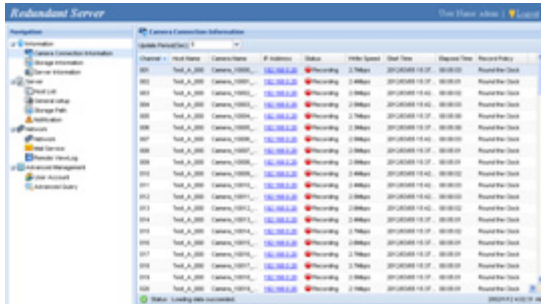
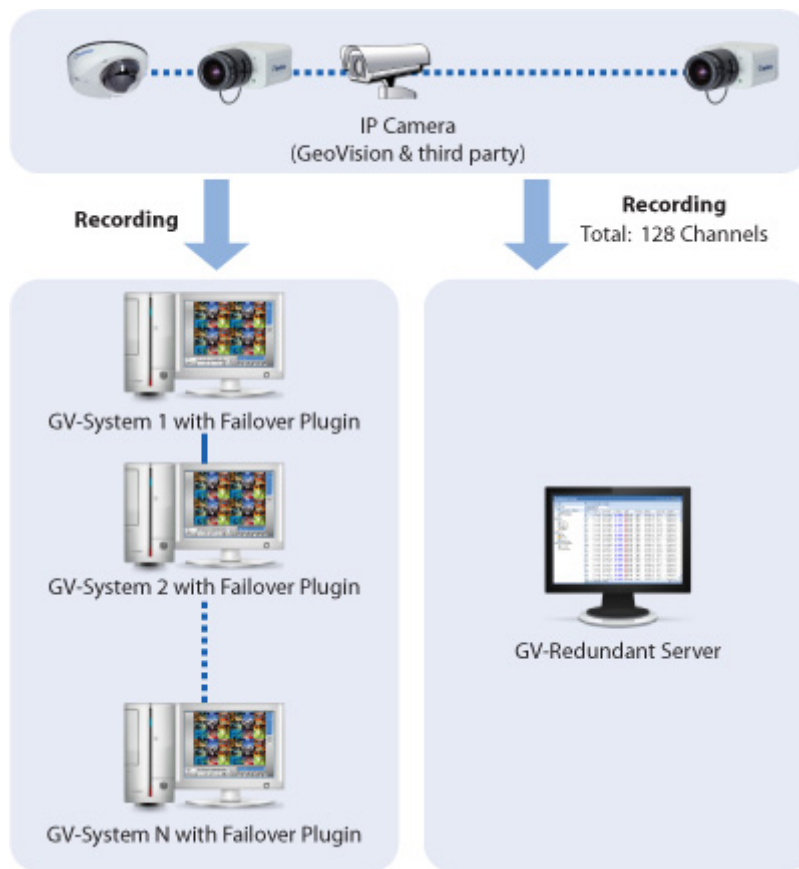


# GV-Redundant Server



## INTRODUCTION

The GV-Redundant Server is a video backup server designed for large-scale video surveillance deployments. It can record up to 128 IP channels of the connected GV-System hosts. As its name suggests, the GV-Redundant Server keeps an extra copy of IP channels from GV-System hosts.



Note: The GV-Redundant Server does not support backup of analog cameras.

## Features

- Record up to 128 IP channels simultaneously
- Support round-the-clock recording
- Video playback using Remote ViewLog
- Support for remote configuration and monitoring of GV-Redundant Server using Internet Explorer, Firefox, Google Chrome and Safari
- Support 6 third-party IP device brands (Arecont Vision, Axis, HikVision, Panasonic, Sony, VIVOTEK)
- Support for ONVIF, PSIA and RTSP protocols
- Support for 31 languages

## Minimum System Requirements

Servers meeting the following minimum system requirements have the capacity to receive up to 128 channels.

OS	64-bit Windows 7 / 8 / Server 2008 R2 / Server 2012
CPU	Core i5 750, 2.67 GHz
Memory	6 GB Dual Channels
Hard Disk	1 GB. (for installation)
Browser	<ul style="list-style-type: none"> <li>● Internet Explorer 8.0.7600.16385</li> <li>● Internet Explorer 9.00.7930.16406</li> <li>● Firefox 3.6.13</li> <li>● Google Chrome 9.0.597.94</li> <li>● Safari 5.33.19.4</li> </ul>
LAN	Gigabit Ethernet X 1
Hardware	Internal or external GV-USB Dongle

### Note:

1. Optionally purchase an internal dongle which provides the hardware watchdog function by starting Windows when the system crashes.
2. It is recommended to use the internal GV-USB Dongle to have the Hardware Watchdog function which restarts the PC when Windows crashes or freezes.

## Software License

Free License	N/A
Maximum License	128 channels
Increment for Each License	N/A
Optional Combinations	N/A
Dongle Type	Internal or external

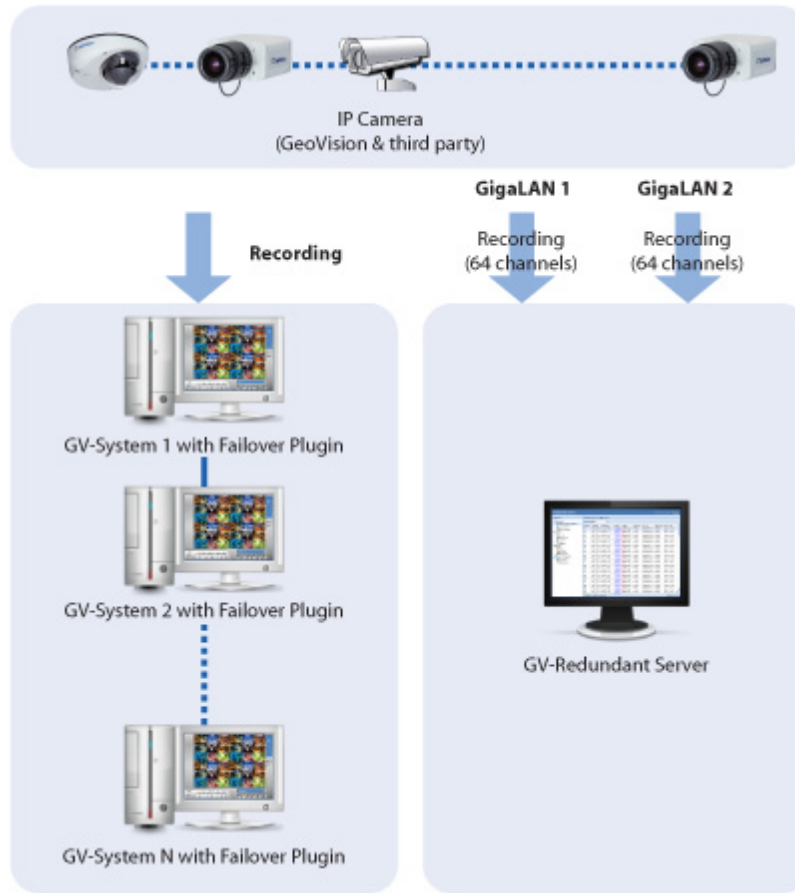
## Recommended Hardware Requirements

The recommended hard disk requirements for 24 hours of recording are detailed below.

Resolution	Frame rate	Codec	Max. Channel per HDD and Required HDD Capacity	HDD capacity required for recording 128 ch for 24 hr	Recommended HDD Requirements
1.3 M	30 fps	H.264 / MPEG4	32 ch / 2.5 TB	10 TB	3 TB 7200RPM HDD x 4 (SATA3)
		JPEG	8 ch / 2.7 TB	43.2 TB	3 TB 7200RPM HDD x 16 (SATA3)
2.0 M	30 fps	H.264	21 ch / 2.2 TB	13.5 TB	3 TB 7200RPM HDD x 7 (SATA3)
		JPEG	5 ch / 2.5 TB	64 TB	3 TB 7200RPM HDD x 26 (SATA3)
3.0 M	20 fps	H.264	32 ch / 3 TB	12 TB	3 TB 7200RPM HDD x 4 (SATA3)
		JPEG	4 ch / 2 TB	64 TB	3 TB 7200RPM HDD x 32 (SATA3)

### Network Requirements

For optimal performance and processing efficiency, it is advisable to use two Gigabit connections, each assigned with 64 channels and run through separate network. The suggested deployment of Gigabit connections for recording is illustrated below.



## Specifications

Feature	Device	
Client	GV-System V8.5.3 or later	
Dongle	Up to 128 IP channels	
3rd Party IP Cameras Support	Yes	
Recording Mode	Records as soon as the hosts are connected	
Protocol	DynDNS, HTTP, HTTPS, SMTP, ONVIF, PSIA, RTSP, TCP, UDP	
Live Viewing	No	
Playback	using Remote ViewLog	Yes (Remote ViewLog V8.5.3 or later)
	Via web page	Yes
Recycle Threshold for Video Files	Yes	
Event Log	Yes	
Recycling days & threshold for Event Logs	Yes	
S/W & H/W Watchdog	Yes	
E-mail Notification	Yes (camera connection loss, removal of USB protection key, recycling of recorded video, start keep days operation, disk full, disk error, removal of hard disk, recording failure)	
Number of User Accounts	Up to 1000 accounts	
Support for Internet / LAN	Yes	
Mobile Phone Support	No	
Bandwidth Control	No	
IE Event Query	Yes	
IE I/O Control	No	
Language on Web Interface	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	

**IMPORTANT:** The GV-Redundant Server and GV-Recording Server can not be run in one PC at the same time.

## IP Camera Support List

The following camera brands and models have been tested for compatibility with GV-Redundant Server. Note that GV-Redundant Server V1.0.2.0 only supports IP devices with V8.5.7 or earlier versions listed under the GV S/W column in the support list.

<b>GeoVision</b>	<b>Arecont Vision</b>	<b>AXIS</b>	<b>HikVision</b>
<b>Panasonic</b>	<b>Sony</b>	<b>VIVOTEK</b>	

## Compatible Standard and Protocol

GV-Redundant Server also allows for integration with all other IP video devices compatible with ONVIF (V2.0), PSIA (V1.1) standards, or RTSP protocol.

<b>ONVIF</b>	<b>PSIA</b>	<b>RTSP</b>	
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