



BOSCH
Invented for life

Retail chains

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Video solutions

Video solutions for retail chains



In the retail industry, video surveillance usually forms the basis of a business' security system. Reducing shrinkage and providing evidence in the event of theft have traditionally been the main motivations for installing cameras. In the retail industry, shrinkage is one of the most significant challenges faced by companies.

Loss Prevention (LP) personnel at retail chains face a number of difficult challenges to select an adequate video surveillance solution, due in part to the wide variety and needs of buildings that they must secure.

For example, many **retail stores** that are converting from analog to IP require hybrid systems that allow them to make use of existing analog cameras while adding new IP cameras. In some cases, small recording units with low camera counts are required to keep costs down. For larger stores, recorders with capacity for 64 or more cameras may be required. In all stores video analytics data can be applied to improve store operations and optimize store layout for maximized sales.

The **warehouses** are at the other end of the spectrum. While considerably fewer in number, the warehouses are very large, sometimes with camera counts in the hundreds. These systems require sophisticated management and large-scale storage.

All of these systems must be monitored from a **central location**. Regardless of where incidents occur, it must be possible to select the site, locate the camera, and efficiently stream video to the central site.

In the past, to meet this wide range of requirements, many disparate systems were used. This posed a number of challenges. LP managers were forced to develop different training programs for each supported system. Regional managers responsible for multiple sites would have to learn to use all systems in their region. And investigators at the central monitoring center would be faced with yet another, different, way of working.

Fortunately, it is now possible to **address all of these requirements in a uniform way**. With the latest versions of the Bosch Video Management System, all LP personnel can share the same intuitive interface – from the store manager to the warehouse LP professional to the security operator at the security control center.

Cameras and technology that suit your retail needs

At Bosch, we are focused on delivering the highest quality relevant images - with resolutions up to [4K ultra HD and starlight technology](#) for low light situations. That is why all Bosch cameras from the IP 4000i to the IP 9000 series feature [on-board video analytics](#) as standard to help you turn your data into intelligence that can improve your security as well as benefit your business.

From retail to warehouse solutions, a smart combination of these cameras offers solutions for indoor or outdoor, day or night, discrete or visible video security, as retailers see that they can do far more with data collected by cameras than security alone.

Specific benefits for every retail building

One scalable video management solution

[BVMS software](#) provides **seamless management of digital video, audio and data across IP networks**. It is a fully integrated system and can be scaled according to your needs.

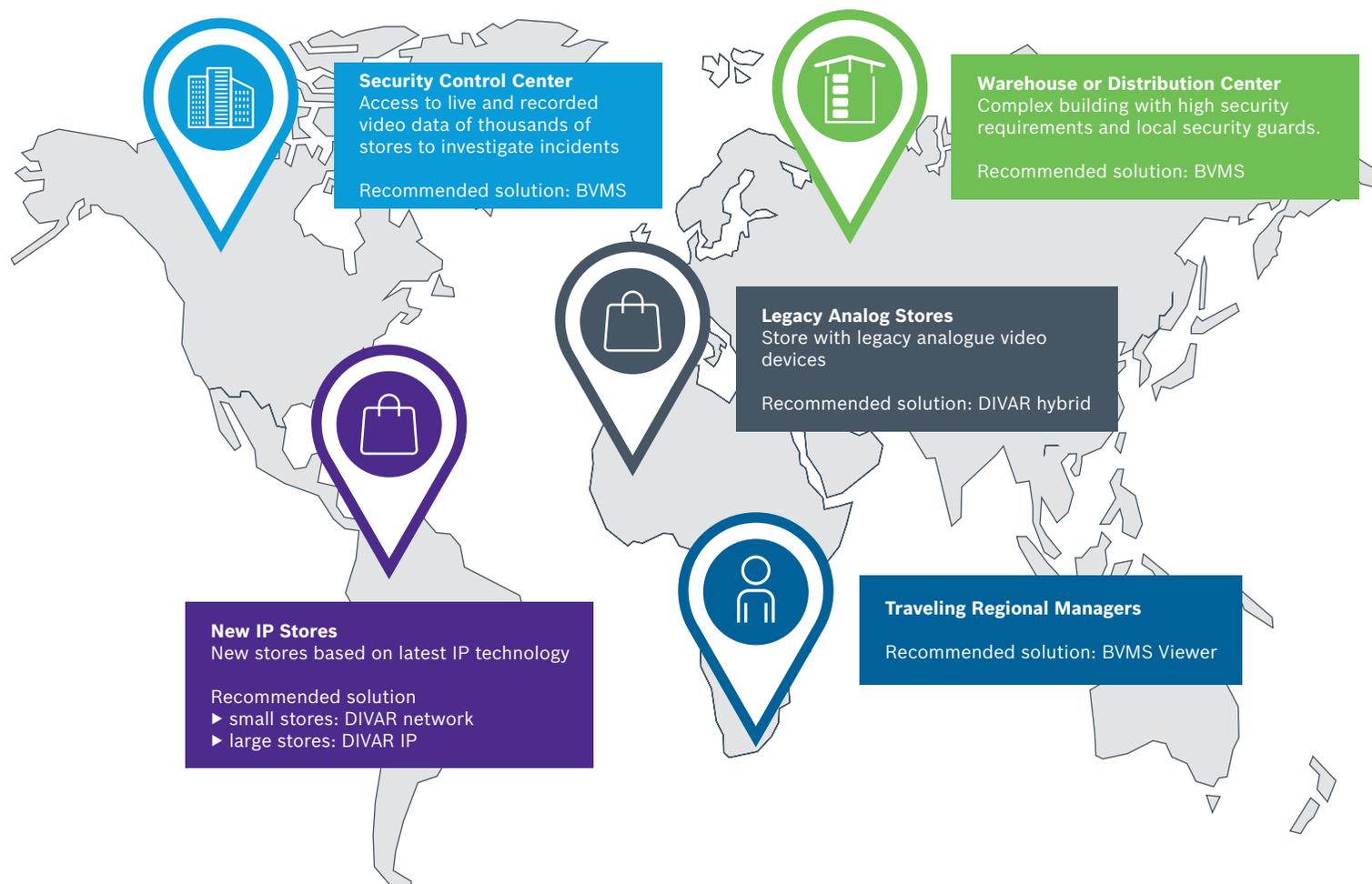
The entry-level **BVMS Viewer** is ideal for **small to medium stores** to access live and recorded video from new and legacy Bosch recording solutions. It is a free of charge application.

BVMS Professional is the ideal solution for medium to large applications such as **warehouses**, which require more functionality. It can manage up to 2,000 cameras and brings in powerful features and many integration possibilities.

If you need to access your video from one **Security Control Center**, you can view live and recorded video from over 10,000 sites across multiple time zones from one single BVMS server.

Additionally, BVMS Enterprise enables multiple BVMS Professional systems to be connected for monitoring up to 200,000 cameras.

Every retail building has different video surveillance requirements. Our Bosch video equipment has the right solution for every retail building, no matter if it is a small store or a complex distribution center.





- ▶ Reduce shoplifting and employee theft
- ▶ Investigate incidents easily and quickly
- ▶ Maximize customer engagement and service performance
- ▶ Keep your investment while moving to new technology
- ▶ Minimize time spent in trainings



- ▶ Access your video system without interruptions
- ▶ Keep your investment
- ▶ Grow your video solution with your needs
- ▶ Secure your surveillance



- ▶ Have the whole picture of all your stores
- ▶ Monitor multiple stores simultaneously
- ▶ Add more stores and more cameras to the system
- ▶ Remote access to high resolution images even with a low bandwidth connection
- ▶ Investigate incidents easily and quickly



BVMS helps you protecting your stores



Benefits for stores

Reducing shrinkage in your stores improves business performance, contributing to the bottom line of a retailer. Being able to effectively investigate case-by-case enables retailers to optimize their processes and prevent future losses. Additionally, thanks to video analytics, video equipment can also be used to improve merchandising and store operations.

Reduce shoplifting and employee theft

A reliable video surveillance solution

“I need a reliable video security solution in place to discourage shoplifters and collect evidence of possible incidents.”

» Store manager

Security video systems are a great option for reducing retail theft. Security cameras allow to check on your customers and employees, while providing an obvious visual deterrent to would-be shoplifters. In addition, it allows you to call up the video associated with any transaction.

In order to detect shoplifting, the BVMS Viewer allows you to access a wide range of visible and discrete cameras (bullet or dome, indoor or outdoor, day or night) to look for evidence, and to search fast through days or weeks of recordings with an integrated search function.

Investigate incidents easily and quickly

Integrated forensic search

“I need to quickly locate and evaluate events.”

» Loss prevention manager and security operator

BVMS provides a forensic search feature with basic and enhanced search function in the recorded video data. Searching through metadata enables you to retrieve evidence quickly and simply, eliminating the need to watch hours of video footage and making it easier to manage than ever before.

You can search for any motion in a selected area or use enhanced search function to find events in recorded video data such as objects within, entering, or leaving an area, objects traversing a route, objects loitering in an area, removed objects and more. Search rules can be changed even after an event.



Maximize customer engagement and service performance

[In-Store Analytics](#)' actionable insights

“I would like to know how I could engage my customers and offer a better service in my store.”

» Store manager

Merchandising and customer service can set your stores apart from online retail, helping you increase loyalty and sales.

Based on cameras with built-in video analytics, the FLEXIDOME IP panoramic 7000, you can additionally order In Store Analytics to provide your merchandising and operations teams with reliable customer traffic insights to make informed decisions.

Learn how to maximize customer engagement and service performance in your stores, or ensure sufficient staffing during peak times to continually optimize the quality of customer service.

Minimize time spent in trainings

An intuitive User Interface that supports all video devices

“I need to save costs by minimizing time spent in learning and training multiple user interfaces to access various video system components.”

» Loss prevention manager

BVMS Viewer can be used to access live and recorded video data with an intuitive User Interface (UI) to manage basic video tasks without the need of extensive training.

The UI supports all Bosch video products, from Bosch IP fixed cameras to high resolution Panoramic cameras. This way, you can access new IP equipment and legacy analog equipment with a single, intuitive user interface.

Keep your investment while moving to new technology

Integrate your current video equipment

“I want to move to a cost effective and modern video solution while keeping my investment of analog cameras and legacy Bosch NVRs and DVRs.”

» Loss prevention manager

Bosch offers a wide range of price attractive recording solutions, DIVAR hybrid devices. Hybrid units record existing analog cameras while they allow migration to IP, as cameras are added or replaced.

With the BVMS Viewer Bosch new and legacy video devices can be accessed from the same UI.

This way, you can add already functionality and ease of use to your existing equipment with no additional investment, while transferring gradually into IP technology to access more features.



BVMS makes your warehouse more secure



Benefits for warehouses

Internal theft in warehouses and distribution centers is a growing concern. Theft at this level is harder to catch and can often be much harder to monitor. With company employees, contract employees, as well as drivers having access to the facility, merchandise can easily go missing.

Access your video system without interruptions

Continuous operations anytime

“I need a highly available system that runs 24/7.”

» Loss prevention manager

Compared to other systems BVMS allows for maximum resilience. This means continuous live and playbacks – no matter what happens. While other systems require you to add redundant components to create a resilient system, the BVMS offers several levels of resilience out of the box. As a result, cameras keep recording and streaming live video even when multiple system components fail simultaneously.



Keep your investment

Integrate with other systems

“I need a video solution that integrates into other systems in the warehouse.”

» Warehouse manager

BVMS provides multiple options to integrate Bosch as well as third party applications.

One example could be the integration with a license plate recognition system for trucks, since truck drivers and other types of delivery service drivers can pose a specific security risk at warehouses. Additionally, BVMS allows to integrate third party cameras and storage solutions.

Also, BVMS integrates with other Bosch security systems, providing ideal solutions for warehouses, such as Bosch AVIOTEC fire detection. The detection is integrated into the cameras itself, detecting flames and smoke at the source. This avoids delays in detection times in environments with high ceilings.

Grow your video solution with your needs

A scalable and efficient solution

“I need a scalable system that can handle a large number of cameras with extended duration storage.”

» Loss prevention manager

BVMS gives you plenty of room to easily grow and to effectively operate the system. You can manage up to 2000 cameras by a one single management and one Bosch video recording server. The small number of servers needed reduces the costs of installation and maintenance as well as of energy consumption.

Secure your surveillance

High standards for data security

“I want a system that protects against misuse of the surveillance data.”

» Warehouse manager

The security of your surveillance data is just as important as the people and premises you are safeguarding. This demands a sophisticated approach to data security. Bosch offers end-to-end solutions that cover everything from cameras, servers, software and storage devices to network protocols and standard key infrastructures.



BVMS makes it easy to access many dispersed sites



Have the whole picture of all your stores

An ideal video surveillance solution for many, small and geographically dispersed systems

“I must monitor over 2,500 stores – I need to be able to access any one of them from the same application, and easily call up the desired locations.”

» Security operator

The BVMS Live and Playback site concept has been tailored for retail chains with many geographically dispersed branches. The BVMS management server and operator client at the security control center can be connected to the video local systems in the stores. This way, a retailer can always see the whole picture from a central location, covering up to 10,000 stores with one single server.

Monitor multiple stores simultaneously

Simultaneous access to many sites

“Sometimes I must monitor multiple stores simultaneously. I need to be able to access any one of them from the same application.”

» Security operator

If there are alarms at different sites, a security operator can easily look at live or recorded video data from up to 20 different sites simultaneously, regardless of a legacy store, IP store or a distribution center from one client. And, an operator just needs to start one application and doesn't even need to log out in between.

Control centers for retail chains monitor stores and warehouses from all over the country, sometimes even across international borders. They must be able to quickly and easily call up live or recorded video from any site, and to view video from multiple sites simultaneously.



Add more stores and more cameras to the system

A complete scalable solution

“Stores are added or closed frequently. I need a way to centrally manage the sites in my video system.”

» Loss prevention manager

One server can cover up to 10,000 sites. And every new site is quickly integrated into the system. If needed, it is possible to add more cameras in one of his stores without the need of an extra license on the device.

The expansion is easy, it only takes three steps to add a remote site to the system: add site, add devices, assign to logical tree.

All sites are licensed in the central system, i.e. there is no need for an extra license on the device in the site.

Remote access to high resolution images even with a low bandwidth connection

Dynamic Transcoding

“Stores are connected via a wide area network. I need HD video images even if the connection is via low bandwidth.”

» Security operator

With dynamic transcoding you have access to outstanding image quality at all times, because the video stream is tailored to available bandwidth. Even over low-bandwidth connections, when you pause the video, you get the full resolution image, allowing you to identify people and see fine detail.

Investigate incidents easily and quickly

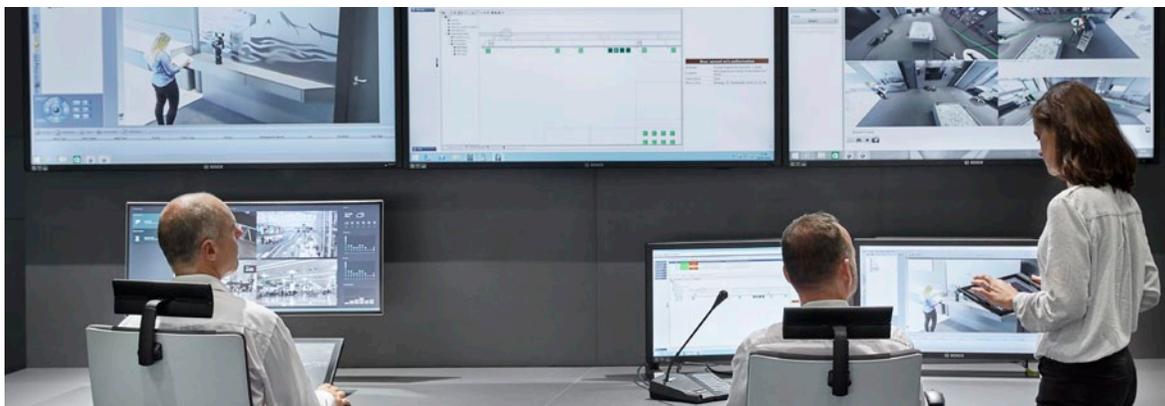
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A Tradition of Quality and Innovation

For over 125 years, the Bosch name stands for quality and reliability.
Bosch is the global supplier of choice for innovative technology, backed by
the highest standards for service and support.