SEA WATCHER 100
Active phased array radar for naval defence
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SEA WATCHER 100 is a surveillance radar optimised for automatic detection of a wide variety of surface threats. The radar can even detect extremely small asymmetric targets, such as periscopes and mines, under severe conditions and in a littoral environment. Featuring a single “all in one” mode, the Sea Watcher 100 is easy to operate, enabling the operator to concentrate on the operational picture.

• State of the art phased array technology with graceful degradation
• Detection of small surface targets such as floating mines and periscopes
• Helicopter approach capability
• Single mode operation
• Fits seamlessly in Integrated Mast concepts

MAIN FEATURES
• X-band (I/J) active phased array radar for all weather surface surveillance in a four-face configuration
• 360 degrees unblocked surface coverage
• An exceptionally high degree of automation allowing the operator to focus on the operational picture
• Designed for operation in highly cluttered littoral environments
• Dedicated detection and tracking algorithms for small asymmetric threats such as mines and periscopes
• High MTBCF through extensive use of graceful degradation

FUNCTIONAL ASPECTS
• Surface surveillance
• Asymmetric surface target detection
• Helicopter guidance support

TECHNICAL DATA
• Operation in X-band (I/J)
• Range 80 m - 40 km
• Asymmetric surface target detection
• Range cell size down to 7.5 m
• Update rate down to 1 sec

INSTALLATION AND MAINTENANCE

Sea Watcher 100 is easily installed while integrated in the deckhouse and is ideally suited for installation in an integrated mast structure. It has been designed for easy accessibility to be maintained from within the mast or deckhouse thus reducing the MTTR and limiting the exposure of crew members to outside hazards.

The solid state active phased array architecture offers graceful degradation and a very high MTBCF. Integrated Built-In Test is used for performance reporting, fault reporting and fault isolation.