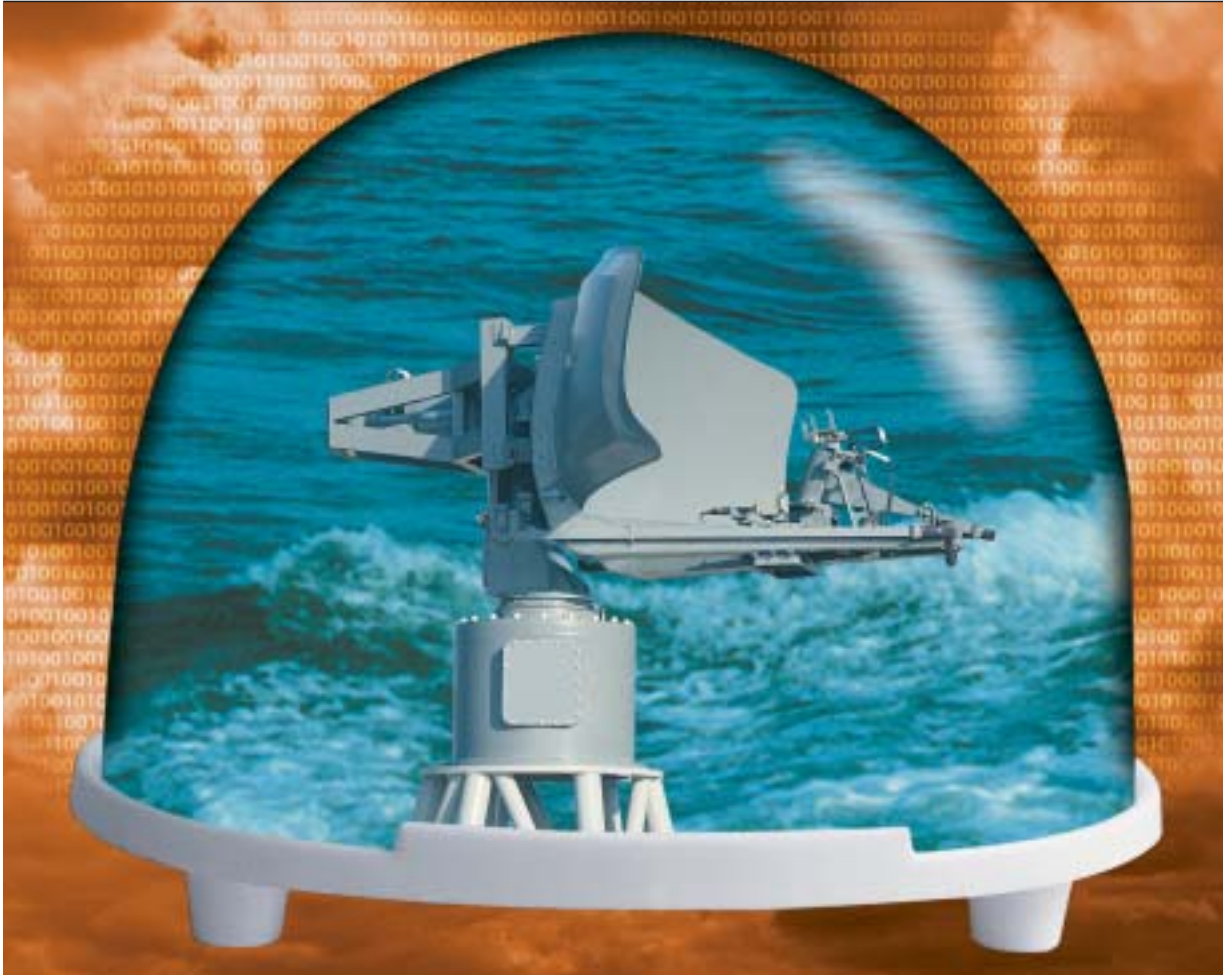


## Surveillance & Gunnery Radar System - SGRS

**EL/M-2228X**



### General

#### The Patrol Craft Solution

Naval forces need a rapid patrol craft response to guard fishing zones, prevent piracy and perform additional coast guard roles. The demand for a medium range surveillance radar with fire control capabilities against surface targets has now been met by ELTA's Surveillance and Gunnery Radar System (SGRS).

The SGRS is a lightweight fully coherent Pulse Doppler, multimode X-band search radar. It is capable of performing accurate gunnery spotting while searching for surface targets.

The SGRS is a very cost-effective solution for:

- Small and medium size ships - serving as the Search and Fire Control Radar
- Large ships - serving as a complementary and backup system for Long-Range Radar and Fire Control Radar
- Coastal radar stations

An IFF subsystem may be incorporated as an option.

High power transmitter can be added as an option if extended detection range is required

### Features

- Coherent Pulse Doppler
- Simultaneous air and surface surveillance
- Accurate splash spotting while scan
- Automatic threat alert capability
- Sophisticated Track-While-Scan (TWS)
- Digital and analog Video
- Advanced programmable signal processing
- Powerful data processing
- Extensive Built In Test (BIT)
- Variety of interface capabilities

# Surveillance & Gunnery Radar System - SGRS

## Operational Capabilities

The SGRS provides outstanding surface target detection and extremely accurate tracking and splash spotting. It also performs medium range detection and tracking of air targets.

## Specifications

Frequency:	X-Band
Range coverage:	Instrumented 100 Km
Transmitter type:	TWT
Antenna type:	cosec <sup>2</sup> up to 30° in EL
Scan rate:	12 or 24 RPM
Stabilization:	20° roll & pitch
Total weight above deck:	237 Kg
Total weight below deck:	310 Kg (650 Kg)*
Power consumption:	8 KVA (16 KVA)*

## Typical performance

- Fighter aircraft detection at 50 Km (75 Km)\*
- Surface target detection up to radar horizon
- Track-While-Scan of 100 air targets and 400 surface targets
- Splash Measurement Accuracy: 2.5 mrad, 10m



Radar System Unit Below Deck

\* High power option



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INTELLIGENCE,  
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RECONNAISSANCE

EARLY WARNING  
& CONTROL

DEFENCE  
& SELF-PROTECTION

TARGET ACQUISITION  
& FIRE CONTROL