

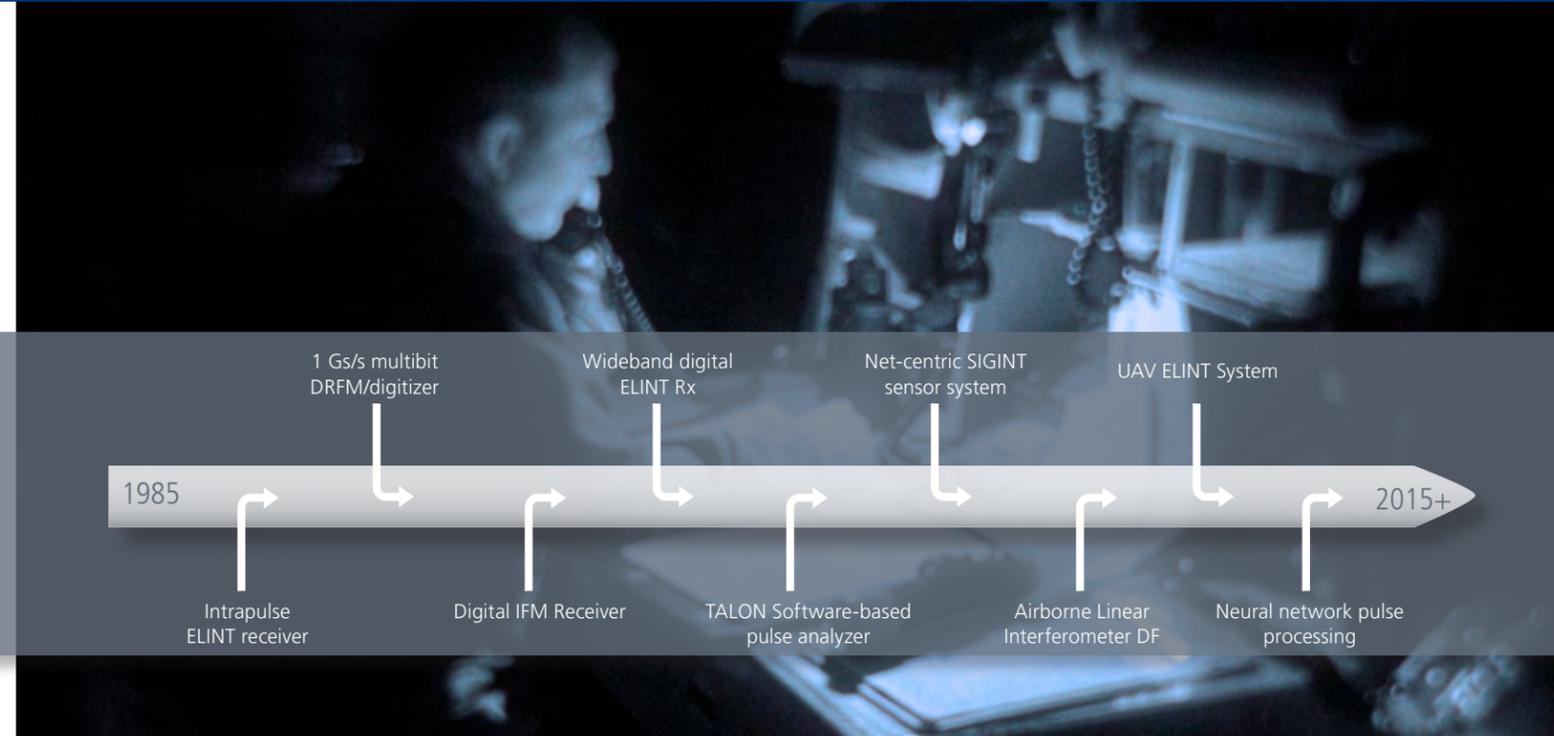


UltraEAGLE
ELINT SYSTEMS



Delivering operationally-focused SIGINT and EW systems

Ultra Electronics, TCS is a world-class provider of ground, sea and airborne Signals Intelligence (SIGINT) and Electronic Warfare (EW) systems. Ultra's technical capabilities are underpinned by real and current expert domain-knowledge of the implementation of SIGINT and EW in tactical and strategic operational scenarios.



Ultra Electronics, TCS Capabilities

Integrated SIGINT Systems		ACTIVE Systems
UltraEAGLE ELINT SOLUTIONS ELINT systems R-ESM systems Hardware and software pulse analyzers	UltraFALCON COMINT SOLUTIONS COMINT systems C-ESM systems Specialist signal intercept	UltraHAWK ACTIVE SOLUTIONS Range simulators EW training systems Test and evaluation systems

The UltraEAGLE ELINT System

The UltraEAGLE (Electronic Acquisition Gathering Locating Equipment) is a family of Electronic Support (ES) systems technology designed to meet a wide array of Electronic Intelligence (ELINT) missions. Available in various models covering A through K band, UltraEAGLE represents a modern integrated digital ELINT receiver system for Intelligence, Surveillance and Reconnaissance (ISR) applications.

The UltraEAGLE product line exploits the benefits of an open architecture with net-centric control and operation. Incorporating wideband software defined digital receiver technology, UltraEAGLE offers state of the art radar emitter intercept, analysis and recording capability.

Powerful TALON-E ELINT Software

An inherently strong firmware and software-based signal processing capability enables UltraEAGLE to sort, identify and collect the latest threat emitters, including those using LPI techniques such as spread spectrum. By using TALON-E on the desktop, every UltraEAGLE operator has a powerful and proven ELINT analysis tool that will support live intercept, analysis and recording.

Flexible and Modular

By using a variety of modular and networkable ELINT system building blocks including antennas, tuners, pulse and signal analyzers and workstations, UltraEAGLE can respond rapidly with an ELINT system solution that reflects the user's imperatives, operational requirements and budget constraints. A range of packaging options from ATR to standard VPX enable UltraEAGLE system solutions to address a variety of user needs.

Wideband ELINT Collection and Direction Finding

- ▶ Standard frequency coverage 0.5 to 18.0 GHz, optionally extendable above and below
- ▶ A range of DF options from high directional gain steered antennas to monopulse arrays
- ▶ Optional precision 1D and 2D interferometer DF receivers
- ▶ Mixed receiver technology options
- ▶ Small size and weight DF antenna options



Dense and Complex Environmental Capability

- ▶ High selectivity and immunity to interference enables UltraEAGLE operation in a dense environment
- ▶ Selectable hardware and software filters support improved matched receiver conditions in the presence of interference over the entire operating frequency range
- ▶ Integrated TALON-E application software suite enables multi-faceted views of the emitter environment.
- ▶ TALON-E virtual pulse analyzer recording and analysis tool enables complex emitter handling



Compact, Mobile and Networkable

- ▶ Compact and light-weight system configuration options to support air, sea and land mobile operations
- ▶ Optimized system architecture for multi-mission solutions
- ▶ Open standard networking protocols enable UltraEAGLE to provide a full network of ELINT sensors



About Ultra Electronics, TCS

Ultra Electronics TCS, a division of Ultra Electronics, is a global leader in tactical communication systems, including high-capacity radio communication and Electronics Warfare (EW) systems. Ultra Electronics, TCS is proud to work with leading system integrators to provide the best communication systems and services to be integrated with any military architecture and fielded as part of any deployment scenario in the world.

Ultra Electronics, TCS ISR Solutions

Focusing on EW and SIGINT, the ISR solutions group is based in Ottawa. Ultra's pedigree is underlined by constant collaboration with government customers, government laboratories, scientific establishments and prime integrators. The UltraEAGLE, UltraHAWK and UltraFALCON product lines have detailed technical specifications and system architecture information that is available to government and prime integrators upon request.



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