

# SCHOOL SOLUTION

Safeguard students, staff and properties, and facilitate the operations

- Security Management
- Operation Management



# SCHOOL SOLUTION

## INTRODUCTION

Schools are always facing the challenges of burglary, vandalism, bullying and violence, and in such a sizable area where there are numerous students, staff and properties, it is not possible to ensure people's safety and protect properties in schoolyard merely by human efforts. Our video based solution can not only effectively deter these crimes and record court-admissible evidence to verify all the incidents at school or even on the school bus, but also build a prompt reporting system for immediate responses to the accidents. By investing in this solution, you will be able to enjoy the benefits of better security management and more efficient operations at the same time.



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# SECURITY MANAGEMENT

Protect your students and properties, and record court-admissible evidence

## Burglary Prevention



Labs, teachers' offices or meeting rooms are often the targets for burglary because of the valuable equipment. Our video solution can detect the intrusion and then trigger the control center to take actions immediately.

## Vandalism Deterrence



Schools sometimes suffer the monetary losses as a result of vandalism. With the installation of the surveillance system, the chances of vandalism can be effectively reduced, and even if it happens, you still have the video proof to ask for damages.

## Camera Tampering Detection



When camera manipulations happen, such as redirection, defocus, and covering or spray-painting the lens, it may indicate someone is there trying to commit crimes. The surveillance system can detect the tampering, and immediately alert the control center.

## Driver's Accountability



The school bus driver will be monitored remotely, reinforcing driver's accountability for his driving and road conduct. Also, the recorded videos can corroborate events upon claims such as poor driver's behaviors or car collisions.

## Prevention of Unauthorized Access to Dormitory



Without surveillance videos, it is hard to be sure if the identity shown in the entry log matches the accessing person. Access control integrated with the surveillance system can remarkably prevent the crises resulted from identity fraud by providing video proof and entry log at the same time for verification.



When someone is entering the room, the access control system will record only this entry, without noticing the people who tail behind and access without any access card. To avoid the danger generated from this situation, the surveillance system can detect it and alert the control center.

# OPERATION MANAGEMENT

Build an efficient reporting system and multimedia communication channel

## Bullying Reporting System



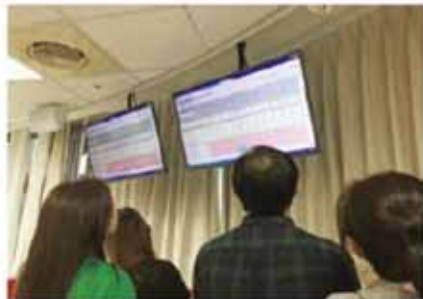
With surveillance system, bullying can be stopped only by few taps on the mobile phone. Students can install a free app that works as a panic button. Once a student gets bullied, anyone who witnesses the bullying can push the incident anonymously to notify the security center, and the security guards can manage the crisis with video evidence in time.

## Incident Notification on School Bus



The school bus driver can alert the control center upon incidents via the alarm button, which can be connected to the in-vehicle surveillance system. The control center can also verify the incidents from the video and take the right actions.

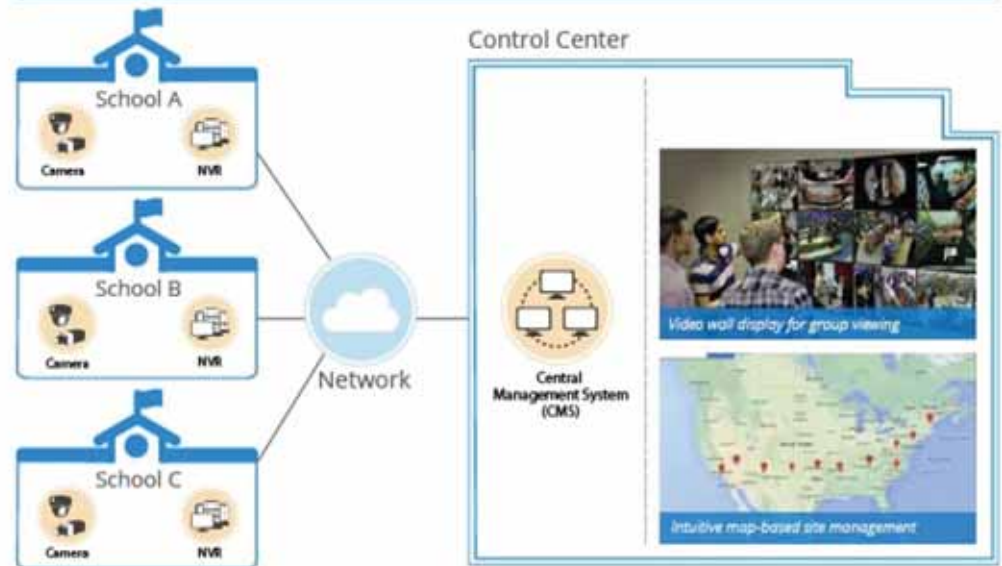
## Digital Signage Board



It is not efficient to deliver messages or promote activities by pinning the paper on the bulletin boards. With the digital signage board, you can send out the information to many spots at the same time, and dynamic graphics can definitely attract more attention. Also, it can display instructions and escape routes if disasters or fires occur.

# MAP-BASED CENTRAL MANAGEMENT

Conveniently manage all the schools in a control center



# REMOTE MONITORING FROM MOBILE DEVICE

Get real-time video feeds anywhere



### See Live View



### Watch Playback



### Control PTZ Cam



### Take Snapshots





# UNIFIED SOLUTION

Cameras • NVRs • IVS • CMS • Client Applications

## Cameras



- Up to 12 megapixel resolution
- Various camera types for different applications
- Super wide angle lens or fisheye lens
- Local storage for recording back-up
- Clear videos with details in any lighting condition
- Surveillance both in daytime and nighttime
- Weatherproof, vandal proof and vibration proof

## Network Video Recorders (NVR)



- Up to 200 channels of cameras supported
- High definition live view with preferable layouts
- Simple and fast search for recorded videos
- Recording based on custom schedules or events
- Optimal reliability with redundancy system



- Up to 32 channels of cameras supported
- Simple and fast search for recorded videos
- Data transmission through 3G/4G and Wi-Fi
- Ignition control and surge protection
- Vibration proof

## Intelligent Video Surveillance (IVS)



- Smart algorithms to detect various scenarios
- Camera tampering detection to stop any ongoing crime
- Precise analytics and reports for better operation management

## Central Management System (CMS)



- Unlimited cameras and NVRs supported
- Map-based site management
- Single control center to manage and monitor multiple sites
- Video wall display for group viewing

## Client Applications

### - Mobile Client -



- Both iOS and Android supported
- Live monitoring from everywhere with mobile devices
- Access to cameras, NVRs and CMS servers
- PTZ camera control and snapshot

### - Media Display Station -



- Displaying videos or slide shows on signage channels
- through paired software Digital Signage Station 1
- HDMI output with 1080p resolution
- Easy installation with surface, VESA and pole mounts

### - Workstation -



- Both Windows and MAC OS systems supported
- User-friendly interface to configure NVR or CMS servers

### - Mobile Panic Button -

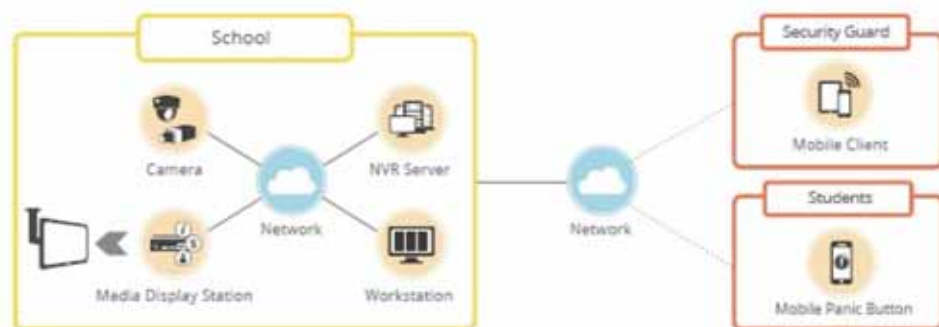


- Both iOS and Android supported
- Pushing the incident anonymously to notify the security center

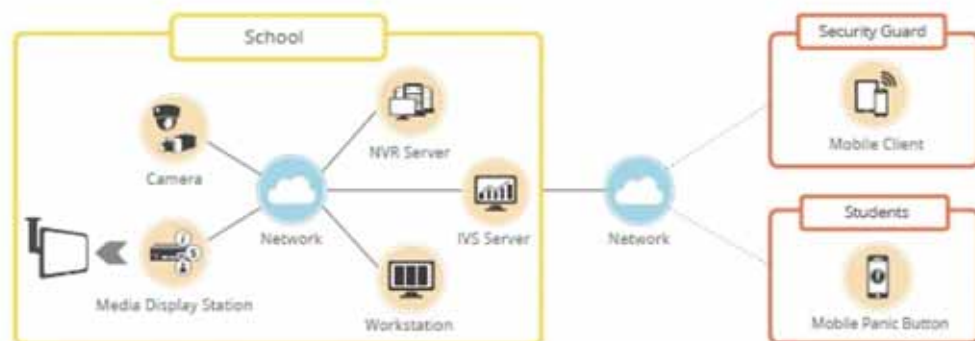
# SOLUTION ARCHITECTURES

Satisfy your surveillance needs with flexible solution architectures

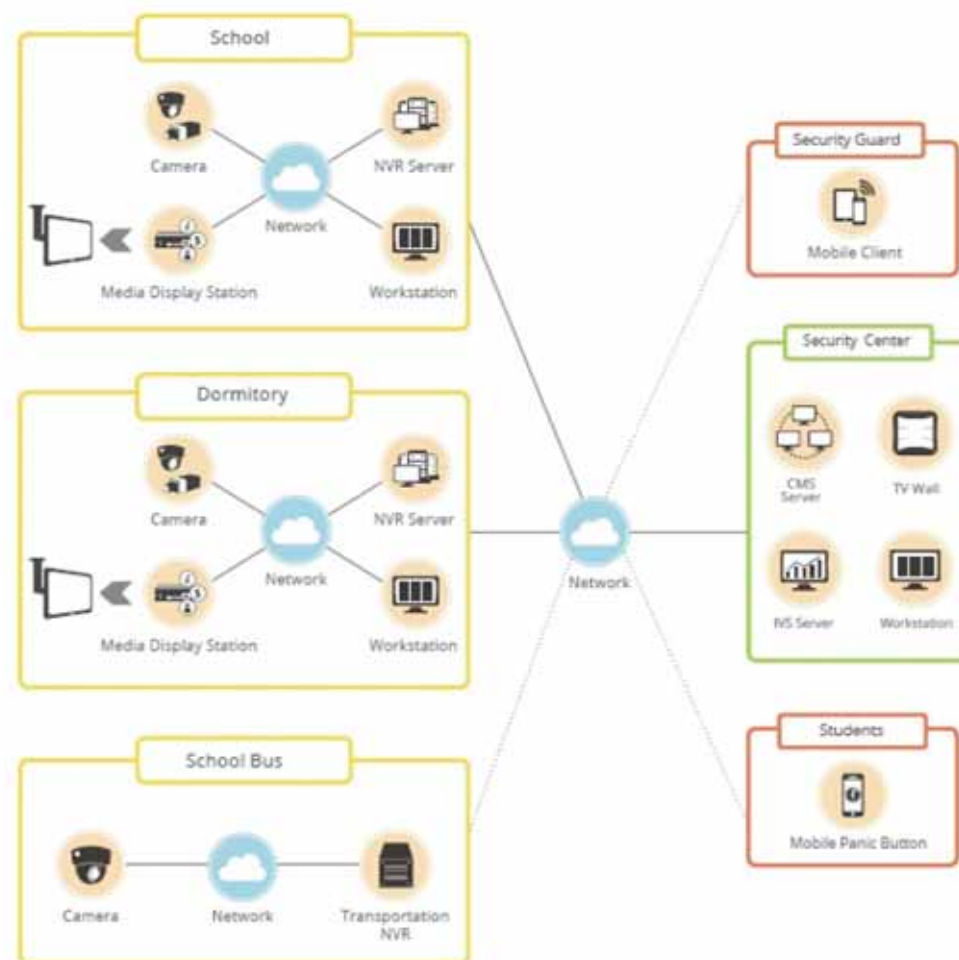
## Basic Solution



## Advanced Solution



## Complete Solution



# RICOH, YOUR BEST PARTNER IN SCHOOL SECURITY AND MANAGEMENT

As a fast growing solution provider, Ricoh is dedicated to manufacturing state of the art IP video surveillance technology and providing end-to-end turnkey solutions worldwide. To satisfy the security needs for school applications and improve operation management, not only can Ricoh surveillance system capture clear images for you to recognize all the details, but also build an efficient reporting system for incidents. With video proof, the suspicious activities and incidents in the schoolyard can be immediately verified and handled. Thanks to its intelligent and analytical ability, it can also be a smart detecting system to prevent any potential crises.

Safeguard your school with Ricoh now !

## RICOH (MALAYSIA) SDN. BHD. (10078-W)

Lock + Store, Level 1 & 3,  
No 5, Jalan Penyair U1/44, Off Jalan Glenmarie,  
40150 Shah Alam, Selangor Darul Ehsan.  
T 03-5565 3888 F 03-5569 7761 / 03-5569 7760

JB Network Operations Centre .  
No 49A, Jalan Harmonium 23/14,  
Taman Desa Tebrau, 81100 Johor Bahru,  
Johor Darul Takzim.  
T 607-3596833 F 607-3596877

<b>Alor Setar</b>	T 04-730 3299	F 04-730 2880
<b>Ipoh</b>	T 05-254 9251	F 05-253 5377
<b>Johor Bahru</b>	T 07-351 8311	F 07-352 3622
<b>Penang</b>	T 04-283 7354	F 04-283 7439
<b>Melaka</b>	T 06-282 7500	F 06-282 8931
<b>Kota Kinabalu</b>	T 088-439 427	F 088-432 845

For more information, please contact :

**1300 88 8228**  
**www.ricoh.com.my**

 **RICOH MALAYSIA (Official)**



www.ricoh.com.my