

Smarter and Safer Places with Fortinet AI-enabled Video Surveillance

Executive Summary

Video surveillance is essential to increase overall security for businesses across industries and the public sector. There are many benefits to implementing a video surveillance system including deterring crime and break-ins, preventing shoplifting and employee theft, lowering the risk of vandalism, helping police investigate crimes, providing compliance, reducing the need for additional security personnel, and more.

However, aging, outdated cameras and surveillance equipment are common among businesses, schools, and other facilities. These legacy systems consistently fail to deliver quality images and increase operational complexity.

Fortinet combines surveillance cameras, network video recorders, video management software, and mobility support in one solution. Organizations of any size can take advantage of unified video surveillance and physical security management in one integrated platform.

Unreliable Surveillance Equipment Impacts Safety and Liability

Surveillance equipment is everywhere—from college campuses and K-12 schools to commercial buildings, retail stores, and parking lots. It's crucial that these devices work properly to proactively monitor activities and automatically identify threats.

But too many of these aging systems do not provide surveillance when it's needed and/or deliver images that are too poor quality to be useful. In addition, these security systems are generally not well-integrated and require time-consuming manual management. They also may be prone to downtime and data loss.

Comprehensive Video Surveillance Delivers All-inclusive Protection

Built on the highest security standards and employing innovative artificial intelligence (AI) technologies, Fortinet Video Surveillance simplifies management via integration and automation, and reduces operating costs. It lets organizations see what is happening on their premises with remote, real-time visibility, accessible from anywhere.

The Fortinet Video Surveillance solution is also fully customizable. IT teams can easily configure the system to build the secure and productive environment that works best for their organization.



Nearly 70% of security cameras are running out-of-date firmware while 4 in 10 are vulnerable to cyberattacks.¹

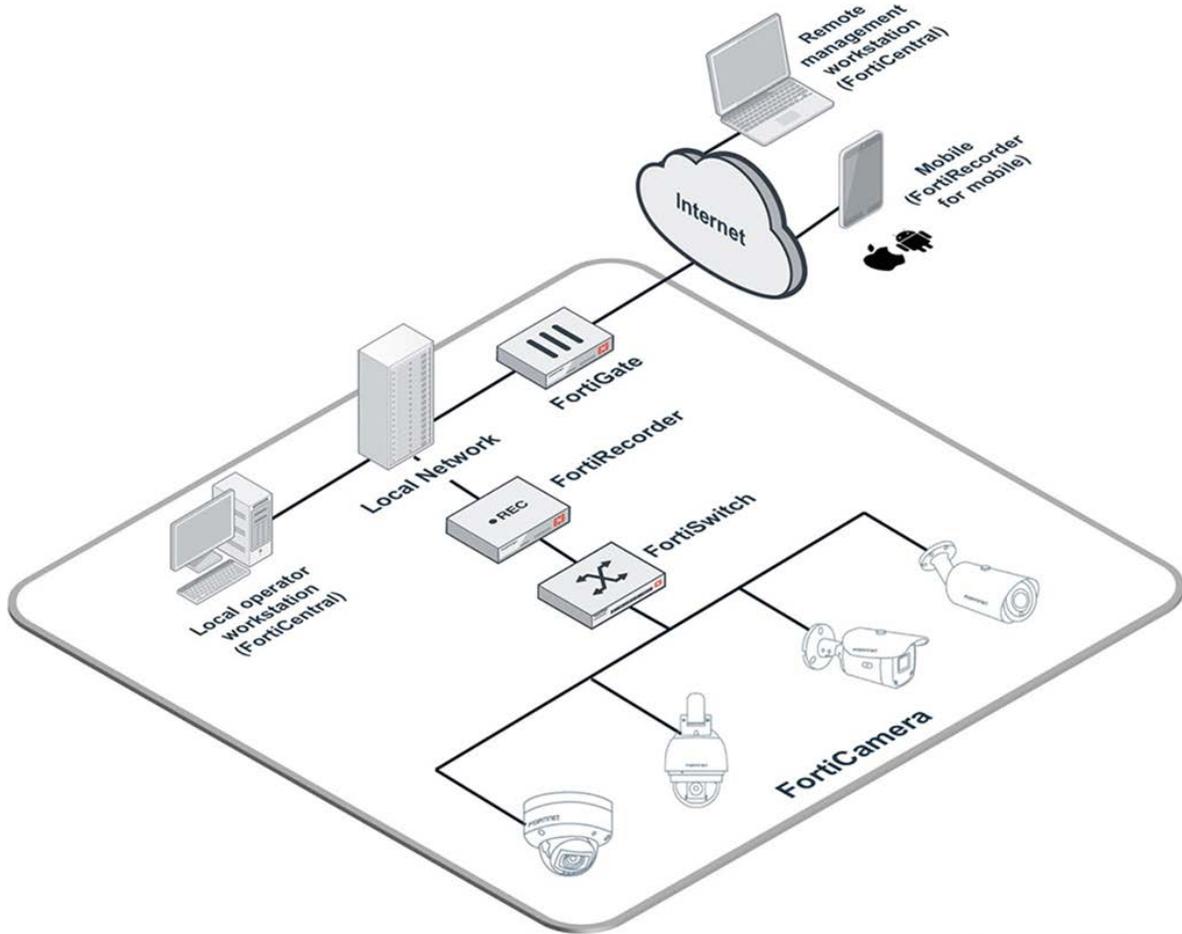


Figure 1: Fortinet Video Surveillance Architecture.

Fortinet video surveillance systems include the following components:

FortiCamera delivers crisp, high-resolution HDTV-quality images that help provide reliable evidence against crimes, and increase safety in the organization. Images can be sent continuously, or triggered by a wide range of events, including motion or audio detection.

Combining style and technology, FortiCamera delivers complete security coverage with options for various camera types to fit any location. They range from small, unobtrusive indoor cameras to rugged, weatherproof outdoor models. They include options for viewing angles, infrared distance, low-light sensitivity, audio support, and more.

These affordable cameras work seamlessly with FortiRecorder systems to bring intelligence and proficiency to video surveillance for everyday security needs.

FortiRecorder is a network video recorder (NVR) that helps unify the management of cameras, systems, and extended storage across locations from a single platform. It is easy to deploy and can be personalized for optimal performance and security automation for each organization. FortiRecorder can be easily configured for continuous or event-based recording. Alarms and notifications can be set to inform users of events whether the user is on-site or remote.

Flexible deployment options with various hardware and virtualization support the range of cameras and storage needed for any type of organization.



“Small business owners now have access to immensely powerful video surveillance systems at relatively affordable prices.”²

Each FortiRecorder is equipped with local storage for fast access to video footage. If there are a lot of cameras or footage needs to be stored for a long time, FortiRecorder can extend recording capacity through network-attached storage. Archived files can be seamlessly accessed for playback from the local or remote device.

FortiRecorder works seamlessly with FortiCamera, with camera auto-detection and no additional license fees. FortiRecorder also supports the widely adopted ONVIF camera standard.

FortiRecorder Mobile is a free mobile client available for Android or iOS devices. It can be used to access FortiRecorder to view live video from security cameras, see notifications, and play back video events.

FortiCentral is a free Windows-based application ideal for organizations that require advanced features beyond those included in the FortiRecorder browser-based interface. It provides centralized control and visibility of all video surveillance across multiple locations, from anywhere. The interface is easy to customize and enables fast access to real-time video and recordings. Equipped with cutting-edge AI analysis and automatic event notifications, FortiCentral proactively detects suspicious events on the property. FortiCentral is tightly integrated with FortiCamera and FortiRecorder to provide a single command hub.

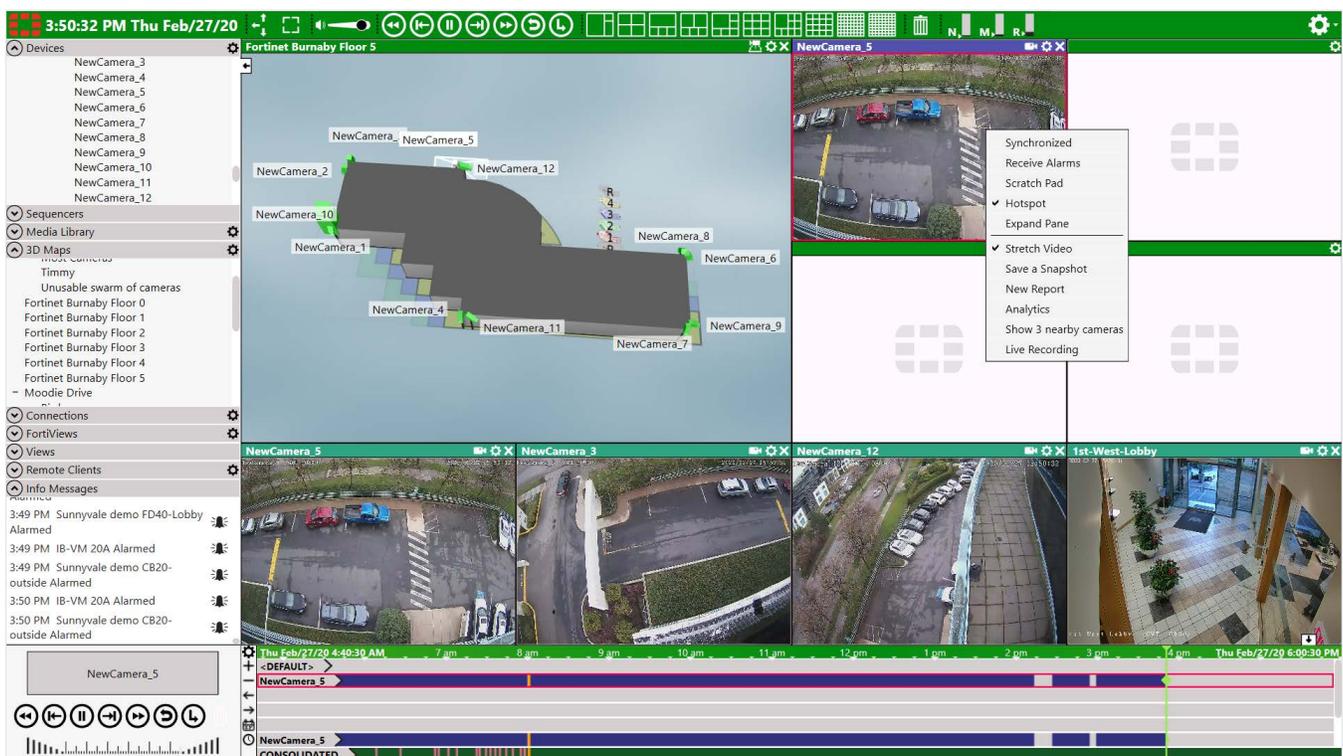


Figure 2: FortiCentral—floor planning and video monitoring.

Beyond Video Surveillance with AI Technologies

Fortinet innovative machine-learning analysis makes it possible for organizations to recognize people, objects, and even certain scenarios. These AI-enriched capabilities help automate security workflows and safety processes for optimal operational efficiency and minimum loss.

Fortinet develops a wide range of video analysis technologies beyond basic security. The gathered intelligence can be used for many purposes, for example, tracking occupancy, measuring traffic, and helping companies make critical decisions and adjust business models. Available AI technologies include:

- Face recognition
- Object recognition
- Occupancy detection
- Privacy protection
- Heat maps

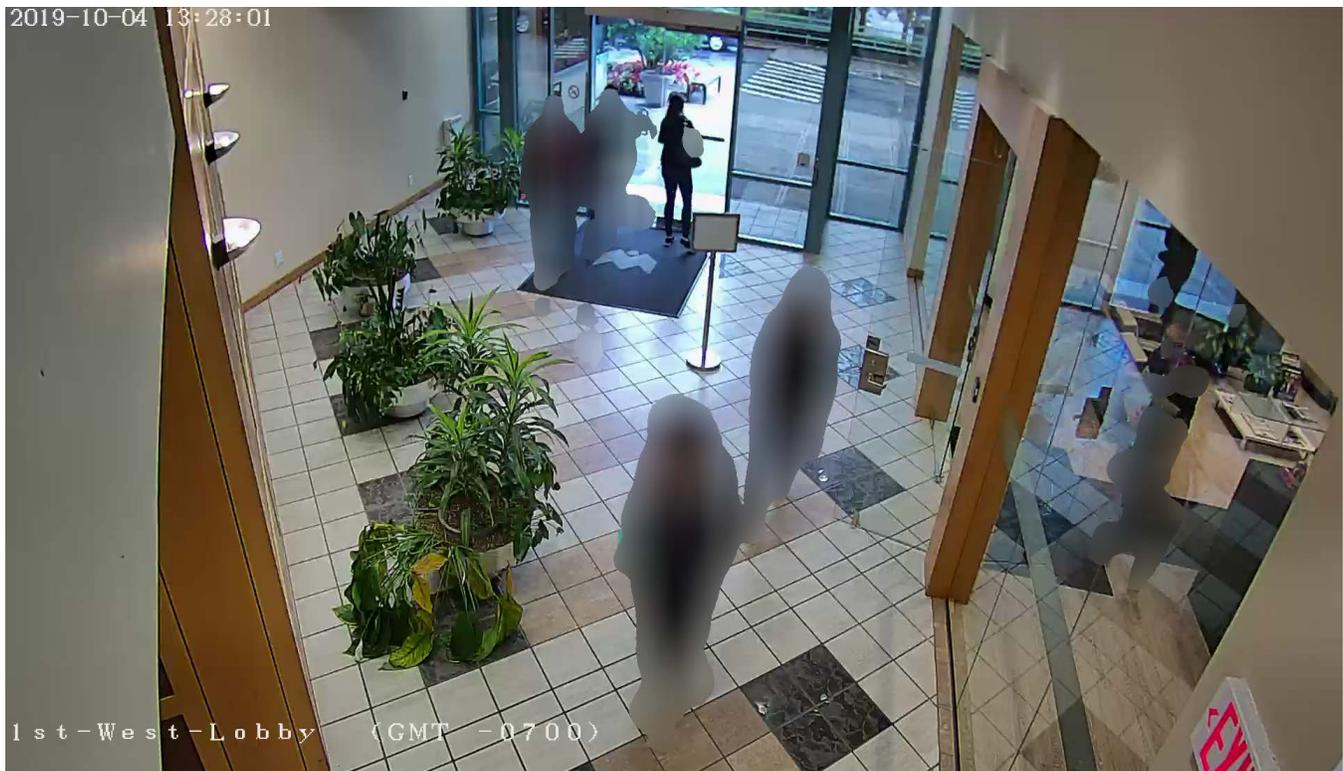


Figure 3: FortiCentral–Artificial Intelligence with privacy protection.

Conclusion

Committed to security and operational efficiency for organizations of all sizes, Fortinet Video Surveillance delivers a smart, secure solution with AI-driven advanced features. From deterring theft to recognizing a gun to helping manage room capacity, organizations can take advantage of a number of practical applications that go beyond surveillance to maximize investments in this solution.

In addition, Fortinet Video Surveillance is part of the Fortinet Security Fabric. The Security Fabric provides true integration and automation across an organization’s security infrastructure, delivering unparalleled protection and visibility.

¹ [“Nearly 40% Of Security Cameras May Be Vulnerable To Cyber-Attacks,”](#) A&S Adria, December 19, 2019.

² Chad Brooks, [“Video Surveillance Systems for Business: A Buyer’s Guide,”](#) Business News Daily, July 19, 2019.