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LISA USE CASE: MANUFACTURING

Smarter Manufacturing, Simplified

Managing an industrial site requires constant vigilance to ensure smooth production operations, safety, efficiency, and compliance with regulations. From monitoring vehicles entering and exiting the premises, IT and OT system operations and enforcing worker safety protocols, businesses need reliable systems to streamline operations and maintain a secure environment. With cutting-edge monitoring solutions, companies can now automate these processes, ensuring smooth operations while staying compliant with safety and environmental standards.

Enhance Operations, Efficiency and Industrial Safety with Advanced Computer Vision Monitoring and Simulation using Digital Twins

Operations Monitoring and Simulation

Digital Twin for Real-time Insights

Get live data from the physical system, for real-time monitoring and response to operational changes or anomalies.

Enhanced Decision-Making

Digital Twin to simulate various scenarios and outcomes, for data-driven decisions and to optimize processes and costs.

Predictive Maintenance

Identifies potential failures by analyzing system performance, reducing downtime and maintenance costs

Process Optimization and Risk Mitigation

Optimize processes by running simulations that reflect real-time data, enhancing productivity and reducing waste.

Warehouse AMR Analysis

Warehouse managers can ensure AMRs follow optimized routes, avoid collisions, and perform tasks optimally.

Sustainability Initiatives

Simulates energy consumption and environmental impact, helping meet sustainability goals via optimizations

Improved Collaborations

Provides a shared virtual environment for different teams to collaborate, and enhancing project alignment.

Scalability and Flexibility

Facilitates easier scaling of operations by simulating new processes or expansions.

Worker Safety and Perimeter Security

PPE Compliance

Computer Vision software to ensure that all workers are wearing the required PPE, such as helmets, gloves, and safety vests.

Access Control

Ensure only authorized personnel are in designated areas by cross-referencing workers' identities with areas they are cleared to work in.

Realtime Monitoring

By continuously monitoring worker activities and enforcing compliance in real-time, the system ensures that workers stick to safety protocols and prevent accidents.

Perimeter Watch

Continuously analyze video feeds to detect intrusions, trespassers, or suspicious objects. Trigger real-time alerts to security personnel.

Vehicle Monitoring

Entry-Exit and Repeat Entry

Automatic Number Plate Recognition to monitor vehicles entering, exiting and also repeat visits.

Violation Detection

Detect vehicle violations such as emission, lack of number plates, excessive dirt on tyres that could pose a hazard.

Speed Monitoring

Monitor the speed of vehicles within the industrial area, ensuring that they adhere to designated speed limits.

Underload/ Over Load Detection

LISA vision algorithms can detect underloading, overloading, or tampering of trucks through image analysis.

Unlock the full potential of your operations with Kloudspot's advanced monitoring and analytics solution. Optimize processes, simulate real-time scenarios, and implement predictive maintenance through our digital twin technology. Enhance safety, streamline workflows, and reduce downtime, all while ensuring regulatory compliance.

Empower your business for long-term success with a more efficient, productive, and secure industrial environment. Embrace the future of operational excellence—get started with Kloudspot today!

Kloudspot Solutions are Powered by 13th Generation Intel® Core™ i7 Processors and 4th Gen Intel® Xeon™ Processors.

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