HIKVISION®

# THE 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


Occupancy control


Driver monitoring


Accident response

## 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

**MOBILE SURVEILLANCE**

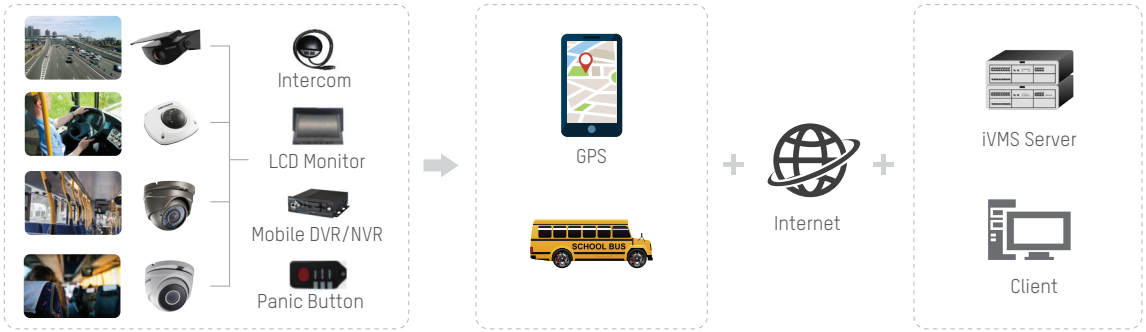
### HD Video
Ensure video quality for real-time monitoring & review

### 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




iVMS-5200 Mobile Platform

### System Components for Mobile Surveillance Systems

**Onboard video management**

Mobile video recorder and cameras installed on vehicle

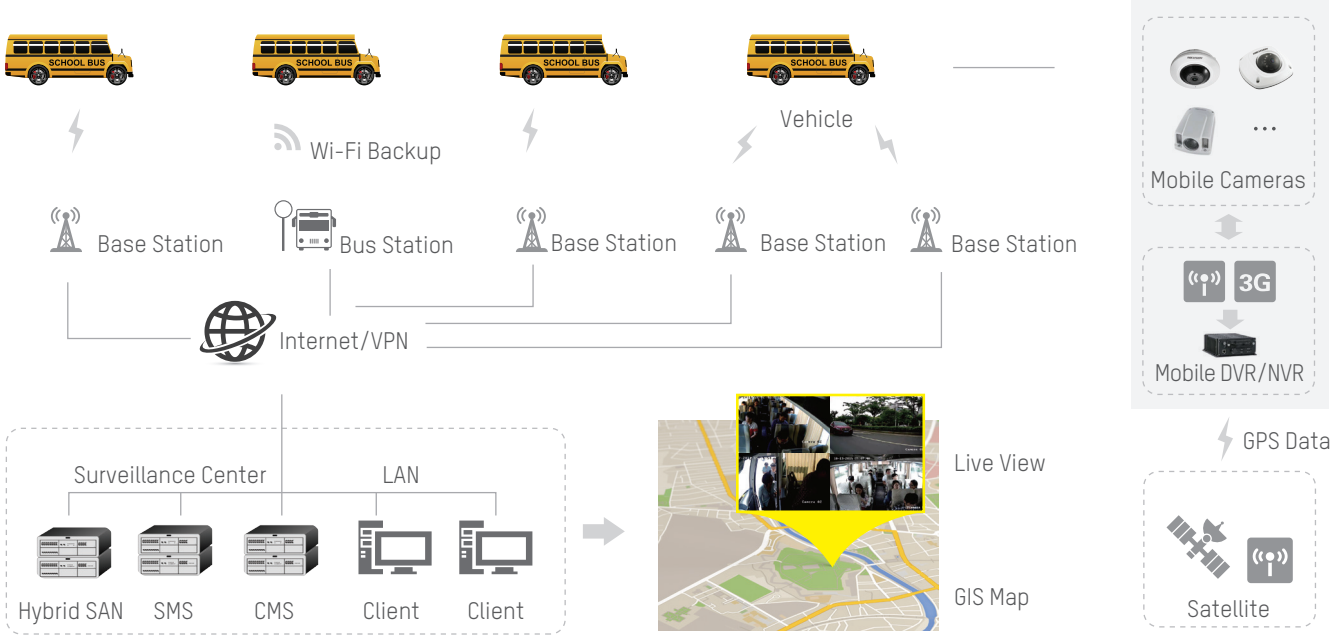
**Transmission Network**

Using 3G or 4G network connections

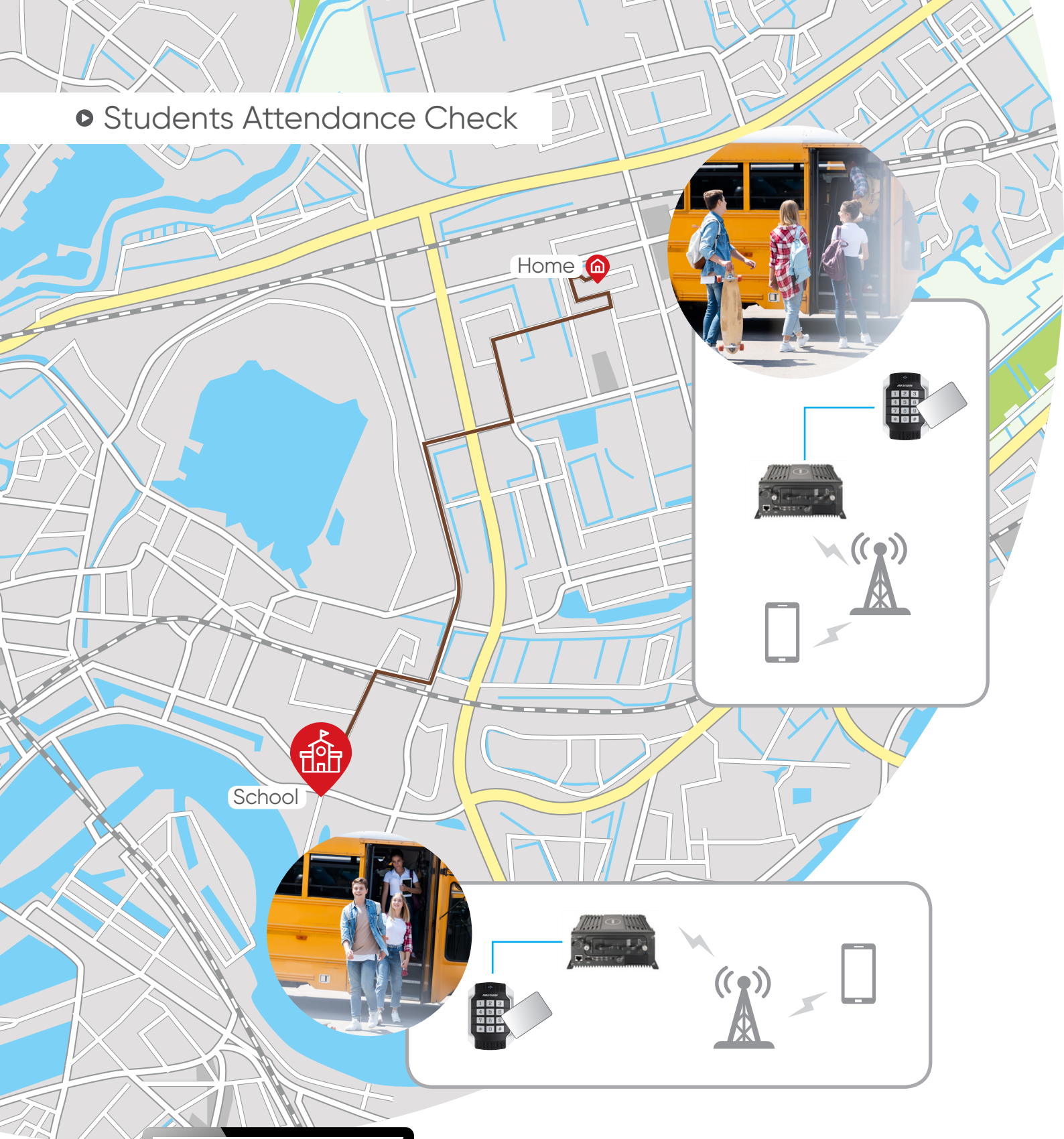
**iVMS Management**

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

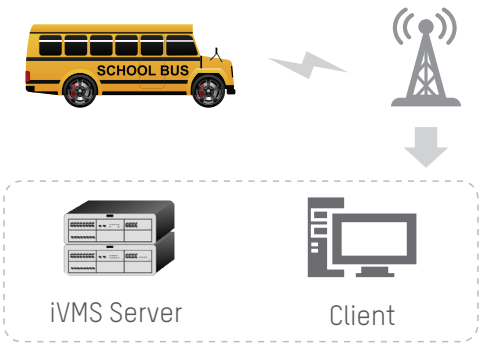
Accurate GPS location information is sent to the center in real-time and is stored for playback

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

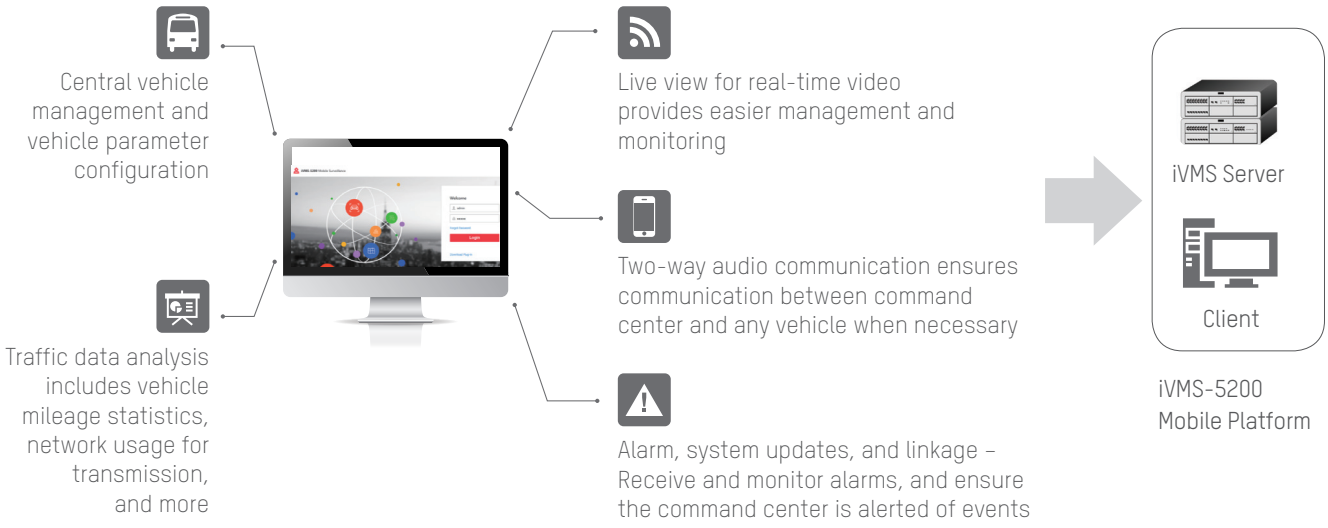



### Data stream and messaging transmit entirely across a wireless network

- 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.*

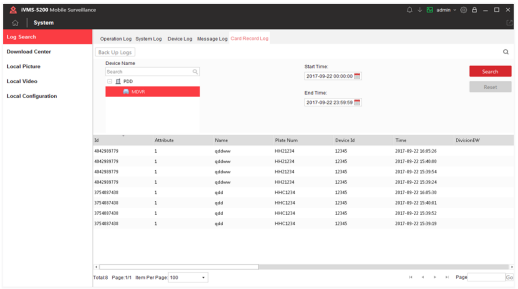
## iVMS Management



# Additional Features

## Optional Wi-Fi backup

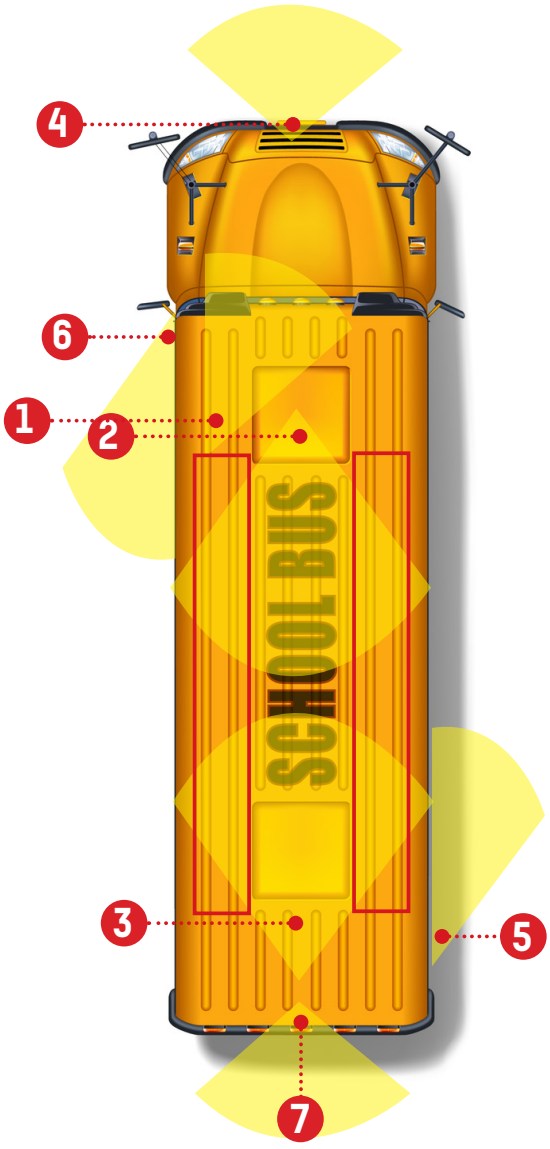
With high transmission speeds (over 30 Mbps per device), users can backup and secure all video footage of an entire day rapidly.



## 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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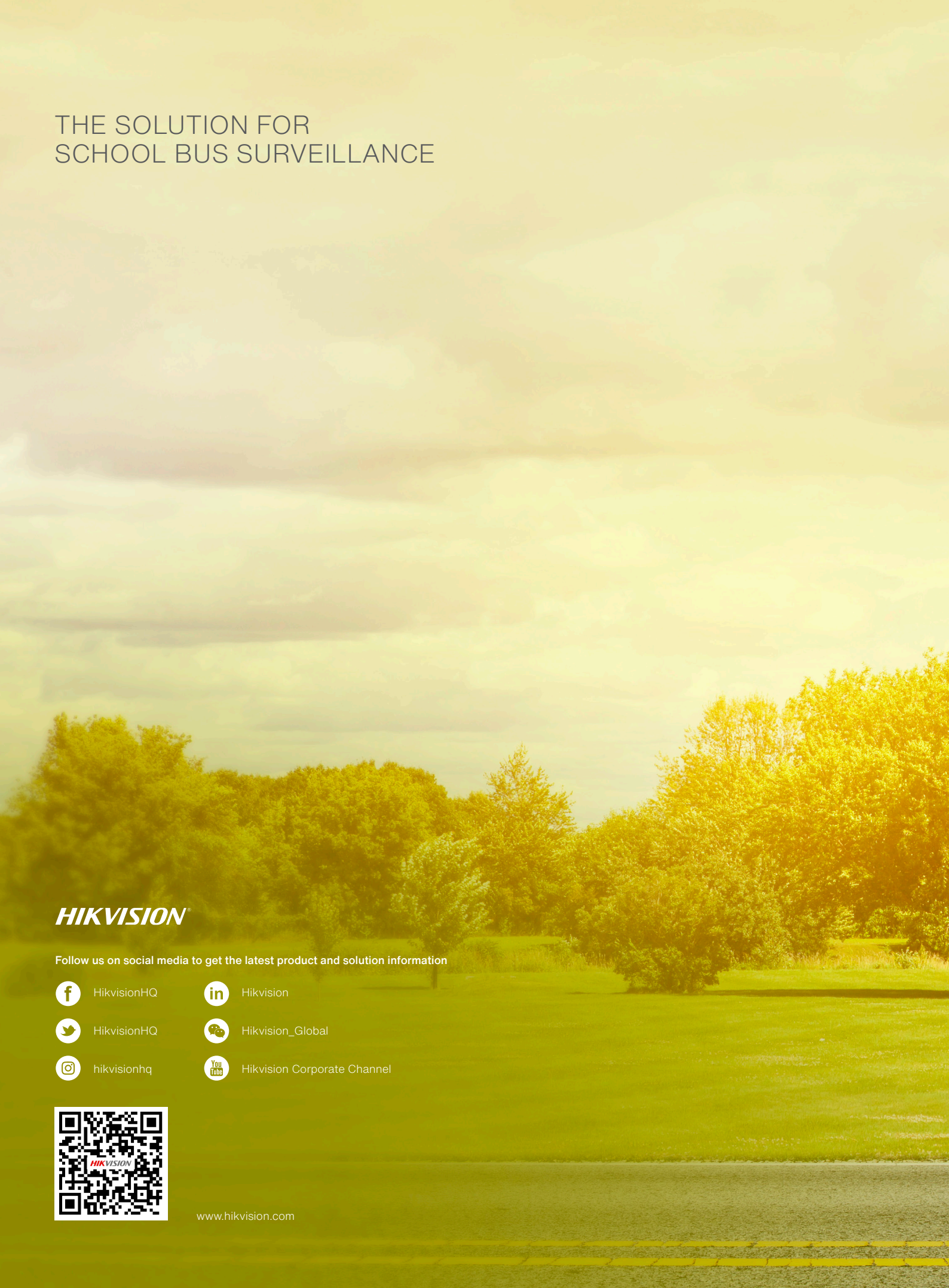

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