

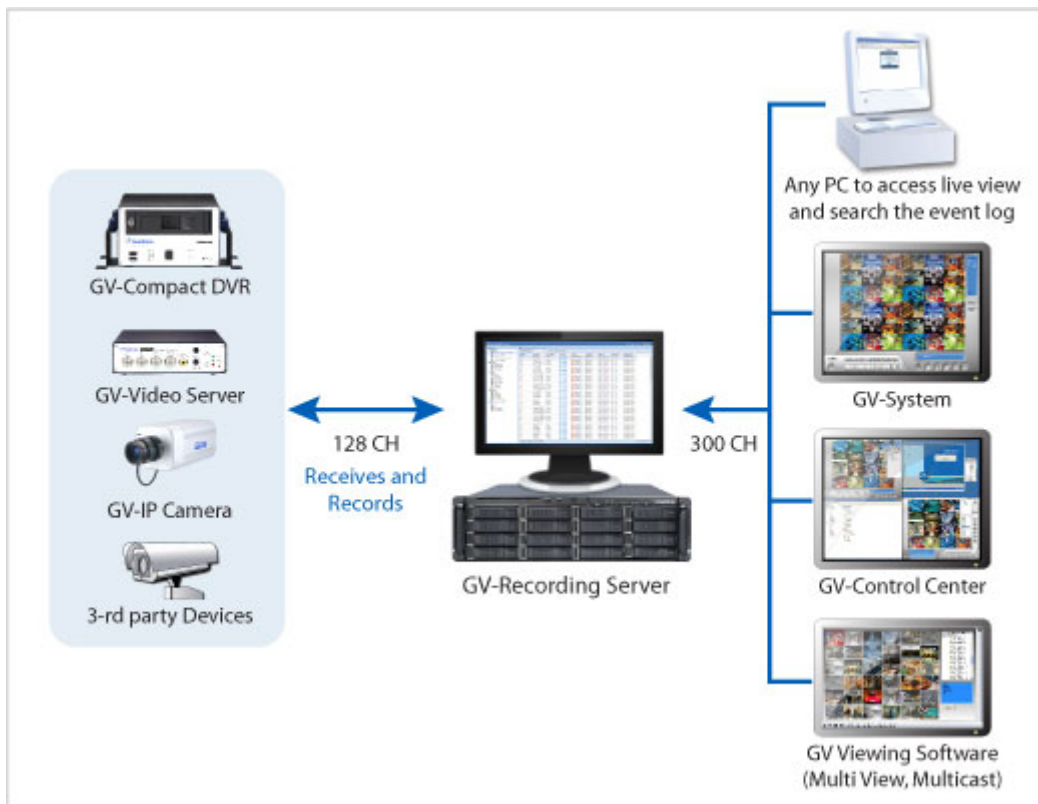
GV-Hot Swap Recording Server System - 3U, 16 / 8-Bay



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 / 8-bay) and hot-swappable SATA mobile racks. Depending on the HDD size, the GV-Hot Swap Recording Server System can store more than 40 terabytes of recorded data.

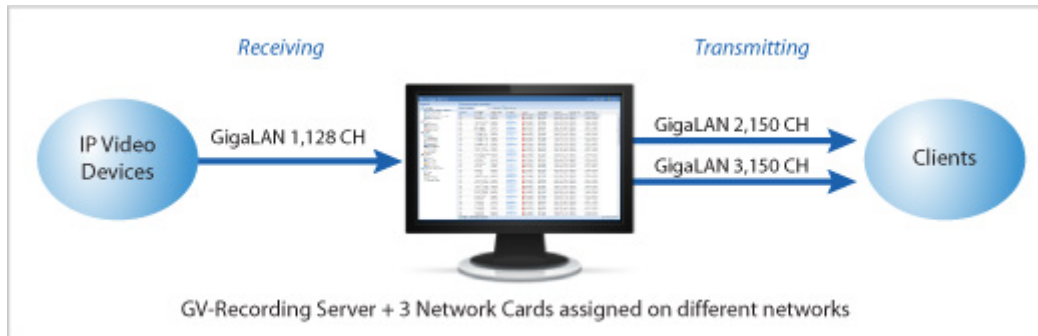
The built-in GV-Recording Server can receive and record up to 128 channels from various IP video devices. In addition, it can simultaneously distribute up to 300 channels to its clients which include GV-System (DVR/NVR system), GV-Control Center (central monitoring system) and Multi View (viewing software). 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.

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.



Features

- Windows Embedded 7 64-bit (x64)
- Powered by Intel Core i7 Processor
- 16 / 8 hot-swappable SATA drive bays for data storage
- Maximum storage capacity of more than 32 terabytes
- Simultaneous receiving and recording up to 128 IP channels
- Distributing up to 300 IP channels of video to clients
- Three Gigabit LAN ports
- Six USB 2.0 ports and two USB 3.0 ports
- Recovery DVD in case of failure
- 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)
- Support for ONVIF, PSIA and RTSP protocols
- Support for 16 languages



Specifications

System		
	16-bay	8-bay
CPU	Intel Core i7 Processor	
RAM	16 GB Dual Channels	
OS	64-bit Microsoft Windows 7 Embedded	
DirectX	9.0c	
No. of HDD	16 (3.5" HDD)	8 (3.5" HDD)
Internal Storage	500 GB (2.5" HDD)	500 GB (3.5" HDD)
Connector	Ethernet	RJ-45, 10 / 100 / 1000 Mbps x 3
	Video Output	DB-15 VGA Monitor Output, DVI-DL Output (DVI-D signal Only), HDMI Output
	USB 2.0	Front : 2 ports, Rear : 4 ports
	USB 3.0	Rear: 2 ports
DVD (±) RW	5.25"	-
	Slim	8X
Fan	12 cm (4 3/4")	-
	8 cm (3 1/8")	4 units
Power	Output: 550W Input: 100-240 V, 60-50 Hz	Output: 400W Input: 100-240 V, 60-50 Hz
	Backup Type	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 DVD	Automatic system rebuild from DVD	
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)	430 x 132.5 x 650 mm / 17 x 5.2 x 25.5 in	430 x 132.5 x 580 mm / 17 x 5.2 x 22.8 in
Weight	18.5 Kg / 40.7 lb (± 1 kg / 2.2 lb)	17.5 Kg / 38.5 lb (± 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)	
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	No	
Bandwidth Control	No	
IE Live View	Yes (up to 36 channels)	
IE Event Query	Yes	
IE I/O Control	No	
Language	Czech / Danish / English / French / German / Hebrew / Hungarian / Italian / Japanese / Polish / Portuguese / Russian / Serbian / Simplified Chinese / Spanish / Traditional Chinese	

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 M	30 fps	3.7 Mbps	5.3 TB per 24 hr	8-bay (16 TB)	16 TB / 5.3 TB = 3 days
				16-bay (32 TB)	32 TB / 5.3 TB = 6 days
				20-bay (40 TB)	40 TB / 5.3 TB = 7 days 12 hrs
2.0 M	30 fps	6.7 Mbps	9.3 TB per 24 hr	8-bay (16 TB)	16 TB / 9.3 TB = 1 day 17 hrs
				16-bay (32 TB)	32 TB / 9.3 TB = 3 days 10 hrs
				20-bay (40 TB)	40 TB / 9.3 TB = 4 days 7 hrs
3.0 M	20 fps	5.7 Mbps	7.9 TB per 24 hr	8-bay (16 TB)	16 TB / 7.9 TB = 2 days 6 hrs
				16-bay (32 TB)	32 TB / 7.9 TB = 4 days 12 hrs
				20-bay (40 TB)	40 TB / 7.9 TB = 5 days

Note:

1. The HDD capacity was determined using H.264 codec.
2. Specifications are subject to change without notice.

IP Camera Support List

The following camera brands and models have been tested for compatibility with GV-Recording Server. Note that GV-Recording Server V1.0 only supports IP devices with V8.4 or earlier versions listed under the GV S/W column in the support list. GV-Recording Server V1.1 only supports IP devices with V8.5 or earlier versions listed under the GV S/W column in the support list.

Arecont Vision	AXIS	GeoVision	HikVision
Panasonic	Sony	VIVOTEK	Panasonic

Compatible Standard and Protocol

GV-Recording Server also allows for integration with all other IP video devices compatible with ONVIF, PSIA standards, or RTSP protocol.

ONVIF	PSIA	RTSP	
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Overview

Front View - 16-Bay Model



Front View - 8-Bay Model



Rear View

