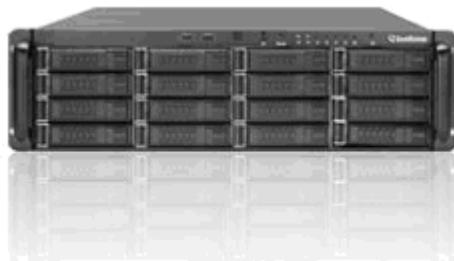


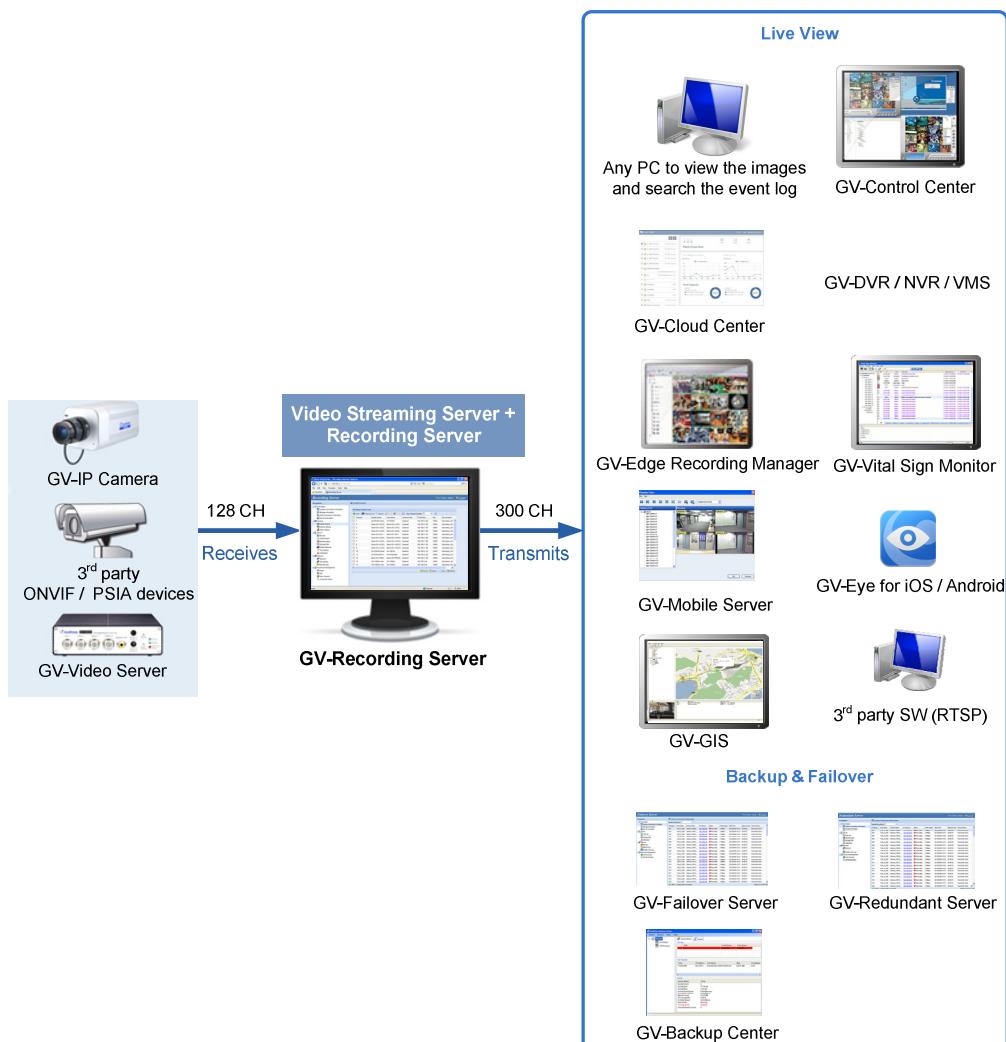
GV-Hot Swap Recording Server System V5 (Rev.E) – 3U, 16-Bay



INTRODUCTION

The GV-Hot Swap Recording Server System is a video streaming server supported by a powerful data storage capacity and designed for large-scale video surveillance deployments. It comes with a selection of 4U (20-bay) or 3U (16-bay) and hot-swappable SATA mobile racks. Depending on the HDD size, the GV-Hot Swap Recording Server System can store up to 200 terabytes of recorded data.

In addition, it can simultaneously distribute up to 300 channels to its clients which include GV-DVR /NVR / VMS, GV-GIS (geographic information system), GV-Mobile Server, GV-Control Center (central monitoring system), and GV-VMS. GV-Recording Server can also send text notifications to one GV-Vital Sign Monitor when alert conditions occur. Using the GV-Recording Server, the desired frame rates can be reached while the CPU loading and the bandwidth usage of IP video devices are significantly reduced.



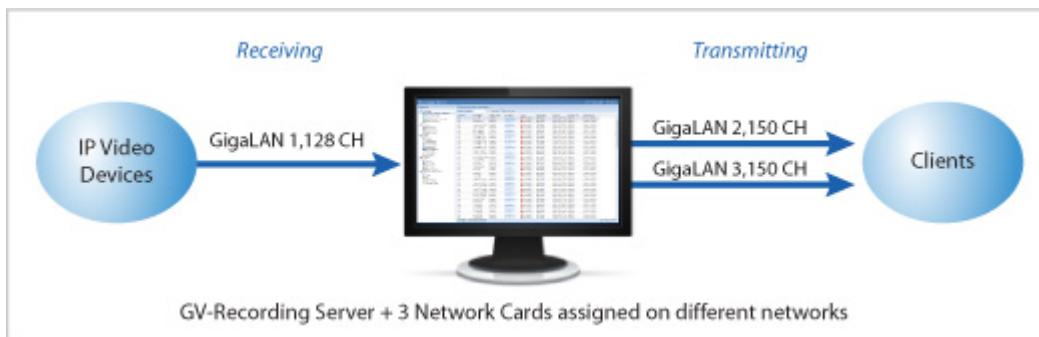
Note: The arrows in the diagram indicate the direction of the connections.

In some areas or countries, you may like to install 3G wireless Internet module (e.g. GPRS/UMTS) on the GV-Video Server or GV-Compact DVR but have the problem to obtain a public IP address from ISP. The **Passive** connection method of GV-Recording Server can solve the public IP issue by accepting the connection request from the GV-Video Server or GV-Compact DVR, and then distribute the video streaming to clients.

The GV-Recording Server provides you with a secure and affordable remote backup solution with the GV-Backup Center, GV-Failover Server and GV-Redundant Server.

NETWORK DEPLOYMENT

- The GV-Hot Swap Recording Server System, equipped with 3 network interface cards, has the capacity of receiving 128 channels and transmitting 300 channels to clients. It is recommended to set one network interface card for receiving video and two network interface cards for transmitting to clients.



PACKING LIST

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

FEATURES

- 64-bit Windows 10 IoT Enterprise
- Powered by Intel Core i7 Processor
- 16 hot-swappable SATA drive bays for data storage
- Maximum storage capacity up to 200 TB (4U 20-Bay) / 160 TB (3U 16-Bay)
- Three Gigabit LAN ports
- Two USB 2.0 ports and six USB 3.1 ports
- Pre-installed SSD for recovery
- Redundant Power Supply (optional)
- Simultaneous receiving and recording up to 128 IP channels
- Distributing up to 300 IP channels of video to clients
- Web interface to remotely configure and monitor GV-Recording Server
- Two-way audio communication (only for GV-IP devices through active connection)
- Support for third-party IP video devices (Sony, Axis, VIVOTEK, Panasonic, HikVision, Arecont Vision)
- Supported RAID type: 0, 1, 3, 5, 6, 10, 00, 30, 50, 60, 100 Single Disk or JBOD (optional)
- Support for ONVIF, PSIA and RTSP protocols
- Support for 31 languages
- CE, FCC, LVD compliant



SPECIFICATIONS

System	
CPU	Intel Core i7 Processor
RAM	16 GB Dual Channels
OS	64-bit Windows 10 IoT Enterprise
DirectX	11
No. of HDD	16 (2.5" / 3.5" HDD)
Internal Storage	64 GB SSD
Connector	Ethernet
	Video Output
	USB 2.0
	USB 3.1 Gen 1
	USB 3.1 Gen 2
Fan	12 cm (4 3/4")
	8 cm (3 1/8")
Power	Output: 550 W Input: 100-240 V AC, 47-63 Hz, 8-4 A
Backup Type ¹	DVD+R (DL) / DVD-R (DL) / DVD+R / DVD+RW / DVD-R / DVD-RW / CD-R / CD-RW
System Monitoring and Recovery	
Power Restoration	Automatic restart after power outage
Monitoring	Two independent Watchdogs (Hardware Watchdog + Software Watchdog)
Recovery	Automatic system rebuild from SSD
Environment	
Operating Temp.	0 ~ 45 °C (32 ~113 °F)
Humidity	0 ~ 80% RH (non-condensing)
Physical	
LED Indicator	Yes (Fan, Power, HDD)
Color	Black
Dimensions (W x H x D)	483 x 132.5 x 650 mm / 19 x 5.2 x 25.5 in
Net Weight	18.5 kg / 40.7 lb (\pm 1 kg / 2.2 lb)
Software Specifications	
Number of IP Video Device Connections	128 channels
Number of Remote Client Connections	300 channels
Active Connections	Yes
Passive Connections	Yes (only for GV IP devices)
3rd Party IP Cameras Support	Yes
Live Viewing	Single live view, multi-channel live view
Recording	Yes (up to 128 channels)
Remote Playback	Yes (with GV-Backup Center, GV-Failover Server and GV-Redundant Server)
Protocol	HTTP, HTTPS, TCP, UDP, SMTP, UPnP, DynDNS, RTSP, PSIA, ONVIF
E-Mail Notification	Yes (for Active connection lost, passive connection lost, USB protection key removed, recycling of recorded video, start keep days operation, motion detection, disk full, disk error, I/O trigger, disk removed, recording failure)
SMS Notification	No
2-Way Audio	Yes (only for GV-IP devices through active connection)
GPS support	Yes (only for GV-IP cameras)
Number of Accounts	Up to 1000 accounts
Mobile Phone Support	Yes (with GV-Eye)
Bandwidth Control	No
IE Live View	Yes (up to 36 channels)
IE Event Query	Yes
IE I/O Control	No

Language	Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian / Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish
Software License	
Free License	N/A
Optional Paid License	128-ch GV + 3 rd -party IP cameras
Increment for Each License	<p>1. GV-IP video devices only: 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120, 124, 128 IP channels.</p> <p>2. Third-party IP devices (Includes GV-IP video devices): 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120, 124, 128 IP channels.</p>
Optional Combinations	N/A
Dongle Type	Internal
Regulatory	
Type	CE, FCC, LVD compliant

Note:

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

HDD CAPACITY

The amount of time GV-Hot Swap Recording Server System can record before recycling begins is listed below.

Resolution	Frame rate	Bit rate	HDD capacity required for recording 128ch	HDD Capacity for each model	Amount of time each model can record before recycling begins
1.3 MP	30 fps	3.7 Mbps	5.3 TB per 24 hr	16-bay (160 TB)	160 TB / 5.3 TB = 30 days
				20-bay (200 TB)	200 TB / 5.3 TB = 37 days
2 MP	30 fps	6.7 Mbps	9.3 TB per 24 hr	16-bay (160 TB)	160 TB / 9.3 TB = 17 days
				20-bay (200 TB)	200 TB / 9.3 TB = 21 days
3 MP	20 fps	5.7 Mbps	7.9 TB per 24 hr	16-bay (160 TB)	160 TB / 7.9 TB = 20 days
				20-bay (200 TB)	200 TB / 7.9 TB = 25 days
4 MP	15 fps	11.75 Mbps	15.6 TB per 24 hr	16-bay (160 TB)	160 TB / 15.6 TB = 10 days
				20-bay (200 TB)	200 TB / 15.6 TB = 12 days
5 MP	10 fps	16.53 Mbps	22 TB per 24 hr	16-bay (160 TB)	160 TB / 22 TB = 7 days
				20-bay (200 TB)	200 TB / 22 TB = 9 days
8 MP	25 fps	13.73 Mbps	18.2 TB per 24 hr	16-bay (160 TB)	160 TB / 18.2 TB = 8 days
				20-bay (200 TB)	200 TB / 18.2 TB = 10 days
12 MP	15 fps	13.73 Mbps	18.4 TB per 24 hr	16-bay (160 TB)	160 TB / 18.4 TB = 8 days
				20-bay (200 TB)	200 TB / 18.4 TB = 10 days

Note:

- To see the number of channels supported by each hard disk, refer to *3.6 Setting Up the Video Storage Location, GV-Hot Swap Surveillance System V5 (Rev.E) User's Manual* for details.
- Specifications are subject to change without notice.

OPTIONS

Redundant Power Supply	The 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. <ul style="list-style-type: none">- 3U 8 Bays models: 460 W 1+1 mode; 100 ~ 240 V, 47 ~ 63 Hz- 3U 16 Bays models: 550 W 1+1 mode; 100 ~ 240 V, 47 ~ 63 Hz- 4U 20 Bays models: 800 W 1+1 mode; 90 ~ 264 V, 47 ~ 63 Hz
RAID Card	The supported RAID types include 0, 1, 3, 5, 6, 10, 00, 30, 50, 60, 100 Single Disk or JBOD.

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.

OVERVIEW

Front View**Rear View**