



PASSIVE LITTORAL SURVEILLANCE SYSTEM

Enabling naval and coastguard assets to covertly monitor open waters.

THE REQUIREMENT

Patrolling exclusive economic zones (EEZ) is of critical importance to maritime nations. Fishing stocks and undersea wealth need to be protected from illegal operations. This ensures that revenue is not lost, that local legal operators do not lose their livelihoods and stocks are preserved for the future. At the same time, naval and coastguard assets must also be used for detecting and catching smugglers of contraband, people, drugs or weapons, and for monitoring the ever-present threat of maritime terrorism.

THE SOLUTION

PALS operates well outside the radar detection range of vessels under surveillance. Using specially developed enhanced emitter identification (EEI) algorithms, PALS examines the radar signature of those vessels to reveal its unique characteristics and, from this, the vessel that it is fitted to. Using a library of contact information the user will be able to locate a vessel and identify whether it is known or unknown. This vastly improves situational awareness of the sea-space and enhances the ability of the Commander to identify vessels engaged in illegal activity.

KEY BENEFITS

- Improved operational efficiency
- Better use of assets and resources
- Increased revenue
- Better protection of Exclusive Economic Zones resources

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INCREASED OPERATIONAL EFFECTIVENESS

Radar in itself does not provide information as to the type or identity of the vessels tracked. However, PALS can determine which vessels are known or of interest.

The Commander can then decide which vessels should be identified, intercepted and boarded. This allows the Commander to better judge which direction to head for the most effective use of the ship or aircraft's time.

USER-FRIENDLY

The man machine interface is simple to use and includes fully automated settings with visual and audio aids. A trained operator can use the system to its full potential whilst still performing other tasks.

IMPROVED OVERALL EFFICIENCY

PALS will assist patrol forces in using their assets more effectively, both strategically and tactically. It will increase operational tempo without increasing the need for more assets or deployed time. This will reduce crew fatigue and deployment costs. Planning staff will have a better picture of civilian vessel operation patterns in the EEZ, all of which will lead to enhanced strategic planning of patrol asset deployment.

PERSISTENT CAPABILITY ON A UAV SYSTEM

PALS can be installed on to an unmanned aerial vehicle (UAV) platform to provide a tireless and persistent surveillance system. Allied with powerful electro-optical sensors, covert visual identification of detected targets can be made.



PALS - improving situational awareness of the sea-space



PALS operators display



PALS receiver processor and antenna set

For more information please email sales.marketing@selexgalileo.com

SELEX Galileo Ltd, A Finmeccanica Company

300 Capability Green, Luton, Bedfordshire, LU1 3PG, United Kingdom, Tel: +44 (0)1582 886 000, Fax: +44 (0)1582 795 900

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