

PELIKAN RF Missile Seeker Simulator

Innovative System for Electronic Warfare Tests

PELIKAN is a Naval EW test and evaluation asset designed to evaluate the effectiveness of a ship's electronic warfare techniques (ESM, ECM, RF Chaffs/ decoys, etc).

System Capabilities

PELIKAN provides realistic Anti-Ship Missile (ASM) seeker radar simulations to evaluate the operation of RF chaffs/ decoys and other EW systems and provides a cost-effective in-house test, training, and validation capability.

The system provides the entire infrastructure for training the ship crew on the use of EW systems and how to determine the tactics of avoiding from the simulated targets.

PELIKAN can accurately emulate the behaviour of specific anti-ship missile's RF seeker so that the system appears to be a real example of the missile in question from the target's (ship's) perspective. In addition, PELIKAN also reacts to electronic warfare counter measures that are carried out by the target ship. System can be configurable so it can be programmed to emulate a wide variety of anti-ship missile's RF seekers across a range of guidance techniques.

PELIKAN can simulate a number of different missile types by varying parameters such as frequency, pulsewidth, pulse repetition frequency, gate size, pulse modulation, polarization, and detection criteria.



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PELIKAN

Missile Seeker Simulator



Real Time Operation

Real-time information is available regarding the emulated missile's behaviour so that live evaluation of the effectiveness of the counter measures employed by the target ship can be assessed. In addition, PELIKAN records all relevant data to enable further analysis to be undertaken once simulation phase of the trial is complete.

PELIKAN is largely autonomous in terms of its operation as once programmed and started, it operates exactly as the intended missile's RF seeker would.

Key Features



X Band Seeker Simulation



Programmable
Software Defined
Radar Infrastructure



Seeker Algorithm
Modification/Generation
Capability



Recording All
Simulation Data



Ku Band Seeker Simulation



Wide Band
Seeker Simulation



Post Mission Analysis
and Re-run Recorded Data



Fully
Transportable

Transportable, Innovative and Effective

PELIKAN consists of a master controller and up to three remote emitters. It contains three RF missile seekers integrated into a single transportable shelter. The system is mounted on an Air-conditioned ISO shelter. There are two rooms in the shelter: Operator Room and System Room. Antennas, gimbals and RF Receiver Units are placed on the roof of the Shelter. Shelter and Generator installed on a custom designed trailer. System control is provided by consoles inside the shelter, which enable operators to configure different seeker parameters.

