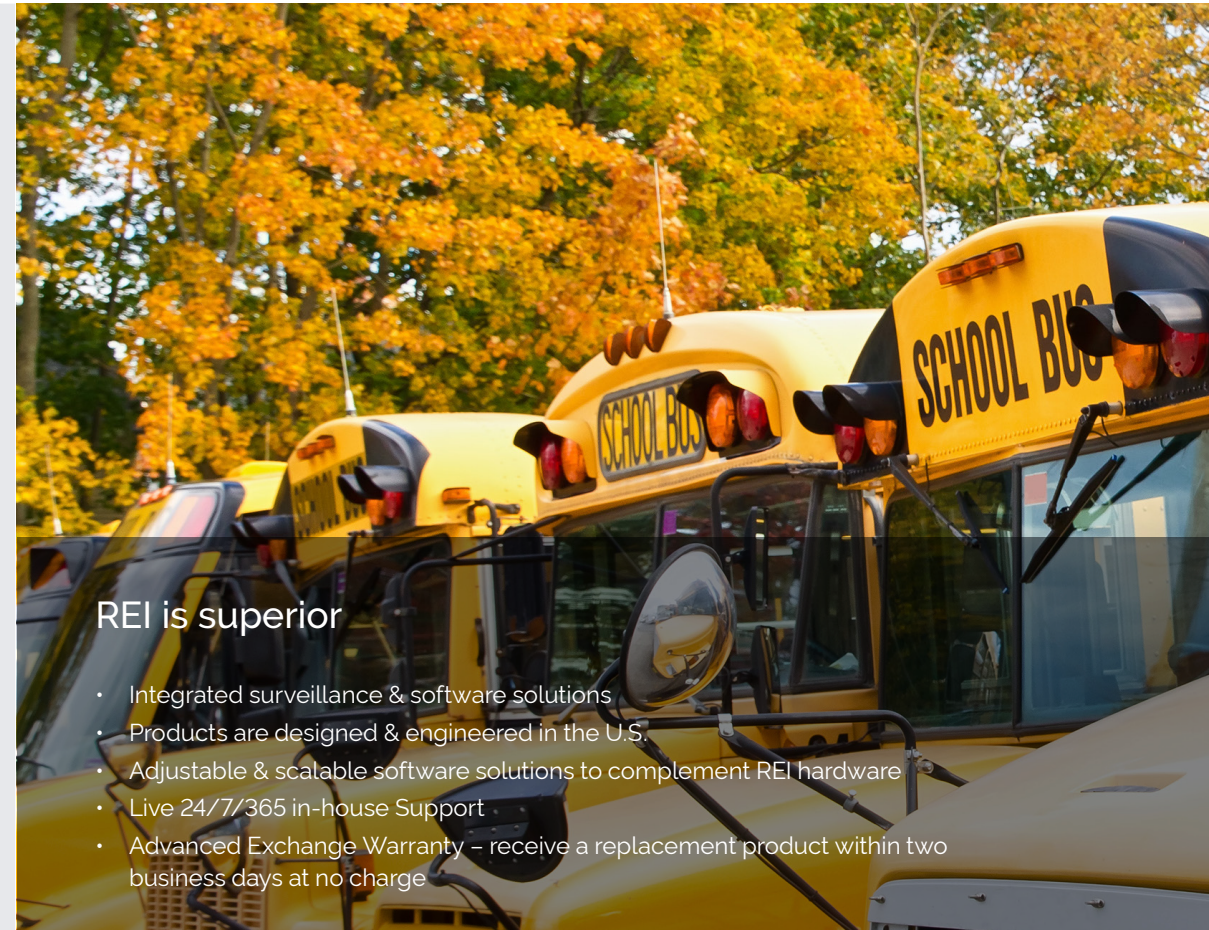




MOBILE VIDEO SURVEILLANCE

SCHOOL BUS SOLUTIONS

surveillance highlights



REI is superior

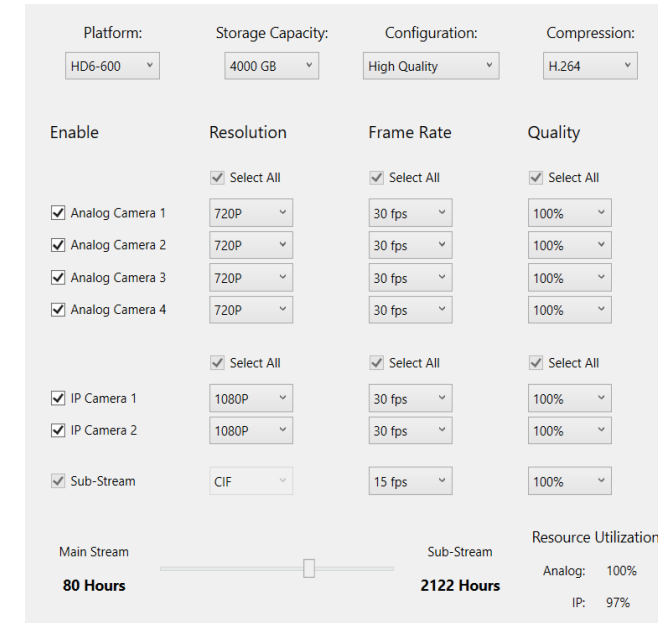
- Integrated surveillance & software solutions
- Products are designed & engineered in the U.S.
- Adjustable & scalable software solutions to complement REI hardware
- Live 24/7/365 in-house Support
- Advanced Exchange Warranty – receive a replacement product within two business days at no charge

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elevate fleet safety & operational efficiency with an all-in-one solutions provider for the school bus industry

- Bus**
 - Commercial
 - Motorcoach
- School**
 - Transit
- Commercial Truck**
 - Delivery
 - Fleet
 - Waste/Refuse
- Emergency Vehicle**
 - Ambulance
 - Fire Truck
 - Mobile Command
 - Police
- Agriculture**
- Construction**
- Dealers**
- OEM**



Triple-Stream Technology

Record views in three resolutions simultaneously and easily balance video quality and storage space with REI's Record Time Estimator.

Wireless Setup

Program interior and exterior views wirelessly with REI's DVR Tool Kit app; a smartphone, tablet or laptop; and optional Wi-Fi Dongle. Establish perfect camera angles and turn cameras on/off while moving freely around your vehicles.

Better Bit Rate

Higher bit rates lead to sharper images, enhanced colors and exceptional resolutions. REI offers the highest bit rate in the industry.



REI DVR Tool Kit app

Wi-Fi Dongle

DVRs & cameras

DVRs

HD6 Series 6-Channel



HD5 Series 12-Channel



Record and retain high-definition proof of events. REI's lightweight, durable DVRs capture crystal-clear video and audio, providing indisputable details. Among their innovative features is an optional, internal cellular modem. Connect up to 12 cameras to capture stunning surveillance views from your school buses.

Versatile – connect up to 12 HD cameras for interior and exterior views

Enhanced clarity – see small details with up to 1080p HD video available on all channels

Durable – vibration dampening integrated into hard-drive housing

User-friendly – configure for iOS or Android™ handheld devices

Dependable – operate to -40° F with integrated heater

Secure – maintain privacy with optional front and rear covers

Safe – consistent, regulated power to all cameras, external devices and peripherals






Integrative – optional built-in cellular router eliminates the need for add-on router

Fast – upgrade to solid-state drive for improved performance

Features

 up to 1080p HD video on all channels	 4K UHD IP channels	 GPS (optional)
 internal cellular modem (optional)	 fast 802.11ac Wi-Fi (optional)	 panic/event marker (optional)
 full-frame rate up to 30 fps/channel	 H.264 triple-streaming (H.265 - HD6 only)	 optional accelerometer (HD5) or built-in (HD6)
 up to 4 TB hard drive or solid-state hard drive	 up to 512 GB SD card (optional)	 lockbox (built-in or optional)
 extruded aluminum chassis	 fanless enclosure	 eight sensor triggers

Top-Selling Cameras

 Eyeball AHD	 Mini Box AHD	 Mini Dome IP or AHD	 Windshield-Mount AHD or IP	 Mini Eyeball AHD (surface- or recessed-mount)	 Wedge Stop-Arm AHD
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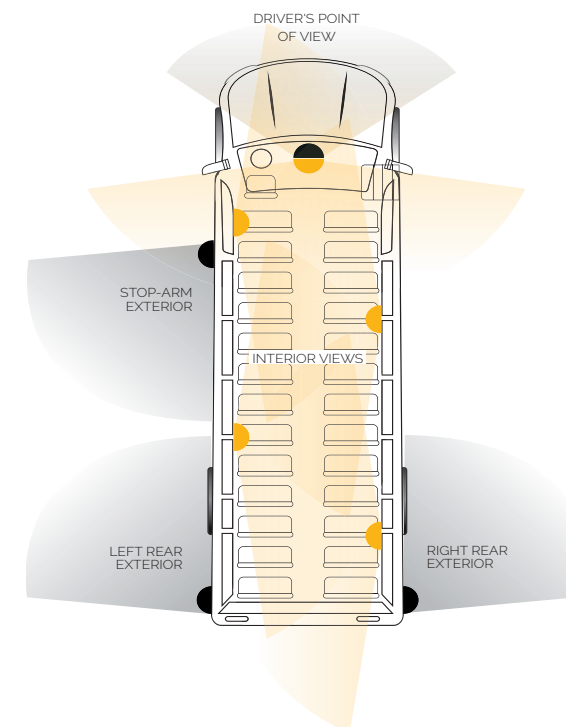
REI cameras deliver stunning images from any angle. Choose from a variety of high-resolution styles, focal lengths and fields of view. From narrow 21° cameras for capturing license plates to 180° models for capturing everything between bus seats, REI has color cameras to attain whatever views are needed.



Middle Seat Views



Driver's Point of View



Driver's Area, Stairwell, Front Seats



Rear Seat Views



Front Seat Views

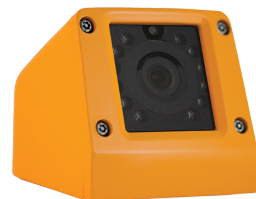
Features

- Sharp HD views in 720p & 1080p
- Up to 180° horizontal & 90° vertical views
- Capture both sides of bus, wheelchair-lift zones & tie-down areas
- Driver's POV & exterior views
- Nighttime views with IR

stop-arm solutions

Manual

Capture violators' license plates easily, reliably and in high definition with REI's manual stop-arm solution. The solution is activated by a driver using a simple panic/event marker. Flagged images and data may be reviewed within our Video Management Software (VMS) or ARMOR Software Suite™.



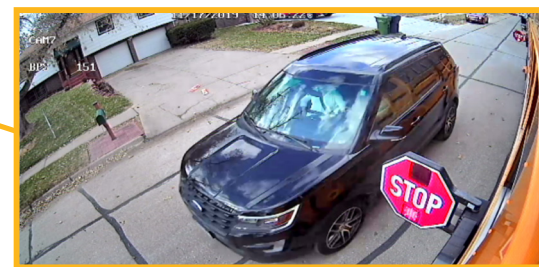
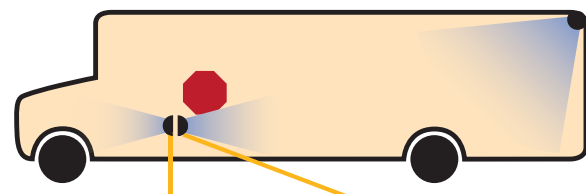
Hi-Res Color



Day/Night View

Components

- Side-mount AHD stop-arm cameras
- GPS receiver
- DVR
- 20' sensor harness
- Panic/event marker
- Video Management Software (VMS)



overhead view of violation



front license plate view



rear license plate view

Automated

For a fully automated stop-arm solution, ask about:



Contact us to find the best stop-arm solutions for your operation. All components are sold separately.

video/data management

VMS is the foundation of our mobile video surveillance solution. The software enables you to search and view recorded events and provides access to vehicle data. It is complimentary with your mobile video surveillance package.

VMS

Blur – protect privacy of selected passengers.

Snapshot – take a photo that is easy to share.

Zoom – see small details.

Save – store video in a proprietary format to maintain chain of custody or convert to AVI files for sharing.

Graph – display speeds, g-forces and temperatures of DVRs and hard drives.

GPS – view on map where buses have been and where they are going. Users may click on route to see the associated video.

Info – obtain details about DVRs, GPS coordinates and speeds, and monitor inputs of buses.

safety through innovation

surveillance software

upgrade to ARMOR

ARMOR™ Software Suite

How It Works



Your school bus is equipped with a Wi-Fi or cellular DVR, or cellular router.

Recorded events and metadata are transferred to access points when your vehicle returns to the lot, or by a cell tower right after the incidents occur or at preconfigured times.



Video and metadata are stored on a local server or in ARMOR Cloud.

Server data may be accessed with computers and/or wirelessly via handheld devices.



ARMOR Modules

Administration – establish users, credentials and notifications

Dashboard – monitor events, select reports and analyze data

AutoPilot – review video events/reports and request automatic video downloads

Diagnostics – monitor health of REI equipment and your vehicles

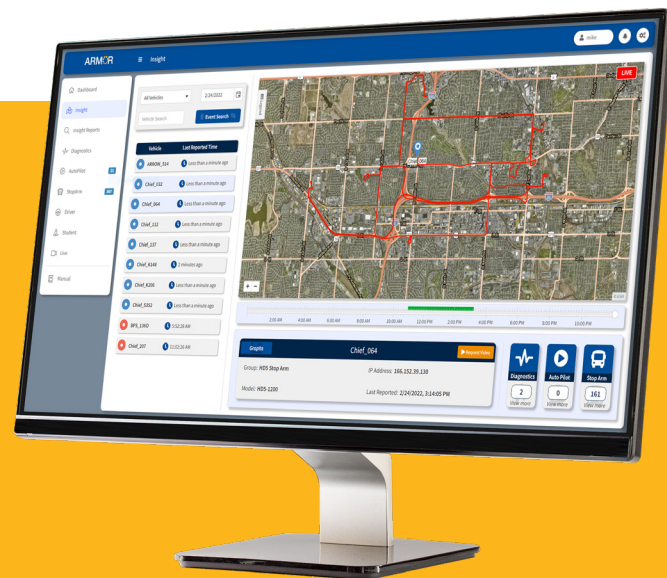
Insight – track historical routes and current locations of fleet vehicles

Live – monitor audio and video from multiple vehicles en route



Automate and simplify fleet management with our web-based software solution. Access its innovative, adjustable modules wirelessly to set up and monitor fleet details using internet-connected devices.

For added convenience, REI offers ARMOR™ Cloud, an optional server management service. ARMOR data, software updates and scalability are maintained for you by REI.



ARMOR screen images may change based on customer input & feedback.

Mobile Cellular Wi-Fi Routers

Wi-Fi connectivity is essential for student and operational efficiency. Install REI Mobile Cellular Wi-Fi Routers for fast, reliable Wi-Fi access to:

- Extend classroom learning
- Allow students to make efficient use of travel time
- Monitor fleet management tools with live surveillance views and GPS capabilities



Our dual-SIM routers provide two cellular service options to offer flexibility and stable connections for students and your operation. If a connection to one provider fails, the router auto-switches to the alternate service provider. As a result, uptime for your operation and students is maximized.

REI's Video Management Software (VMS) is complimentary with a mobile video surveillance package and enables you to easily search for and view recorded events, track historical bus routes and more.

ARMOR™ Software Suite is an expansion of our VMS and provides advanced features for fleet management. More importantly, it automates the entire process to save time and money for your operation.

Increase Productivity

Improve Efficiency

Save Time & Money

Maintain Peace of Mind



	VMS	ARMOR Software Suite by REI
Individual school bus & fleet data	✓	✓
View on PC through hard drive, SD card, flash drive or remotely with Wi-Fi or cloud service	✓	✓
Zoom and blur features	✓	✓
Graph speed, acceleration, voltage and temperature	✓	✓
Track up to eight inputs of a vehicle	✓	✓
Track excessive acceleration, hard braking or collisions	✓	✓
Monitor past location and speed of a vehicle	✓	✓
Filter data using 'or'	✓	✓
Save clips for later viewing and sharing	✓	✓
Automated, remote video downloading		✓
Automated event and diagnostics alerts		✓
Firmware and software upgrade/update notifications		✓
Real-time surveillance view capability		✓
Optional ARMOR server management by REI		✓
Accessible with internet-connected devices		✓
Share video within/outside your operation via password-protected link		✓
Video lock to prevent alteration/deletion		✓
Automated vehicle health checks via J1939 CAN-bus interface		✓
Automated health checks of REI surveillance system		✓
Configure DVR remotely		✓
Real-time bus tracking capability (individual buses, bus groups or entire fleet)		✓
Play back, export or request video using multiple 'and/or' words		✓
Monitor graphs of RPM, odometer levels, tire pressure and fuel levels		✓
Adjustable driver parameters		✓
Create geofences for individual buses or groups		✓
Performance reports and video for 'coaching' drivers		✓
Automated notifications about driver events (speeding, hard braking, stop-arm usage, etc.)		✓

Additional hardware is required. Cellular service plans may affect performance. Ask for details.

360° HD Camera System

REI's 3D 360° technology offers superior visibility for parking and maneuvering in difficult situations. Its panoramic, bird's-eye and 3D views change automatically based on turn signals and reverse gear.



- Prevent bus damage
- Reduce liability claims
- 720p HD views
- Connect to any monitor

Standard Camera Observation System

Give your school bus drivers an extra set of eyes when backing up or turning. High-definition views are tied to turn signals and reverse gear for added ease in steering through traffic.



- Mini eyeball camera (included when system is purchased as a kit)
- Additional camera options available

Mobileye® Collision Avoidance System

Help your drivers prevent and mitigate collisions. This system quickly identifies potentially dangerous incidents and provides pre-emptive, real-time audio and visual alerts.



- Forward collision, tailgating, pedestrian, lane departure & speed warnings
- Trains/improves driver awareness
- Helps reduce fines



Panic/Event Marker

Instantly flag any event, check DVR status and troubleshoot DVR health.

GPS Antennas

Track and obtain GPS satellite data about buses, their past and current locations, and speeds.



Sensor Harness

Monitor up to eight inputs, such as turn signals, brakes and wheelchair lifts, to check their use by drivers.

Accelerometer

Screen and measure hard braking and excessive acceleration incidents.



DVR Security

Add protection from vandalism or other security concerns with heavy-duty covers, end caps or a lockbox.

J1939 CAN-BUS Cable

Conduct health checks of buses and REI equipment to locate/solve intermittent bus problems. ARMOR™ Software Suite is required for J1939 connectivity.



Wi-Fi Dongle

Enable wireless connections from DVRs to handheld devices, program cameras, verify and troubleshoot camera status, confirm proper functioning of DVRs and more.

SD Card

Provide additional video storage for recorded events.





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