

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.









Power Requirements Total System Weight (sub & OCC) Cases Owner's Manual System Tool Kit Communications Protocol Warranty 110/220VAC (1 to 2.6kW) 25.2 kgs (55.5 lbs) 2-3 Watertight Rugged Hard Cases Online Digital Included RS-485 and Ethernet 2 Year Comprehensive



SUBMERSIBLE

Depth Rating Size (l x w x h)

Weight Ballast Case

CAMERA

HD with Ethernet interface (IP) Video up Mechanical Sta

Features

Sensitivity View Angle Horizontal Vertical Interface Compression Modular 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 (IP) up to 1920 x 1080, 25 FPS Standard VideoRay 9 pin connection Ethernet, 12VDC, RS-485 Auto or Manual Focus Optical Glass Dome White Balance Control

Up to 305m (1,000ft)

14.7" x 8.8")

10 kg (22 lbs)

49.6 x 34.7 x 22.3 cm (19.6" x

Auto or Manual Focus Optical Glass Dome White Balance Control up to 16x Digital Zoom (64 steps) 13 Megapixel Still Image Capture Less than 1 lux (standard) 160 degrees Tilt (180-degree FoV) 136 degrees 91 degrees Ethernet 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

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

OPERATOR CONTROL CONSOLE (OCC) Power Input 90-260 VAC (47-440 Hz)

Power Input Power Output Display Weight Case Processing Controller

Controller Safety Ports 400VDC, 2600W HD Daylight Viewable Monitor 15.2 kg (33.6 lb) Water tight - 0.62" x 16.87" x 8.12" (52.37 x 42.85 x 20.62cm) Integrated i7 system processor Industrial Programmable Hand Controller Integral Line Isolation Monitor Emergency Kill Switch 3 external USB ports 1 external Ethernet port

TETHER

Length Sections Diameter Breaking Strength Management 100 m (328 ft) Neutral Buoyancy Performance Single 9.6 mm 680 kg (1,500 lb.) Tether Deployment and Storage Reel

Payloads

Sonar Blueprint Oculus forward-looking multibeam sonar Manipulator Dual axis Manipulator Single axis manipulator