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Ship fire prevention 24/7: E-Nav presents SEW, the hi-tech thermal guardian

Nicola Capuzzo · Friday, October 11th, 2024

— ADVERTORIAL —

In the world of boating, one threat is often underestimated: that of fires on board. **E-Nav**, a leading company in the supply of solutions, products and services for [marine electronics](#), and [electronic navigation instruments](#), responds to this challenge with SEW (Safety Early Warning), an **innovative system for fire prevention**.

SEW has been designed and perfected by [E-Nav](#) in years of **intensive development and on-site beta testing facilities**. As the acronym SEW (Safety Early Warning) suggests, its added value is the predictive function, an aspect too often overlooked in ship safety.

SEW is a cutting-edge system for **measuring and controlling temperature**, using industrial thermal cameras. It is designed for all those critical situations where temperature changes are a symptom of malfunction and can cause even large fires.

Fires in the maritime sector are on the rise.

In recent years, the maritime sector has seen a **worrying increase in fires on board vessels**. These accidents have caused significant losses, both in terms of human lives and property damage, representing one of the main causes of accidents in the sector.

This alarming trend is fuelled by several factors. The increasing size of modern ships has made on-board fire management more complex. In addition, the frequent misdeclaration of dangerous goods continues to pose a significant risk.

But it is the growing use of **lithium batteries** that is particularly worrying. With the global lithium-ion battery market expanding rapidly, the risk of fire related to this technology is set to increase further in the coming years.

Advanced thermal analysis and multi-level alarms always active against fires.

SEW focuses on monitoring these critical points. The heart of the SEW system is a sophisticated network of **high-precision industrial marine thermal cameras** that, strategically positioned at critical points, create an ever-active thermal surveillance network.

Connected to a central processing unit equipped with **state-of-the-art software**, these cameras continuously **analyze the thermal data in real time**, interpreting every small change in temperature with an accuracy far beyond human capabilities.

Designed specifically for monitoring the charging phases of lithium batteries for marine use, SEW includes a series of integrations with safety, automation and navigation systems already present on board. Its flexibility and the number of functions make it applicable also in the civil field, where a **constant monitoring (24 hours a day, 365 days a year)** of the working conditions of machines and electrical panels is necessary.

The user interface, intuitive and immediately understandable, allows to **view in real time the thermal map** of the entire monitored area, both on dedicated screens and on mobile devices. This democratization of thermal information allows a collective awareness of potential risks, actively involving all staff in the prevention of accidents.

But SEW goes beyond monitoring. In case of anomalies, it **automatically takes action** quickly and precisely. It can launch targeted alerts, trigger alarms at multiple severity levels and, if necessary, For example, if a component such as a lithium battery starts to overheat dangerously, the system will detect it immediately and can activate preventive measures, Directly intervening to deenergize the users in alert also through on-board automation. Avoiding potential fires or failures.

An always-on-alert help for the crew.

SEW is not about replacing staff, but about increasing their skills. Operating **24 hours a day, 7 days a week**, this system is designed to work in synergy with the man. **Even when staff are not present**, SEW remains vigilant, ready to detect and respond to any potential thermal threat.

This hybrid solution is designed to give the peace of mind of safety managers, project managers, shipowners, surveyors or skippers: in case of anomalies, the **system immediately intervenes and/or alerts the crew**, providing accurate, real-time data to support fast and informed decisions.

The temperature control system of E-Nav is the result of an **intensive phase of testing and improvement in the field**. Beta systems have been installed on different types of boats, operating in real conditions and subjected to the daily challenges of navigation.

The mature and proven product was **presented at the Monaco Yacht Show 2024**, an international showcase that offered the perfect opportunity to demonstrate the system's capabilities live.

Contact E-Nav for a fire prevention system tailored to your boat.

E-Nav, expert in [systems for yacht](#), combining cutting-edge technology, field experience and a hybrid man-machine approach, offers with SEW a solution that not only responds to current challenges but also anticipates future ones. In an age where safety can no longer be left to chance, SEW is a reliable partner for anyone who cares about the protection of boats and, above all, human lives.

SEW is a tailor-made system for every boat: contact E-Nav for a personal consultation and a demonstration of SEW.

Tel. +39 0541 830989

E-mail: info@nav.it

<https://www.e-nav.it/en/>



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