
  - 75m (250 ft) Neutral Buoyancy
  - 75m (250 ft) Negative Extension
  - 40m (130 ft) Neutral Buoyancy Performance
- Extended Tether Deployment System

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

580 Wall Street Phoenixville, PA 19460 USA  
phone: +1 (610) 458-3000 fax: +1 (610) 458-3010 email: [info@videoray.com](mailto:info@videoray.com)

# SPECIFICATIONS



## SYSTEM

Total System Weight	47 kgs (105 lbs)
Cases	3 watertight, rugged cases
Owners Manual	Hard copy and digital
System Tool Kit	Basic tool kit and spares
Communications Protocol	RS485
Warranty	2 year limited

## SUBMERSIBLE

Depth Rating	305m (1,000 feet)
Size	36.8, 29.2, 22.2 cm (14.5, 8.5, 9 in)
Weight	4.5 kgs (10.5 lbs)
Ballast	Tool-less ballast system with complete ballast set

## Propulsion

4.2 knots			
Horizontal	2 brushless Direct drive 100mm propellers	Vertical	1 brushless Geared 65mm propeller

## Camera

Main	High resolution NTSC or PAL Color and B&W Wide Dynamic Range Digital slow shutter White balance 20+ Real time camera settings	Second	High resolution NTSC or PAL Color 3.6mm fixed lens Color .1 lux 90° horizontal/140° diagonal Fixed, adjusted manually
Sensitivity	Color mode: .004 lux B&W mode: .0001 lux	Sensitivity	Color .1 lux
View Angle	90° horizontal/140° diagonal	View Angle	90° horizontal/140° diagonal
Tilt	180° servo control	Tilt	Fixed, adjusted manually

## Lighting

LED array with 24 emitters - Expandable  
3,600 lumens (5,760 max)

## Sensors

3D-tilt Compensated Compass	Leak Indicator
Accelerometer	Water temperature
MEMS Gyro	Internal temperature

## CONTROL CONSOLE

Size	53, 43, 22 cm (21,17, 8.5 in)
Weight	16 kgs (35 lbs)
Computer	Toughbook MIL-STD-810/IP54 with 10.5 inch touch screen display
Main Display	15 inch (shared desktop with computer display)
Controller	12 Button Professional Joystick (also delivered with wireless Logitech Wingman controller)
Recording	Integrated Recording (.WMMV, .MPG format) One button hand controller recording
Overaly	Date, Time, Depth, Heading, Customized Text, Logo
Video Out	Digital or analog composite

## TETHER

190m (630 ft) **total length**, modular plug and play tether  
75m Standard Neutral Buoyancy Tether - 10mm diameter, 454 kg (1,000 lbs) breaking strength  
75m Extension Negative Buoyancy Tether - 8mm diameter, 454 kg (1,000 lbs) breaking strength  
40m Professional Performance Tether - 8mm diameter, 454 kg (1,000 lbs) breaking strength

Management Extended Tether Deployment System

## INTEGRATED ACCESSORIES

Manipulator	Single Axis
Enhancement	Lynn Hawk Real Time Video Enhancement