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THE EDUCATION SOLUTION FOR CAMPUS SECURITY AND PROTECTION & FOR SCHOOL BUS SURVEILLANCE

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COMMON CAMPUS CHALLENGES

As students spend the majority of the day in schools, campus security is of paramount importance to every school administrator and every parent. In order to develop an effective security system, all the possible risks – including suspects breaking into campus, stealing, and threatening student safety – must be fully considered. A campus security and protection solution utilizing PRAMA's most advanced network, audio, video, and intelligent recognition technologies, ensures students, parents, and administrators can enjoy a secured and serene learning environment.



SYSTEM ARCHITECTURE





SCHOOL GATES

FACIAL IMAGE CAPTURE AND BLACKLIST ARMING



System Features

- Batch import of blacklist from VMS
- Downloading of face image library from VMS to intelligent devices
- Intelligent device scan run comparisons against different face libraries
- · Stores all captured facial images in the center
- Receives real-time blacklist alarm
- Searches by stored image for suspicious personnel

AUTOMATIC NUMBER PLATE RECOGNITION (ANPR)

Entryways constitute the first critical threshold for campuses. Security guards must pay close attention to vehicles to prevent security events.

- Automatic Number Plate Recognition & Recording
- Vehicle List Management
- Blacklist Warning and Whitelist Recognition
- History Search & Report









UNDER VEHICLE SURVEILLANCE SYSTEM (UVSS)





- · Automatically detects vehicle undercarriages
- Synchronizes ANPR/LPR camera data with under-vehicle images
- Suits various vehicle models, with entire vehicle chassis in one picture
- High-durability design
- High-quality imaging with low distortion

VIDEO SURVEILLANCE IN IMPORTANT SCENES PUBLIC AREAS



Panoramic Cameras provide a comprehensive view for large open areas as well as clear close-up video surveillance when needed.



MAIN ROADS



Photo by phone (slow shutter)



Low-Light Performance cameras ensure video surveillance of the main roads is clear day and night.



ACCESS CONTROL FOR OFFICE AREAS

For other indoor areas such as meeting rooms, offices, financial offices, and laboratories, access control devices can be used to unlock doors. Users can customize various combinations of cards, fingerprints, or facial information for access credentials.







PERIMETER PROTECTION





MONITORING ROOMS



- Up to 3 auxiliary screens for multiple channels and live view. Supports up to 256 cameras per live view
- Up to 8 auxiliary screens for multi-task operation

Live View Playback Alarm Linkage

Smart Wall Application

- Alarms pop up on Smart Wall
- Associated channel pushed to Smart Wall

Windows Operation

- High Brightness
- High Contrast
- Quick Response
- Color Enhancement
- Dynamic Self-Adaptive





Joint Mode



Roaming Mode



- Powerful decoding capability
- PC signal input
- · Joint screens for comprehensive and detailed video viewing
- Display enhancement
- Reliable system
- Easy maintenance



COMMON CHALLENGES FOR SCHOOL BUS

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 ARCHITECTURE MOBILE VIDEO SURVEILLANCE SYSTEM



System Components for Mobile Surveillance Systems

Onboard video management

Transmission Network

Mobile video recorder and cameras installed on vehicle

Using 3G or 4G network connections

Central management for monitoring and more

MOBILE VIDEO SURVEILLANCE SYSTEM FOR MULTIPLE SCHOOL BUSES





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. PRAMA engineers will assist in examining and/or creating the necessary parameters during installation process.

VMS 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.

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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