IMO Approved

New HALO® 5000

HALO 5000 provides commercial users with superior situational awareness, reduced ownership cost and flexible installation.

HALO's modular design integrates seamlessly with our R5000 range, allowing the sensor to slot easily into your existing system, with full IMO/SOLAS compliance.

Superior Situational Awareness

The 130W pulse compression solid-state radar boasts superb visibility in all conditions. Cutting-edge Target Tracking allows users to automatically monitor thousands of radar targets within a 24NM zone.

Lower Cost

As a solid-state radar sensor, HALO 5000 boasts significantly lower cost of ownership than traditional magnetron radars. The state-of-the-art, compact design and simplified connectors ensure reliability, availability, and serviceability throughout its lifespan.

Broad Compatibility

HALO 5000's modular design allows it to slot seamlessly into existing R5000 systems. And now – for the first time – it is available in both 4-foot and 6-foot antenna designs.

Features

130W X-band Pulse Compression Radar Sensors.

Range up to 48NM.

Fully IMO/SOLAS Compliant.

Lightweight 4-foot and 6-foot Antenna Options.

Built-in Advanced Radar Performance Monitor.

Instantaneously displays tracking data for up to 100 radar targets.

Selectable 22 or 44 RPM Antenna Speeds.

24VDC or 110-230 VAC 50 Hz Power Supply.

High-Grade Gearbox for Wind Speed up to 100 knots.

Antenna Park Hold.

Specifications

HALO 5000	X- BAND	
Antenna type	End-fed-slotted wave guide	
Polarization	Horizontal	
Antenna Length (ft)	4ft	6ft
Swing circle (mm)	1443	2047
Gain (dB)	≥ 27	≥ 29
Horizontal beam width at -3dB	1.8°	1.2°
Vertical beam width at -3dB	25°	25°
Rotation speed (RPM): - Standard - HSC	 > 20 and > 40 > 40	
Transceiver technology	Solid state pulse compression	
Nominal peak power (W)	130	
Operating Frequency (MHz)	Synthesized – Upper half of X-Band 9.390 – 9.495	
Pulse length, PRF and Compression rate:	Pulse length: 0.04 µsec Chirp length: 2÷64 µsec Chirp bandwidth: 2÷48 MHz Effective pulse compression ratio less than 150	
IF section	Center frequency: 31.25 MHz Bandwidth: 50 MHz max. A/D; 16 bit 125 MSPS	
Overall Noise Figure (nominal dB):	< 5 dB nominal	
Instrumented Range (Nm)	48	
SART/RACON Triggering	Yes – about 3.5 Nm max	
Stand-by to working status time interval	40 seconds	
Sector Blanking	Four different sectors	
Performance Monitor	Included	
De-Icer	Not Available	

Support

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