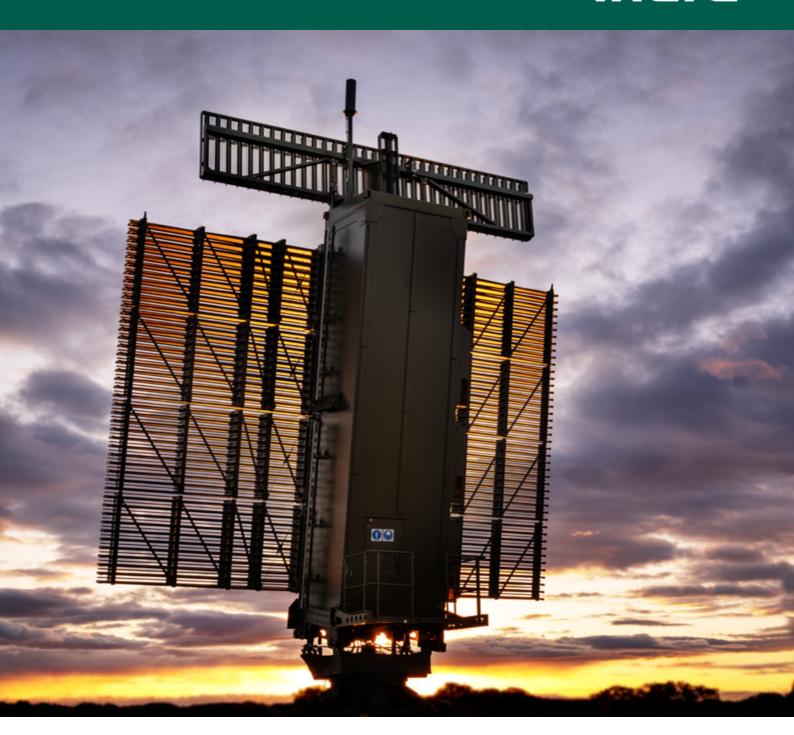# Lanza Radar LRR

Long Range Radar

The LANZA 3D-LRR (Long Range Radar) is a modular pulsed 3D Radar with long-range coverage developed by Indra, which incorporates years of in-field experience together with the latest technological advances, like: Solid State Transmitter and Receiver, Low Voltage solid state units, Microwave Monolithic Integrated, Circuits (MMIC), Last Generation Processor, Direct Digital Synthesis at Intermediate Frequency, Direct Sampling at Intermediate Frequency and Digital Complex Demodulation.

Its main function is the detection and tracking of aircrafts inside its instrumented coverage volume.

Lanza Radar LRR

Target coordinates provided by the LANZA 3D-LRR include target altitude (3D position).

The LANZA 3D-LRR is designed to provide a joint and integrated operation with a SSR/IFF (Secondary Surveillance Radar / Identification Friend or Foe). The combination of these two radars permits to achieve surveillance and identification capabilities simultaneously.

Both the SSR and the PSR are operating in harmony, in case of any one fails the other one will continue its normal operation without any failure or degradation in its capabilities or performance).

- Long Range 3D Coverage
- 3D Pencil Beam Technique
- L Band Radar
- Distributed solid state Transmitter and Receiver
- Monopulse Technique
- Digital Signal and Data Processor
- ECCM Capabilities
- Anti-Clutter Capabilities
- High Availability
- User-Friendly Operational Control
- Integrated IFF

Instrumented coverage

- Azimuth: 360°
- Minimum Elevation: -2°
- Maximum Elevation: 20°
- Minimum instrumented range: 5 NM
- Maximum instrumented range: 256 NM
- Height: 100 kft
- Rotation speed: 10 s/turn

Mission. Backbone of Air Defence Network. Early Warning

Up to 256 Nm instrumented range

NATO FADR (Class I) compliance

Static and transportable configurations

Highest performances in terms of detection range, accuracy and resolution and ECCM

Winner in all NATO tenders for Long Range Radars since 2005

indra