

GE Infrastructure Security

MobileView® Select is a digital video recording system designed for buses, light-rail cars, delivery trucks, armored cars and other vehicles. When a driver starts a MV Select-equipped vehicle, a digital recorder begins storing images captured by up to five onboard cameras.

MV Select gives you everything you need to store digital video images in a compact, rugged vehicle-mounted recorder. Recorded images can be viewed from a laptop in the field or at the central station through the use of a docking station and PC. An audio option provides synchronized audio during image playback.

A typical MV Select system might consist of five cameras, a digital video recorder (DVR), a keypad, a microphone, and panic button kit/status lights on the vehicle, along with a docking station and a PC loaded with MobileView WaveReader™ software at a central office location.

When triggered by an impact sensor or driver-activated hot button, MV Select switches to event mode. In event mode, MV Select highlights images for easy recall and can even record more pictures from selected cameras.

MV Select also helps you create a feeling of security among your drivers and passengers. They know you've taken steps to ensure their safety when they see MobileView's cameras on your vehicles.

With MV Select, you can incorporate all the features you need for a mobile surveillance system while making a cost effective choice.

Features

- Five NTSC/PAL camera inputs
- Capture rate of up to 30 pictures per second
- Patented wireless transmission option
- 160 GB of storage space
- Lightweight and compact – weighs less than 12 pounds
- Multiple resolution settings (standard, medium, and high)
- Includes WaveReader image software
- Single-channel audio option (requires microphone)
- Field download capability
- Five alarm trigger inputs and two outputs
- Embedded system platform
- Exterior SideEye™ camera option

MobileView Select

Digital video recording

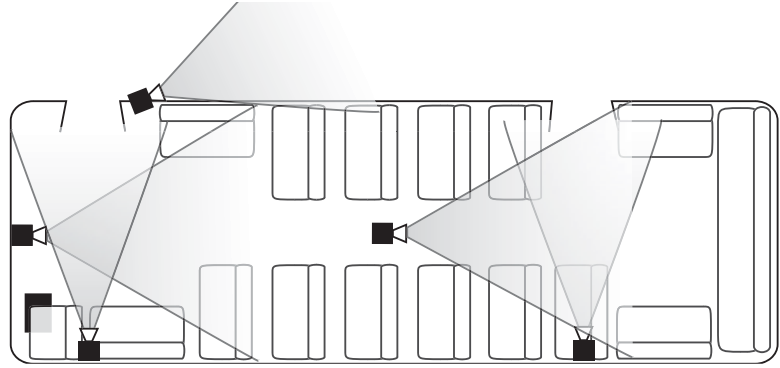


MV Select Cameras

The MobileView system can support up to five NTSC/PAL cameras—color, monochrome, or both.

The stored or captured images have a resolution of up to 720 x 243 pixels. Images are displayed at 720 x 486 pixels. The cameras are housed in low-profile, vandal-resistant housings that can be flush-mounted inside the vehicle or surface-mounted inside or outside the vehicle.

Cameras can be attached outside the vehicle to cover driver blind spots. These stationary, side-mount cameras are viewed by the driver on a separate LCD monitor. Images from the cameras can be recorded by the DVR.



The diagram shows typical camera placements on the interior and exterior of the vehicle. MV Select can accommodate up to five cameras.

MV Select DVR

Images are recorded to the MV Select DVR. The DVR is a mobile recording device consisting of a digital processor with 160GB of fixed disk memory. It is protected inside a rugged outer housing that provides shock and vibration protection.

The DVR can be programmed to capture up to 30 pictures per second (system total) at various resolutions.

Additionally, each camera can be programmed to capture images at different rates. The MobileView Select system can store anywhere from 44 hours to 26 weeks of images, depending on image capture speed, camera type (color or monochrome), and image resolution (standard, medium, and high).

The DVR can also be programmed to capture images after a specific alarm or trigger has been activated. Up to five user-defined alarm or trigger inputs and two status outputs are

supported. The most commonly used inputs are driver panic buttons and impact (crash) sensors.

Images generated by these triggers are saved in a special file format with a time and date stamp so that critical information can easily be found and retrieved. These images are also protected from automatic overwriting and can be deleted after a preprogrammed time period. Stored images can be retrieved and viewed at the central station or in the field.

Programming the DVR is simple. A small keypad, which is connected to the DVR, enables the user to navigate through the programming menus. The keypad is used to test for proper configuration after the system has been installed. It is also used for troubleshooting and status indication. The keypad can also save configuration information for convenient program upload to an entire fleet of vehicles.

DVRs are self-regulating, internally protected from power surges and spikes, and environmentally monitored for internal temperature. The DVR uses Wavelet image compression and is powered via a 24 VDC input.

Aggregate capture rate (divided among all installed cameras)	Resolution					
	High	Medium	Standard	High	Medium	Standard
	Black and White			Color		
1 pps	8.3 weeks	13.2 weeks	19.8 weeks	5.9 weeks	8.2 weeks	10.9 weeks
15 pps	4.1 days	6.6 days	9.9 days	67 hours	3.8 days	6.1 days
30 pps	46 hours	3.1 days	4.6 days	33 hours	46 hours	3.1 days

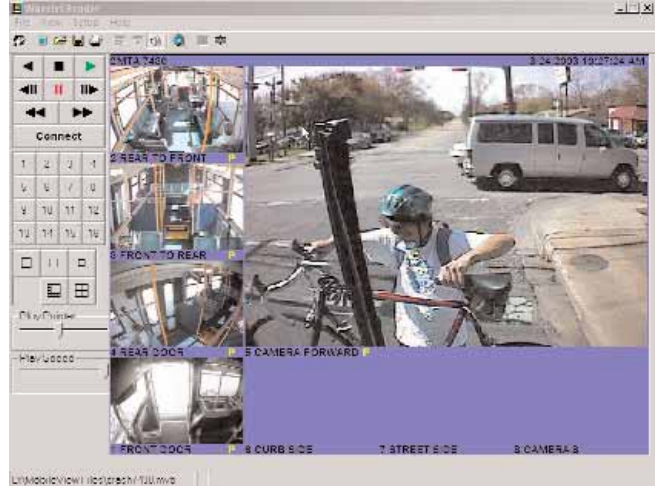
MV Select Central Station

The remote central station consists of a CPU, monitor, keyboard, mouse, CD burner, docking station, and WaveReader software, which features a synchronized five-window image browser for reviewing data.

To view the stored image data, the DVR is removed from the outer housing at the vehicle site and taken to the central station, where it is inserted into the docking station. Data can then be viewed, enhanced, sharpened, enlarged, printed, emailed, or transferred to alternative media for long-term storage.

Alternatively, images can be viewed in the field through a laptop computer equipped with MobileView WaveReader software and an Ethernet port. An Ethernet cable connects the laptop to the DVR for retrieval of image data.

WaveReader software presents previously recorded images in one-, four-, or eight-camera views. The operator can control the speed of cycling through images as well as the sharpness/enhancement of the image. When downloaded, these images can be copied in various time segments.



MobileView WaveReader software

Transmission Option

A wireless bridge enables users to take advantage of MV Select's patented transmission system.

The transmission system uses wi-fi technology (80211.B/80211.G) to establish bidirectional communication between the vehicle and the central station, enabling users to connect to a vehicle and view current or previously recorded images with WaveReader software.

When a panic button or impact sensor is triggered, images can be automatically transferred through the network to the central station.

The transmission system also enables users to download data, such as log files, from a remote DVR.

MobileView Test Kit

An optional MobileView Test Kit, which includes an LCD monitor and keypad, can help ease the MobileView system setup process.

The monitor enables installers to verify that cameras are placed in the desired position. The keypad enables users to program and test inputs and outputs that are powered by the DVR.

It also stores system configuration data for fast and convenient upload to other vehicles.

MV Select Accessories (optional)



LCD Keypad

- Programming achieved using keypad / keyboard interface with LCD display
- Password protected
- Programming lockout feature for security

- On/off adjustable backlight
- Fleet programming capability
- Upload/download

Microphone

- Discreet design and construction
- Looks like a light switch so as to not draw attention
- PZM (Pressure Zone Microphone) - Low frequencies below the voice range are rolled off to reduce rumble from trucks, machinery and air conditioning



Impact Sensor

- Impact Sensor sends signal to DVR input upon impact.
- Device set up to go off at approximately 4 g's of force.



Color LCD Display

- Provides live video feed for added safety
- Enables driver to view blind spots at the side and back of the vehicle
- Ability to record camera(s) while viewing LCD screen.
- 5.6 inch color monitor



Panic Button Kit with status lights

- Gives driver more security





Specifications

Americas
503-885-5700
888-GE-SECURITY
(437-3287)
faxback 800-483-2495
info@gesecurity.com
www.gesecurity.com

Asia
tel 852-2907-8108
fax 852-2142-5063

Australia
tel 61-3-9259-4700
fax 61-3-9259-4799

Europe
tel 32-2-725-11-20
fax 32-2-721-86-13

Latin America
tel 305-593-4301
fax 305-267-4300

DVR

Electrical

- Input voltage: 24 VDC (other options available)
- Power: 60 W (does not include cameras)
- Video inputs: 5 BNC connectors, NTSC/PAL compatible
- Triggers: 5 N/C opto-isolated inputs
- Network: Network card - LAN (80211.G)

Hardware

- Hard drive size: 160GB
- Dimensions: 12.5 x 13.12 x 3.88 in. (318 x 333 x 99 mm), including brackets and splash guard
- Weight: 12 lb. (5.44 kg)
- Operating temperature: 41 to 131°F (5 to 55°C)
- Image resolution: 720 x 243 pixels
- Display resolution: 720 x 486 pixels
- Pictures per second: Up to 30 pps

Audio

- Record standard: Single channel, G.711 (64 kilobits/sec.)
- Audio out: 315 mV, 600 ohms, unbalanced

Ratings and certifications

- Tested to SAE standard J1455, sections 202F, 213A, and 213B; FCC; CE

Central Station

Hardware (minimum)

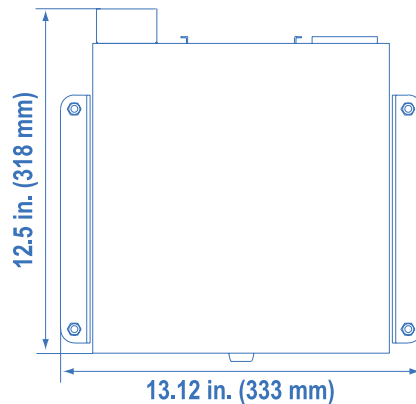
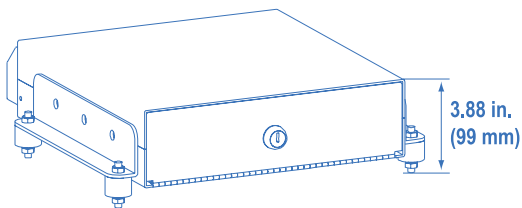
- Processor: Intel Pentium 2GHz or better
- Memory: 512MB
- Hard drive: 80GB internal
- Network: Network card - LAN
- Monitor: SVGA and 16MB SVGA video card (16.7 million colors)
- CD-ROM burner: 32X (minimum)
- Docking station: MobileView specific

Transmission option

- 80211.B/G

Physical

- Dimensions (HxWxD): 3.88 x 13.12 x 12.5 in. (99 x 333 x 318 mm)



Ordering Information

MSS-4300-05-00 MobileView Select DVR

Please see MobileView price list for part numbers and pricing on MV Select components.