THE EDUCATION SOLUTION
FOR SCHOOL BUS SURVEILLANCE
COMMON CHALLENGES

A school bus system is one of the most important transportation methods for students all over the world. But the potential safety risks associated with them often go overlooked. A school bus security system should be able to:

- Supervise drivers to prevent unsafe driving
- Capture the bus’s interior and exterior for comprehensive monitoring
- Monitor the entire vehicle and ensure students remain safe to and from school

PURPOSE OF THE SYSTEM

System Stability & Reliability
Maintain a smooth & reliable system at all times

SMS Linkage
Parents receive notification after student swipes ID card on bus

Data Analysis
Using data analysis to improve management

HD Video
Ensure video quality for real-time monitoring & review

Accurate GPS Location
To locate & track vehicles in real-time

Effective Detection
Take precautionary measures in a timely manner
**SYSTEM ARCHITECTURE**

**MOBILE VIDEO SURVEILLANCE SYSTEM**

Onboard video management: Mobile video recorder and cameras installed on vehicle

Transmission Network: Using 3G or 4G network connections

iVMS Management: Central management for monitoring and more

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**MOBILE VIDEO SURVEILLANCE SYSTEM FOR MULTIPLE SCHOOL BUSES**

Onboard video management: Mobile video recorder and cameras installed on vehicle

Transmission Network: Using 3G or 4G network connections

iVMS Management: Central management for monitoring and more
SYSTEM COMPONENTS AND HIGHLIGHTS

ONBOARD VIDEO MANAGEMENT WITH FRONT END DEVICES

- Accurate GPS location information is sent to the center in real-time and is stored for playback.
- High quality video footage is recorded locally. Remote access to video facilitates review and forensic evidence gathering.
- Two-way audio between driver and command center provides convenient communication when needed.
- When local alarm is triggered, real-time notifications will be sent to command center.

TRANSMISSION NETWORK

Data stream and messaging transmit entirely across a wireless network:
- Device registration data
- Device “heartbeat” signal for backup
- Live view & playback stream
- GPS data
- Alarm data

*The ability to perform certain functions at a command center depends on local wireless network coverage, bandwidth, and quality. Hikvision engineers will assist in examining and/or creating the necessary parameters during installation process.

iVMS MANAGEMENT

- Central vehicle management and vehicle parameter configuration
- Traffic data analysis includes vehicle mileage statistics, network usage for transmission, and more
- Live view for real-time video provides easier management and monitoring
- Two-way audio communication ensures communication between command center and any vehicle when necessary
- Alarm, system updates, and linkage – Receive and monitor alarms, and ensure the command center is alerted of events
ADDITIONAL FEATURES

Optional Wi-Fi backup:
With high transmission speeds (over 30 Mbps per device), users can backup and secure all video footage of an entire day rapidly.

Log rides with student ID cards:
ID cards equipped with parent contact information send text messages as students board the bus. Information on a card also transmits to the command center for recording, reviewing, or exporting reports.

TYPICAL APPLICATION SCENARIO

Camera placement suggestion:
1. Monitors driver seat and the entrance
2. Monitors the inside of the bus without blind spots
3. Monitors the inside of the bus without blind spots
4. Monitors the areas in front of the bus
5. Monitors entrance from the outside
6. Monitors the side traffic and exterior of the bus
7. Rear-facing security and traffic camera
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