



The Future of Industrial Safety: **Empowered by Videonetics True AI**

Building Resilient Industries with Smart Safety Solutions

Look Deeper

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Protecting Our Workplaces: Why Industrial Safety and Security Matter

As industrialisation accelerates globally, the significance of Safety, Health, and Environment (SHE) within organisations is becoming increasingly crucial. Occupational Safety and Health (OSH) is essential for mitigating hazards that could impact employees, the surrounding communities, and the environment. Despite businesses investing heavily in safety policies and adherence to safety procedures, challenges in reducing safety hazards persist.

The International Labour Organisation (ILO) reports staggering figures, with approximately 2.3 million people worldwide dying annually from work-related accidents or diseases—equating to over 6,000 deaths daily. Annually, there are about 340 million occupational accidents and 160 million victims of work-related illnesses, with an additional 374 million workers suffering non-fatal occupational injuries. The economic impact is significant, with lost workdays costing up to 4% of the global GDP. Beyond OSH concerns, organisations also grapple with challenges such as violence, terrorism, employee discontent, theft, and pilferage.



Traditionally, organizations have relied on video surveillance systems for monitoring and post-event analysis. However, the vast amount of data generated often means that much of the video remains unanalysed, making the approach largely reactive. The advent of Videonetics' AI-powered Industrial Solutions represents a transformative shift towards proactive risk management in industrial settings. By leveraging Artificial Intelligence (AI) and Deep Learning, Videonetics provides advanced video analytics solutions capable of enhancing the safety and security of industrial environments. These solutions not only facilitate surveillance but also offer actionable insights for the proactive management of safety and security risks, addressing the complex challenges faced by the modern industrial sector.

True AI & Deep Learning Solutions: Revolutionising Industrial Security with a 360° Approach

Videonetics is at the forefront of the industrial security revolution with true AI and Deep Learning-driven solutions, setting a new standard in industrial safety and security. Our approach goes beyond traditional surveillance, offering a holistic and proactive management system for addressing safety risks and operational challenges. Here's how our technology is transforming industries:

Harnessing the Power of True AI and Deep Learning

- **Advanced Detection Capabilities**

Leveraging true AI, our systems intelligently recognise and respond to a myriad of safety and security scenarios, from unauthorised access to potential hazards on the shop floor.

- **Predictive Analytics**

By analysing vast amounts of data, Videonetics' solutions predict potential incidents before they occur, allowing for preemptive action to avoid accidents and operational disruptions.

- **Behavioral Analysis**

Understanding patterns in human behavior and machinery operation helps identify deviations that could indicate safety risks or security breaches, ensuring a safer work environment.

Transformative Solutions for Every Aspect of Industrial Operations

- **Customised Security Protocols**

Tailored security measures for different zones within industrial premises, ensuring optimal protection where it's needed most.

- **Seamless Integration**

Our solutions integrate smoothly with existing infrastructure, enhancing capabilities without necessitating complete system overhauls.

- **Scalability and Flexibility**

Designed to grow with your business, our systems can expand in functionality and coverage, adapting to new challenges and technological advancements.



Proactive Risk Management

- **Real-Time Monitoring and Response**

Immediate alerts and automated responses to detected threats minimise the impact of safety and security incidents.

- **Comprehensive Coverage**

From perimeter defenses to detailed monitoring of critical internal processes, we offer complete visibility and control over your industrial environment.

- **Employee Safety and Well-being**

Our focus extends beyond preventing incidents to enhancing the overall well-being of workers, fostering a culture of safety and security.

Leveraging Video Data for Operational Excellence

- **Insightful Reporting**

Generate detailed reports and analyses to inform decision-making, improve safety protocols, and refine security measures.

- **Operational Efficiency**

Identify inefficiencies in processes and workflows, enabling adjustments that save time and resources while maintaining high safety standards.

- **Regulatory Compliance**

Ensure adherence to industry regulations and standards, reducing the risk of fines and legal issues while protecting your reputation.

Our solutions offer unparalleled coverage by focusing on the entirety of industrial operations, from the perimeter to the core process areas, including warehouses, utility areas, office buildings, areas with critical infrastructure and common spaces. This approach is rooted in the understanding that safety and security are interconnected and that comprehensive protection requires attention to both external threats and internal processes.



Specific Solutions for Industrial Areas



**A**

Warehouse & Utility Ares:

- Automated Human/Object detection around sensitive or restricted areas.
- Early fire and smoke detection systems in action.
- Real-time incident alerts being sent to a security control center.

B

Office Buildings:

- Track and monitor employees or visitors using Face recognition.
- Occupancy monitoring in office spaces for efficient space utilisation.
- Monitor unauthorised person movement and identify suspicious activities.
- Behavior analysis detection of unusual or suspicious activities.

C

Perimeter & Gates:

- Perimeter intrusion detection with visual alerts.
- License plate recognition at entry and exit gates.
- Crowd management systems in place at entry point to maintain order.

D

Roads & Common Areas:

- Automated vehicle tracking and movement analysis.
- Capture Driver's Face for records.
- Integration with boom barrier for secured and automated access using ANPR.
- Pedestrian safety monitoring across walkways and common areas.

E

Process Areas & Shop Floors:

- Equipment monitoring for proactive maintenance alerts.
- Personal Protective Equipment (PPE) compliance checks among workers.
- Efficiency analysis of worker movements and shop floor operations.
- Detecting liquid spillage on the shop floor to avoid unwanted mishaps and injuries.

Integration Capabilities

With solutions engineered for seamless integration with existing infrastructure, we aim at creating a cohesive safety and security ecosystem. This integration extends across various systems and devices, including:



Surveillance Cameras

Compatibility with a wide range of IP cameras, ensuring high-quality video feed integration for real-time analysis.



Access Control Systems

Integration with access control solutions to ensure synchronised security measures across entry points.



Fire Alarm Systems

Unified response protocols with fire detection systems for immediate action during emergencies.



PIDS

Seamless integration with PIDS to detect and prevent unauthorized access or breaches along the perimeter.



Visitor Management System

Coordinated visitor management for tracking and managing guest access within secured premises.



Guard Tour Management System

Integrated guard tour management to streamline patrols and enhance security monitoring.

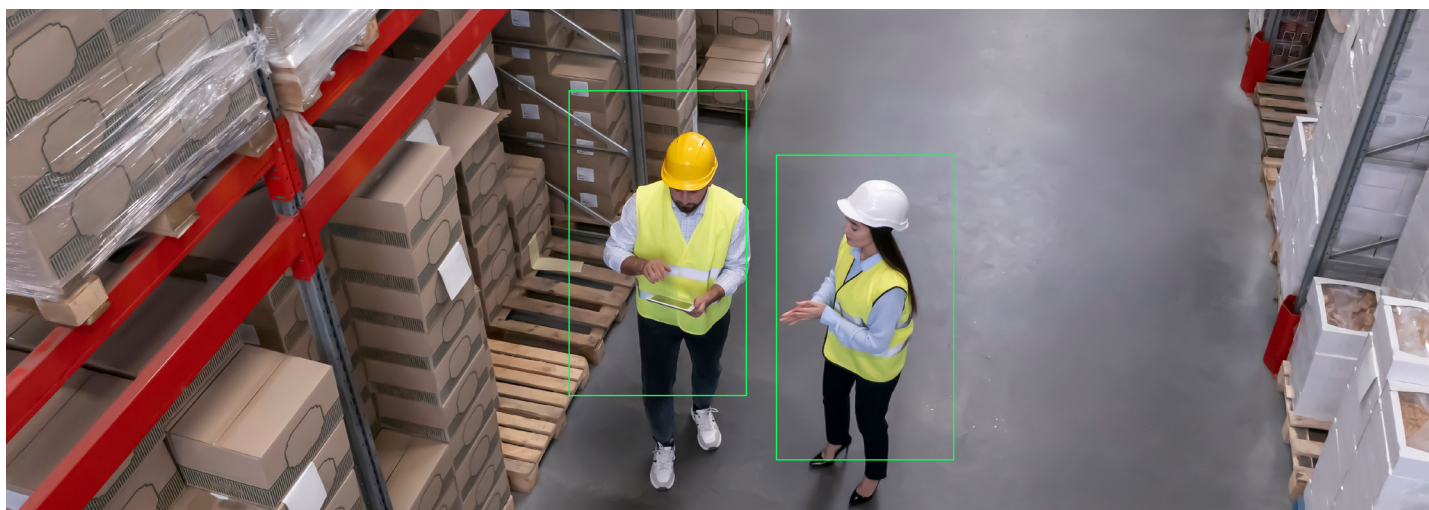


SMS/Email Gateway Integration

Automated alerts and notifications are sent via SMS or email to designated personnel in case of security breaches or emergencies.

This extensive integration capability ensures that Videonetics not only fits into existing setups but also enhances their capability, making the transition to a smarter safety solution effortless and cost-effective.

Understanding the diverse nature of industrial environments, our solutions are designed to be highly scalable and customizable. This flexibility allows for tailored implementations that meet the specific needs of each industry, whether it's manufacturing, chemical processing, energy production, or any other sector.



Key Benefits

Adopting Videonetics' True AI-powered safety and security solutions brings a multitude of benefits, directly impacting your operational efficiency:

- **Reduced Incident Rates**

Leveraging true AI, our systems intelligently recognise and respond to a myriad of safety and security scenarios, from unauthorised access to potential hazards on the shop floor.

- **Compliance and Risk Mitigation**

Our solutions ensure adherence to safety regulations, reducing the risk of fines and legal repercussions, while also protecting your brand's reputation.

- **Operational Efficiency**

Automated monitoring and analytics-driven insights help streamline operations, minimising downtime, and improving productivity.

- **Cost-effective Scaling**

The scalable nature of our architecture means that you can expand your safety and security solutions as your business grows, ensuring a long-term, cost-effective investment.





The Videonetics Difference

Choosing Videonetics for your industrial safety and security needs is an investment in a safer, more efficient future. We not only safeguard your assets and personnel but also empower your operations with data-driven insights and analytics. With Videonetics, you can expect a significant return on investment through reduced risks, enhanced productivity, and compliance with safety standards, positioning your business for success in the competitive industrial landscape.

**We look deeper to
simplify the world.
Making it**
*Safer, Smarter
and Happier .*



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