

ULTRA MARITIME

SEA TRACKER

Containerized High Performance Low Frequency Active and Passive Sonar



Key features

- A self-contained single 20ft unit
- Simple onboarding and off-boarding process
- Configurable sensor spacing, nesting, and apertures
- Integrates seamlessly with Ultra Maritime's Sonar Suite
- Passive only or active-passive operation
- Configurable Sea Lancer™ acoustic payload(1)
- MIL-STANAG-4830, design and interface standard for mission modules, compliant
- DNV 2.7-1, Offshore Container, compliant

Overview

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

The towed array can be configured as passive only sonar with a suite of directional or omnidirectional sensor modules or as a LFA sonar with an in-line 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 towed array datasheets for more details on acoustic configurations.

Technical Specification

The ASW Sea Tracker 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 Maritime's integrated sonar suite that can operate independently or pass information to the platform's combat management system.

Key benefits

- High Performance
- Compact size compared to active dual tow systems
- Resolves port-starboard ambiguity instantaneously
- Designed for reduced crew and un-crewed operation
- Rapidly deployable onto platform of opportunity

Sea Lancer™ Characteristics

Sea Tracker Mass	18,000-22,200 kg (payload dependent)
Single Phase Power	5 kW 115 VAC; 60 Hz
Three Phase Power	35 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	-25°C to +48°C
Storage Temperature	-46°C to +71°C
Deployment & Recovery Speed	7 kts to 15 kts
Survival Speed Up to	27kts in Sea State 5



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