

GV-Hot Swap VMS System V5 (Rev. B) – 4U, 20-Bay



INTRODUCTION

The GV-Hot Swap VMS System V5 features a powerful data storage capacity. It comes with a selection of 4U (20-bay) or 3U (16 / 8-bay) and hot-swappable SATA mobile racks. Depending on HDD size, the GV-Hot Swap VMS System V5 can store up to 120 terabytes of recorded data. Support for hot-swapping makes data storage and management more convenient.

GeoVision Surveillance System empowers the GV-Hot Swap VMS System V5 with a maximum of 64 audio and video channels. Its networking capability makes remote access and control of the system possible. Additionally, its compatibility with other GeoVision accessories can cater to any kind of needs or budgets. By extending the compatibility to the third-party IP devices (license required), GV-VMS software provides a pure IP solution to GV-Hot Swap VMS System V5.

KEY FEATURES

- Powered by Intel Core i7 Processor
- 64-bit Windows Embedded Standard 7
- Support GPU Decoding
- Support up to 64 channels (pure IP surveillance)
- Three-monitor display
- Maximum storage capacity up to 120 TB (4U 20-Bay) / 96 TB (3U 16-Bay) / 48 TB (3U 8-Bay)
- Hot-swap status LED panel
- Dual Gigabit LAN ports
- ▶ 4U (20-bay) or 3U (16 / 8-bay) hot-swap SATA HDDs for data storage
- Built-in 4 inputs and 4 outputs
- Extreme performance for GV-VMS software operation
- Recovery from internal hard disk
- RAID 0 / 1 / 5 / 6 / 00 / 10 / 50 / 60 data protection (optional)
- Compatible with full selections of GeoVision accessories

AVAILABLE MODELS

- GV-VMSH V5
- GV-VMSH Pro V5





SPECIFICATIONS

System			
CPU		Intel Core i7 Processor	
RAM		16 GB Dual Channels	
OS		64-bit Windows Embedded Standard 7	
DirectX		11	
No. of HDD		20 (3.5" HDD)	
Internal Storage		500 GB (3.5" HDD)	
	Ethernet	RJ-45, 10 / 100 / 1000 Mbps x 2	
Connector	Video Output	3 displays with outputs VGA, DVI-D (DVI-D signal Only) and HDMI	
Connector	USB 2.0	Front: 2 ports, Rear: 2 ports	
	USB 3.0	Rear: 4 ports	
DVD (±) RW	Slim	8X	
Fan	12 cm (4 3/4")	3 units	
	8 cm (3 1/8")	2 units	
Power		Output: 1000 W	
		Input: 100-240 V, 47-63 Hz	

Model	GV-VMS	GV-VMS (Pro)		
Video and Audio				
Video Input	32 channels	64 channels		
Audio Input	32 channels	64 channels		

Note for GV-VMSH V5: The number of supported channels may vary depending on the resolution and codec of connected IP videos. If you want to know the number of supported channels according to your requirements, please write us at support@geovision.com.tw or click (here for more information.

Live View Playback				
		Contract / Drightness / Coturation / Hua		
Image Control		Contrast / Brightness / Saturation / Hue		
Recording Mode		Round the Clock / Motion Detection / Sensor Detection / Pre & Post Recording / Schedule		
		Recording		
Pre Recording		1 ~ 45 min.		
Instant Playback		10 sec. / 30 sec. / 1 min. / 5 min.		
Watermark Markin		Supported		
Searching and Back	кир			
Search Method		Date / Time / Camera / Event Type		
Backup Type		DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW		
Remote Monitorin	g			
Network Type		LAN, WAN, Internet		
Monitoring Enviror	ment	Web browser (IE, Chrome, Firefox and Safari)		
IVIOIII(OIIIIg EIIVIIOI	iiiieiit	Mobile device (Android and iOS)		
System Monitoring	and Recovery			
Power Restoration		Automatic restart after power outage		
Monitoring		Two independent Watchdogs (Hardware Watchdog + Software Watchdog)		
Recovery		Automatic system rebuild from internal hard disk		
Alarm				
	Standard	4 inputs		
Concor Innut	GV-IO 12-In Card	12 inc. 44		
Sensor Input	(Optional)	12 inputs		
	GV-IO Box (Optional)	4 / 8 / 16 inputs		
	Standard	4 outputs		
Alexand Outrout	GV-IO 12-Out Card	42 autoute		
Alarm Output	(Optional)	12 outputs		
	GV-IO Box (Optional)	4 / 8 / 16 outputs		
Peripheral Devices				
Audio Microphone In		Mini stereo jack		
Audio Output		Mini stereo jack		
Environment				
Operating Temp.		0~45°C/32~113°F		
Humidity		0 ~ 80% RH (non-condensing)		



Language				
		Bulgarian / Czech / Danish / English / French / German / Greek / Hebrew / Hungarian / Italian /		
Туре		Japanese / Persian / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Slovakian /		
		Slovenian / Spanish / Traditional Chinese / Turkish		
Physical				
LED Indicator		Yes (Fan, Power, HDD)		
Color		Black		
Dimensions (W x H x D)		483 x 178 x 660.4 mm / 19 x 7 x 26 in		
Net Weight		24 kg / 52.8 lb (± 1 kg / 2.2 lb)		
Physical				
Supported Devices	Channels	License		
CV ID Davissa Oak	32 ch	No license required		
GV IP Devices Only	64 ch	GV-VMS Pro license required, 32 ch per license		
	32 ch	3 rd -Party license required, in increments of 1 ch		
GV + 3 rd -Party IP		2 licenses required:		
Devices	64 ch	• GV-VMS Pro license, 32 ch per license.		
		• 3rd-Party license, in increments of 1 ch.		
Dongle Type		Internal		

Hard Disk Requirements

The total of recording frame rates that you can assign to a single hard disk is listed as below:

Frame rate limit in a single hard disk when connecting to IP cameras

IP Cameras					
Video vecelution	H.264		MJPEG	MJPEG	
Video resolution	Frame Rate	Bit Rate	Frame Rate	Bit Rate	
5 MP (2560 x 1920)	220 FPS	8.5 Mbit/s	80 FPS	30.4 Mbit/s	
4 MP (2048 x 1944)	330 FPS	10.4 Mbit/s	105 FPS	40.53 Mbit/s	
3 MP (2048 x 1536)	440 FPS	9.83 Mbit/s	140 FPS	38.67 Mbit/s	
2 MP (1920 x 1080)	660 FPS	12.59 Mbit/s	210 FPS	44.93 Mbit/s	
1.3 MP (1280 x 1024)	660 FPS	6.16 Mbit/s	300 FPS	32.26 Mbit/s	

Note: The above data was determined using the bitrate listed above and hard disks with average R/W speed above 110 MB/s.

Packing List

- GV-Hot Swap VMS System V5 x 1
- AC Power Cord x 1
- GV-Keyboard Package x1
- GV-IR Remote Control x 1
- Self-Stick Rubber Pad x 4
- Quick Start Guide x 1



Overview

Front View



Rear View - GV-VMS



Options

GV-IO 12-In Card	With 12-point digital inputs, this card can expand the GV-Hot Swap VMS V5 up to 16 sensor inputs.		
GV-IO 12-Out Card	With 12-point relay outputs, this card can expand the GV-Hot Swap VMS V5 up to 16 alarm outputs.		
GV-Hub V2	An easy way for serial port extension. This hub can add 4 RS-232/RS-485 serial ports through the GV-Hot Swap VMS V5's USB port.		
GV-COM V2	This unit can add 1 RS-232/RS-485 serial port through the GV-Hot Swap VMS V5's USB port.		
GV-COM V3	This unit can add 1 RS-485 port to your computer through a USB connector.		
GV-IO Box (4 Ports V1.0/V1.1)	GV-IO Box 4 Ports V1.0/V1.1 provides 4 inputs and 4 relay outputs, and supports both DC and AC output voltages. A USB port is also provided for PC connection.		
GV-IO Box (4 Ports V1.2)	GV-IO Box 4 Ports V1.2 provides 4 inputs and 4 relay outputs. It supports both DC and AC output voltages, ar provides a USB port for PC connection.		
GV-IO Box (8 Ports)	GV-IO Box 8 provides 8 inputs and 8 relay outputs, and supports both DC and AC output voltages. A USB p is also provided for PC connection.		
GV-IO Box (16 Ports)	GV-IO Box 16 provides 16 inputs and 16 relay outputs, and supports both DC and AC output voltages. A Uport is also provided for PC connection.		
GV-Joystick V2	GV-Joystick facilitates the PTZ camera control. It can be either plugged into the GV-Hot Swap VMS V5 for independent use or connected to GV-Keyboard to empower the operation.		
GV-Keyboard V3	The GV-Keyboard V3 is designed to program and operate the system, and it can also be connected with PTZ cameras directly for PTZ control.		
Gigabit Network Card	The Gigabit Network Card can support a single gigabit port. The number of gigabit ports supported varies based on models and combination of optional cards. Up to 3 gigabit ports can be supported.		
RAID Card The RAID Card supports a maximum of 20 SATA hard drives and enhances data protection. The s RAID types include RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID 50 and RAID 60.			
Redundant Power Supply	The Redundant Power Supply comes with 2 hot-swap modules for 3U models and 3 hot-swap modules for 4U models. When 1 module is down, the remaining module(s) can still supply full power to the system. - 3U models: 600 W 1+1 mode; 100 ~ 240 V, 47-63 Hz - 4U models: 1000 W N+1 mode; 100 ~ 240 V, 47-63 Hz		

Note:

- 1. The optional accessories will be built in the GV-Hot Swap Surveillance System V5 (Rev. B) and tested before shipment. Opening the case and installing the accessories yourself will void the warranty.
- 2. The optional accessories are only supported in GV-Hot Swap Surveillance System V5 (Rev. B) or later.
- 3. Please contact our sales representatives for more information when combining optional cards for your system.