How to reduce stock losses in your shop Security - Video Surveillance





As a retailer a major concern of yours is reducing stock losses. For every item that goes missing, you may need to sell another five just to break even. Some systems can help identify which items have gone missing, but they cannot tell you how. Let's take a look at how you can reduce theft in your shop:

Monitor your staff

Staff are effectively stealing from you when they don't scan the goods of a friend or relative that shows up at their cashier desk. This is a common problem, known as "sweet-hearting". Our system provides the highest quality of relevant IP video images, so that you can track what has happened at each cashier desk – anytime, anywhere.

Discourage vandals and increase customer visits

Armed robbery, window smashing, or even graffiti will affect your shop's reputation and increase your costs. On top of that, these situations discourage customers from (re)visiting your store. The Bosch system will deter vandals and can help the police in their investigation.

Deter customers from stealing

Shoplifting is a form of theft and is subject to prosecution. Our system deters shoplifters by capturing them clearly on video in the act. Then you can identify them and have proof for the police. Additionally, you can alert your staff about these individuals, increasing staff awareness.

Keep your valuables in check

To attract customers your shop has to be an open display of products, and will always be at risk of theft. Theft from fitting rooms, cashier desks, products on display, backdoors to your warehouse, and more. When these areas are monitored, you have an effective solution against the majority of theft risks. In fact, the visible presence of a video surveillance system will deter most people from theft. Additionally, you can monitor suppliers at the back door before granting them entry.

Bosch Security Systems has the answer.

Example of a shop under video surveillance



The above schematic gives an example of how to increase security in your shop:

- 1 Several cameras will keep an eye on corridors and product displays, depending on the layout of your shop.
- 2 A monitor and camera at the entrance display live images of customers walking in, showing everyone that your shop uses video surveillance.
- 3 A camera above each cashier desk keeps an eye on staff, safeguarding against sweat-hearting and theft by staff from the cash register.
 - A camera watches your warehouse entrance(s) to

Installers information

High-quality images

With any surveillance system, you need to see clearly what is going on in the image. That's why Bosch IP cameras are equipped with our Content Based Imaging Technology (CBIT) to ensure that camera settings are continuously and dynamically adjusted depending on movement, varying light intensity, and back- and front-light fluctuations. Intelligent Dynamic help you see who entered your warehouse, and at which time and date.

Our intelligent software lists all incidents.

- 5 A camera at the loading dock monitors the goods delivery process.
- 6 The central high capacity video recorder tapes and can replay up to 16 cameras. For example, this recorder can store more than 75 days worth of footage when using 4 cameras, 720p@30fps, with 4TB of storage.
- 7 Our intelligent software allows you to view all cameras, replay video, or find specific incidents on your PC or mobile device.

Noise Reduction (IDNR), a part of CBIT, is responsible for significantly reducing bitrates and therefore storage costs. Quiet scenes with little or no movement require a lower bitrate. By intelligently distinguishing between noise and relevant information, such as movement, IDNR reduces bitrate by up to 50%. Because noise is reduced at the source during image capture, the lower bitrate does not compromise on video quality. Network strain is reduced by only using bandwidth when needed.

No need to watch hours of video

All Bosch cameras can give an alarm when there are changes in the image, for instance when someone is walking by. These alarms can trigger the sending of a corresponding image to your mobile device, so you'll know right away that something is happening. Or you could scroll through these triggers later to find out what went on.

Water-, dust- and vandal-resistant

Our outdoor dome camera is protected against water and dust (IP66). In addition, it is suitable for installations where vandal-resistance is important (IK10). At night the camera switches to night-time imaging while maintaining sharp focus under all lighting conditions.

Access your images via your mobile device

Limited bandwidth makes it impossible to stream HD video on mobile devices. That's why Bosch uses Dynamic Transcoding to deliver both smooth live video streaming and instant access to HD still images when needed, regardless of available bandwidth. As you cannot be everywhere all the time, you can now use your mobile device to access camera controls, live video streams and HD images anytime, from anywhere. Dynamic Transcoding also enables you to instantly retrieve the correct video data from hours of recorded material (only in combination with the DIVAR IP 2000).

Safe storage of video content

You can choose how your video surveillance images are stored.

- Storage within the camera: use a MicroSD card for local alarm recording, i.e. recording will take place only when the camera detects movement in the image. All recordings on MicroSD cards can be exported to your central storage or PC. The camera's internal slot supports MicroSD cards of up to 2 TB. (SD cards to be purchased separately).
- 2. Central storage: add our DIVAR IP 2000 to record video from up to 16 cameras. This provides safe data storage, 24/7 remote access and offers advanced features to manage your video data. Storage capacity can be expanded to up to 8 TB.
- 3. Cloud storage: our system is directly compatible with Dropbox[™] to store still images automatically in the cloud. As soon as certain motion is detected by the camera, these still images will be generated. This will enable you to view these images from your PC or smartphone, wherever you are.

Example of a video surveillance system



Products used in this example

Image	Product name	Ordering code	Corresponds with number in drawing on pages 2 and 3.	Description	Starterkit, DIP-2042 EZNPC22
Cameras - Indoor					
	FLEXIDOME IP micro 2000	NUC-20012-F2	1234	Indoor IP microdome, 720p MicroSD card slot for edge recording * Motion, tamper and audio detection FTP, Dropbox and e-mail application	
	TINYON IP 2000 PIR	NPC-20012-F2I-W	1234	Indoor IP camera, 720p SD card slot for local recording * PIR-based motion and audio detection Integrated white light for night time viewing FTP, Dropbox and e-mail alarms	4x
Cameras - Outdoor					
T	FLEXIDOME IP outdoor 4000	NDN-41012-V3	5 6	Outdoor IP dome camera 720p with varifocal lens Select regions of interest and E-PTZ	
Recorders and network	¢ (
	DIVAR IP 2000	DIP-2042EZ-2HD	7	Video recording solution for up to 16 camaras. Storage up to 8TB capacity. Remote viewing via Video Security app and video client by Bosch. Helpful install wizard	1x
	Switch	Switch, D-Link DGS-1008P	7	Switch to connect up to 6 cameras, DIVAR IP 2000 and internet Speed of 1GB/s 4 ports will provide PoE	1x
Software					
BOSCH	Video security app iOS	Video security app	8	Connect your mobile device via this app to your Bosch IP cameras and experience video playback and access your recordings.	Free of charge
	Video security app Android	Video security app	8	Connect your mobile device via this app to your Bosch IP cameras and experience video playback and access your recordings.	Free of charge
	Bosch Video Client	Bosch Video Client	8	To view multiple sites or cameras simultaneously, Bosch provides the free of charge Video Security Client. This viewing software supports desktops, 2-in-1 laptops and mobile devices running Windows 8. It supports intuitive control via touch screen or mouse and keyboard operation to ensure maximum user friendliness.	Free of charge up to 16 cameras

* Remark: SD card not included within cameras

* Your complete system could consist of a starterkit and separate products

Bosch Security Systems

To learn more about our solutions, please visit emea.boschsecurity.com

To learn more about Video Systems, please visit www.boschsecurity.com/hdsecurity

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