SECURITY AND DEFENSE

SIGNAL GENERATION
AND TRAINING
SYSTEMS

Security and defense in five continents

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Indra is the most reliable partner for signal generator and training systems solutions

**SIGNAL GENERATION AND TRAINING SYSTEMS**

**MRGR-800-BAS B4 radar ES**

The MRGR-800-BAS B4 is a radar ES system which has the capability to provide a platform with automatic detection, direction finding, analysis, classification and identification of any pulsed or continuous wave (CW) radar emissions in the whole 2 to 18 GHz bandwidth in the angular coverage of 360º. It provides the following main capabilities:

- Outstanding warning capability (including LPI radars)
- Superior tactical information
- Accurate identification and tracking of targets
- The highest detection sensitivity
- Advanced IHM

Wide band digital reception is the core of the system, resulting in a set of unique characteristics that includes:

- The best system architecture for detection and measurement of Low Probability of Intercept (LPI) radars and CW signals
- Robustness in very dense or jamming scenarios due to the capability to handle several simultaneous CW signals without losing performances
- Higher resolution and accuracy on both time and frequency domains with the use of "Dual Digital Receiver Techniques" allowing significant improvements in radar parameter measurements
- Inherent intra-pulse measurement capabilities
- Increased sensitivity and equivalent detection range function
- Advanced IHM

**Deception and jamming system**

The deception and jamming system has the capability to provide a platform with self-protection by means of jamming or deception countermeasure techniques against either single or multiple threats that are active on the 6.5-18 GHz frequency band (0.5-2 and 2-18 GHz configurations also available), resulting in a set of unique characteristics that includes:

- Effective power management
- Multi-threat capability
- Use of advanced multi-bit DRFM techniques
- Flexible HW architecture
- Advanced IHM

**ALQ-500 POD**

The multi-functional RF simulator and jammer system is based on years of proven experience, providing:

- 6–18 GHz frequency band (0.5-2 GHz and 2-18 GHz configurations also available)
- Use of advanced DRFM techniques, allowing advanced radar signal generation/simulation
- Advanced air training capability
- Advanced jamming and deception techniques
- Multi-threat capability
- Flexible configurations (power/frequency)
- Advanced multi-bit DRFM techniques
- Advanced IHM

**EWE-5000**

The EWE-5000 advanced training, simulation and calibration system is a shelter based solution that covers the spectrum from 1.6 MHz to 40 GHz both for active and passive purposes. The EWE-5000 solution provides the following key features:

- All COMMS/RADAR modulations
- Multiple signals (MDT)
- Single land/maritime equipment solution
- Very flexible and easy deployability (mobile, modular architecture, ruggedized)

The system is modular and configurable, and easily deployable. It is possible to provide different configurations according to the platform constraints. The system is detachable, allowing the deployment on different environments (ground/maritime).

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SG & TS

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