PEARSONLIVE

Maritime Territorial Awareness System

Surveillance Maritime Territorial System

PearsonLive Surveillance Maritime Territorial System is a sophisticated monitoring solution designed to improve maritime territorial awareness in Indonesia and its neighboring areas.

Monitoring, Sensor, Alert/Anomaly

Pearsonlive is a comprehensive maritime monitoring system that plays a crucial role in overseeing territorial waters and adjacent regions. With its continuous surveillance capabilities, it maintains an ongoing watch over maritime areas, protecting against potential threats or unusual activities. Additionally, Pearsonlive can track vessel movements historically for up to 30 days, allowing for retrospective analysis that is essential for detecting patterns, trends, and anomalies in maritime activities.

What distinguishes Pearsonlive is its proactive stance on maritime security. The system is equipped with advanced features for anomaly detection and alerts, enabling it to quickly identify deviations from typical vessel behavior through behavioral analysis. This functionality allows authorities to be promptly notified of any abnormal activities, facilitating swift responses and threat mitigation.

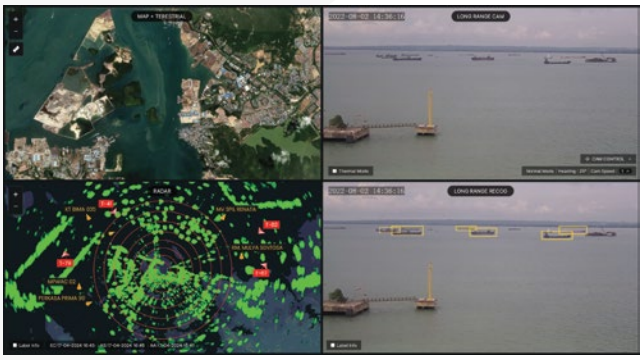
Furthermore, Pearsonlive utilizes analytical modeling to generate quantitative risk scores for vessels, aiding in the accurate identification of high-risk entities. This capability enables authorities to prioritize their monitoring efforts and take preventive actions to enhance maritime safety and security. In summary, Pearsonlive is more than just a monitoring tool; it is an all-encompassing resource that significantly improves maritime awareness, security, and decision-making processes.

Pearsonlive, a powerful maritime monitoring system, provides a variety of significant advantages:

1. Continuous Surveillance: Pearsonlive guarantees uninterrupted oversight of territorial waters and adjacent areas. It serves as a vigilant protector against potential threats and irregular activities, thereby enhancing maritime security.
2. Historical Analysis: The system's capability to track vessel movements for up to 30 days in the past is an invaluable feature. This historical data aids in recognizing patterns, trends, and anomalies in vessel behavior, contributing to thorough maritime analysis.
3. Proactive Security: Pearsonlive is distinguished by its proactive approach to maritime safety. With advanced anomaly detection and alert functionalities, it quickly identifies deviations from typical vessel operations. This proactive method enables rapid responses to unusual activities, effectively mitigating potential threats.
4. Quantitative Risk Assessment: The system employs analytical modeling to assign quantitative risk scores to vessels. This detailed risk evaluation allows authorities to prioritize their monitoring efforts on high-risk vessels and implement proactive measures to enhance maritime safety and security.

Maritime Sensor Integration

Unlock
the power of maritime monitoring with Pearsonlive's cutting-edge solution that seamlessly integrates data from Terrestrial AIS stations into your surveillance applications. This integration enhances situational awareness, allowing you to track vessel movements in real time and make informed decisions to ensure the safety and security of your waters.



Enhance your maritime surveillance capabilities with Pearsonlive's innovative solution, which integrates Long Range Cameras into your vessel monitoring applications. This powerful integration allows for high-resolution imagery and detailed visual assessments of maritime activities, empowering operators to monitor vast areas precisely and clearly.

Experience the future of maritime security with Pearsonlive's exceptional ability to integrate multiple sensor technologies, including Terrestrial AIS, Radar, and Long Range Cameras. This robust integration creates a comprehensive monitoring system that enhances your situational awareness like never before.

The inclusion of advanced radar technology is a game-changer, providing real-time detection and tracking of vessels over long distances, even in adverse weather conditions. With radar capabilities, operators can detect vessel movements across wide ranges, enabling the identification of potential threats and the monitoring of suspicious activities with unmatched accuracy. Radar not only measures the distance and speed of vessels but also assists in identifying potentially dangerous ships, thereby improving response to emergencies.

By combining radar data with AIS and visual inputs from Long Range Cameras, Pearsonlive delivers a holistic view of maritime environments, ensuring that no detail goes unnoticed. With our integrated system, you can respond swiftly to emerging situations, enhance border protection, and safeguard vital maritime interests.

Transform your maritime operations with Pearsonlive's state-of-the-art solution that provides seamless data visualization from integrated sensors, including Terrestrial AIS, Radar, and Long Range Cameras. Our advanced system delivers a unified view of critical maritime data directly to your vessel monitoring applications at every Command Center. This comprehensive visualization empowers operators with real-time insights, enabling them to make informed decisions quickly and effectively. By consolidating data from multiple sources into an intuitive dashboard, Pearsonlive enhances situational awareness and response capabilities, ensuring that every maritime activity is monitored with precision.

Interoperable Information Sharing

Interoperable information sharing serves as a centralized system that facilitates the secure and efficient exchange of information among various organizations. Designed to manage diverse data types, including intelligence, operational, and administrative information, these platforms typically incorporate a central repository accessible to authorized users. They can be hosted by either a single entity or a coalition of organizations.

Furthermore, CISE platforms provide tools and services aimed at optimizing information management and dissemination.

One of the primary benefits of CISE platforms is their capacity to deliver:

1. **Improved situational awareness**
2. **Better decision-making**
3. **Cost savings**
4. **Greater efficiency**

A wide range of organizations, such as government agencies, military bodies, and businesses, utilize CISE platforms for their information-sharing requirements. Prominent examples of these platforms include initiatives aimed at creating interoperable surveillance systems for maritime areas and systems that support the exchange of information regarding terrorism threats or suspicious financial activities. CISE platforms have become increasingly essential for organizations looking to enhance their situational awareness, decision-making abilities, operational efficiency, and cost-effectiveness. By integrating data seamlessly, these platforms promote collaboration and improve the overall effectiveness of information sharing among involved parties.

In connection with the features offered by Pearsonlive, CISE can enhance visibility into relevant and valuable data. Pearsonlive allows organizations to integrate data more efficiently, improve analytical capabilities, and gain deeper insights. By merging the advantages of CISE and Pearsonlive, organizations can fully leverage the benefits of effective information exchange, making it an essential tool for enhancing situational awareness, improving decision-making, reducing costs, and increasing efficiency.

Vessel Analytic Dashboard

Vessel analytic dashboard employs computer vision techniques to automatically identify and classify vessels in video feeds or satellite imagery. This process includes detecting and tracking ships, recognizing their unique identifiers, and cross-referencing them with existing ship registries to gather information about the vessel's type, size, and other pertinent details.

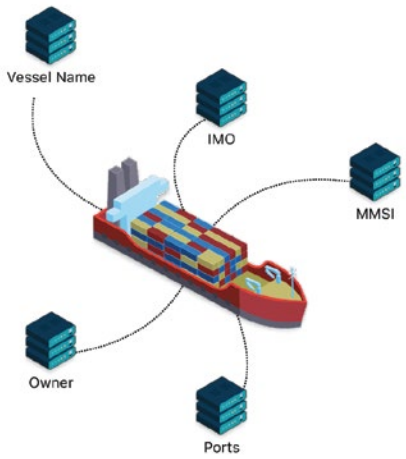
The object recognition method relies on visual data streamed from cameras integrated with the Automatic Identification System (AIS), which provides real-time updates on the position, speed, and identity of ships. By integrating AIS data with computer vision methods, it becomes feasible to detect and monitor vessels even in complex maritime settings.

Ship Traffic Vision Analytics is crucial for maritime surveillance and security, as it allows for the automatic identification and tracking of vessels within a designated area. This information can be utilized to optimize coastal support, monitor suspicious activities, and enhance safety and security in the maritime environment.

Innov Digi
65 Chulia Street, Level 46, Suite 3918
OCBC Centre, Singapore 049513
marketing@innovdigi.com
+65 6670 6698

Vessel Oversight

Pearsonlive Vessel Oversight provides extensive information about ships, including their technical specifications, commercial details, ownership structures, and management data. The database may include information such as the vessel's name, IMO or MMSI numbers, flag state, dimensions (length, type, deadweight), location, signal, age, and records of recent stoppages or journeys.
This data is utilized by various stakeholders within the maritime industry, including ship owners, operators, ports, and regulatory agencies, to monitor and manage vessel movements while ensuring compliance with international maritime regulations and safety standards.



Main Features :

- Offers general ship information such as IMO number, MMSI number, call sign, and type of ship.
- Provides dimensional data including length, draft, height, and depth.
- Allows for the addition of notations and notes regarding incidents such as casualties or violations related to the ship or its owner.
- Enables updates to vessel information as needed.

Remote Sensing Water Pollution

Oil spills originating from ships and tankers cause substantial environmental and economic harm. Given concerns about maritime safety, security, and preventing/policing pollution from ships, our comprehensive strategy for oil spill detection combines radar satellite imagery (SAR) technology, near-real-time Automated Identification System (AIS) data, and machine learning algorithms. Applications for oil detection involve collecting evidence of illicit discharges, assessing the dispersion of oil spills, and identifying potential oil reservoirs by highlighting natural seeps. Satellites equipped with advanced sensors offer routine, cost-efficient, and widespread surveillance over maritime areas.

Despite limitations in determining determining the exact composition of spills (e.g., mineral vs. vegetable oil), SAR images typically depict oil leaks as elongated dark streaks accompanied by a brighter spot representing the vessel. Identifying vessels in AIS or satellite images often hinges on correlating positional data with corresponding vessel reports. Most oil slicks arise from ships releasing bilge waste upon approaching shore.