

Intelligent Monitoring for Offshore Oil Leak Detection



HOW IT WORKS

ALTAVE has developed an **advanced intelligent monitoring** system using elongated and aerodynamic tethered aerostats. Equipped with **optical and thermal cameras**, these aerostats can be elevated up to 200 meters, offering a privileged view with a **detection radius of up to 10 km**. The system is installed on Oil Spill Response Vessels (OSRVs), transmitting **real-time images** and sending **instant alerts** upon detecting a spill.

DATA TRANSFORMED INTO INTELLIGENCE

The captured images are processed by **AI algorithms** that identify anomalies on the water surface indicative of oil leaks. The HARPIA platform compiles this data into an **intuitive dashboard**, generating **automatic reports** with crucial information about the location, extent, and spread of oil slicks. These reports serve as **evidence of regulatory compliance**, essential for maintaining operating licenses.



IMPROVED OPERATIONAL EFFICIENCY

The system optimizes the allocation of containment and cleanup resources, **reducing operational costs and downtime**. Integration with other platforms facilitates a **coordinated response**, improving synergy between teams. The collected data contributes to the **continuous improvement of safety** and prevention protocols, aligning operations with the best practices required by regulatory agencies.

ENHANCED SAFETY

Early and accurate leak detection allows for a rapid response, minimizing environmental damage and risks to marine fauna and flora. With a **90-day autonomy** without gas exchange, the system offers **continuous monitoring**, overcoming limitations of manual surveillance and reducing the risk of undetected incidents. This not only protects the environment but also helps **avoid billion-dollar fines** and potential operational shutdowns by regulatory agencies.



BRING YOUR COMPANY TO THE FUTURE OF OCCUPATIONAL SAFETY

- ✓ **24/7 support** throughout the entire project lifecycle
- ✓ **Installation** included
- ✓ **Seamless integration** with existing hardware
- ✓ **High flexibility and customization**
- ✓ **Continuous evolution** with alerts validation
- ✓ Technology present on five continents and **trusted by innovation leaders**

For more information, contact our sales representatives: sales@altave.com.br

