SEAEAGLE-350/12/S







Ultra low noise, compact radar sensor.

Specially designed for different applications.

The SEA EAGLE-350/12/S is the newest antenna systems featuring S band 400W solid state transmitter and full coherent transceiver, based on the most updated video and graphic processing techniques; its most outstanding feature, anyway, is the use of a coherent transceiver, strongly increasing the detection capability of small targets in severe environmental conditions.

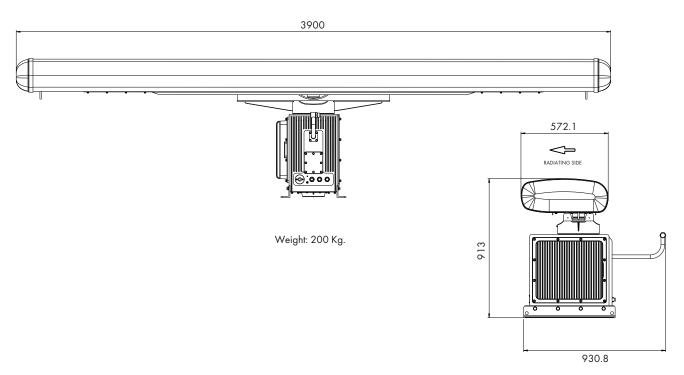
SEAEAGLE-350/12/S

ARRAY MODEL	12 feet	
Туре	Slotted waveguide array	
Frequency band	2900 ÷ 3100 MHz	
Polarization	Horizontal	
Horizontal beamwidth	1.9° ± 0.1°	
Vertical beamwidth	25° ± 10%	
Gain	≥ 27 dBi	
SLL within @ ± 10°	≤ 26 dB	
beyond@±10°	≤ 30 dB	
Rotation speed	16 ± 2 r.p.m. or 22 ± 2 r.p.m. (according to the operation mode)	
Tolerable relative wind speed: 100 knots (operative) – 120 knots (non operative)		

ENVIRONMENTAL PERFORMANCES		
Operating temperature range:	From -25°C to + 55°C (external units) From -15° to + 55° C (internal units)	
Relative humidity:	93% at + 40° C	
Storage temperature range:	From -40°C to +70°C	
Tolerable Vibrations:	In accordance with IEC-60945 ed. 4 par. 8.7	
Shocks:	in accordance with IEC-62388 ed.2 par. 17.3	
Salt environment:	In accordance with IEC-60945 ed.4 par. 8.12	
EMI:	In accordance with IEC 60945 ed.4 par. 9 and 10	



TRANSCEIVER UNIT PERFORMANCE	
Transmitter type:	multi-stage solid
Peak power:	400 W (nominal)
Average power:	depending on mode, up to 40 W
RF spectrum occupation:	compliance with IMO/ITU rules
Selectable frequencies:	арргох. б
Receiver:	coherent linear
Noise figure:	< 4 dB
IF frequency:	75 MHz
Receiver bandwidth:	20 MHz
Dynamic range:	104 dB (excluding compression gain)
Waveform generator:	direct digital synthesizer
Minimum range:	40 m
Instrumental ranges:	from 0.25 nmi up to 96 nmi
PRF:	from 500 to 2400 Hz
Pulse widths:	from 0.07 to 25 µs
Main supply:	220/115 Vac, 50/60 Hz
Reliability:	> 50000 hours
Availability:	99,995%
Maintenance:	major parts to be replaceable on field
	without calibration
Diagnostic:	BITE, including but not limited to Tx
	power and receiver parameters and
	system status indication (Tx/Rx on,
	Ready to transmit / Transmitting, Pulse
	length selected indication)
Interfaces:	Ethernet





This brochure should not be considered a contractual offer. The specifications given herein may be changed by the manufacturer, GEM elettronica, without notice.



