

## AI Oil Spill Detection

Ventionex's AI-powered oil spill detection system utilizes thermal-based video analytics to continuously monitor offshore and marine environments for early signs of oil spills and surface anomalies. Powered by advanced artificial intelligence and deep learning, the system accurately distinguishes oil from natural surface movements such as waves, reflections, and shadows—minimizing false alarms. Designed for integration with explosion-proof cameras, it operates reliably in hazardous conditions, day or night. The solution provides instant alerts and automated workflows, enabling rapid response and supporting compliance with environmental regulations—making it ideal for offshore platforms, ports, marine terminals, and coastal facilities.



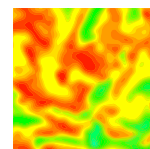
### Real time Oil Spill Detection

Detects and identifies oil slicks on water surfaces in real time using AI-powered video analytics, reducing reliance on manual surveillance.



### High Detection Accuracy

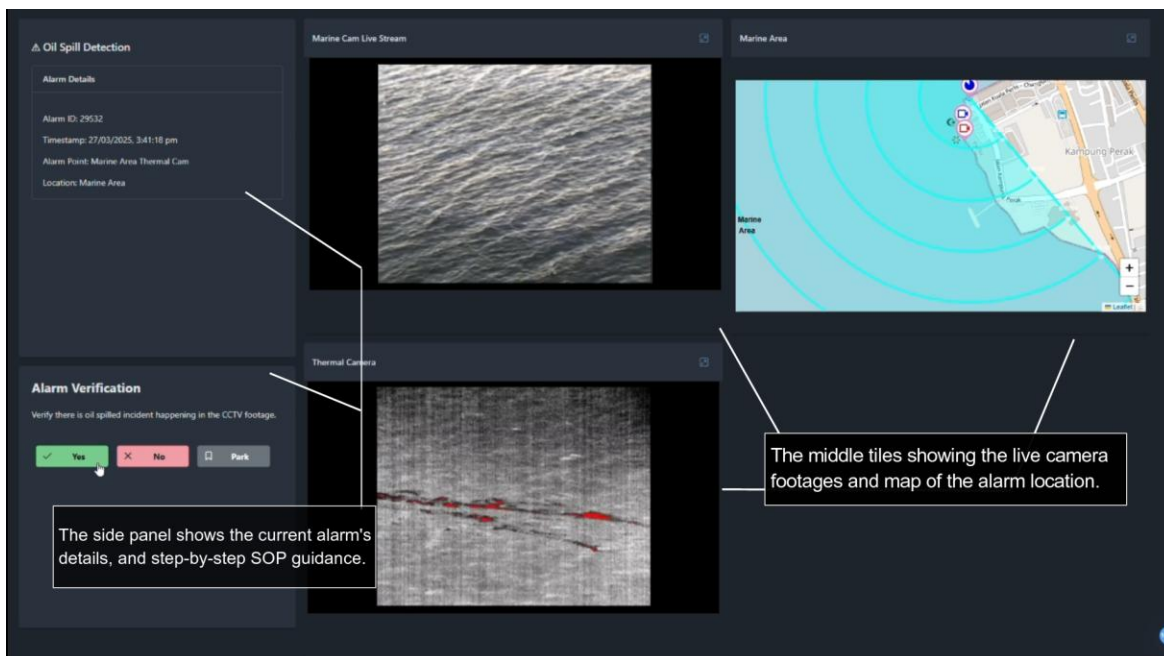
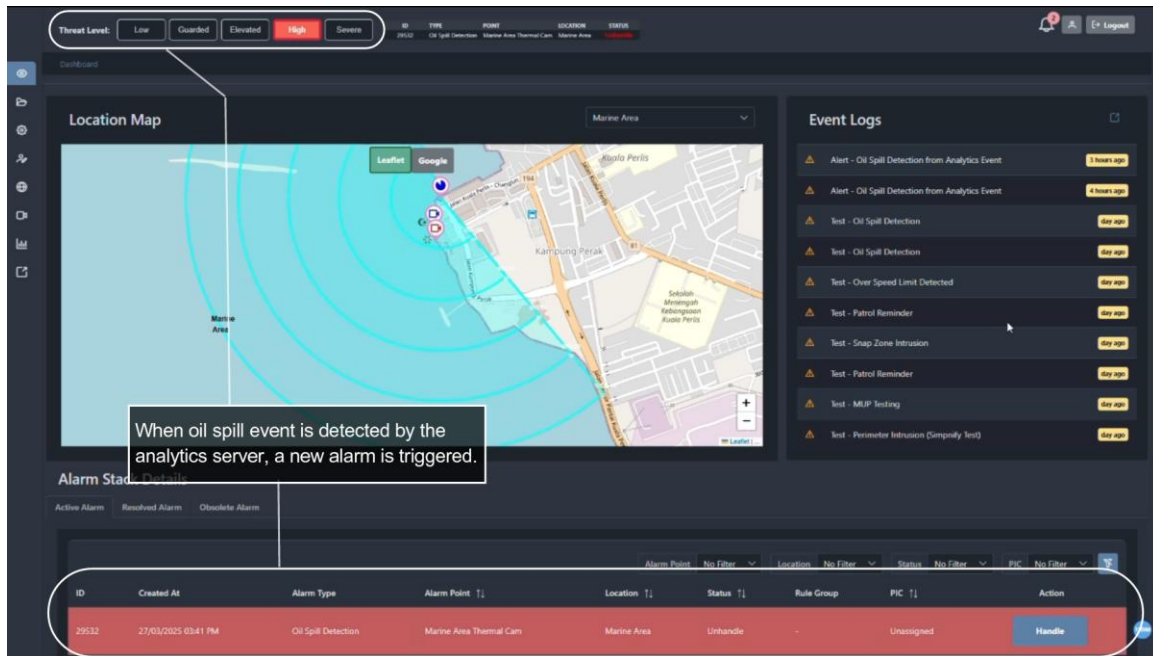
Utilizes AI trained on diverse datasets to distinguish oil from natural patterns, ensuring high detection accuracy even in complex environments.



### Thermal-Based Detection

Utilizes thermal imaging exclusively to detect oil spills by identifying temperature differences on the water surface, ensuring reliable detection even in low-light or night-time conditions.

## Reference user interfaces of our unified platform AI Oil Spill Detection:





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