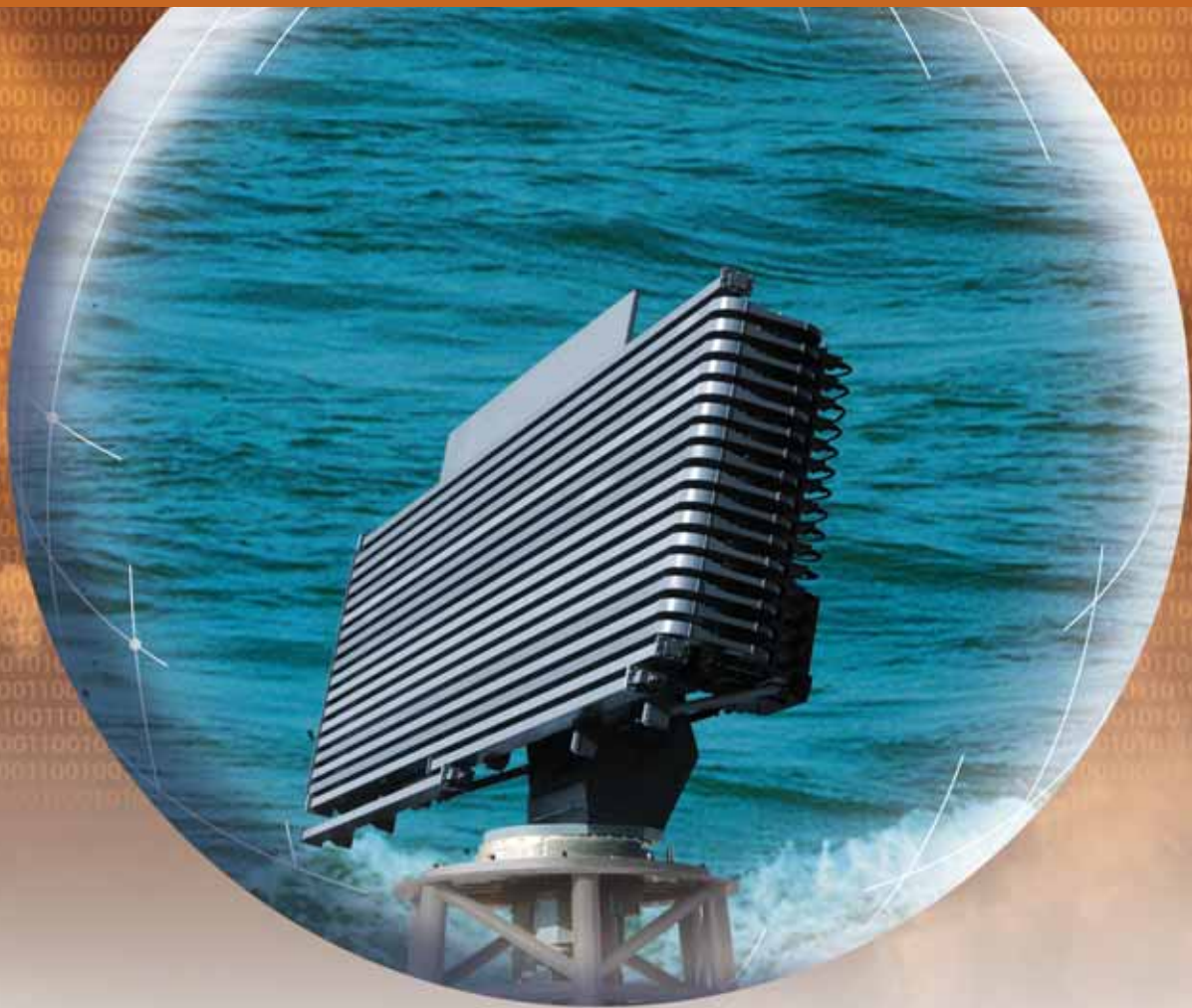


Surveillance & Threat Alert Radar - STAR ■ EL/M-2238



■ TARGET ACQUISITION & FIRE CONTROL

General

The 3D-STAR is a multi-purpose, modern naval radar system, representing superior performance capabilities in surface and air search as well as threat alert. The STAR is particularly well suited to supporting the operations of Anti-Air Missile (AAM) weapon systems and is also capable of supporting surface gunnery engagements through a unique splash-spotting capability.

The STAR is a fully coherent S-band pulse Doppler 3D multibeam and multimode search radar. The radar performs long range air surveillance combined with surface surveillance and, at the same time, provides fast detection and automatic threat alert of air targets with an extremely low false alarm rate. The STAR provides excellent designation to fire control systems engaged in anti-air warfare as well as surface gunnery.

The STAR, with its superior tracking capability of surface and air targets, is the most cost-effective solution for medium-size ships (Corvette-Frigate), serving as the surface/air search radar, in addition to its threat alert and surface gunnery support roles.

The STAR's azimuth and elevation track accuracy and its high update rate, make it an excellent designator for anti-air & anti-missile weapon systems and for ECM or chaff dispensing systems.

Operational Capabilities

The STAR provides long range detection, high quality missile detection and designation, automatic threat alert, track while scan of air and surface targets and high spatial resolution and accuracy.

Radar Configurations

The STAR is available in three antenna configurations: Small (marked as Light-STAR), Medium and Large (marked as STAR Extended-Range).

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Features

- Pulse Doppler Detection of Air & Surface Targets
- Concurrent and Independent Air and Surface channels
- 3D Elevation Coverage with Digital Beam Forming
- Automatic Track-While-Scan (TWS) of multiple air and surface targets
- Very Low False Alarm Rate
- IFF Correlation
- Advanced Programmable Signal Processing
- Powerful Data Processing
- Extensive Built-In-Test (BIT)
- Automatic Designation to Ship's Systems
- Variety of Interface Capabilities

Specifications

Antenna:	Small	Medium	Large
Frequency:	←----- S-Band ----->		
Stabilization:	←----- 20° roll and pitch ----->		
Below deck weight:	1300 Kg	1300 Kg	1500 Kg
Above deck weight:	700 Kg	840 Kg	2000 Kg
Antenna aperture:	2.6m x 1.0m	4.0m x 1.0m	4.0m x 2.0m
Power consumption:	20 KVA	21 KVA	34 KVA



Radar System Units Below Deck

Typical Range Performance

Antenna:	Small	Medium	Large
Instrumented Range:	200 Km	250 Km	350 Km
Fighter aircraft detection:	150 Km	200 Km	250 Km
Automatic threat alert for attacking missile:	20 Km	25 Km	28 Km
Surface detection:	←----- Radar horizon ----->		

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