



# Selex ES

A Finmeccanica Company



Radar & Advanced Targeting

## SKYWARD INFRARED SEARCH & TRACK SYSTEM

Selex ES's SkyWard system offers state-of-the-art capabilities in Infrared Search and Track (IRST). SkyWard is a product of Selex ES's extensive experience in the field of IRST for airborne and naval systems and is the latest addition to the Company's proven record in delivering innovative technology to Customers.

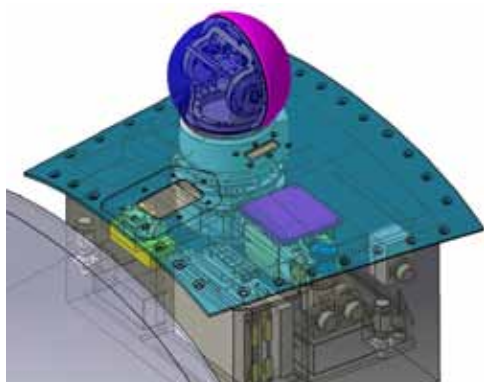
SkyWard has been designed and developed to satisfy the more demanding requirements of 5th generation fighter aircraft with an embedded solution. A pod configuration is also available to allow easy installation on existing platforms.

SkyWard comprises two Line Replaceable Units (LRU): a Sensor Head Unit (SHU) and a Processor Unit (PU). While the SHU can be mechanically tailored for an embedded a/c solution, the PU is a standard ½ ATR box that can be installed away from the SHU. Low weight and reduced dimensions allow easy installation and maintenance.

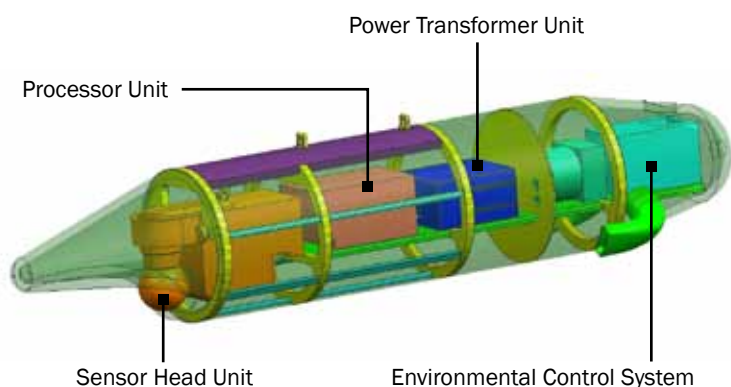
### KEY FEATURES

- Passive Operation (immune to electronic detection and RF countermeasures)
- Mid or Long Wave IR
- Long range detection
- Wide scan volume
- Selectable Field Of View (FOV) (Wide – Middle – Narrow)
- Open architecture
- Air cooled
- Broad suite of field proven air-to-air, air-to-surface and navigation modes
- Detection and tracking of a high number of targets.
- Software algorithms for low false alarm rate
- Growth capability to extend the existing features, including dual IR band detector and sensor fusion with radar

## EMBEDDED INSTALLATION



## POD VERSION \*



Sensor Head Unit



Processor Unit

## TECHNICAL CHARACTERISTICS

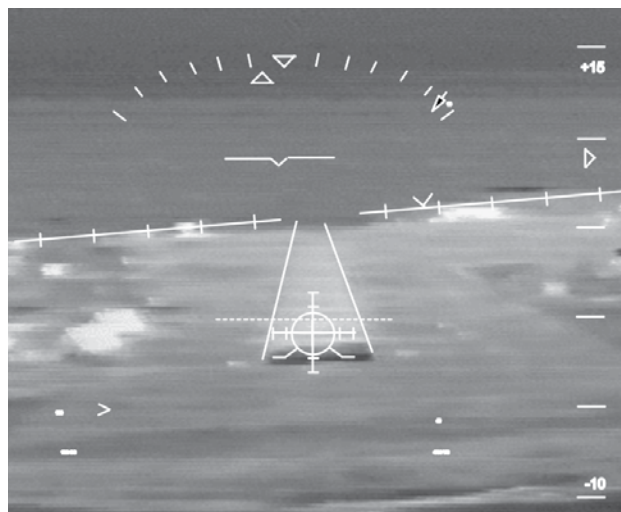
Track while scan	Up to 200 targets tracked
Field Of View	Narrow 8° x 6.4° (S-TWS/MTT) Medium 16° x 12.8° (S-TWS/MTT) Wide 30° x 24° (Imaging)
Weight (SHU + PU)	SHU < 30kg PU < 25Kg
Cooling	air cooled
Dissipation	< 500W
IR band	MWIR or LWIR
Scan Coverage	160° x 60°
Outputs	Digital (ARINC 818), Analog (STANAG 3350), MIL-STD-1553, Customized I/O

### SkyWard Modes Available

Search and Track While Scan (S-TWS)	Air to Air Air to Ground Air to Sea Multiple and Single Target Track (MTT, STT)
Sector Acquisition	Multiple and Single Target Track, Automatic target recognition (ATR)
Imaging	Beacon Slaved Imaging Ground Map Assistance Recording
Navigation	Flying Aid Landing Aid
Steerable IR Picture on Pilot's Helmet	



Target Identification on Ground



Landing Aid

For more information please email [infomarketing@selex-es.com](mailto:infomarketing@selex-es.com)

**Selex ES S.p.A.** - A Finmeccanica Company

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