

Quick Start Guide

GV-Redundant Server / GV-Failover Server V1.02



Thank you for purchasing GV-Redundant Server / Failover Server. This guide is designed to assist the new user in getting immediate results from the GV-Redundant Server / Failover Server. For advanced information on how to use the GV-Redundant Server / Failover Server, please refer to GV-Redundant Server / Failover Server User's Manual on Software DVD.

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Introduction

Welcome to the GV-Redundant Server / Failover Server Quick Start Guide. In the following sections, you will be guided through the requirements and basic installation steps of the GV-Redundant Server / GV-Failover Server. For detailed information, see GV-Redundant Server / GV-Failover Server User's Manual on the Software DVD.

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

Packing List

- Software DVD
- GV-USB Dongle for GV-Redundant Server or GV-Failover Server

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. Memory required varies depending on the number of channels and resolution of videos received.
- 2. The 1 GB hard disk requirement applies for installation of GV-Redundant Server / GV-Failover Server only.
- 3. Recordings can not be played back using Firefox, Google Chrome and Safari.

Recommended Hard Disk Requirements

The recommended hard disk requirements for 24 hours of recording are listed as 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 MP	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 MP	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 MP	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)

Note: The number of hard drives required varies depending on the write speed of the hard drive and the hard disk size required varies depending on the recorded file size. The recommended hard disk requirement is just for your reference.

Optimal 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. This is illustrated below:



Note: To avoid network bottleneck, each network card must be assigned with a different IP address and subnet mask. For detail, see *Appendix C. How to Avoid Network Bottleneck, GV-Redundant Server / GV-Failover Server User's Manual* on the Software DVD.

GV-USB Dongle

A GV-USB Dongle is required to activate the GV-Redundant Server / GV-Failover Server.

- **GV-Redundant Server**: Internal or external USB dongle supporting a maximum of 128 GeoVision and third-party IP channels.
- **GV-Failover Server**: Internal or external USB dongle supporting a maximum of 128 GeoVision and third-party IP channels.

Note:

- 1. The GV-Redundant Server and GV-Failover Server can not be run in one PC at the same time.
- 2. One GV-System can only connect to one GV-Redundant Server / GV-Failover Server.
- 3. Optionally purchase an internal USB dongle for the Hardware Watchdog function. With this feature, the computer restarts itself when Windows crashes. To see how to install the internal GV-USB Dongle, refer to *Appendix B. Installing the Internal USB Dongle*, *GV-Redundant Server / GV-Failover Server User's Manual* on Software DVD.

Compatible Versions of GeoVision Application

The GV-Redundant Server / GV-Failover Server is only compatible with the following version:

• **GV-System, GV-Remote ViewLog:** version 8.5.3 or later.

) Installation

Installing the GV-Redundant Server / GV-Failover Server

- 1. Plug in the GV-Redundant Server / GV-Failover Server dongle.
- 2. Insert Software DVD to the computer. This window pops up automatically.



- To install USB driver, select Install or Remove GeoVision GV-Series Driver and click Install GeoVision USB Device Drivers to start.
- To install GV-Redundant Server / GV-Failover Server, select GV-Redundant & Failover Server V1.0.2.0 and follow the on-screen instructions.

Note: If you are a user of Window 8 or Windows Server 2012, see *How* to install .Net Framework 3.5 for Windows Server 2012 and Windows 8 in Appendix D in the manual.

Getting Started

Starting the GV-Redundant Server / GV-Failover Server

- 1. Log in the GV-Redundant Server / GV-Failover Server.
 - A. Right-click the **Server Service Manager** icon **a** in the system tray and select **Login**. This dialog box appears.

Please enter user ID	and Password 🛛 🔀
Account	
Paceword	
Password	
ОК	Cancel

- B. Type the ID and password. The default ID and password are **admin**.
- C. Click **OK**. The message "Login succeded." appears.
- 2. Right-click the **Server Service Manager** icon **and** select **Start Service**. The GV-Redundant Server / GV-Failover Server is started and the icon is indicated with a green tick **a**.
- 3. Access the Web interface.
 - A. Right-click the **Server Service Manager** icon **and the system** tray and select **Access Web Interface**. This window appears.



- B. Select the language using the drop-down list, type the ID, password and the verification number. The default ID and password are **admin**.
- C. Click **Login**. The Web interface appears.



For more detail, see *GV-Redundant Server / GV-Failover Server User's Manual* on the Software DVD.

Note:

- To enable the updating of images in Microsoft Internet Explorer, you must set your browser to allow ActiveX Controls and perform a one-time installation of GeoVision's ActiveX component onto your computer.
- 2. If the GV-Redundant Server / GV-Failover Server is installed behind a firewall or router, you may need to open these default ports: HTTP port 80, remote playback (Remote ViewLog) port 5552 and Command port 20000 (GV-System connection). See *Changing the HTTP and Command Ports*, *3.1 Starting the GV-Redundant Server / GV-Failover Server, GV-Redundant Server / GV-Failover Server User's Manual* on Software DVD.

Connecting GV-System to GV-Redundant Server / GV-Failover Server

 In the GV-System folder, execute the Failover Plugin program. The Failover Plugin icon an appears in the system tray.

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🔇 Dack + 🕥 · 💋	, s	earch 🜔 Folders]-			
ddress 🔁 D:\GV-800						💌 🛃 Go
	^	Name -	Date Modified	Product Version	Channels	~
File and Folder Tasks	*	EZSyslog EZViewLog500	11/22/2011 7:59 PM 11/22/2011 6:40 PM 9/22/2009 6:26 PM	8, 5, 3, 0 8, 5, 3, 0		-
 Publish this folder to the Web Share this folder 		FaloverPlugin FaloverPlugin	11/14/2011 7:09 PM 9/14/2011 2:15 PM 3/13/2000 10:15 AM 9/22/2009 6:53 PM	8.5.3.0		
Other Places	۲	FCDemo_Inverse	9/23/2009 3:57 PM 9/19/2008 3:38 PM	1.0.0.1		~
🥪 Local Disk (D:)	~	<				2

2. Double-click the **Failover Plugin** icon 🚅 . This dialog box appears.

IP addr	ess 192.168.0.214	
,	ort 20000	Default
Userna	admin	
Passw	ord *****	
Failover Check Inte	val 5 seconds 🛂	
	V Auto start service	
	✓ Keep in system tray when operating system starts up.	
	Select camera	
Server address	status	
192.168.0.214	Server disconnected	

 Type the IP address, ID and password of the GV-Redundant Server / GV-Failover Server. Keep the default Command port 20000 or change it to match the corresponding port on GV-Redundant Server / GV-Failover Server. See 3.1 Starting GV-Redundant Server / GV-Failover Server, GV-Redundant Server / GV-Failover Server User's Manual on Software DVD. 4. Click **Select IP Camera** to select the channels for connection. This dialog box appears.



 Click Start service. The GV-Redundant Server will start recording the selected IP channels of the host. The GV-Failover Server will start recording the selected IP channels under faulty conditions. The recordings on GV-Redundant Server / GV-Failover Server will be stopped when you click Stop Service.

🖥 Redundant Server - Microsoft In	terne	t Explorer								
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Camera Connection Information		Channel A	Host Name	Camera Name	IP Address	Status	White Speed	Start Time	Elapsed Time	Record Policy
Server Information		001	DVR	Camera 1	192.168.3.107	Recording	935.3Kbps	2011/11/3	00:01:51	Round the Ck
G Server		002	DVR	Camera 2	192168212	Recording	15.9Mbps	2011/11/3	00:01:49	Round the Cla
Host List General setup Storage Path Notification Storage Path Notification		<								
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Done									Internet	

For detailed settings on the Failover Plugin, see step 5 in 3.2 Connecting GV-System to GV-Redundant Server / GV-Failover Server, GV-Redundant Server / GV-Failover Server User's Manual on Software DVD.

IMPORTANT: Keep the Failover Plugin program running in the background to maintain the connection of the GV-System to GV-Redundant Server / GV-Failover Server.

The Camera Connection Information page shows the connection status of all the IP cameras added to the Working Camera List.

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Redundant Serv	er	ţ.					U	ser Name:	admin	PLogout
Navigation		Came	ra Connect	ion Informat	ion					
G Information	^	Update Pe	riod(Sec) 5		•					
Camera Connection Information		Channel	Host Name	Camera Name	IP Address	Status	Write Speed	Start Time	Elapsed Time	Record Policy
Storage Information		001	DVR	Comora 1	192.168.3.107	Connecting				Round the Clock
G Server		002	DVR	Camera 2	192 168 2 12	Recording	902.2Kbps	2011/12/08 14	00:00:22	Round the Clock
Host List		003	DVR	Camera 3	192 168.0.6	Connecting				Round the Clock
General setup		004	DVR	Camera 4	<u>192.168.3.161</u>	Recording	388.9Kbps	2011/12/08 14	00:00:23	Round the Clock
A Notification		<								
C C KARTWORK	~	🜍 Statu	s : Loading di	ata succeeded.					2011	/12/08 2:30:14 PM

The controls in the window:

No.	Name	Description
1	Update Period	Shows the refresh frequency of the page. Use the
		drop-down list to customize.
2	IP Address	Click to access the Web interface of the camera.
3	Status	Click to access the Web interface of the camera.
		Recording (The camera is recording.
		Connected
		Connecting : Connecting to the camera.
		Connect Failed: Unable to connect to the
		camera.
		Disconnect : The camera is disconnected.
		VIDEO LOST : Unable to obtain video from
		the device.
		Login failed : Incorrect ID or password.
		X Recording Failure : Unable to record video.

Setting Up the Storage

When logging in the GV-Redundant Server / GV-Failover Server for the first time, it is advisable that you configure the storage settings. The default storage path is :**ERS\bksv**. To add a new storage group or storage path, follow the steps below.

1. On the main menu, select **Server** and **Storage Path**. This page appears.



2. On the Storage Path page, click the **Add** button **+**Add to add a new storage folder in a different disk drive, or simply select an existing storage folder.



3. Use the default storage path, or click the **Add** button to add a new storage path.

Classad				
- Sturager			🖃 💼 🔲 Working Camera List	
			DVR-Camera 1	
			DVR-Camera 2	
			DVR-Camera 3	
			DVR-Camera 4	
			DVR-Camera 5	
Contraction and the second			DVR-Camera 6	
🕂 Add 💥 Delete	3		DVR-Camera 7	
Storage Path	Disk Space	Free Space	DVR-Camera 8	
d:)ERS)bkevr	45 21 08	2.4408	DVR-Camera 9	
di anto bito vi	40.2100	2.4100	DVR-Camera 10	

- 4. In the Working Camera List section, type a range of camera number and click the **Select** button. You can also select cameras individually from the **Working Camera List**. The selected cameras will be recorded to the storage path indicated.
- 5. To specify a recycle threshold, type a minimum free space. When the remaining free space falls below the threshold, the oldest files will be overwritten.

Enlarge Recycle Threshold (at least: 8 GB V (1) 8 GB):	Recycle	20			
	Enlarge Recycle Threshold (at least: 8 GB):	8	GB	 ■ 	

6. Click Save. These settings are saved and applied instantly.

IMPORTANT:

- 1. When multiple storage paths are added to a Storage Group, recycling of the oldest file will begin when the free space of every storage path in that Storage Group falls below the recycle threshold.
- 2. By default, the recorded files will be stored for 30 days unless the recycle threshold is met.

Establishing Accounts

You can create up to **1000** User and Supervisor accounts to access GV-Redundant Server / GV-Failover Server.

- A supervisor account: full access to GV-Redundant Server / GV-Failover Server.
- A user account: limited access right.

User Account			
🕂 Add 🛛 🗶 De	lete - 🥊 Change	Password 🚾 E-Mail 🖉 Privilege	
User Name 🔺	Hint	E-Mail	
E Level: Super	visor		
admin		***************************************	

Creating an Account

1. Click the **Add** button + Add . This dialog box appears.



- 2. Type the **User Name**, **Password** and a password **Hint** for the account.
- 3. Use the Level drop-down list to select Supervisor or User.
- Optionally type an e-mail address for the account. When you forget the password, the password can be sent to your e-mail account using the Forget Password link in the login page.
- 5. Click **OK** to return to the User Account List. You can edit the account settings using the **Change Password** and **E-Mail** button.

Setting the Access Right

1. Select a user account and click the **Privilege** button privilege or simply double-click the account. This dialog box appears.

rivi	lege					
In	formation					
Jsei	r Name:	user1				
.eve	el:	User				
E-M	ail:	user1@geovision.co	m.tw			
IP Rei	Device List	✓ ✓ Select A	II 🗙 Clear All			
IP Rei	note Playback Host Name	✓ ✓ Select A Camera Name	II 💥 Clear All	Remote Playback	Event Query	
IP Rei	note Playback Host Name DVR	Camera Name	II X Clear All IP Address 192.168.3.107	Remote Playback	Event Query	
IP Rei 1	Host Name	Camera Name Camera 1 Camera 2	II 🗶 Clear All IP Address 192.168.3.107 192.168.2.12	Remote Playback	Event Query	
1 Rei 1 2 3	Device List mote Playback Host Name DVR DVR DVR	Camera Name Camera 1 Camera 2 Camera 3	II Clear All IP Address 192.168.3.107 192.168.2.12 192.168.0.6	Remote Playback	Event Query	

2. The cameras listed in the IP Device List are displayed. Select to allow the user to access the **Remote Playback** and **Event Query** functions.

P Device List —				
emote Playback	👻 ✔ Select All	🗙 Clear All		
Host Name	Camera Name	IP Address	Remote Playback	Event Query
DVR	Camera 1	192.168.3.107		V
2 DVR	Camera 2	192.168.2.12		
B DVR	Camera 3	192.168.0.6	V	
1 DVR	Camera 4	192.168.3.161	V	\checkmark

3. Click Save.

B) Playing Back Video

The files recorded on the GV-Redundant Server / GV-Failover Server can be played back remotely using the Remote ViewLog program. Install the program from the Software DVD or download it through the Web interface of the GV-Redundant Server / GV-Failover Server.

1. On the Remote ViewLog's main screen, click the **Tools** button and select **Address Book**. This dialog box appears.



- 2. Add the GV-Redundant Server / GV-Failover Server.
 - A. Click **Add GV Device Server** button **I**. This dialog box appears.

	102.100.0.214	
Port :	5552 Defaul	t
Remember Acc	ount	
D:	admin	
Password :	•••••	

- B. Type the IP address or domain name of the GV-Redundant Server / GV-Failover Server in the **IP Address** filed.
- C. Use the default connection port **5552** or modify to match the port value on GV-Redundant Server / GV-Failover Server. See *4.3.3 Remote ViewLog, GV-Redundant Server / GV-Failover Server User's Manual* on Software DVD.

- D. Type the **ID** and **Password** of the GV-Redundant Server / GV-Failover Server user account.
- E. To add the GV-Redundant Server / GV-Failover Server to address book under a group, select a **Group Name** or type a new name.
- F. Click **OK**. The GV-Redundant Server / GV-Failover Server is added to the address book.



3. Right-click a host under the GV-Redundant Server / Failover Server and select **Connect**. This dialog box appears.

lease Enter User-ID and I	Password 🛛 🔀
Test234-PC	~
ID :	
Password :	
Note : Please make sure Viewlog-Service is runnin	that CMS Server on each g.

4. Type the ID and password of the GV-Redundant Server / GV-Failover Server.

5. Click **OK**. The playback starts.





9F, No. 246, Sec. 1, Neihu Rd., Neihu District, Taipei, Taiwan Tel: +886-2-8797-8376 Fax: +886-2-8797-8335 support@geovision.com.tw http://www.geovision.com.tw