T-REX True RF Environment Extractor

Passive radio frequency signal intercept, characterization, and direction finding

Operational Capability: The **T-REX** provides a network centric EW surveillance system capable of intercepting and processing radio frequency (RF) signals from 2-18 GHz. The signals are analyzed to determine the direction of arrival and characterized for correlation to an emitter database for identification. The system distributes the emitter reports over a wide area network using standard command and control (C2) interface protocols. Three or more systems can be used together to triangulate and locate an emitter. **T-REX** is a component sensor in the JUMPS system architecture, contributing to enhanced situational awareness in the maritime domain.

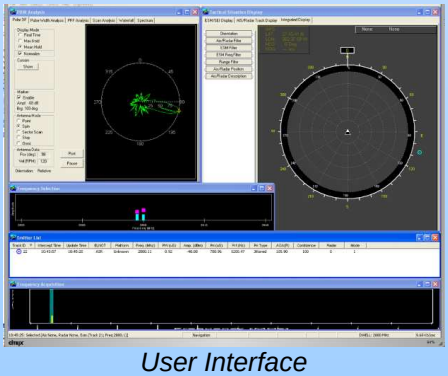
Receiver/Processor

Components: The **T-REX** system consists of a main mission antenna, laptop assembly and a receiver assembly. The main mission antenna assembly includes an omni-directional antenna and a DF antenna array, an AIS antenna/receiver, and a GPS antenna/receiver. The laptop assembly includes a ruggedized processor and the necessary communication cabling. All units in the receiver assembly are 19-inch rack compatible and are mounted in an enclosure to facilitate transportation and reduce system setup time. A 0.75-inch diameter cable is used to interface the main mission antenna assembly to the receiver assembly. This cable connects to each assembly using military style connectors allowing for a sealed connection suitable for use in harsh environments. A Windows software application is included, providing tactical situation and analysis displays.


Omni / Spinning DF Antenna

Options: The **T-REX** is available with multiple antennas and receivers. The system can be configured with spinning DF or multi-element monopulse DF antennas. Receiver options include instantaneous wide bandwidth (up to 16 GHz), digital pulse analyzer receivers, and dual channel digital receivers for scanning the spectrum and performing signal analysis. The **T-REX** is fully compatible with Argon's Stingray receiver.

System Interfaces: The system includes an XML interface for use with TCP/IP networks for exchanging emitter data with external systems. The **T-REX** also supports OTH-GOLD and TACELINT message formats. The system can be configured as a cueing receiver for narrow band ELINT receivers.


User Interface

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