

The SkyWard system offers capabilities in Infrared Search and Track (IRST). It is a product of our 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.

It 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 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 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
- · Algorithms for low false alarm rate
- Growth capability to extend the existing features, including dual IR band detector and sensor fusion with radar
- Passive ranging.







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:	<25Kg
PU:	<15Kg
Cooling:	Air cooled
Dissipation:	<400W
IR band:	LWIR or MWIR
Scan coverage:	± 85° azimuth, ± 60° elevation
Outputs:	Digital (ARINC 818), Analog (STANAG 3350)
	MILSTD-1553, Customized I/O

010/11/4 DD 140DE0	
SKYWARD MODES	
Search and Track:	Air-to-Air
While Scan (S-TWS):	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:	Slaved Imaging, Ground Map Assistance,
	Beacon, Recording
Navigation:	Flying Aid, Landing Aid
Steerable IR picture on pilot's helmet	
OTHER FUNCTIONS	
Passive ranging	
Optional embedded data recording capability	

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