INTERSOFT ELECTRONICS

L-IESA® NR-IFF

Non-Rotating Integrated Electronic Scanning Array for IFF Naval Applications

L-IESA® NR-IFF is the L-band Integrated Electronic Scanning Array for ship-board IFF. It's a modular, non-rotating, integrated system that can be "wrapped-around" the mast of a frigate, as such leaving the top positions available for other CNS systems. L-IESA® NR-IFF features unique electronic leveling capabilities that improve detection performance and volume coverage.



CAPABILITIES

- Extended IFF Range Coverage (200NM) with medium power interrogator (1200W)
- Electronic Scanning Surveillance (360°, as fast as 120rpm) and Agile Jumping/Pointing of beams (100ms)
- Vertical steering and compensation of platform movement (±15° Roll/Pitch)
- Fully integrated omni-directional IFF Transponder (360°) and Link-16 (360°) antenna functions
- Capable of IFF Mode 1, 2, 3/A, C, S (Elementary and Enhanced Surveillance), ADS-B, Mode 5 Level 1 and 2





SPECIFICATIONS

RADIO FREQUENCY CHARACTERISTICS	
Antenna Gain	> 22dBi
3dB Azimuth beamwidth	less than 8°
Azimuth accuracy	<0.1° RMS (stationary)
3dB Elevation beamwidth	>17°
Sum - Delta notch	>30dB
SLS	>9dB below SUM peak
Further Antenna channels	IFF Transponder, Link-16
VOLUME COVERAGE	
Azimuth	360°
Max. Range	>200NM
Elevation	>50° (cumulative)
Elevation beams	Vertical Antenna Pointing Diversity
Multipath suppression	dynamic elevation beam switching
STANDARDS & QUALIFICATIONS	
ICAO Annex 10 Vol III/IV, STANAG 4193 Ed. 3, AIMS17-1000	compliant
MIL-STD-810H, 461G, AECTP230, 500	qualified
European Directive 765/2008 CE Mark	compliant
European Radio Equipment Directive 2014/53/EU	compliant
European Directive 2011/65/EU Restriction of Hazardous Substances (RoHS)	compliant
Regulation (EC) No 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	compliant
LOGISTIC SUPPORT ANALYSIS DATA	
System MTBCF	> 4.500h (MIL-HDBK-217F NU/NS 20°C)
Documentation	IETD ASD 1000D, 2000M
MECHANICAL DIMENSIONS	
Outer diameter	< 3.700mm
Inner diameter	> 2.800mm
Height	< 1000mm
Weight	<700kg
Cooling	passive convection cooling, no liquids

Together we make the sky safer