



SUNON
TECHNOLOGY



Integrated Facility Monitoring and Operational Coordination Platform

Modern facilities require a unified approach to monitoring, coordination, and operational awareness. The Integrated Facility Monitoring and Operational Coordination Platform is designed to provide organizations with a comprehensive solution that brings together field hardware systems, intelligent analytics software, and centralized operational oversight. By combining reliable equipment with advanced digital capabilities, the platform enables teams to maintain clear visibility of site activities, improve coordination, and support efficient daily operations.



Detection & Communication Mobile System Infrastructure

The Detection & Communication Mobile System Infrastructure forms the physical foundation of the platform. This hardware layer consists of mobile computing units, recording devices, and centralized servers that collect and transmit operational data from across the facility environment.

Vehicle-mounted servers serve as mobile processing and communication hubs, enabling field teams to capture and relay information while operating throughout the site. These onboard systems support the collection of video and operational data and ensure stable communication with the central platform.

At the core of the infrastructure is the centralized Video Management System (VMS) server. This server manages video streams from connected devices, providing secure storage, live viewing capabilities, and organized access to recorded footage. By consolidating visual data in one location, the VMS enables operators to review events and maintain a clear record of on-site activities.

Body-worn cameras complement the mobile infrastructure by providing a direct visual perspective from personnel in the field. These devices allow activities to be documented as they occur and contribute valuable visual context to the overall monitoring system. Together, these hardware components create a reliable data collection network that supports continuous site visibility and operational awareness.

Intelligent Video Analytics Suite

Building on the hardware infrastructure, the Intelligent Video Analytics Suite provides advanced software tools that analyze video data and organize information from connected monitoring units. The Field Monitoring Unit Framework integrates multiple monitoring devices into a unified software environment, ensuring consistent data flow and system coordination.



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Raw Streams are Processed through the Field Monitoring Unit Framework for device management and synchronization.

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Camera Synchronisation Protocol

Aligos multiple video feeds to provide a comprehensive view of events from different perspectives.

The Camera Synchronization Protocol further enhances operational clarity by aligning video streams from different devices in time. This capability allows events to be reviewed from multiple viewpoints simultaneously, improving the ability to understand and assess situations within the monitored environment.

Command Center Dashboard

The Command Center Dashboard serves as the central operational interface where information from the entire system is presented and managed. Through a unified situational overview, operators can monitor live video streams, review system status, and observe activity across the facility within a single interface.



Real-time Data Visualization

Structured information streams and event notifications alert personnel to requiring immediate attention.



Real time data visualization tools present incoming information in a clear and structured format, enabling operators to interpret ongoing activities quickly and effectively. Integrated event notifications automatically highlight significant events or changes in system status, helping ensure that important information receives timely attention.

The platform also includes integrated communication tools that support coordination between the command center and personnel in the field. These capabilities enable teams to exchange information efficiently and maintain alignment during daily operations and response activities.

By combining robust hardware infrastructure with intelligent analytics and a centralized operational interface, the Integrated Facility Monitoring and Operational Coordination Platform delivers a comprehensive solution for modern facility management. The result is improved visibility, streamlined coordination, and enhanced operational awareness across the entire site environment.