



HENSOLDT SBS-800 Coherent Sensor System

The Kelvin Hughes Surveillance radar solutions for shore based applications have been specifically developed to meet the stringent operational requirements of port, harbour and river traffic operators as well as government agencies responsible for the protection of the coastal and littoral zones

SBS - 800 SharpEye™

The SBS-800 family is configured to provide an upmast ultra-high reliability system. The superior performance and reliability is achieved with the solid state electronics and patented technology of a SharpEye™ transceiver. The four product configurations available provide the system integrator with a standardised cost effective radar sensor solution optimised for the specific requirements of a coastal surveillance system or a VTS system as defined in IALA Guidelines.

Features

- Solid State Transceiver
- Fully Coherent Doppler radar
- Self-contained upmast solution
- Industry standard digital Open Architecture
- Low maintenance

Benefits

- High Reliability and MTBF
- Advance clutter processing and small target detection
- Ease of installation
- Ease of integration and future capability increments. Full BITE capability
- Low through life costs

SBS-800 Coherent Sensor

Description

The SBS-800 variants are configured as a single upmast transceiver with the SharpEye™ sensor integrated in to the antenna turning unit so removing any need for a downmast housing.

SharpEye™ transceivers are fully coherent providing greater capability and situational awareness through digital pulse compression and pulse Doppler processing.

The SBS-800-3 includes frequency diversity for enhanced clutter reduction and small target detection. The availability of multiple frequency channels provides excellent interoperability with other radars located in the vicinity of the installation.

Applications		
Vessel Traffic Services	Ports	Harbours
Coastlines	Oil and LNG Terminals	Oil & Gas Platforms
Offshore Wind Farms	Security & Surveillance	Estuary & Riverine Trade Routes
Our Services		
Project Management	Radar Trials Delivery	Integrated Logistics Support
Spares & Support	Training	Incremental Capability

The four variants are configured as a single upmast transceiver with the SharpEye™ sensor integrated in to the antenna turning unit so reducing the downmast housing requirements and improving the system performance.

Specification				
	SBS-800-1	SBS-800-2	SBS-800-3 FREQUENCY DIVERSITY	SBS-800-51
Band	X-Band	X-Band	X-Band	S-Band
Operating Frequency	9.21 - 9.49 GHz	9.21 - 9.49 GHz	9.21 - 9.49 GHz	2.92 - 3.08 GHz
Channels Peak Power	300 Watts	300 Watts	300 Watts	200 Watts
Maximum Instrumented Range	48NM (Optional 96NM)	48NM (Optional 96NM)	48NM (Optional 96NM)	48NM
Minimum Range	≤50m	≤50m	≤50m	≤50m
Range Cell Size	7.5m & 15m	7.5m & 15m	7.5m & 15m	15m
Blanking Sectors	Up to 4 sectors	Up to 4 sectors	Up to 4 sectors	Up to 4 sectors
Antenna Size	3.7m (12')	5.5m (18')	5.5m (18')	3.9m (13')
Antenna Gain	32.5 dB	34.5 dB	34.5 dB	28dB
Polarisation	Horizontal	Horizontal	Horizontal	Horizontal
Upmast Weight	150kgs	160kgs	160kgs	190kgs
Output data & Control	Asterix CAT240 & CAT253	Asterix CAT240 & CAT253	Asterix CAT240 & CAT253	Asterix CAT240 & CAT253

All parameters are nominal and indicative based on a typical radar configuration.