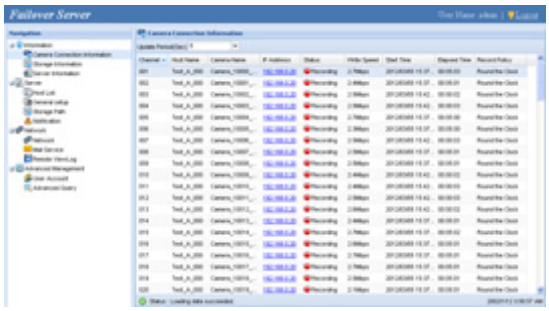
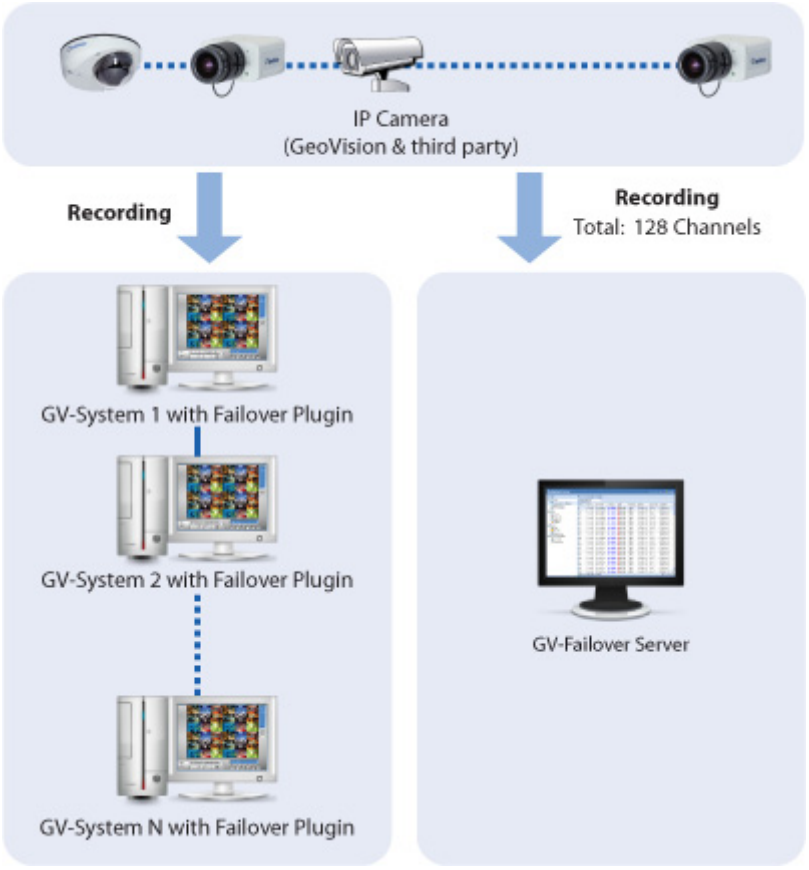
GV-Failover Server



INTRODUCTION

GV-Failover Server is a video backup server that records up to 128 IP streams from hosts GV-Systems when any of the following conditions occur: (1) when the host GV-System starts up without monitoring; (2) when file recycling fails; (3) when there is an error in the hard drive; (4) when there is an error with the Failover Plugin program.



Note: The GV-Failover 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-Failover 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	• Internet Explorer 8.0.7600.16385 • Internet Explorer 9.00.7930.16406 • Firefox 3.6.13 • Google Chrome 9.0.597.94 • Safari 5.33.19.4
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

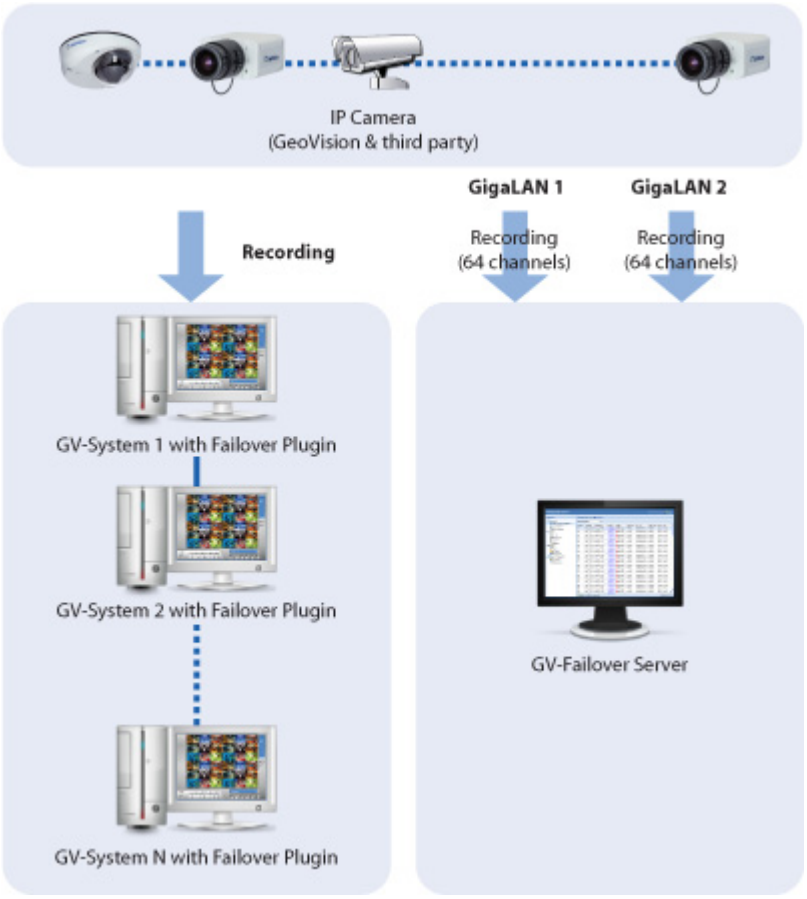
Recommended Hardware Requirements

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 when: 1. host GV-System is connected but not recording. 2. recycling of video files fails at host GV-System. 3. an error occurs in the hard drive at host GV-System. 4. an error occurs with the Failover Plugin program.
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-Failover Server. Note that GV-Failover Server V1.0.2.0 only supports IP devices with V8.5.7.0 or earlier versions listed under the GV S/W column in the support list.

GeoVision	**Arecont Vision**	**AXIS**	**HikVision**
Panasonic	**Sony**	**VIVOTEK**	

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.

ONVIF	**PSIA**	**RTSP**	