

## THE VERSATILE AIRBORNE MULTI-ROLE SURVEILLANCE RADAR

- The SEARCHMASTER® radar combines all the benefits of Active Electronically Scanned Array (AESA) antenna technology in a lightweight and modular design based on 50 years of Thales' know-how and experience with more than 500 radars in operation. It leverages patented software items in Air-to-Sea, Air-to-Ground and Air-to-Air surveillance.
- SEARCHMASTER® provides customers with the best-in-class multi-role solution, adapted to the whole spectrum of missions for modern Navies and Air Forces, over sea and over land. Thales' new airborne surveillance radar provides a 5-in-1 solution fulfilling Anti-Surface Warfare, Anti-Submarine Warfare, Maritime Surveillance, Ground Surveillance and Mapping, and Air Surveillance missions.
- SEARCHMASTER® has been developed to suit all types of mission platform, whether manned or unmanned, fixed or rotary wing.

### SEARCHMASTER®

#### Airborne multi-role surveillance radar





# SEARCHMASTER®

## Airborne multi-role surveillance radar

For increased operational efficiency, SEARCHMASTER® provides high levels of performance whatever the mission, whatever the platform.

### TECHNICAL FEATURES

- Frequency Band: X
- Interface: Ethernet
- AESA antenna
- Scan: 360° or sector; High rotational speed capability
- Multi RF channels for high accuracy tracking
- Digital waveform generation
- Highest throughput COTS-based processor

### PHYSICAL CHARACTERISTICS

- Weight: 78 kg
- Typical power consumption: 2.4 kVA
- Number of LRU: 3
- Cooling: Air conduction

### SEARCHMASTER® AT A GLANCE

- Best-in-class operational and multi-role capability for weight and price on the market
- Simple to integrate
- Highly reliable
- ITAR free

### MULTIPLE MISSIONS

- Anti-Surface Warfare
- Anti-Submarine Warfare
- Maritime Surveillance
- Ground Surveillance and Mapping
- Air Surveillance and Support

### OPERATIONAL BENEFITS

- High-quality maritime and coastal tactical picture
- Maritime imaging modes available in all sea conditions
- Dedicated non-Doppler and Doppler modes for detection of small targets in all sea conditions
- GMTI mode for detection of slow and fast moving land vehicles
- Very wide area imaging modes (64 Megapixels) up to very high resolution
- Longer range air target detection and tracking
- Very high target tracking capability with up to 1,000 simultaneous tracks applicable to all target detection modes
- IFF antenna option available
- Improved discretion

### MAINTAINABILITY

- MTBF > 2,000 hours
- Comprehensive built-in-test software

