

# 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 backpack for convenient transport.

## MISSION SPECIALIST ALLY

<b>Depth Rating:</b>	300 m (984 ft)
<b>Weight in Air:</b>	15.8 kg (34.8 lb) W / Accessories
<b>Propulsion:</b>	2 Horizontal Thrusters: 16.8 kg (37 lbs), 4 Knots (Forward Thrust) 2 Vectored Thrusters: 9.5 kg (21 lbs), 0.8 m/s Lateral Thrust: 6.1 kg (13.5 lbs), 1 Knot
<b>Lifting Capacity</b>	11.3 kg (25 lbs)
<b>Camera:</b>	Ultra 4k Smart Camera <ul style="list-style-type: none"> <li>• NVIDIA Jetson Orin NX</li> <li>• 12MP Resolution (4.7K)</li> <li>• Digital Pan, Tilt, and Zoom</li> </ul>



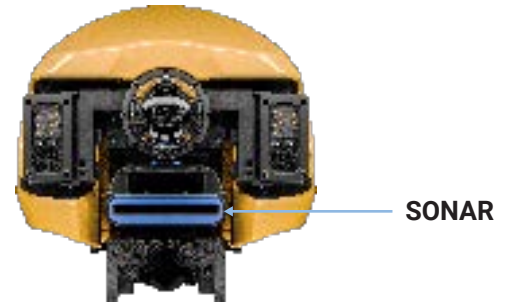
## WORKHORSE CONTROL CONSOLE

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



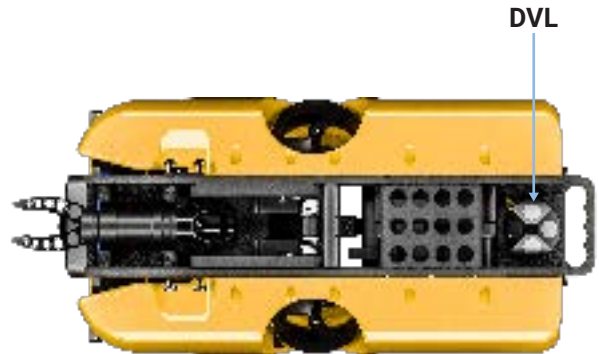
## Blueprint Subsea Oculus Sonar M750d

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



## DVL (Doppler Velocity Log)

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



## Reach Alpha Manipulator

<b>Rotation:</b>	0.6Nm   60°/s
<b>Linear Force:</b>	600N   2.5mm/s
<b>Weight in Air:</b>	390 g (0.86)
<b>Weight in Water:</b>	240 g (0.53)
<b>Swing Arm Mount:</b>	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

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



# Mission Specialist Ally Base Package

PN: 74771

The Ally Base Package is a key offering in the Mission Specialist product line, providing an upgrade path to the Defender. This comprehensive package includes the Ally Submersible, the Workhorse Control Console as the central user interface, and a 100m PPT Tether. It features cutting-edge underwater robotics technology, making it an excellent choice for those seeking to enhance their subsea capabilities.



## MISSION SPECIALIST ALLY

- Depth Rating:** 300 m (984 ft)  
**Weight in Air:** 13.6 kg (30 lb)  
**Propulsion:** 2 Horizontal Thrusters: 16.8 kg (37 lbs), 4 Knots (Forward Thrust)  
 2 Vectored Thrusters: 9.5 kg (21 lbs), 0.8 m/s  
 Lateral Thrust: 6.1 kg (13.5 lbs), 1 Knot  
**Camera:** Ultra 4k Smart Camera
- NVIDIA Jetson Orin NX
  - 12MP Resolution (4.7K)
  - Digital Pan, Tilt, and Zoom



## Workhorse Control Console

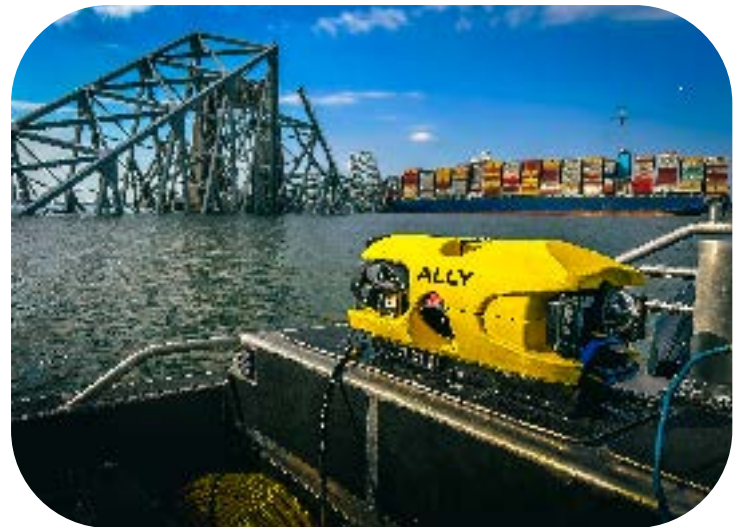
- Size & Weight:** 53 x 43 x 22 cm (21 x 17 x 8.5 in)  
 15.2 kg (33.6 lbs)  
**Features:** Industrial Hand Controller  
 IP68 Water proof keyboard  
 HD High Bright Touch Screen Monitor  
 Line Isolation Monitor  
**Power Input:** Universal Input 85-264, VAC 47-440 Hz  
 2.4 kW Max Power (chassis) 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





## 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:** Includes a tether backpack for storage and easy transport.



\*The sonar and manipulator are not included in the Ally Base Package. Please see our Ally Premium Package for information about payloads.



*The Mission Specialist Ally was deployed for search and recovery operations during the tragic Francis Scott Key Bridge incident, demonstrating its advanced capabilities and reliability in critical situations.*