

## Mission Specialist Defender Navigation Package

The Mission Specialist Navigation Package enhances autonomous control. It integrates a Doppler Velocity Log (DVL) for tracking the ROV's position along the sea bottom and estimating distance traveled using "dead reckoning" navigation. A GPS antenna corrects the position at the surface. The software upgrade seamlessly integrates these sensors, offering station keeping, mission planning, dynamic positioning, and data export. A USBL system can be added for missions beyond the DVL's range.

## **DVL SPECIFICATIONS**

300m
500kHz
2.9 degrees
4-beam Janus array convex
transducer, 25 degree beam angle
0.2m
100m

## **GPS SPECIFICATIONS**

Depth Rating	300m
<b>Horizontal Position</b>	
Accuracy	2.5m
Time-to-first-fix	29s
Sensitivity	-166 dBm

## **GREENSEA FEATURES**

- Station Keeping
- Reacquisition
- Mission Planning
- Dynamic Positioning

