

MISSION Specialist Pro 5



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.

Performance without Compromise

PRO 5

_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)	Oil-filled brushless with quick-change propeller, programmable
VERTICAL (1)	
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
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[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
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_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



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