L3HARRIS®
FAST. FORWARD.

RECONNEX™ D5000 SERIES

Digital ELINT/ESM system for land and maritime operations



The L3Harris D5000 series provides integrated electronic intelligence (ELINT) and digital electronic support measures (ESM) capabilities in a compact digital receiver system optimized for land, coastal and maritime surveillance. Its high sensitivity, wide instantaneous bandwidth and advanced digital processing enable real-time detection, classification and monitoring of modern RF threats from radar, communications and drones at extended ranges.

Built for today's dense, contested electromagnetic environments and the emergence of autonomous and robotic warfare, the ReconneX D5000 series delivers persistent situational awareness across the radio-frequency (RF) spectrum. It detects, classifies and monitors emissions from submarines, surface vessels, aircraft, unmanned systems and land-based radars — providing real-time, actionable ELINT and digital ESM for radar and communications signals.

D5000 combines wide instantaneous bandwidth, direct RF sampling and advanced digital processing to ensure reliable detection and accurate parameter measurement against modern, low-probability-of-intercept and agile emitters. Integrated omnidirectional and high-gain antenna configurations support full 360-degree coverage and long-range collection, enabling effective operations in both mobile and fixed-site deployments.

Designed around a software- and firmware-defined open architecture, the D5000 series lets customers tailor frequency coverage, bandwidth and mission functionality.

The system supports scalable antenna integration from HF through millimeter-wave frequencies, enabling adaptation to evolving threats and mission profiles over time.

The D5000 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 D5000 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 D5000s, or pair it with ReconneX D7000 and D3000 series receivers for expanded electronic support missions. 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

- **Enables rapid understanding of the electromagnetic battlespace, supporting decisive action against modern digital threats**
- **Detects, classifies and monitors RF emitters at range, providing persistent awareness across land and coastal domains**
- **Adapts to mission and threat evolution through an open, scalable architecture, protecting long-term investment value**
- **Supports distributed and collaborative operations, extending electronic warfare and intelligence effects across multiple sites and users**
- **Supports fully automated operation**
- **Simplifies operations with an intuitive, graphics-based HMI, reducing training burden and operator workload**

KEY PERFORMANCE AND CAPABILITIES	
Frequency Coverage	0.5-20 GHz, scalable down to HF and up to 40 GHz with mmW options
Instantaneous Bandwidth	2 gigasamples per second (Gsps) per channel, up to 8 channels
Radar Pulse Volume	>6 Mpps, operating in high-density environments
Antenna Performance	Accurate AoA over 60° using 45° slant mechanical antenna
Sensitivity	Nominal –70 dBm; down to –95 dBm depending 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 size, weight, power and cost (SWaP-C)
Open System	Supports third-party and sovereign pulse-analysis software Provides PDW and CDW streaming, along with VITA 49.2 IQ streaming
Operator Automation	Reduced workload Instant threat ID Built-in training mode
Improved Human-Machine Interface (HMI)	Modern analytics AI-driven Agentic EW ready Fully remoteable
Options	Tethered s-UAS, SIGINT-ready with third-party software High-speed digital recorder with ELINT recording capability COMINT-enabled via third-party software

BUILT TO ADAPT. DESIGNED TO ENDURE.

With its combination of high-performance digital reception, open architecture and collaborative, edge-ready operations, the D5000 series provides a scalable foundation for modern ELINT and digital ESM missions. Designed to adapt as threats evolve, D5000 enables customers to extend capability, integrate sovereign analytics and deploy flexible configurations, delivering enduring value and operational advantage across land and coastal surveillance environments.



Multiband, high-gain antenna for AoA estimation; half-rack, modular, open-architecture D5000 multichannel digital ESM system

Learn more at L3Harris.com

Reconnex™ D5000 Series

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