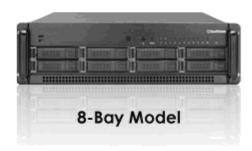


GV-Hot Swap NVR System V5 (Rev.E) – 3U, 16 / 8-Bay





INTRODUCTION

The GV-Hot Swap NVR 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 NVR System V5 can store up to 200 terabytes of recorded data. Support for hot-swapping makes data storage and management more convenient.

GeoVision Surveillance System empowers the GV-Hot Swap NVR System V5 with a maximum of 32 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-NVR provides a pure IP solution to GV-Hot Swap NVR System V5.

KEY FEATURES

- Powered by Intel Core i7 Processor
- ▶ 64-bit Windows 10 IoT Enterprise
- Support H.265 CPU and GPU decoding
- Support 32-channel GV-NVR (pure IP surveillance)
- Three-monitor display
- Maximum storage capacity up to 200 TB (4U 20-Bay) / 160 TB (3U 16-Bay) / 80 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-NVR operation
- Pre-installed SSD for recovery
- Supported RAID type: 0, 1, 3, 5, 6, 10, 00, 30, 50, 60, 100 Single Disk or JBOD (optional)
- Redundant Power Supply (optional)
- Compatible with full selections of GeoVision accessories
- ▶ CE, FCC, LVD compliant

AVAILABLE MODELS

► GV-NVRH V5





SPECIFICATIONS

System				
CPU		Intel Core i7 Processor		
RAM		8 GB Dual Channels		
OS		64-bit Windows 10 IoT Enterprise		
DirectX		11		
No of UDD	16-bay	16 (2.5" / 3.5" HDD)		
No. of HDD	8-bay	8 (2.5" / 3.5" HDD)		
Internal Storage	<u> </u>	64 GB SSD		
	Ethernet	RJ-45, 10 / 100 / 1000 Mbps x 2		
	Video Output	3 Displays: VGA, HDMI, DisplayPort		
Connector	USB 2.0	Rear: 2 ports		
	USB 3.1 Gen 1	Front: 2 Ports, Rear: 2 Ports		
	USB 3.1 Gen 2	Rear: 2 Ports		
Fan	12 cm (4 3/4")	-		
Fan	8 cm (3 1/8")	4 units		
	4.C. h	Output: 550 W		
Power	16-bay	Input: 100-240 V AC, 47-63 Hz, 8-4 A		
	8-bay	Output: 400 W		
		Input: 100-240 V AC, 47-63 Hz, 6-3 A		

Model	GV-NVR (GV)	GV-NVR (3rd Party)	
Video and Audio			
Video Input	32 channels	1, 2, 4, 6, 8, 10, 12, 16, 18, 20, 22, 24, 26, 28, 30, 32 channels	
Audio Input	32 channels	1, 2, 4, 6, 8, 10, 12, 16, 18, 20, 22, 24, 26, 28, 30, 32 channels	
Video Compression	Geo MPEG4, Geo H.264 / H.265		

Note

- 1. 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 for more information.
- 2. The H.265 CPU and GPU decoding are only supported by GV-NVR V8.7.0.0. or later versions.

Live View Play	back			
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 Playba	ck	10 sec. / 30 sec. / 1 min. / 5 min.		
Watermark M	arking	Supported		
Searching and	Backup			
Search Metho	d	Date / Time / Camera / Event Type		
Backup Type ²		DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW		
Remote Moni	toring			
Network Type		LAN, WAN, Internet		
	viranmant	Web browser (IE, Chrome, Firefox and Safari)		
Monitoring En	vironment	Mobile device (iOS and Android)		
WebCam Live	\/:a	Max. 32-channel Multi Views		
webCam Live	view	(Max. 200 channels connecting to GV-Hot Swap NVR V5)		
System Monit	oring and Recovery			
Power Restora	ition	Automatic restart after power outage		
Monitoring		Two independent Watchdogs (Hardware Watchdog + Software Watchdog)		
Recovery		Automatic system rebuild from SSD		
Alarm				
	Standard	4 inputs		
	GV-IO 12-In Card	12 inputs		
Sensor Input	(Optional)	12 inputs		
	GV-IO Box Ports	4 / 8 / 16 inputs		
	(Optional)	4/0/10 illputs		
Alarm Output	Standard	4 outputs		
	GV-IO 12-Out	12 outputs		
	Card (Optional)	12 Outputs		
	GV-IO Box Ports	4 / 8 / 16 outputs		
	(Optional)	4/0/10 outputs		



Peripheral Dev	ices			
Audio Microphone In		Mini stereo jack		
Audio Output		Mini stereo jack		
Environment				
Operating Tem	p.	0 ~ 45 °C / 32 ~ 113 °F		
Humidity		0 ~ 80% RH (non-condensing)		
Language				
Туре		Arabic / Bulgarian / Czech / Danish / Dutch / English / Finland / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Sweden / Thai / Traditional Chinese / Turkish		
Physical				
Color		Black		
5	16-bay	483 x 134 x 650 mm / 19 x 5.3 x 25.6 in		
Dimensions	0.1	483 x 134 x 580 mm / 19 x 5.3 x 22.9 in		
(W x H x D)	8-bay	483 x 134 x 650 mm / 19 x 5.3 x 25.6 in (with Redundant Power Supply)		
	16-bay	19 kg / 41.8 lb (± 1 kg / 2.2 lb)		
Net Weight	Q hav	18 kg / 39.6 lb (± 1 kg / 2.2 lb)		
	8-bay	19 kg / 41.8 lb (± 1 kg / 2.2 lb) (with Redundant Power Supply)		
Software Licen	se			
Free License		32 channels from GV-IP Cameras		
Optional Paid License		2 ~ 32 channels from third-party IP Cameras (at increments of 2)		
Optional Combinations		N/A		
Dongle Type		Internal		
Regulatory				
Туре		CE, FCC, LVD compliant		
Note:				

Note:

- 1. For backup function, you need to connect an external USB DVD/CD burner.
- 2. All specifications are subject to change without notice.



TOTAL FRAME RATE AND MAX. NO. OF CHANNELS SUPPORTED

For GV-IP Camera (Dual Streams)

	Dual-stream Resolution		Max. Frame Rate /		Total Frame Rate /
Video Resolution	Stream 1 (H.264)	Stream 2 (H.264)	Camera	Channel	System
1.3 MP	1280 x 1024	320 x 256	30 fps	32	960 fps
2 MP	1920 x 1080	448 x 252	30 fps	32	960 fps
3 MP	2048 x 1536	320 x 240	20 fps	32	640 fps
5 MP	2560 x 1920	320 x 240	10 fps	32	320 fps
8 MP	3840 x 2160	1280 x 720	25 fps	32	800 fps
12 MP	4000 x 3000	1024 x 768	15 fps	32	480 fps

Mide Beech die	Dual-stream Resolution		Max. Frame Rate /	Ch I	Total Frame Rate /
Video Resolution	Stream 1 (H.265)	Stream 2 (H.264)	Camera	Channel	System
1 MP	1280 x 720	640 x 360	30 fps	32	960 fps
2 MP	1920 x 1080	640 x 360	30 fps	32	960 fps
3 MP	2048 x 1536	640 x 480	30 fps	32	960 fps
4 MP	2560 x 1440	640 x 360	25 fps	32	800 fps
5 MP	2592 x 1944	640 x 480	30 fps	32	960 fps

For GV-Fisheye Camera (Single Stream De-warping)

Video Resolution	Single-stream Resolution (H.264)	Max. Frame Rate / Camera	Channel	Total Frame Rate / System
1.3 MP	1280 x 1200	15 fps	32	480 fps
2 MP	1440 x 1376	15 fps	32	480 fps
3 MP	2048 x 1536	15 fps	32	480 fps
4 MP	2048 x 1944	15 fps	27	405 fps
5 MP	2560 x 1920	10 fps	32	320 fps
8 MP	2896 x 2768	25 fps	12	300 fps
12 MP	4000 x 3000	15 fps	13	195 fps

For Third-Party IP Camera (Single Stream GPU Decode)

Video Resolution	Single-stream Resolution (H.264)	Max. Frame Rate / Camera	Channel	Total Frame Rate / System
1.3 MP	1280 x 1024	30 fps	32	960 fps
2 MP	1920 x 1080	30 fps	32	960 fps
3 MP	2048 x 1536	20 fps	32	640 fps
4 MP	2048 x 1944	15 fps	32	480 fps
5 MP	2560 x 1920	10 fps	32	320 fps
8 MP	3840 x 2160	30 fps	10	300 fps
12 MP	4000 x 3000	15 fps	14	210 fps

Note: The total frame rate and channels supported are determined in round-the-clock recording settings with live view only, while remote connections and video analysis features being disabled.



OVERVIEW

Front View – 16-Bay Model



Front View – 8-Bay Model



Rear View- 16 / 8-Bay Model





OPTIONS

GV-COM V3	This unit adds 1 RS-485 port to your computer through a USB connector.			
CV Pata Cantura V2 Pov	GV-Data Capture V3 Box integrates the GV-Hot Swap NVR V5 to an electronic POS system, while GV-Data			
GV-Data Capture V3 Box	Capture V3E Box can establish such integration through LAN or Internet.			
	GV-IO Box series (4E / 4 Ports / 8 Ports / 16 Ports) provide 4 / 8 / 16 inputs and relay outputs, and supports			
GV-IO Box Series	both DC and AC output voltages, with optional support for Ethernet module and 4E additionally supporting			
	PoE, TCP/IP and RS-485 connection.			
GV-IO 12-In Card	With 12-point digital inputs, this card expands the GV-Hot Swap NVR V5 up to 16 sensor inputs.			
GV-IO 12-Out Card	With 12-point relay outputs, this card expands the GV-Hot Swap NVR V5 up to 16 alarm outputs.			
GV-IR Remote Control	GV-IR Remote Control provides easy control of the GV-Hot Swap NVR / VMS System.			
CV Javetial V2	GV-Joystick facilitates the PTZ camera control. It can be either plugged into the GV-Hot Swap NVR V5 for			
GV-Joystick V2	independent use or connected to GV-Keyboard to empower the operation.			
CV Keeds and V2	GV-Keyboard V3 is designed to program and operate the system, and it can also be connected with PTZ			
GV-Keyboard V3	cameras directly for PTZ control.			
	Gigabit Network Card is provided with the two options of 1-Gb single port card and 2-port 10-Gb (20 Gb) card.			
Gigabit Network Card	The supported number of network cards varies based on models and combination of RAID card. Contact our			
	sales representatives for more information.			
RAID Card	The supported RAID types include 0, 1, 3, 5, 6, 10, 00, 30, 50, 60, 100 Single Disk or JBOD.			
	Redundant Power Supply comes with 2 hot-swap modules for 3U models and for 4U models. When 1 module			
	is down, the other module can still supply full power to the system.			
Redundant Power Supply	- 3U 8-Bay models: 460 W 1+1 mode; 100 ~ 240 V, 47 ~ 63 Hz			
	- 3U 16-Bay models: 550 W 1+1 mode; 100 ~ 240 V, 47 ~ 63 Hz			
	- 4U 20-Bay models: 800 W 1+1 mode; 90 ~ 264 V, 47 ~ 63 Hz			

Note:

- 1. The optional accessories will be built in the GV-Hot Swap Surveillance System V5 (Rev.E) 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.E) or later.
- 3. Please contact our sales representatives for more information when combining optional cards for your system.

PACKING LIST

- GV-Hot Swap NVR System V5
- AC Power Cord
- Self-Stick Rubber Pad x 4
- Documents Download Guide
- Warranty Card