

Mission Specialist Pro 5

The **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.



Specifications

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



Camera

High Definition:	With Ethernet interface (IP)
Video:	up to 1920 x 1080, 25 fps
Mechanical:	Standard VideoRay 9 pin connection Ethernet, 12 VDC, RS-485 Auto or Manual Focus Optical Glass Dome
Features:	White Balance Control up to 16x Digital Zoom (64 steps) 13 Megapixel Still Image Capture
Sensitivity:	Less than 1 lux (standard)
View Angle:	160° Tilt (180° FoV) Horizontal: 136° Vertical: 92°
Interface:	Ethernet
Compression:	MJPEG



Power

400 VDC power module
1500 W @ 48 VDC
Full monitoring of input voltage, output current, temperature



Submersible

Depth Rating:

- Up to 305 m (1,000 ft)

Size (l x w x h):

- 19.6 x 14.7 x 8.8 in
(49.6 x 34.7 x 22.3 cm)

Weight:

- 10 kg (22 lbs)

Ballast:

- Modular

Case:

- 24.6 x 19.4 x 13.8 in
(62.5 x 49.3 x 35.1 cm)
less than 22.7 kg (50 lbs) with
submersible and payload



Buoyancy

Float: 305 m rated



Operator Control Console (OCC)

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

Power Output: 400 VDC, 2600 W

Display: HD Daylight
Viewable Monitor

Weight: 15.2 kg (33.6 lbs)

Case: Water tight
0.62 x 16.87 x 8.12 in
(52.37 x 42.85 x 20.62 cm)

Processing: Integrated i7
system processor

Controller: Industrial Programmable
Hand Controller

Safety: Integral Line Isolation
Monitor Emergency
Kill Switch

Ports: 3 external USB ports
1 external Ethernet port



Communications

3 x 100 Mbps Ethernet ports

3 x RS-485 ports

Power control and monitoring



Propulsion

Brushless thruster with integrated controller

2 Vectored Horizontal Thrusters

Forward: 20.3 kgs (44.7 lbs)

1 Vertical Thruster

Max speed: > 4.4 knots



Lighting

LED

2 independent light arrays (38 Watts max ea.)

60° spot beam

110° 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:

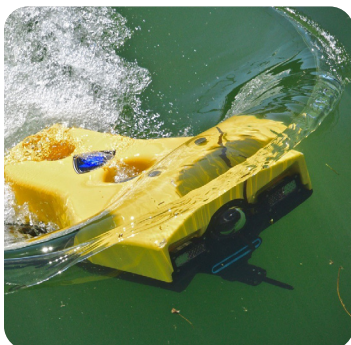
100 Bar, with 400 Bar optional

0.2° Static Roll/Pitch

0.5° Dynamic Roll/Pitch

1.0° Yaw

18°/h/ Gyro Bias stability



For more details about our accessories,
visit VideoRay.com.