



ACSAR

Advanced Coastal Surveillance
Radar Family
ELM-2226



ACSR

Advanced Coastal Surveillance Radar Family

The ELM-2226 ACSR is an innovative state-of-the-art Coastal Surveillance Radar Family, optimized for the detection of all types of surface targets even under extremely adverse sea conditions. This digital, solid state, compact, cost-effective and user-friendly system is ELTA's 3rd generation Coastal Surveillance Radar. It incorporates ELTA's vast experience in surveillance radars and utilizes the company's high resolution technology. The radar features continuous, gap-free, automatic detection and tracking of targets, providing a reliable tactical situation display. Its operation is very simple and has a very low operator workload. The system for coastal surveillance and VTS can be supplied either in fixed or mobile configurations. The family includes 3 radar types: short-range, medium-range and long-range.

FEATURES

- Operates 24/365 under all weather conditions
- Automatic detection and tracking of more than 500 targets
- High range accuracy and resolution
- Classification by accurate range signature
- PC-based Control Unit and friendly MMI
- Operation:
 - Remote controlled or local operation
 - Cluster of radars operated from CCC console
- Lightweight and low power consumption
- High reliability and advanced Built-In-Test (BIT)
- Interoperability with additional sensors, (i.e. Electro-Optical, CSM/DF, ESM, AIS, etc.)
- Optional capabilities:
 - Monopulse for high azimuth accuracy
 - Inverse Synthetic Aperture Radar (ISAR) for target classification

SPECIFICATIONS

- LFMCW solid state radar: 5W, (50W optional)
- Frequency: X Band
- Detection ranges (sea state 3):
 - Rubber boat: > 20 km
 - Patrol craft: > 60 km
 - Large ships: up to horizon
- Azimuth beamwidth - 1.5°
- Elevation beamwidth - 3.5°

APPLICATIONS

- Prevention of illegal immigration and drug smuggling
- Maritime traffic control
- Prevention of illegal fishing
- Prevention of terrorist activities
- Detection of submarine periscope and radar antenna
- Detection of airborne targets within the radar's main beam

SYSTEM CONFIGURATION

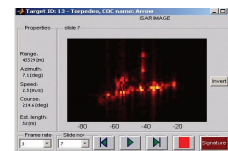
- Lightweight antenna assembly including - pedestal/turntable
- Main electronic units: RF front-end, transmitter, receiver, signal processor and controller
- PC-Based - control and display unit



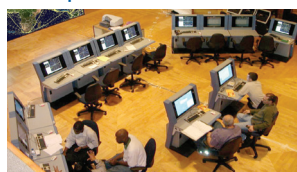
MCSS - Mobile Coastal Surveillance System



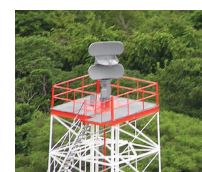
Operation Station



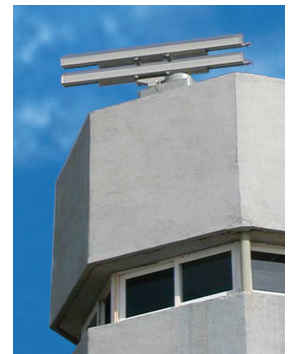
ISAR Image



Command & Control Center



Fixed Coastal Station



Short Range Radar

