L3HARRIS®
FAST. FORWARD.

RECONNEX™ D7000 SERIES

Naval RESM/CESM digital support system



The L3Harris ReconneX D7000 series delivers a passive, digital Radar and Communications Electronic Support Measures (RESM/CESM) system designed for surface and submarine naval platforms. Optimized for saturated electromagnetic environments, the D7000 provides continuous, wideband coverage and real-time situational awareness, enabling timely response to modern radar and communications threats.

Designed for persistent operations in dense and contested electromagnetic environments, the D7000 series delivers continuous radar and communications situational awareness for surface and submarine naval platforms. The system provides passive detection, classification and monitoring across wide frequency bands — supporting survivability and mission effectiveness in modern maritime operations.

D7000 combines wide instantaneous bandwidth, direct RF sampling and advanced digital processing to ensure reliable detection and accurate characterization of radar and communications emitters. High-density pulse processing and precise angle-of-arrival performance enable effective operation against agile, low-probability-of-intercept and high-traffic threat environments encountered in today's naval battlespace.

Built on a software- and firmware-defined open architecture, the D7000 series lets customers tailor frequency coverage, bandwidth and mission functionality.

The system supports integration with legacy topside antennas as well as modern apertures, enabling efficient new-build installations or form-, fit- and function-compatible upgrades for in-service combatants.

The D7000 series is sold with the DiSCO™ (Distributed Spectrum Collaboration And Operations) technology to deliver advanced, multi-function electronic warfare capabilities across distributed users and locations. As a DiSCO-enabled system, the D7000 enables rapid, secure coordination and natively supports both independent and networked operations through an intuitive human-machine interface and the ARKENSTONE Agentic AI layer.

Operators can use the system on its own, in a network of multiple D7000s or pair it with ReconneX D5000 and D3000 series receivers for expanded electronic support missions, while its flexible design accommodates everything from single-operator setups to coordinated, multi-system missions supporting RESM (radar electronic support measures), CESM (communications electronic support measures) and intelligence operations.

BENEFITS

- **Provides passive, wideband RESM and CESM coverage for surface and submarine naval platforms operating in contested RF environments**
- **Supports high-density pulse processing and precise emitter characterization, enabling effective operation against modern radar and communications threats**
- **Offers an open, digital architecture compatible with legacy and modern antenna systems, supporting new build and form, fit and function upgrade programs**
- **Enables AI assisted analytics and collaborative operations through DiSCO, extending spectrumawareness across distributed naval forces**
- **Integrates with combat and weapon systems, enabling rapid dissemination of threat-relevant data**

KEY PERFORMANCE AND CAPABILITIES	
Frequency Coverage	0.5 to 18 GHz, scalable down to HF and up to 40 GHz with mmW
Instantaneous Bandwidth	2-4 Gsps per channel, up to 16 channels
Radar Pulse Volume	>8 Mpps, operating in high-density environments
Antenna Performance	Accurate AoA over 360° using RHCP and LHCP and specialized manifolds
Sensitivity	-70 dBm nominal, down to -95 dBm based on processing
Detection	100% probability of intercept/detect in high-density environments
Signal Processing	Process all RF instantaneously Tracks >1000 emitters simultaneously <10 ms registration of new emitters >20,000 emitter mode library capacity Software-defined coverage includes FMCW, RESM, CESM (AI-based)
Direct RF Sampling Receiver	Efficiency and reduced SWaP-C
Open System	Offers third party and sovereign pulse analysis SW
Operator Automation	Reduced workload Instant threat ID Built-in training mode
Improved HMI	Modern analytics AI-driven Agentic EW ready Fully remoteable
Option	High-speed digital recorder with ELINT recording capability COMINT-enabled via third-party software

ENGINEERED FOR NAVAL SPECTRUM DOMINANCE

By combining passive digital RESM and CESM performance with an open, software-defined architecture, the ReconneX D7000 series provides a scalable and enduring solution for modern naval electronic warfare. Designed to adapt to evolving threats, platforms and mission demands, D7000 enables collaborative operations, third-party integration and future capability growth, delivering sustained operational advantage across surface and submarine environments.



D7000 Modular DESM with Surface and Subsurface Apertures

Learn more at L3Harris.com

Reconnex™ D7000 Series

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