

Mission Specialist Ally Premium Package



PN: 74953

The Mission Specialist Ally Premium Package includes the Ally submersible and a comprehensive suite of advanced underwater equipment. It features a manipulator with a 90-degree vertical swing for enhanced vertical lifting capability, a DVL for precise station keeping, navigation and mission planning, and a Multibeam sonar for navigation in conditions where camera visibility is compromised. The package also provides the Workhorse Control Console as the central user interface, along with 100 meters of Performance Tether and a tether back-pack for convenient transport.

MISSION SPECIALIST ALLY

- Depth Rating:** 300 m (984 ft)
- Weight in Air:** 15.8 kg (34.8 lb) W / Accessories
- Propulsion:**
 - 2 Horizontal Thrusters: 16.8 kg (37 lbs,) 4 Knots
 - 2 Vertical Thrusters: 9.5 kg (21 lbs,) 0.8 m/s
 - Lateral Thrust: 6.1 kg (13.5 lbs), 1 Knot
- Lifting Capacity** 11.3 kg (25 lbs)
- Camera:** Ultra 4k Smart Camera
 - NVIDIA Jetson Orin NX
 - 12MP Resolution (4.7K)
 - Digital Pan, Tilt, and Zoom



Workhorse Control Console

- Size & Weight:** 53 x 43 x 22 cm (21 x 17 x 8.5 in)
15.2 kg (33.6 lbs)
- Features:** Industrial Hand Controller
IP68 Water proof keyboard
HD High Bright Touch Screen Monitor
Line Isolation Monitor
- Power Input:** Universal Input 85-264, VAC 47-440 Hz
2.4 kW Max Power (chassis)
- Power Output:** 2.3 kW Max at 400V (90%) efficiency



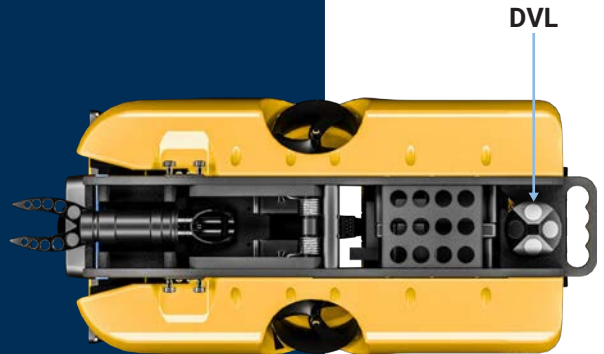
Blueprint Subsea Oculus Sonar M750d

Dimensions:	125 x 122 x 62 mm (4.92 x 4.80 x 2.44 in)
Weight in Air:	980 g (2.16 lb)
Weight in Water:	360 g (0.79 lb)
Operating Frequency:	750 kHz / 1.2 MHz
Maximum Range:	120 m / 40 m



DVL (Doppler Velocity Log)

Diameter:	66 mm (2.6 in)
Height:	25 mm (1 inch)
Weight in Air:	170 g (0.38 lb)
Weight in Water:	105 g (0.24 lb)
Maximum Bottom Lock Range:	20 - 30 m (65.6 - 98.4 ft)



Reach Alpha Manipulator

Rotation:	0.6Nm 60°/s
Linear Force:	600N 2.5mm/s
Weight in Air:	390 g (0.86)
Weight in Water:	240 g (0.53)
Swing Arm Mount:	A minimum load of 3.18 kg (7 lbs) in water weight is required for a complete 90 degree swing.



100 m Performance / PPT - Copper Tether

Diameter:	9 - 10 mm (0.35 - 0.39 in)
Buoyancy:	Neutral
Breaking Strength:	635 kg (1,400 lb)
Recommended Maximum Length:	400 m (1,312 ft)
Bandwidth:	60 Mbps (Up to 300 m)
Features:	Comes with a tether back pack for easy storage and transportation.

