

MISSION SPECIALIST Pro 5



VideoRay
AN AVS COMPANY

Mission Specialist ROV systems are rugged enough to work anywhere, delivering the portable, reliable systems you need to handle tough jobs in challenging environments. The Mission Specialist Pro 5 system is designed for optimal performance when size, speed, and efficiency matter most. Weighing in at 11.8 kg (26 lb), the three-thruster system has a forward speed of over 4.4 knots and a 300 meter depth rating.

The Pro 5 ROV is designed to handle missions with size, space, weight, and deployment speed constraints, such as infrastructure inspections beyond the reach of divers, search & recovery missions, and exploring the ocean floor. Like all Mission Specialist ROVs, the Pro 5 utilizes interchangeable, modular components that comprise a single, intelligent network, providing an extremely flexible and customizable platform that can be easily adapted to target-specific missions.

_Specifications

[ELECTRICAL]

| | |
|--------------------|--------------------------------------|
| POWER REQUIREMENTS | 110/220VAC (1-2.4 kW) |
| POWER MODULE | 400 VDC |
| POWER OUTPUT | 12 V/120 W, 24 V/300 W, 48 V/1,500 W |
| FEATURES | Power Control/Monitoring |

[CONNECTIONS]

| | |
|-------|---|
| 5-PIN | 48 VDC - Thruster/LED RS-485 |
| 9-PIN | 12/24 VDC - Accessories 100Mbps Ethernet RS-485 |
| 8-PIN | Tether - Power/Comms |

[ENVIRONMENTAL]

| | |
|------------------|--|
| DRY WEIGHT | 11.8 kg (26 lbs) |
| DIMENSIONS LxWxH | 51.5 × 33.0 x 25.7 cm (20.3 × 13.0 x 10.1 in) |
| DEPTH RATING | 300m standard |
| TRANSPORT | Hard-sided, watertight case |

_Modules

[ULTRA 4K SMART CAMERA]

| | |
|-------------------|-------------------------------------|
| PROCESSOR/STORAGE | NVIDIA Jetson Orin NX/1 TB SSD |
| OPTICAL SENSOR | 1/2.3" |
| RESOLUTION/FOV | 12.3 MP/200°, Digital Pan/Tilt/Zoom |

[THRUSTERS]

| | |
|--------------------------------|--|
| HORIZONTAL (2) VERTICAL (1) | Oil-filled brushless with quick-change propeller, programmable |
| THRUST | Forward 20.3 kg Reverse 13.0 kg |
| VELOCITY | Forward: 4.4 kts Vertical: 0.8 m/s |
| LIFTING | 1.4 kg |

[LIGHTING]

| | |
|----------------------|---|
| LED LIGHT ARRAYS (2) | Individually controlled spot and flood arrays, 38 W max each. 3,000 K CCT, 80 CRI White 7,600 total lumens/module |
|----------------------|---|

[IMU]

| | |
|---|---|
| ATTITUDE & HEADING REFERENCE SYSTEM (AHRS) | 9 DOF & Magnetic Compass Pressure-based depth sensor, 100 Bar, 400 bar opt., 0.2° Static Roll/Pitch, 0.5° Dynamic Roll/Pitch, 18°/h Gyro Bias Stability, 1.0° Yaw |
|---|---|

_Pro 5 Basic Package - Part # 71600

- › Mission Specialist Pro 5 Submersible
- › Workhorse Control Console

_Pro 5 SAR Package - Part # 72366

- › Mission Specialist Pro 5 Submersible
- › Workhorse Control Console
- › 40 m Performance Tether & Backpack
- › SONAR - Forward Looking Dual Frequency
- › Manipulator - Single Axis

_Optional Integrated Components

- › Workhorse Splashproof Controller
- › Auxiliary Camera
- › Ultrasonic Thickness Gauge
- › USBL Positioning
- › Cathodic Protection Probe
- › Laser Scaler

