MobileView PENTA Solution

Constant innovation that keeps transit safely on the move
Advanced mobile surveillance for today’s mass transit applications

Designed specifically for the unique challenges of public transportation, MobileView® surveillance systems are a leading solution deployed in transit vehicles around the world. MobileView is designated as Qualified Anti-Terrorism Technology (QATT) under the Department of Homeland Security’s (DHS) SAFETY Act. It is the first and only mobile video surveillance solution, designed for public transit systems, to be awarded the designation. With integrated solutions for optimal performance, including IP camera support, MobileView provides the level of security and protection that is required to secure today’s mobile transit applications.

EXPERIENCED AND PROVEN TRACK RECORD

MobileView is an industry leader in today’s mass transit market, developing innovative solutions since 1998. Our video solutions have been deployed at over 150 transit agencies including 5 of the top 10 in the US.

• Provides a safe and secure environment for the driver and passengers
• Delivers valuable evidence to defend against fraudulent claims, support legitimate claims and pursue liability action when appropriate
• Discourages unwanted, antisocial and criminal behavior to help improve community perception of public transport—which can increase usage
• Provides asset protection and loss reduction due to vandalism, graffiti and other damage to transit and passenger property
• Video and data can be used as an education tool to improve driver training and emergency response planning and implementation

COMPLETE END-TO-END TURN-KEY SOLUTIONS AND SERVICES

MobileView provides comprehensive systems covering every aspect of the mobile solution. Offerings include on-vehicle hardware, integration with existing wireless infrastructure and complete on-site management and support.

• Experienced, dedicated wireless experts will ensure seamless integration with existing infrastructure across various platforms. New infrastructure and installation to Wi-Max, Wi-Fi® upgrades, or Cellular/LTE are also available for enhanced remote connectivity.
• We provide a comprehensive suite of software applications to manage the integrity of your video and data from the vehicle to wherever it needs to go. You can access the video live, directly from the vehicle, or automatically download incident video when the bus returns to the depots.
• We provide complete installation services with dedicated project management to meet your schedule.
• On-site technical training from experienced experts who have installation, maintenance and operations expertise. Let us customize a learning solution that works for you.
On-vehicle and network solutions

Wireless Communications Solutions

Our solution can integrate with existing corporate solutions or we can design, install and support a cost-effective private wireless solution to meet your needs.

Easy Access to Video and Data

- Auto download alarm events
- Queue and prioritize video requests
- Health Check reports problems

Facilities Infrastructure

MobileView provides cost effective infrastructure design and installation services to meet the most challenging environments. Offering the latest technology advancements, our flexible and reliable solutions are perfect for integrating into existing facilities or new site built-outs.

Recorder

On-board digital video recorders offers the latest H.264 compression technology and flexible features for optimal performance.

Cameras

Support for up to 4 IP channels (max of 16 total channels) provides maximum coverage and superior image quality to detect, monitor, recognize and identify people and objects of interest.

Audio

Supporting two microphones, the MobileView recorder captures clear audio synchronized with video.

Software

Comprehensive management of video and data from vehicles makes critical information accessible in real time or downloadable for later archiving.

Status Tag Switch

Real-time system status and video incident tagging (marking) to create a valuable, operator-triggered video archive.

GPS

Enables real-time vehicle location, speed, heading and time synchronization.

Live Network

Video and data management is kept secure, can be automated and managed over cellular, wireless and a variety of corporate backhaul solutions managed centrally or from remote locations.

Services

MobileView offers a wide range of installation, maintenance, and extended warranty services to ensure optimal system performance and up-time.

Facilities Infrastructure

MobileView provides cost effective infrastructure design and installation services to meet the most challenging environments. Offering the latest technology advancements, our flexible and reliable solutions are perfect for integrating into existing facilities or new site built-outs.
The MobileView® PENTA Digital Video Recorder is specifically designed for mass transit applications to ensure dependable performance in today’s demanding transit environments. SAE-rated and backed by a three-year warranty, the MobileView system features a minimum 2TB hard drive to meet large-capacity storage requirements.

Solid, rugged and reliable, PENTA is a 16 channel hybrid recording device capable of simultaneous recording from both analog and IP cameras sources at rates up to 480 fps (960 ips). This versatile and flexible recorder captures some of the highest quality images available to secure your property and passengers.

STANDARD FEATURES

- Up to 16 video channels for maximum coverage
- 240 to 480fps (480/960 ips) captures full-motion video on each channel
- CIF, 2CIF, D1 resolutions provide flexible storage options
- Embedded authentication algorithms ensure video integrity
- Dual-channel audio eliminates dead spots
- Interchangeable surveillance storage caddy protects data
- Dedicated front Ethernet service port
- Shock and Vibration tested for use in public transit vehicles
- Tested to SAEJ1455 standards
- Serial interface centralizes on-vehicle fault monitoring
- GPS with time sync offers map-based vehicle tracking and eliminates time drift
- J1939 compatibility with external module
- Embedded system platform reduces complexity
High quality images are a necessity in today’s challenging transit environment. MobileView® cameras represent a flexible line of both analog and IP options that deliver complete vehicle coverage inside and out. With true day/night capabilities, built-in microphones and simplified installation, it’s the ultimate solution that only MobileView can deliver.

**INTERNAL CAMERAS**

**7100 Series**
- Analog mini-dome
- Sony Super HAD II color CCD
- 6061 aluminum construction
- Vandal-resistant housing

**9100 Series**
- Flexible power options to simplify installation with PoE or 12VDC
- 1.3 Mpx resolution (1280 x 960)
- H.264 compression technology w/ tri-streaming capability
- Low-profile, rugged design
- IP66 and IK07 rating

**EXTERNAL CAMERAS**

**7300 Series**
- High Density 1/3" Sony EX-View (960H) CCD
- 8pcs of 850 nm IR LEDs
- Ideal for rear-view installation
- Rugged, aluminum housing
- Easy installation and angle control

**9000 Series**
- Flexible power options to simplify installation with PoE or 12VDC
- 1.3 MPx resolution (1280 x 960)
- H.264 compression technology w/tri-streaming capability
- Tilt/Pan adjustment
- Built-in heater
- IP68 and IK10 Rating
Accessories

A variety of MobileView accessories provide enhanced performance and security with advanced technology and integrated functions specifically designed for mobile applications.

**Microphone**
- Pressure Zone Microphone® ideal for vehicles
- Designed specifically to capture clear, intelligible speech
- Inconspicuous, light-switch appearance
- Line-level output

**Status Tag Switch**
- Combines real-time recorder status indicator and Event Tag input in one device
- Tag alarm pushbutton switch
- Discrete and silent input for logging important events
- Fail-safe circuit monitoring in case of wire breaks

**Uninterruptible Power Supply (UPS)**
- Provides Power to the MobileView System in the event of an outage, ensuring uninterrupted operation
- Configurable alarm signal ensures critical video surveillance is retained
- Rugged construction can withstand operating temperatures from 0°C~50°C
- Quick-connect battery terminals

**Docking Station**
- Allows workstations access to view surveillance data
- Installs easily with USB 2.0 connection to PC
- Front On/Off Power Switch
- Easy Hard drive caddy insertion/removal
- HDD Activity LED
- Powered key lock: protects data and prevents accidental removal during operation

**Accelerometer**
- Sensor range up to 6g
- 3 Axis recording (+/-)
- Integrated with Video and Audio data
- User configurable input channel condition testing (exceptions)
- User configurable channel conditions reactions (exceptions)
- Automatic data archive on exception event – minutes or seconds, pre and post

**LCD Mobile Monitor**
- 7” LCD Monitor (LED backlight)
- Expanded field of view for enhanced safety while backing-up or maneuvering in challenging spaces
- Advanced display menu for easy use
- Signal trigger for side/rear view
- Auto Day and Night control
- Four video inputs

**GPS Antenna**
- GPS data integrates with MobileView PENTA software
- Mounts easily to roof
- High-performance GPS with 27 dB gain (active)
- Bottom exit coaxial cable with SMA connector
- Meets vehicle temperature and vibration standards
Protecting video integrity as well as passengers

MOBILEVIEW VIDEO MANAGER

Securely review, search and archive all incident video and data stored on the system. Access vehicle location and speed information on a sophisticated mapping system. Use the built-in evidence media creation utility to distribute the incident video and data to law enforcement, legal staff and any other agencies.

- User-friendly interface displays important DVR settings to easily view, search and save video
- Displays video location on map synchronized with video playback
- Built-in utility for evidence creation

MOBILEVIEW SERVER AND FLEET MANAGER

Automate all download and archive retrieval features of video evidence with a wireless network infrastructure. Save manpower, maintain chain-of-custody and improve fleet operations by downloading specific events without visiting each vehicle. Compatible with MobileView recorders and cameras, MobileView software provides all the tools required to maximize resources and increase vehicle uptime.

- MobileView Server provides a central, secure location for individual depot storage
- Server stores metadata and manages access to the system. Reporting and system performance details can also be measured
- Provides remote access for video review and configuration
- Automatic download of video and alarm events. Review events even when they don’t get reported
- Automatic camera checks quickly help maintenance personnel determine if a camera needs service without having to visit the vehicle
- Troubleshoot and reduce maintenance inspection times with easy-to-view, system-wide health status and diagnostic information
MobileView represents some of the most advanced mobile surveillance options for today's public transit systems. Beyond security products, MobileView also provides installation, maintenance and support services for all your transit needs.

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