

# 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

<b>Power Requirements:</b>	110/220 VAC (1 to 2.4 kW)
<b>Total System Weight (Sub &amp; OCC):</b>	25.2 kg (55.5 lb)
<b>Cases:</b>	2-3 Watertight Rugged Hard Cases
<b>Owner's Manual:</b>	Online Digital
<b>System Tool Kit:</b>	Included
<b>Communications Protocol:</b>	RS-485 and Ethernet
<b>Warranty:</b>	2 Year Comprehensive



## Camera

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



## Power

<b>400 VDC power module</b>
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):

- 51.49 x 33.02 x 25.73 cm  
(20.31 x 13.00 x 10.13 in)

### Weight:

- 11.8 kg (26 lb) without ballast

### 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 lb) 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, 2400 W  
**Display:** HD Daylight Viewable Monitor  
**Weight:** 15.2 kg (33.6 lb)  
**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:** 7 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 kg (44.7 lb)  
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 lumens 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](http://VideoRay.com).