

HUNTERWATER[™]

Unmanned System For Full-Cycle Minehunting

Hunterwater is a lightweight, compact and effective unmanned system for minehunting. It applies an innovative all-in-one search, identification and automatic neutralization of underwater mine threats.

A COMPLETE SYSTEM

L3Harris' Hunterwater is a new generation minesweeping system created to perform the complete standoff minehunting operating cycle, by means of a lightweight and simple-to-use unmanned Mine Countermeasure Module (MCM). It allows performing MCM operations in total safety, using a modular Unmanned Surface Vehicle (USV) system of compact dimensions and characterized by reduced operational costs.



MAIN FEATURES

The Hunterwater system is a USV that manages the onboard robotic set (MCM Kit) by means of the launch and recovery system (LARS).

The MCM Kit includes the following robotic units:

> A hybrid remotely operated vehicle and sidescan sonar (ROVSCAN) mine countermeasure module is capably of performing site survey, identification and precise acoustic localization (PAL) of the threats. It also deploys multiple markers that allow mine neutralization.

> A disposable compact acoustic guided vehicle (VGA), featuring precise automatic target reacquisition with acoustic arrays. This component is capable to perform autonomously the countermine mission by direct target reacquisition.

The system can also be used in addition to the independent mission capability, for multiple/parallel search and identification operations, in conjunction with other USV systems and/or autonomous underwater vehicles (AUVs) e.g., L3Harris' IVER4.



COMPACT AND EASILY DEPLOYABLE

Featuring:

- > Remote commanding and monitoring operative mode
- > Mine countermeasure module control unit



MCM Kit



Unmanned Surface Vehicle (USV)

USV PLATFORM CHARACTERISTICS	
Dimensions:	Length: 8 m, Width: 2.2 m
Mass:	4 tons (fully loaded)
Propulsion:	1 waterjets engines
Max speed:	> 18 kts
Autonomy:	> 8 h standoff
Equipment:	1 retractable LARS for ROVSCAN, 4 VGAs

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MCM KIT CHARACTERISTICS



The ROVSCAN combines typical functions of an ROV with those of a sidescan sonar, allowing search, identification and localization of targets. It operates both towed and tethered scanning. It also features:

- > Base payload: storage for four acoustic markers
- > Laser-pointers for target-precise positioning
- > Multibeam imaging sonar and an HD camera



The acoustic guided vehicle VGA is a disposable lightweight vehicle launched by the Hunterwater USV platform. It provides the autonomous acoustic re-acquisition and target neutralization. It also features:

- > Video camera with optical fiber wire
- > Sonar for precise target final achievement
- > Countermine by target reacquisition (small shaped charge)

HUNTERWATER MAIN BENEFITS

- > Long-range standoff operation from mothership (> 5nm, according to the communication link)
- > Rapid transit to the operating area and endurance in continued mission
- > Low impact for ship installation and launch and recovery system unit
- > Direct scalable effort and redundancy with coordinated multiple units
- > Easily transportable, by means of a single 40-feet ISO container for a complete minehunting USV system
- > Low-cost disposable VGA (mine-killer) for mine countermeasure



Hunterwater™

UNMANNED SYSTEM FOR FULL-CYCLE MINEHUNTING This sheet has been reviewed in accordance with the International Traffic in Arms Regulations (ITAR), 22 CFR Part 120.11, and the Export Administration Regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

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This document consists of general capabilities information that is not defined as controlled technical data under ITAR Part 120.10 or EAR Part 772.

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