



MOBILE VIDEO SURVEILLANCE

TRANSIT SOLUTIONS



surveillance highlights

Bus

Commercial Motorcoach School

Transit

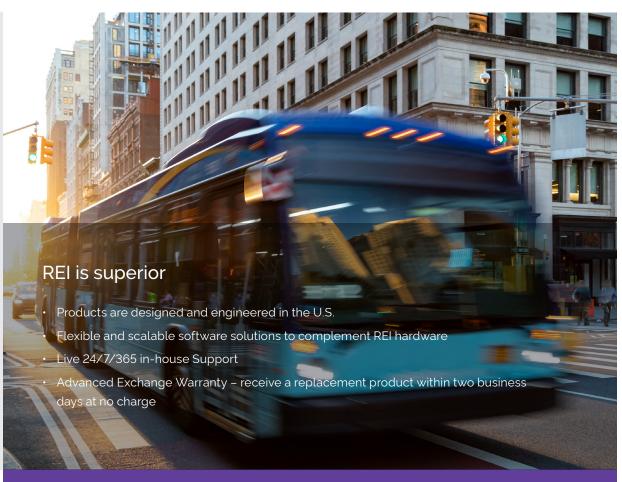
Commercial Truck

Delivery Fleet Waste/Refuse

Emergency Vehicle

Ambulance Fire Truck Mobile Command Police

Agriculture
Construction
Dealers
OEM



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DVRS	
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RADIOS & SPEAKERS	
ACCESSORIES	
ADVANCED DRIVER ASSISTANCE SYSTEMS	

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



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.



surveillance systems

DVRs

HD6 Series 6-Channel





Lightweight, durable and designed with innovative features, REI DVRs record crystal-clear video, audio and vehicle data on removable hard drives. Connect up to 12 cameras to capture stunning surveillance views from your transit 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™

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

HD6 Series 12-Channel



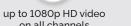


Features

ED

4K UHD IP channels







(optional)







panic/event marker (optional)



((1))

internal

cellular modem

full-frame rate up to 30 fps/channel



H.264/H.265 triple-streaming



accelerometer (built-in)



extruded

aluminum chassis

up to 4 TB hard drive or solid-state hard drive



up to 512 GB

SD card

(optional)

fanless

enclosure









eight sensor triggers (optional)

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)

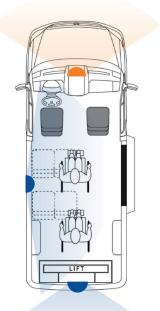


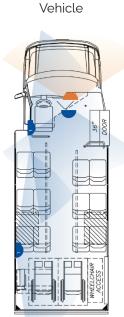
Back-Up Camera



Mini Eyeball AHD Camera (recessed-mount)

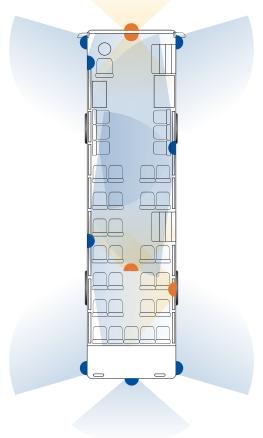
Community Transit Vehicle





22' Passenger

40' Passenger Vehicle



camera views





Front Door and Lift View



Front View from Rear





180° Horizontal/90° Vertical View

Features

- 720p & 1080p HD views
- Up to 180° horizontal & 90° vertical views
- · Capture both sides of aisle & chair-lift zones
- · Nighttime views with optional IR

VMS software

safety through innovation

Features

Blur – protect identities and privacy of selected passengers.



Snapshot – take a still image that is easy to share.



Zoom – see small details.





Q

Search – find video through user-selected inputs, such as speeding.

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.
Click on a route to see the associated video.



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

surveillance software

ARMOR™ Software Suite

How It Works



Your transit 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

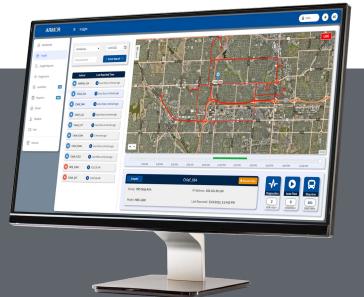
Insight – track historical routes and current locations of fleet vehicles

Live - monitor audio & 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.



Mobile Cellular Wi-Fi Routers



Wi-Fi connectivity is critical for transit passenger satisfaction and operational efficiency. Install REI Mobile Cellular Wi-Fi Routers to enable fast, reliable access to:

- Passengers' favorite online content, music and entertainment
- Fleet management tools with live surveillance views and GPS capabilities

Our dual-SIM routers provide two cellular service options to provide flexibility and stable connections for passengers 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 passengers is maximized.

upgrade to ARMOR

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 transit operation.

Improve Efficiency Maintain Peace of Mind Increase Productivity Save Time & Money

	VMS	ARM : R
	VIVIS	Software Suite by RCI
Individual school bus & fleet data	√	$\sqrt{}$
View on PC through hard drive, SD card, flash drive or remotely with Wi-Fi or cloud service	√	√
Zoom and blur features	√	\checkmark
Graph speed, acceleration, voltage and temperature	\checkmark	\checkmark
Track up to eight inputs of a vehicle	√	\checkmark
Track excessive acceleration, hard braking or collisions	√	V
Monitor past location and speed of a vehicle	√	\checkmark
Filter data using 'or'	\checkmark	\checkmark
Save clips for later viewing and sharing	√	\checkmark
Automated, remote video downloading		$\sqrt{}$
Automated event and diagnostics alerts		\checkmark
Firmware and software upgrade/update notifications		\checkmark
Real-time surveillance view capability		\checkmark
Optional ARMOR server management by REI		\checkmark
Accessible with internet-connected devices		\checkmark
Share video within/outside your operation via password-protected link		$\sqrt{}$
Video lock to prevent alteration/deletion		\checkmark
Automated vehicle health checks via J1939 CAN-bus interface		√
Automated health checks of REI surveillance system		\checkmark
Configure DVR remotely (feature not available when using a private cellular network)		\checkmark
Real-time bus tracking capability (individual buses, bus groups or entire fleet)		\checkmark
Play back, export or request video using multiple 'and/or' words		√
Monitor graphs of hard drive and system temperatures, speed, acceleration and voltage		√
Oversee engine hours, fuel levels and odometer readings		√
Create geofences for individual buses or groups		√
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.

HD monitors

Keep your transit passengers informed with vivid, crystal-clear messages. Several monitor sizes are available to maximize your vehicle's usable space.

- · Improve the passenger experience
- Communicate safety messages
- Reduce costs/paper waste with electronic messages
- Strengthen security with live, onboard surveillance views
- Earn revenue via advertising
- Promote transit services



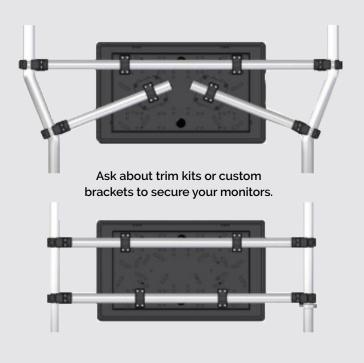


Sizes: 15.6" • 21.5" • 23.8" • 27"

- Wide screen
- Wide Sciect
- LED backlight12/24 volt
- BNC composite

video input

- HDMI A video input
- Remote control
- 156°-160° viewing angle



HD announcement/media players

Save time for your staff and help passengers stay on schedule with automated messaging by REI Digital Media Players. Each is quality-tested to ensure your safety, advertising and route messages play on time.

Directional GPS Digital Media Player with Priority/Safety Messaging

MP-5000HD



Convenient, automated messaging saves time and effort. Advanced features offer a state-of-the-art passenger experience.

- 200+ GPS points
- DOT-compliant logging
- Multilingual playback
- · Event-triggered messaging
- · Plays up to five strings of content

PA systems

Notify riders about route and safety details with reliable REI amplifiers, PA systems and microphones. All are quality-tested and engineered to withstand rugged conditions and repeated use.

PA Systems



Amplifiers



wired & wireless microphones



Dynamic Headset Microphone (Hands-Free Use)



Handheld Microphone





Wireless Mic & Charging Station

More microphone styles, extension cables and adapters are available. Ask your sales representative for details.

radios

Power up your onboard entertainment options with versatile, high-quality REI radios. Enable your transit drivers to switch between media sources quickly and easily to meet passenger preferences.

Wide-Screen Multimedia Radio

VR-6200D



- Bluetooth®
- CD/DVD Player
- · PA mic input

Bluetooth® Radio

ST-5050



- Shallow-depth chassis
- · Weather band tuner
- Rear USB input

speakers

Treat your passengers to a theater-like travel experience with crisp, robust sound from REI speakers. Several styles and sizes are available to fit the requirements of your transit buses.

Coax Speakers

2.790

Speakers with Grilles

Speakers in Housings

Exterior Speakers







optional surveillance accessories



Panic/Event Marker

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

GPS/Wi-Fi/LTE 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.



ADAS

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 transit 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 Box Camera (included when system is purchased as a kit)
- Additional camera options available

HD6 ADAS Kit

Help your drivers monitor the road ahead to prevent and mitigate collisions. Equip them with headway, lane departure and forward collision alerts.



- Easy installation (no certified installer needed)
- ARMOR™ Software Suite compatibility
- Visual and audible alerts
- Record view on HD6 DVR (required)
- Includes 1.44" Driver Display Module and windshield-mount AHD Camera



REI

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