

HIKVISION[®]

**THE SOLUTION FOR
SCHOOL BUS SURVEILLANCE**

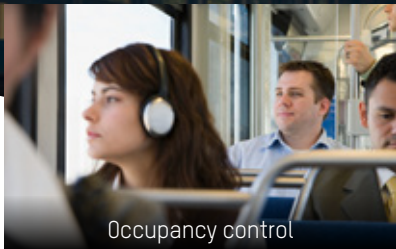


SCHOOL BUS

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



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



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



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



Data Analysis
Using data analysis to improve management

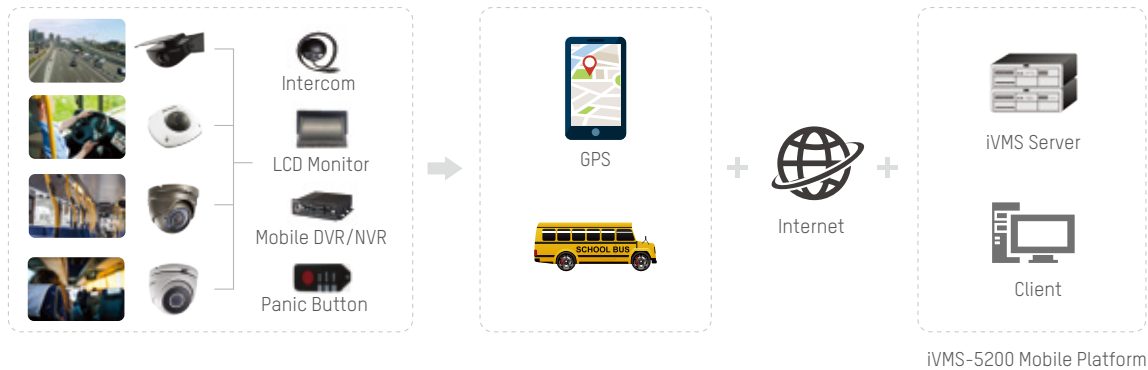


Effective Detection
Take precautionary measures in a timely manner



System Architecture

Mobile Video Surveillance System



System Components for Mobile Surveillance Systems

Onboard video management

Mobile video recorder and cameras installed on vehicle

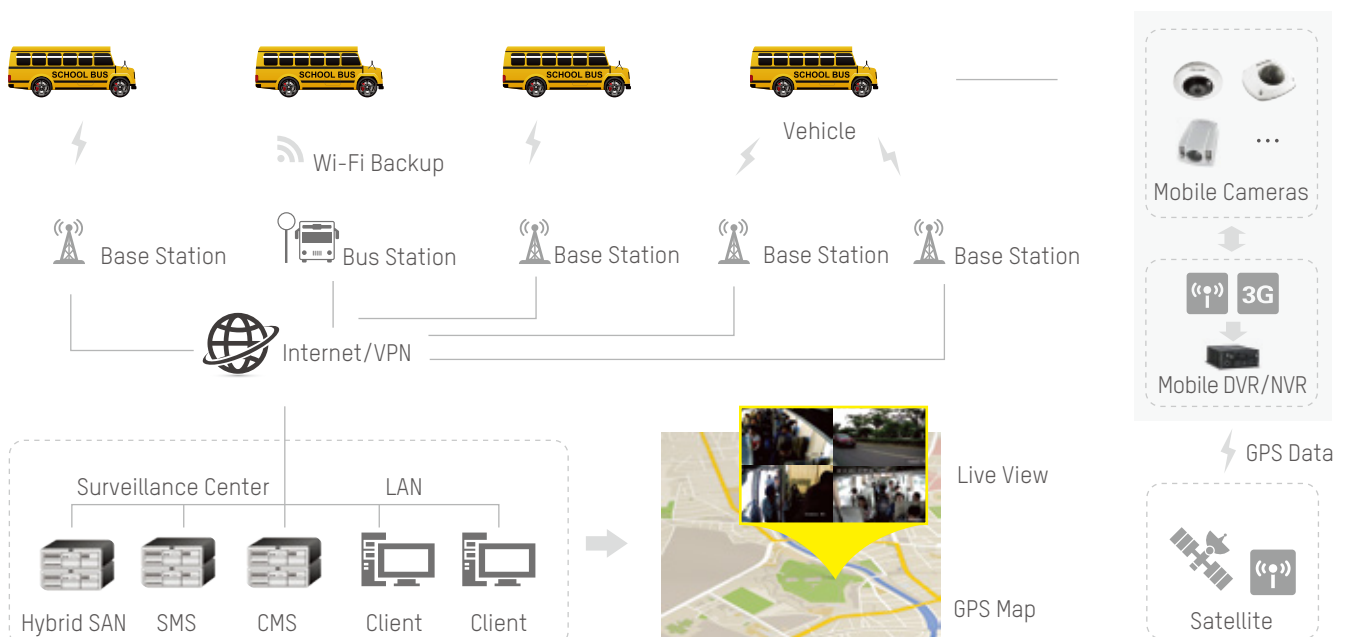
Transmission Network

Using 3G or 4G network connections

iVMS Management

Central management for monitoring and more

Mobile Video Surveillance System for Multiple School Buses



Students Attendance Check



Features

1. Receiving the real-time tapping card record via iVMS
2. Searching the history tapping card record
3. Sending the SMS to the student's parents
4. Supporting exporting bus attendance report

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

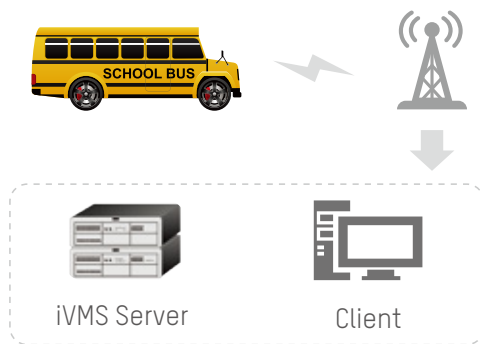


Two-way audio between driver and command center provides convenient communication when needed



When local alarm is triggered, real-time notifications will be sent to command center

Transmission Network

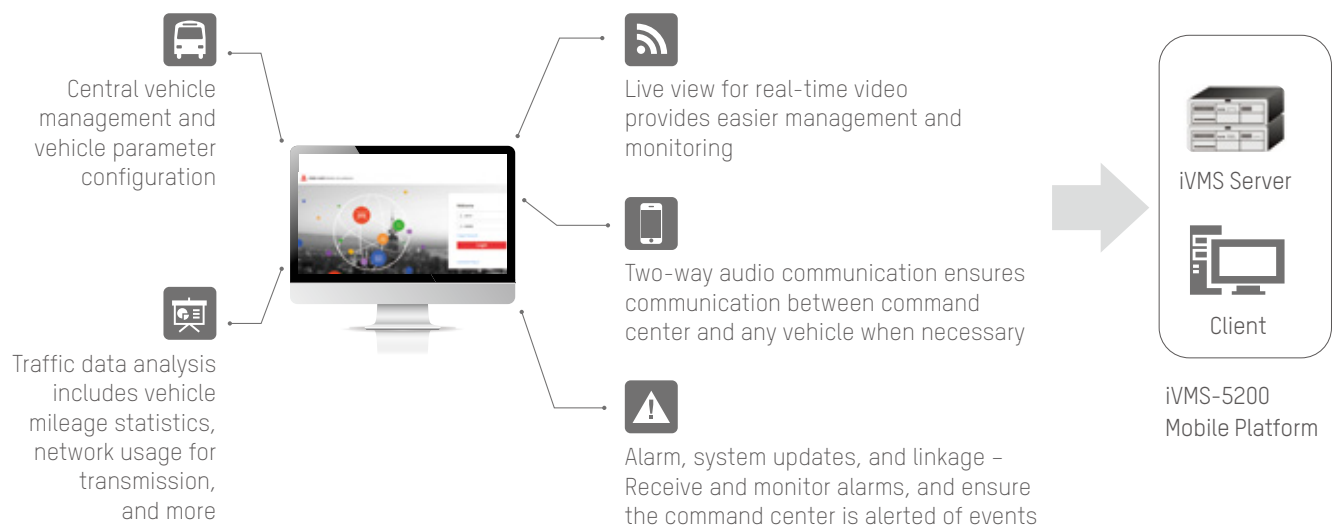


Data stream and messaging transmit entirely across a wireless network

- 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



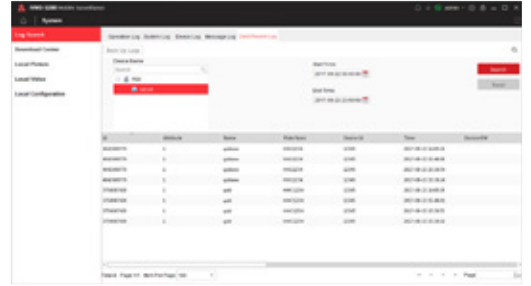
✧ Additional Features

Optional Wi-Fi backup

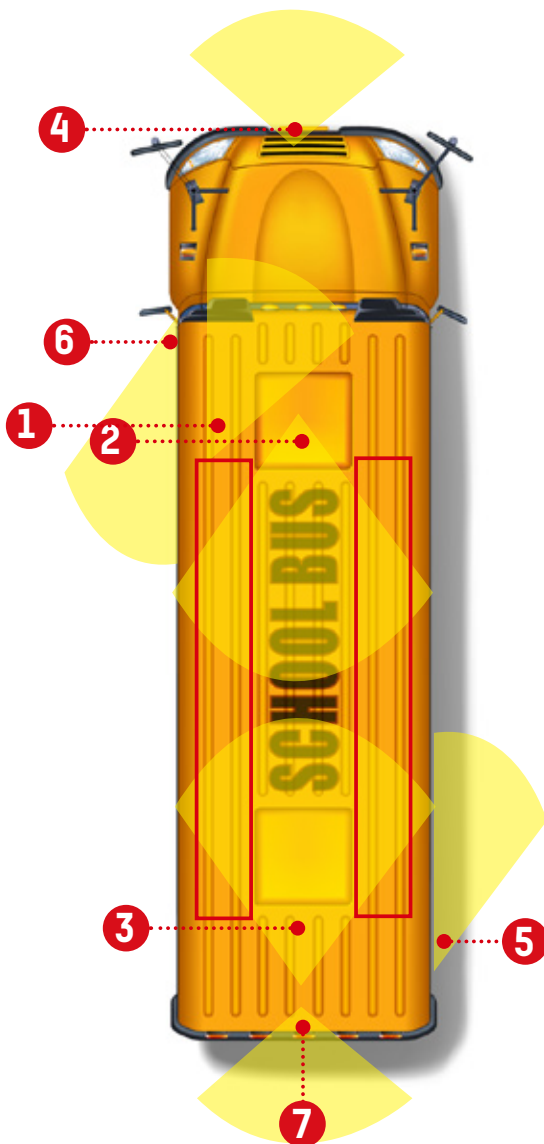
With high transmission speeds (over 30 Mbps per device), users can backup and secure all video footage of an entire day rapidly.

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



Bus interior



Driver's seat



Bus exterior

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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