



# Kelvin Hughes Mk5 SharpEye™ Naval Radar Sensor

## High Performance Radar Technology

The Mk5 SharpEye is an extremely reliable, high performance X Band Doppler radar system ideally suited to marine navigation, collision avoidance and situational awareness. The Mk5 SharpEye includes the Kelvin Hughes maintenance free, state-of-the-art, solid state SharpEye transceiver.

The Mk5 SharpEye is an entry-level Naval product, typically aimed at Inshore Patrol Vessels (IPVs), Coastguard or Marine Protection vessels with a displacement of less than 150 tons.

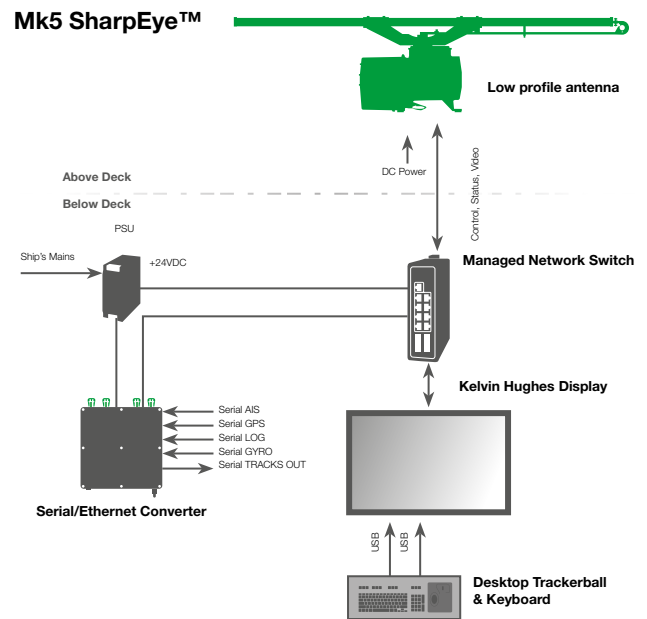
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## High Performance Radar Technology



The Mk5 SharpEye™ offers the following key features:

- Enhanced Doppler processing used to optimise small target detection in clutter
- Target detection and range discrimination maintained over the full instrumented range
- Patented pulse transmission patterns
- Supports Naval Tactical features such as selectable transmit frequency, low power mode and sector transmission
- Radar video and control output via Gigabit LAN
- Full BITE and status reporting
- Open architecture interfaces – providing ease of Integration
- Waterproof to IPx6
- Designed to withstand shock and vibration levels found on patrol craft
- Low maintenance
- High reliability solid state transceiver
- Designed to be Wheel Marked/Type Approved to Marine Equipment Directive (96/98/C)
- Operation from +24V DC supply (option for 110/230V AC available)



### Technical data

Specification	
Operating frequency	9.2GHz-9.5GHz
Number of user selectable channels	14
Operating voltage	+24V DC nominal (110/220V AC via KH AC/DC converter)
Power consumption	<500W
Rotation rate	12, 21 and 42 RPM available
Control interface	Asterix CAT 253 Protocol
Weight	47kg (including 1.9m KH LPA antenna)
Colour	White (RAL 9003) or Grey (RAL 7001)
Antenna	Antenna 1.9m low profile (1.3m available)

Performance	
Peak power	80W nominal
Duty cycle	Up to 13%
Pulse compression ratio	400:1 (long pulse) Compressed pulse width 100ns (export licence required)
Minimum range	Less than 50m
Range cell size	15 metres (export licence required)
Instrumented range	Up to 24Nm

## Contact

**HENSOLDT UK**  
Voltage, Mollison Avenue,  
Enfield EN3 7XQ UK  
T: +44 (0)1992 805 200  
www.uk.hensoldt.net

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