RDY-3
Airborne Fire Control Multirole/Multifunction Radar
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LIGHTWEIGHT, MULTIFUNCTION, MODULAR AND ADAPTABLE TO MANY TYPES OF COMBAT AIRCRAFT

Capitalizing on its unrivalled experience, Thales has developed the RDY-3 Airborne Fire Control Radar. RDY-3 is the state-of-art and cost-effective solution for combat aircraft modernization. RDY-3 provides all of the advanced functions & modes required on a multirole aircraft of the 21st century.

The RDY-3 is the reference in its category
- Air-to-Air
- Air-to-Surface

Combat advantages
- Low pilot’s workload
- Intuitive interfaces
- Very low false alarm rate
- Optimized missiles Probability of kills (Pk)
- Passive and active Electronic Counter-Countermeasures
- Service-proven compatibility with:
  - Beyond Visual Range missiles to Air/Air gun
  - Air/Ground weapons
  - Anti-ship missiles
  - Optical sensors
  - Tactical Data-Link

Implementation
- Easy System Integration
- 1553/Digibus/Ethernet Communications bus
- High level of automation
  - Scanning management
  - Tracking
  - Firing plan
- Modular design with 4 Line-Replaceable Units
- Compact or split LRU’s configuration
- Full coverage integrated maintenance
- MTBF > 250 hrs
- Growth potential

AIR-TO-AIR MODES
- Track While Scan (TWS)
- Single Target Track (STT)
- Air Combat Modes (ACM)
- Non-Cooperative Target Recognition (NCTR)
- Adaptive Scanning Management (ASM)
  - ESA-like scanning
  - IFF compatible

AIR-TO-SURFACE MODES
- Terrain Mapping
- Synthetic Aperture Radar (SAR)
- Terrain avoidance & blind penetration
- Air-to-Ground Telemetry
- Ground Moving Target Indication and Tracking (GMTI/T)
- Air-to-Sea detection and tracking
- Fixed targets tracking
- Weather avoidance
- ISAR
- Interleaved modes

Physical characteristics
- Various antenna sizes availability
- IFF dipoles included
- Low power consumption
- Air or liquid cooled
- Weight < 130 kg (LRUs)