



Making Security Easier.

Retail Security Systems

GKB POS Surveillance System

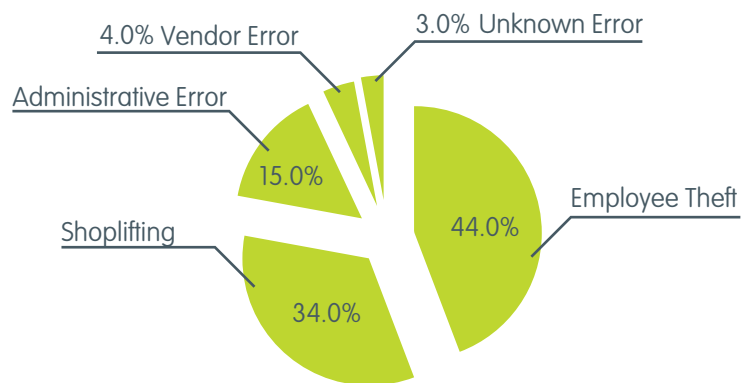
A Comprehensive Video Surveillance Solution for the Prevention of Retail-Related Theft and Fraud

The GKB POS surveillance system is a comprehensive 16-channel DVR system integrated with powerful loss prevention solution. This solution is suitable for retail business, it makes sure the register transaction would be recorded properly, allowing the management to verify cashier activity and provide evidence for fraud or unintended operational error.

Loss prevention is the largest battle retailers have to fight, in order to maintain and improve owner's objectives.

As pointed out in 2007 National Retail Security Survey conducted by Dr. Richard Hollinger at the University of Florida, retailers report an annual inventory shrinkage of \$34.8 billion. It shows 5 main reasons to cause this loss: Employee theft, Shoplifting, Administrative Error, Vendor Error, and Unknown Error.

Employee theft is often the largest cause of inventory shrinkage at retail organizations; 44% of all inventory shrinkage is attributed to employee theft, this translates to an employee theft price tag of \$15.2 million. If each transaction could be recorded properly and provide an efficient way to find the right video clip, the store owner could save lots of money and time each year.



Applications:

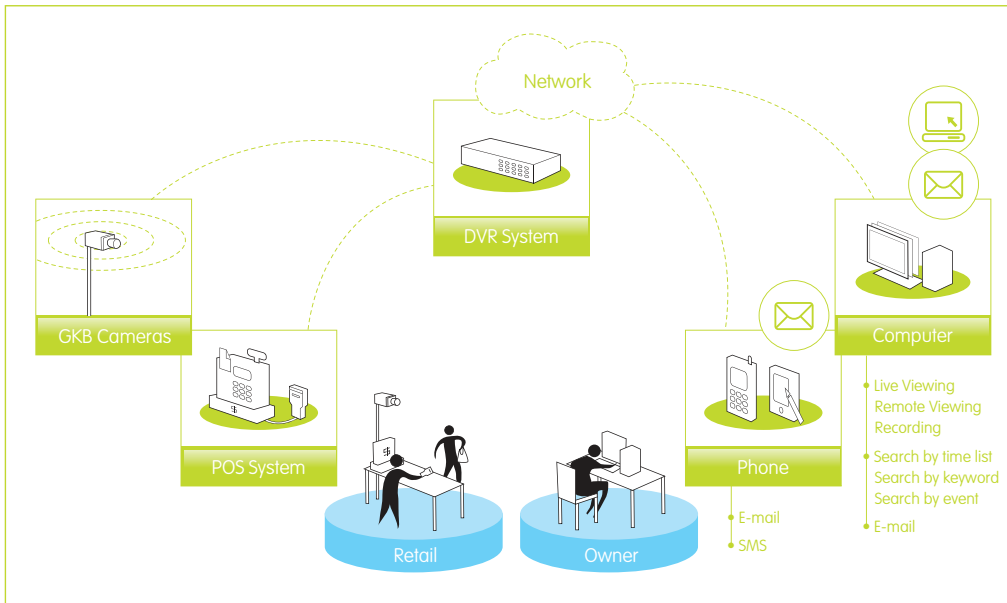
GKB POS surveillance system could extensively apply to every business use POS system. It record both live video and POS transaction data, provide evidence for fraud or unintended operational error to keep the inventory shrink low. GKB POS Surveillance System works in combination with pre-existing POS system and CCTV cameras. Applications that are well-suit for GKB POS surveillance system include:

- Convenience Stores
- Retail Chains
- Fast Food Chains
- Super Market
- Department Stores
- Liquor stores
- Outlet Centers
- Gas Station
- Parking Lot Toll Booths

For helping the owner to prevent the loss and gain more profit, GKB provide a perfect solution for loss prevention. By live/remote recording and viewing, the POS surveillance system provides visual contextual awareness to reduce shrinkage and protect asset against business losses.

System Diagram

GKB POS surveillance system can interface directly with widely used POS system (with EPSON POS printer), the easy installation, robust and reliable system makes the shop owner to minimum total solution cost.



Feature:

- **Easy Integration**
Easy integration with existing POS machine and analog CCTV cameras.
- **Smart & Advanced Search**
Provide different search methods for quick video searching.
- **Remote live audio/video recording and viewing**
Monitor and record video/audio of cashier areas through browser.

DVR management Interface:

Search by time list; Search by keyword; Search by event

GKB POS surveillance system allows the owner to search the video clips by time search, transaction list, and keyword search.

User can define the range of time, and DVR will automatically list all the transaction made by this period, the matched files are according to the selected criteria.

GKB POS surveillance system helps the owner with tools to remotely monitor cashier area, associate POS transaction data with videos, record video/audio for retroactive analysis.

POS Search		
Camera	2009/03/14	08:47:57
Key word	2009/03/14	08:50:13
Time	2009/03/14	09:09:57
Year	2009/03/14	09:04:54
Month	2009/03/14	09:05:52
Day	2009/03/14	09:15:29
Date	2009/03/14	09:17:38
Hour	2009/03/14	09:22:02
Minute	2009/03/14	09:22:57
Minute	2009/03/14	09:23:30
Minute	2009/03/14	09:26:12
39 matched file found.	2009/03/14	09:29:13
Page: 1/3	2009/03/14	09:29:18

[MODE] - Start Searching, [SEQ/X2] -Page Up/Down

Solution Content:



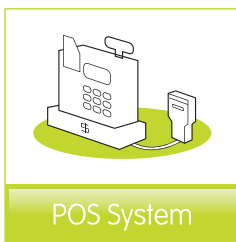
GKB R1603 16CH. H.264 Standalone DVR

- H.264 video compression/decompression with configurable quality
- Real hexaplex operation - simultaneous record, live, playback, backup, control, & remote access
- Record capabilities from Full D1 to CIF.
- Digital zoom, 2X & 4X



GKB Analog Camera: Multiple models for your different needs.

- High Resolution, 580/550 TVL.
- Various Box Camera, IR Camera, Bullet Camera for different environment.
- Easy installation, save time and money on labor cost.



Compatible POS system/printer

Compatible with POS system with EPSON POS printer

Advantage of GKB POS surveillance in retail business

- **Lower the stock wastage and cash shrink**

GKB POS surveillance system helps the store owner to lower the wastage by recording the video and compare it with transaction list immediately, help to further assist in the hunt for fraud, theft and office error.

- **Record both live video and POS transaction data to keep every transaction clear and correct**

By implementing the POS surveillance system to retail store, statistics shown on the system could substantially slash the cash shrink; discover plenty refund frauds and other wrongdoings. Furthermore, this video clip could also be evidence as prosecution is ongoing since DVR could provide watermark function.

- **Comparing transaction data with video for identifying fraud or unintended operations**

GKB POS surveillance doesn't need extra text inserter to make the transaction data show on the image. The DVR automatically superimpose transaction data on the recording image, and owner can find the right video clip very soon and to compare transaction data with video when necessary.

- **Secure a good environment for both employee and customer**

GKB POS surveillance system could not only lower the loss for the owner, but also provide a safer working/shopping environment for employee/staff/customer. GKB DVR R1603 could connect to various types of cameras to have surveillance function, and DVR itself also provide PTZ control, E-map, GPS control to satisfy with different needs.

- **Easy to implement**

GKB POS surveillance system could directly integrate existing CCTV cameras with POS system, no need to add additional expensive equipment, no troublesome cabling and problem-solving. Simply plug the POS equipment into the DVR, set up the connection by friendly OSD menu in DVR, and then watch your transaction flow!

Specification of GKB R1603

GKB R1603 is 16 ch. H.264 DVR compatible with POS surveillance system

System Mechanism	System	Embedded Linux 2.6
	Mode	Sixfold operation - simultaneous record, live, playback, backup, control, & remote access
	Video Channel	16
Video	Compression	H.264
	Display	NTSC - 480FPS/D1 PAL - 400FPS/D1
	Record	NTSC – 60FPS/D1, 120FPS/Half D1, 240FPS/CIF PAL – 50FPS/D1, 100FPS/Half D1 200FPS/CIF
	Recording Mode	Manual/Schedule/Alarm/Motion
	Display Division	1/4//7/9/10/13/16 Sequential switch
	Playback Mode	Smart search, Date/time, Camera, Alarm, Motion, & Video Loss
	Intelligent Detection	Yes
Network	Network Interface	1 RJ-45 10/100Mbps TCP/IP, HTTP, PPPoE, DHCP,
	Protocol	DDNS, FTP, TSP
	3G/GPRS	PC, mobile phone, or PDA
Power	Source	90~264 VAC, 47~63 Hz
	Consumption	110W Max.
Dimension	430(W) x 330(D) x 88(H)mm	
Weight	5.0 kg (without HDD)	
Operating Temperature	0°C ~ +45°C	
Support 3G smart phone, PTZ management, e-Map management, GPS management, POS system, and Mouse control.		

GKB Security Corporation (GKB) is a global security solutions provider with a full range of user-friendly products, security solutions and support services designed to meet the needs of small and medium-sized system integrators and security installers.

For more information about this solution, please visit us at www.gkbsecurity.com or email to sales@gkbsecurity.com for customize solution enquiries.

