

ACSR

ADVANCED COASTAL SURVILLANCE RADAR FAMILY

■ ELM-2226



When Results Matter

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General

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

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

When Results Matter

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

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°

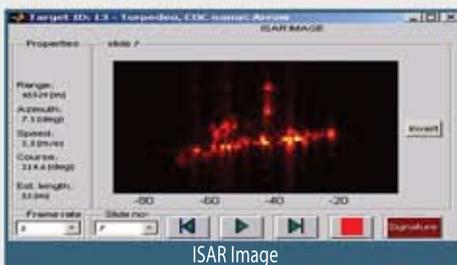
Elevation beamwidth: 3.5°



MCSS - Mobile Coastal Surveillance System



Operation Station



ISAR Image



Short Range Radar



Fixed Coastal Station



Command & Control Center



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