

Product Data Sheet

Mission Specialist PRO 5

The VideoRay **Mission Specialist Series Pro 5** utilizes a system of interchangeable, modular components residing on a single, intelligent network. This topology provides an extremely flexible and customizable platform which can be easily adapted to target specific missions. It is this flexibility which sets apart the Mission Specialist ROV Series from current technology in the Remotely Operated Vehicle Industry.











SYSTEM INFORMATION

Power Requirements Total System Weight (sub and panel) Cases Owner's Manual System Tool Kit Communications Protocol Warranty 110/220VAC (1 to 2.6kW) 34.8 kg (76.9 lbs) 2-3 Watertight Rugged Hard Cases Online Digital Included RS-485 and Ethernet 2 Year Comprehensive **SUBMERSIBLE**

Depth Rating Up to 305m (1,000ft)

49.6 x 34.7 x 22.3 cm (19.6" x Size (Ixwxh)

14.7" x 8.8")

Weight 10 kg (22 lbs) Ballast Modular

Case 62.5 x 49.3 x 35.1 cm

(24.6" x 19.4" x 13.8") less than 22.7 kg (50lbs) with submersible and payload

CAMERA

Features

HD with Ethernet interface (IP)

Video up to 1920 x 1080, 25 FPS

Mechanical Standard VideoRay 9 pin connection

> Ethernet, 12VDC, RS-485 Auto or Manual Focus Optical Glass Dome White Balance Control

up to 16x Digital Zoom (64 steps) 13 Megapixel Still Image Capture

Sensitivity Less than 1 lux (standard)

160 degrees Tilt (180-degree FoV) View Angle

Horizontal 136 degrees Vertical 91 degrees Interface Ethernet Compression **MJPG**

PROPULSION

Brushless thruster with integrated controller

2 Vectored Horizontal Thrusters

Forward 20.3 kg (44.7 lb.)

1 Vertical Thruster

Max speed > 4.4 knots

POWER

400 VDC power module 1500W @ 48VDC

Full monitoring of input voltage, output current, temperature

BUOYANCY

Float 305m rated COMMUNICATIONS

3 x 100Mbps Ethernet ports

3 x RS-485 ports

Power control and monitoring

LIGHTING

LED

2 independent light arrays each at 38 Watts max

60-degree spot beam 110-degree flood beam

Each array can be individually controlled

3,000 K CCT, 80 CRI White

7,600 total lumens per LED light module

15,200 lm total light

IMU

9 DOF IMU and magnetic compass

Pressure based depth sensor: 100 Bar, with 400 Bar optional 0.2 degree Static Roll/Pitch / 0.5 degree Dynamic Roll/Pitch

1.0 degree Yaw

18 degree/h Gyro Bias stability

CONTROL BOX

90-260 VAC (47-440 Hz) Power Input

Power Output 400VDC, 2600W

HD Daylight Viewable Monitor Display

Weight 15.2 kg (33.6 lb)

Case Water tight - 0.62" x 16.87" x 8.12"

(52.37 x 42.85 x 20.62cm)

Processing Integrated i7 system processor

Controller Industrial Programmable Hand Controller

Safety Integral Line Isolation Monitor

Emergency Kill Switch 3 external USB ports

1 external Ethernet port

TETHER

Ports

Length 100 m (328 ft) Neutral Buoyancy Performance

Sections Single 9.6 mm Diameter

Breaking Strength 680 kg (1,500 lb.)

Management Tether Deployment and Storage Reel

Payloads

Sonar

Blueprint Oculus forward-looking multibeam sonar

Manipulator

Dual axis Manipulator Single axis manipulator