



Sea Lancer™ Mission Module

Modular High Performance Low
Frequency Active and Passive Sonar



Key features

- A self-contained single 20 ft Mission Module
- Simple onboarding and off-boarding process
- Integrates seamlessly with Ultra's Sonar Suite
- Passive only or active-passive operations
- Configurable Sea Lancer™ acoustic payload(1)
- MIL-STD-810G Environmental and Shipboard Vibration qualified
- MIL-S-901D Shock qualified

Overview

As LFA-capable platforms become smaller and multi-role ships become more prevalent, Ultra's unique Sea Lancer™ addresses the problem of size and weight head-on. Any Sea Lancer™ configuration can be containerized in a single 20 ft Mission Module for maximum modularity and portability.

The Sea Lancer™ can be configured as passive only sonar with a suite of directional or omnidirectional sensor modules or as a Low Frequency Active sonar with an inline Horizontal Projector Array (HPA), which is an array of multiple in-line, independently driven projectors. The entire towed array is stored on, and deployed directly from, a single winch without needing the additional space and weight of a separate overboarding system. Consult Sea Lancer™ datasheets for more details on acoustic configurations.

Technical Specification

A Sea Lancer™ Mission Module consists of a single 20 ft container that holds a high performance Variable Depth Sonar. Everything that is required to deploy, recover, and operate the VDS is contained within the mission module.

The equipment space is configurable for both passive only and LFA operations in addition to housing Ultra's integrated sonar suite that can operate independently or pass information to the platform's combat management system.

Key benefits

- High Performance
- Single 20 ft Mission Module for easy onboarding and off-boarding of assets
- Low size and weight compared to active dual tow systems
- Modular acoustic payload configurations⁽¹⁾
- < 30 kW Power Requirement

⁽¹⁾ Consult Ultra's Sea Lancer™ datasheets for more information.

Technical Specification	
Mission Module Mass	8,862 kg
Mission Module Mass (w. payload)	11500-14000 kg
Single Phase Power	3.2 kW 115 VAC; 60 Hz
Three Phase Power (winching)	21 kW 440 VAC 3Ø; 60 Hz
Three Phase Power (transmitting)	30 kW 440 VAC 3Ø; 60 Hz
Dimensions (WxDxH)	2.44 m x 6.06 m x 2.59 m (excl. maintenance area)
Acoustic Payload	Sea Lancer™ Variable Depth Sonar(1)
Environmental	
Operating Temperature	-2°C to +35°C
Storage Temperature	-30°C to +70°C
Deployment & Recovery Speed	4 kts to 12 kts
Survival Speed	Up to 27kts in Sea State 5



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