

Mission Specialist Ally

The Mission Specialist Ally is designed for optimal power and lift, all within a compact design. Boasting a spring-loaded vertical manipulator and offering a choice between shore power or Subsea Battery power options, the Mission Specialist Ally paves the way for progression towards the Mission Specialist Defender and upcoming configurations in the Mission Specialist lineup.



Submersible Information

Depth Rating: 300 m (984 ft)
Weight in Air: 13.6 kg (30lb) - No Payloads
 15.8 kg (34.8 lb) - W/ Oculus 750 Sonar, A50 DVL,
 Reach Alpha Manipulator
Manipulator: 90 - 180 Degree Spring Loaded Manipulator



Propulsion

2 Horizontal Thrusters: 16.8 kg / 37 lbs, 4 Knots
2 Vertical Thrusters: 9.5 kg / 21 lbs, 1.5 Knots
Lateral Thrust: 6.1 kg / 13.5 lbs, 1 Knot

Spring Loaded Manipulator



Ultra 4k Smart Camera

With the ability to run multiple neural networks and process high-resolution data, this camera is not just a visual device but an intelligent partner capable of advanced image processing and autonomous decision-making.

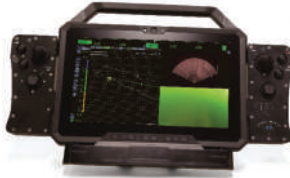
Processor: NVIDIA Jetson Orin NX
Image Quality: 12MP Resolution (4.7k)
 150ms Latency
 Up to 60 Frames per Second
 3.5 - 15Mbps Bandwidth

Features: 1 TB SSD
 Auto-White Balance
 Electronic Focus
 Image Unwarp
 Digital Pan, Tilt, and Zoom
 Color Enhancement





Controller Options



Part Number: 73424

Expeditionary Splashproof Controller

A lightweight all-in-one user tablet that allows for a more scalable work environment. *(Requires the Expeditionary Reel and Subsea Batteries.)*

Features

- Modular quick release side pod controllers
- Carry handle
- Kickstand
- Neck strap

Standard Controller Configuration

- (2) 2 Axis joystick with center push
- (2) 1 Axis thumbwheel
- (6) Momentary buttons
- (2) D-pad (5 momentary push)



Part Number: 73394

Workhorse Splashproof Controller

A power and communications controller designed to protect connector ports from becoming water damaged. Includes the **Expeditionary Splashproof Controller**. *(Requires shore power.)*

Features

- Integral Vesa 75 mount for HMI mounting
- 2X Accessory USB input
- 1X USBL bulkhead

Power

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
48V (HMI interface)



Part Number: 73423

Workhorse Control Console

A complete user interface with a built-in touch screen that supplies power and communications to the vehicle. *(Requires shore power.)*

Features

- Integral computer
- HD High Brite Monitor
- Industrial Programmable Hand Controller
- Integral Line Isolation Monitor (LIM)

Power

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



Float Options



Rounded Float

The rounded float is essential for tasks requiring access to shore power and prioritizing maneuverability in tight spaces. *(Batteries are not compatible)*

Vehicle Size with Float: L 64.1 x 30.5 cm Diameter
(L 25.25 x 12 in Diameter)



Squared Float

The Squared Float is crucial for handling heavier payloads and utilizing the Subsea Batteries.

Vehicle Size with Float/Batteries: L 64.1 x H 38.1 x W 30.5 cm
(L 25.25 x H 15 x W 12 in)