



FULLY SOLID STATE, PULSE COMPRESSION, COHERENT RADAR

## General Features

- Doppler processing
- Adaptive STC
- Software Defined Functionality
- Integrated BITE system
- Specially designed for High Speed Craft applications



**Sea Eagle-50/RD** belongs to a new generation of solid state radar specially designed for naval applications. The radar sensor is a pulse compressed X-band transceiver. A sophisticated anti clutter rejection achieved by using video and Doppler processing is an embedded feature allowing the detection of small targets.



# SEA EAGLE-50/RD

## FULLY SOLID STATE RADAR

• Frequencies	Programmable within 9300=9500 MHz
• Transmission Power	50 W (Peak)
• Sector Blanking	User defined – up to 10
• Periodic Maintenance	Not necessary due to absence of limited life parts (e.g. magnetron)

## RECEIVER

• Sensitivity	< -122dbm
• OverAll Noise Figure	< 5.5dB
• Dynamic Range	100 dB
• Receiver Bandwidth	20 MHz
• Converter (at IF)	Dual 16 bit ADC

## ENVIRONMENTAL FEATURES

• Operating temperature	-25° C ÷ +55° C
• Storage temperature	-30° C ÷ +70° C
• Damp heat	93% relative humidity @ 40°C
• Salt Fog	IEC 60945 8.12
• Vibrations	IEC 60945 8.7
• Shock	IEC 62388 (antenna only)
• EMC / EMI	IEC 60945 9 & 10

## RANGE SCALE

Range (NM)	0.0625	0.125	0.25	0.5	0.75	1.5	3	6	12	24	48
RI (NM)	0.03125	0.0625	0.125	0.125	0.125	0.25	0.5	1	2	4	8
Number of rings	2		4		6						

## TRACKER

• ARPA targets	Up to 200
----------------	-----------

## ANTENNA SYSTEMS

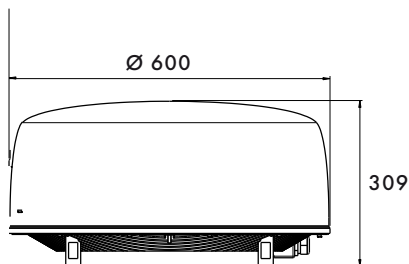
• Type	Slotted waveguide array
• Azimuth Main Beam	≤ 4°
• Elevation Main Beam	≤ 25°
• Rotating Rate	22 RPM

## DISPLAY

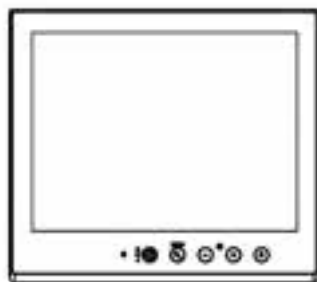
• 15" color touchscreen panel pc (other display sizes available upon request)
• Radar Keyboard

## INTERFACES

• Ethernet, RS232, RS422
• ASCII, NMEA
• Radar video distribution via Wi-Fi link (optional)



Estimated Weight: 19.5 Kg



Estimated Weight: 6.8 Kg

