



**SELEX GALILEO**

A Finmeccanica Company



## **SEER** **A DIGITAL RADAR WARNING RECEIVER FOR SMALL PLATFORMS**

**SELEX Galileo's extensive experience in the provision of a market leading aircraft self-protection capability has established the Company as Europe's leading EW supplier. As a result of continual and significant investment in advanced technologies, SELEX Galileo has secured a global reputation for exceeding customer requirements in the delivery of state-of-the-art Electronic Warfare (EW) solutions.**

The increasing re-emergence of land based RF guided weapons coupled with significant advancement in surveillance and airborne targeting radar technologies necessitates that aircraft are fitted with an advanced Radar Warning Receiver (RWR). As a result, the dense modern day electromagnetic environment requires a new generation of RWR, a system with enhanced processing power, capable of identifying and prioritising highly complex Radio Frequency (RF) signals.

SEER, the next generation RWR, has the capacity to meet and exceed the modern complex requirement by utilising the benefits of digital receiver technology. It is essential for evading threats, increasing aircraft survivability and improving the probability of mission success. The RWR exploits established SELEX Galileo digital and microwave electronic technology with improved sensitivity and processing power.

SEER has undertaken extensive flight trials for a number of international customers and has demonstrated a high level of performance and outstanding operational results that significantly exceed the expectations of trialists.

### **KEY BENEFITS**

- High performance, low weight, low cost RWR
- Detection and identification of emitters in complex radar environments
- Significant increase in platform survivability
- Low false-alarm rate
- Reduced life-cycle costs
- Long detection range
- Simple installation  
(with re-use of existing compatible antennas if fitted)
- If available, utilises existing MFD for display and control
- Full operational support
- Multiple mission data sets.

### **OPERATIONAL ANALYSIS**

- High levels of serviceability
- Long range detection of Aircraft Intercept radars
- Accurate and consistent tracking of bearing
- High quality parametric data collection.

## SEER - A DIGITAL RWR FOR SMALL PLATFORMS



SEER - Suitable for Small Platforms including Counter-Insurgency (COIN) Aircraft

### TECHNICAL SPECIFICATIONS

#### Frequency Coverage

E-J Band (Expandable to C/D and K bands)

#### Direction Finding

<10° rms

#### Detection

Pulsed, Pulse Doppler, CW

#### Pulse Characteristics

Stable, All agile types

#### Pulse Width

> 50ns (including agile)

#### High Sensitivity

< -55 dBmi

#### High Accuracy Frequency Measurement

< 10 MHz

#### Mission Recording Capacity

>20 hours

#### Cockpit Display

MFD or dedicated

#### Data Recording

Extensive pulse data recording and replay facilities

SEER provides an advanced RWR for new build platforms and a simple upgrade to existing platforms.

This new solution is easily supported with high reliability and simple interfaces using modern electronics, leading to low overall life-cycle costs, affordable acquisition costs and low cost of ownership.

### OPERATIONAL ADVANTAGES

- Significantly enhanced detection range
- Sophisticated identification and signal sorting for operation in a modern threat environment
- Reduced life-cycle costs through improved reliability and supportability
- Flight line programmable threat library
- Future growth options
- Competitive acquisition cost
- Operational independence.

SEER can be supplied with an accompanying Electronic Warfare Operational Support (EWOS) package. This includes an easy-to-use PC based mission data generator, which with full training allows users to prepare their own mission data sets (MDS) and adapt them for their specific uses. As part of this EWOS package, SELEX Galileo can provide a service directly to the Customer for the preparation and maintenance of MDS.



SEER - compact form/factor with optional LRUs for display and control

For more information please email [sales.marketing@selexgalileo.com](mailto:sales.marketing@selexgalileo.com)

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