

# MobileView™ PENTA

8 & 16 channel digital recording system for mobile applications

## OVERVIEW

The MobileView™ PENTA is a sophisticated, H.264-based, Mobile Digital Video Recorder. Engineered from the ground up and tested to industry-recognized SAE J1455 standards, the MobileView PENTA is specifically designed for reliable use in the high-vibration, electrically unstable and environmentally demanding operating environment of today's transit vehicles. Together, the embedded operating system and firmware monitor key systems functions, voltage and temperature fluctuations, and storage media health to maintain integrity of surveillance data.

Using the latest video-capture and compression technologies, MobileView PENTA records and secures data in real time at full frame rate for each channel. Offered in both 8 and 16 channels, the MobileView PENTA supports real time capture (30 frames per second) at image resolutions of CIF to D1. Video is synchronized with available dual-channel audio, GPS data streams, and other monitored inputs.

MobileView PENTA meets ever-increasing storage needs with a standard 1TB interchangeable mass storage caddy. The interchangeable caddy allows security managers to sequester video data and keep the MobileView system at full operational capacity. The combination of H.264 compression, adjustable image settings (frame rate and resolution), and removable mass storage ensures maximum flexibility in meeting on-vehicle storage requirements.

When paired with the Fleet Management application, wireless technologies extend the MobileView PENTA function set by adding automated data management, scheduled download, event notification services, and enhanced device health reporting. These functions save labor, reduce frustration, and enhance productivity.



## STANDARD FEATURES

- 8 to 16 video channel versions maximize coverage
- 240 to 480 fps (480/960 ips) capture full-motion video on each channel
- H.264 encoding reduces file size
- 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
- 1TB or 2TB storage options to meet on-vehicle storage needs
- Shock & Vibration tested for use in public transit vehicles
- Tested to SAE J1455 standards
- J1587/J1708 interface centralizes on-vehicle fault monitoring
- GPS with time sync offers map-based vehicle tracking and eliminates time drift
- Embedded system platform reduces complexity

## WIRELESS LAN OPTION

MobileView™ systems may be used as a standalone recorder or, when equipped with wireless transmission, as a client to the MobileView Garage Management server. The Garage Management system automates many functions such as event and user-requested downloads, plus central health monitoring of client devices.

# MobileView™ PENTA

North America  
T 855-286-8889

Asia  
T 852-2907-8108

Australia  
T 61-3-9239-1200

Europe  
T 32-2-725-11-20

Latin America  
T 561-998-6114

8 & 16 channel digital recording system  
for mobile applications

## Specifications

### Video Surveillance

Camera Channels	8 & 16 channels NTSC
Camera Frame Rates	240/480 frames (480/960 images) per second, max.
Recording Resolution	CIF, 2CIF, D1
Configurable Compression Levels	Selectable by camera
Video Outputs	One, user configurable and switched
Audio Inputs	Two mono
Audio Outputs	Two mono
Ethernet Ports	Two, 10/100Mb and 10/100/1000Mb
Storage Solution	Interchangeable, drive caddy (1TB minimum capacity)
Geolocation & Positioning	GPS based tracking, 3 meter resolution (optional antenna required)
Clock sync Methods	Via GPS or network timeserver
Video search Methods	Geographical (map-based), date and time
Download Options	Manual or automated via wireless
Field Upgradable	Software & firmware upgrade via USB memory device

### Digital Input Recording

Digital Inputs	Eight, optically isolated, 5 to 30V
Analog Inputs	Two, 8-bit resolution, 0 to 30V range
Input logging Rate	1 HZ
Delayed Shutdown	0-99 minutes

### Networking

Standard Protocols	DHCP, NTP, DNS, WINS, NBT, etc. (list not exhaustive)
Wireless Standards	802.11b/G (wifi) & 802.16 (WiMax) via compatible external device
Wireless Security	AES, TKIP, Radius, WPA2, etc. via external device

### Physical

Dimensions	11" W x 7" H x 7" D
Caddy Removal	8" space in front of DVR
Weight	12 lbs.

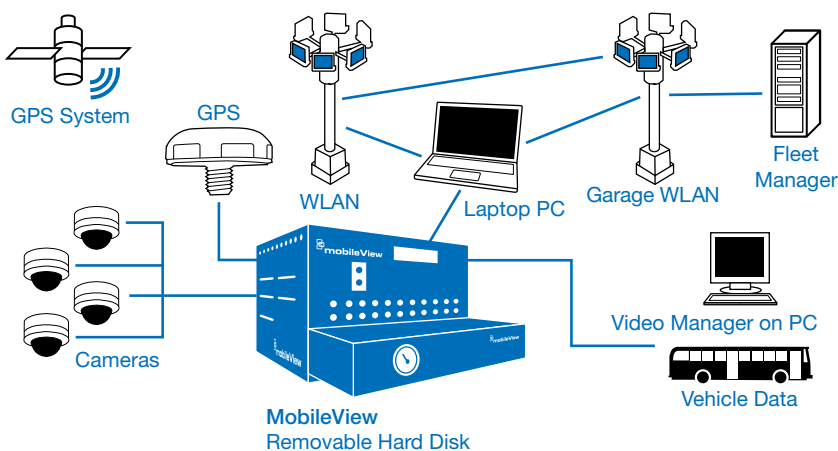
### Environmental

Thermal & Humidity	0-50C @ 90% RH External Ambient, Operating
Mechanical Vibration	SAE-J1455 (2006 edition), Section 4.10 Compliant
Mechanical Shock	SAE-J1455 (2006 edition), Section 4.11 Compliant

### Electrical

Input Voltage Range	9 to 32VDC native; No voltage convertors required
Power	50W typical, ~3W in standby
Output Voltage	12VDC @ 3A, 5VDC @ 1A
Radiated Emissions	FCC Part 15, class A

## System Diagram



## Ordering Information

### Digital Video Recorder Kits

<b>MVP-4500-08-00</b>	MobileView PENTA 8CH, 1TB, with Harness
<b>MVP-4500-08-20</b>	MobileView PENTA 8 CH, 2 TB, with Harness
<b>MVP-4500-08-01</b>	MobileView PENTA 8CH, 1TB, without Harness
<b>MVP-4500-08-21</b>	MobileView PENTA 8CH, 2TB, without Harness
<b>MVP-4500-08-NC</b>	MobileView PENTA 8-Channel DVR Only (No HDD Caddy, No Harness, No Kit)
<b>MVP-4500-16-00</b>	MobileView PENTA 16CH, 1TB, with Harness
<b>MVP-4500-16-20</b>	MobileView PENTA 16CH, 2TB, with Harness
<b>MVP-4500-16-01</b>	MobileView PENTA 16CH, 1TB, without Harness
<b>MVP-4500-16-21</b>	MobileView PENTA 16CH, 2TB, without Harness
<b>MVP-4500-16-NC</b>	MobileView PENTA 16-Channel DVR Only (No HDD Caddy, NO Harness, No Kit)

### DVR Components

<b>MVP-1002-08-00</b>	MobileView PENTA 1 TB HDD Caddy, Spare
<b>MVP-1002-00-20</b>	MobileView PENTA 2 TB HDD Caddy, Spare
<b>MVP-1002-08-KY</b>	MobileView PENTA Caddy Key, Spare (10 keys)
<b>MVP-4004-08-00</b>	MobileView PENTA Docking Station
<b>MVP-3301-10-00</b>	MobileView PENTA GPS Antenna, 10 m Cable
<b>MVQ-7100-00-03</b>	MobileView PENTA 3 Axis-Accelerometer, 6 ft. Serial Cable
<b>MVP-USB-08-RD</b>	MobileView PENTA Factory Restore USB Image Drive
<b>MVP-4005-KT-00</b>	MobileView PENTA Spare Harness Cable Connectors & Fuse Kit
<b>MVQ-4005-MP-00</b>	MobileView PENTA Maintenance Plug
<b>MVP-ENC-08-00</b>	MobileView PENTA Locking Enclosure

### DVR Cable Harness

<b>MVP-4039-00-00</b>	MobileView PENTA Harness Connection Kit, (8 CH)
<b>MVP-4037-08-J1</b>	MobileView PENTA J1 Power Harness Cable
<b>MVP-4037-08-J2</b>	MobileView PENTA J2 Audio & Status Harness Cable
<b>MVP-4037-08-J3</b>	MobileView PENTA J3 Digital Input Harness Cable
<b>MVP-4037-08-J4</b>	MobileView PENTA J4 Camera Power Harness (8 CH)
<b>MVP-4037-16-J4</b>	MobileView PENTA J4 Camera Power Harness (16 CH)
<b>MVP-4037-08-J5</b>	MobileView PENTA J5 Analog & Relay Harness Cable (8CH)
<b>MVP-4037-08-J6</b>	MobileView PENTA J6 Video Input Harness Cable (8 CH)
<b>MVP-4037-16-J6</b>	MobileView PENTA J6 Video Input Harness Cable (16 CH)



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Specifications subject to change without notice.

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