Fire And Smoke Detection License

DigitalX Fire and Smoke Detection is a state-of-the-art solution that excels in its applications for forest fire prevention, factories, and industrial areas. The system's AI-driven algorithms are designed to work with video streams from security cameras, providing real-time monitoring and rapid response capabilities. This is particularly crucial in forest fire prevention where early detection can significantly mitigate the spread of fire and the resulting environmental damage.

The system's integration with a wide range of cameras, including 4K cameras and bi-spectrum thermal cameras, allows for high-quality videos and images to be available for algorithmic analysis, ensuring precise and timely detection. The system's reliability and speed in detecting and alerting in case of any fire or smoke incidents can prevent significant property damage and protect the lives of factory workers.

The adaptability of the system to diverse environments and conditions renders it well-suited for various types of areas. Frequently, these areas feature intricate layouts and materials that present distinct fire safety challenges. DigitalX Fire and Smoke Detection has been meticulously designed to address these challenges, offering an efficient and dependable system that safeguards assets and ensures the safety of individuals within such spaces.

Applications

• Commercial Buildings, Factories, etc.
• Bushfire-Prone Areas

Technology Overview

Wide Angle Detection
Ours system can detect fire and smoke across a wide range of areas, from small rooms to large industrial spaces, ensuring comprehensive coverage

Real-Time Monitoring
The system offers real-time monitoring capabilities, providing immediate detection for a seamless and efficient safety experience.

Scalability
It can handle a large number of video feeds, making it suitable for large-scale applications such as forest fire prevention and industrial safety.

Adaptable Performance
The solution operates efficiently in various lighting and environmental conditions, offering versatility across different environments.

High Accuracy
The DigitalX Fire and Smoke Detection System provides high accuracy in fire and smoke detection. It uses advanced algorithms to reduce the chance of false positives and ensure reliable detection.

Privacy Protection
Our system is designed with a strong focus on data protection. It only collects necessary data for detection purposes and all data is stored securely, adhering to strict privacy regulations.

User-Friendly Interface
Our system comes with a user-friendly interface that is easy to navigate. This ensures a smooth user experience, from setup to daily usage.

These features make the DigitalX's solution a robust and reliable choice for fire and smoke detection needs.

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H2X-1FSD-CAM

Specifications

- **Real-Time Detection Capacities:** Provide real-time fire and smoke detection capabilities, rendering it exceptionally well-suited for high-risk environments like forests and warehouses. Its rapid response time facilitates immediate action, potentially enabling early detection and containment of fire outbreaks.

- **High-Performance Algorithm:** Equipped with the algorithm to concurrently identify multiple fire and smoke incidents within a single frame, this feature stands out for its applicability in extensive surveillance scenarios like forest fire mitigation and warehouse security, where numerous focal points may be present.

- **High-Security Capabilities:** Ensures high security, with data being encrypted and verified during both transmission and storage to ensure information safety. Additionally, the system possesses the capability to authenticate interconnected devices, including servers, workstations, thwarting any attempts at data falsification.

- **Plug-and-Play:** The AI software is seamlessly installed on image processing devices, enabling the detection algorithm to be activated with just a few straightforward configurations. This feature allows for flexible deployment and expansion in various environments.

- **Offline Mode:** Ability to function autonomously, independent of network connectivity to servers. This feature is particularly crucial for areas with limited network coverage, such as remote forests.

- **Compatibility:** Compatible with all ONVIF standard cameras, allowing for easy integration with existing surveillance system.

Data Privacy Protection

The system we developed differs from any others on the market. It ensures the strictest data privacy using the following principles:

- The devices' operational status is only visible to authenticated users
- Data is encrypted and stored safely in protected area
- Using computable encryption methods, the system's calculations are performed directly on the encrypted data without having to decrypt it

Cybersecurity Proof

Our systems has state-of-the-art cybersecurity (Zero-Trust or Trust-less approach) design which gives customers a complete control of their system. We use the latest and most advanced cybersecurity technologies to prevent the risks of cyber-attacks, including (but not limited to):

- Password vulnerability
- MITM (Man-in-the-middle) attack
- Session replay vulnerability
- Server vulnerabilities
- Exposing vulnerability in the workplace

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