

Quick Start Guide

GV-Recording Server



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

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[Technical Support Policy]

Contents

1.	Intr	roduction1	
	1.1	Packing List 1	
	1.2	Software License 1	
2.	Sys	stem Requirements2	2
	2.1	Minimum System Requirements	2
	2.2	Compatible GV-Software	3
	2.3	Recommended Hard Disk Requirements	ŧ
	2.4	Recommended Network Requirements 5	5
3.	Ins	tallation7	7
	3.1	Installing GV-Recording Server	7
	3.2	Starting GV-Recording Server	7
4.	Co	nnecting to IP Devices)
	4.1	Adding IP Video Devices)
	4.2	Assigning Storage Paths10)
	4.3	Starting Service	2
5.	Act	tive and Passive Mode14	ŀ
	5.1	Passive Connection	ŧ
6.	Dis	tributing to Clients17	7
	6.1	Web Interface through User Account 17	7
	6.2	Connecting with GV-DVR / NVR)
	6.3	Connecting with Multi View	
	6.4	Connecting with the GV-Control Center	2
	6.5	Connecting with Multicast	3
	6.6	Connecting with GV-VMS	1
	6.7	Connecting with Remote ViewLog	3
	6.8	Connecting with GV-Mobile Server	7

1. Introduction

Welcome to the GV-Recording Server Quick Start Guide. This quick guide will guide you through the basic installation of GV-Recording Server, connecting to IP video devices and distributing to clients. For the detailed user manual, see <u>GV-Recording Server User's Manual</u>.

1.1 Packing List

• GV-USB Dongle

1.2 Software License

Free License	N/A	
Max. License	256 channels	
Increment for Each License	 GV-IP video devices only: 8, 16, 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, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256 IP channels Third-party IP devices (Includes GV-IP video devices): 8, 16, 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, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256 IP channels 	
Optional Combinations	N/A	
Dongle Type	Internal	

GV-Recording Server (full functions available):

GV-Video Gateway Only (without recording functions):

Free License	N/A	
Max. License	256 channels	
Increment for Each License	Third-party IP devices (Includes GV-IP video devices):	
	128, 256 IP channels	
Optional Combinations	N/A	
Dongle Type	Internal or external	

Note: To see how to install the internal GV-USB Dongle, refer to *Appendix C. Install the Internal USB Dongle* in the *GV-Recording Server User Manual.*

2. System Requirements

2.1 Minimum System Requirements

The PC used to install GV-Recording Server must meet the following minimum system requirements:

OS		64-k	64-bit Windows 7 / 8 / 8.1 / 10 / Server 2008 R2 / Server 2012 R2				
CPU		Core i7 8700, 3.2 GHz					
Memory		•	GV-Video Gateway: 6 GB Dual Channels				
		•	GV-Recording Server: 16 GB Dual Channels				
Hard Installation		1 G	В				
Disk OS		32 (32 GB				
Browser		•	Internet Explorer 8 to 11				
		•	• Firefox 26.0				
		Google Chrome 31.0.1650.63					
		Safari 5.1.7					
LAN		Gigabit Ethernet x 1~6					
Software		.Net Framework 3.5					
Hardwa	are	•	GV-Video Gateway: Internal or external GV-USB Dongle				
		•	GV-Recording Server: Internal GV-USB Dongle				

Note:

- 1. The 1 GB hard disk requirement is for installation of GV-Recording Server only. To see hard disk requirements for recording, see *2.3 Recommended Hard Disk Requirements* for more details.
- 2. In order to receive 256 channels and transmit up to 600 channels, see 2.3 Recommended Hard Disk Requirements and 2.4 Recommended Network Requirements.
- The browsers supported by GV-Recording Server are Internet Explorer, Firefox, Google Chrome, and Safari. You can access single live view by using Firefox and Internet Explorer. Only Internet Explorer is supported for playing back recorded files.

2.2 Compatible GV-Software

- GV-Backup Center: version 1.1.2 or later
- GV-Cloud Center: version 1.0 or later
- **GV-Control Center:** version 3.7.0 or later (V3.6.0 or earlier only support 128 CH)
- GV-DVR / NVR, Multi View, Multicast: version 8.5.6 or later (for 64 CH)
- GV-Edge Recording Manager for Windows: version 2.0 (V1.0.0 or earlier only support 128 CH)
- **GV-Edge Recording Manager for Mac:** version 1.2.0 (V1.0.0 or earlier only support 128 CH)
- **GV-Eye:** version 2.7.4 or later (V2.7.3 or earlier only support 128 CH)
- **GV-GIS:** version 3.1.1 or later
- **GV-Mobile Server:** version 1.3 or later (for 64 CH)
- **GV-Redundant Server and Failover Server:** version 2.0 [coming soon] (V1.1.0.0 or earlier only support 128 CH)
- **GV-Vital Sign Monitor**: version 8.5.9 or later (for 128 CH)
- **GV-VMS:** version 14.10 or later (for 64 CH)

Note: The GV-Recording Server cannot be installed with the GV-DVR/NVR/VMS on the same PC.



2.3 Recommended Hard Disk Requirements

The maximum channels per hard disk for motion recording and the recommended hard disk requirements for 24 hours of round-the-clock recording are listed as below.

Res.	Bitrate	FPS	Codec	Max. CH per HDD and required HDD size	Required HDD size (recording 256 CH, 24 hr)	Recommende d HDD requirements						
1.3 MP	0.83 Mbps			32 CH / 280 GB	2.3 TB							
2 MP	1.6 Mbps	30 fps	30 fps	30 fps	30 fps	•			6	32 CH / 540 GB	4.4 TB	1 TB 7200 RPM HDD x 8
3 MP	2 Mbps						30 fps			H.265	32 CH / 693 GB	5.6 TB
4 MP	2.21 Mbps										H.265	22 CH / 747 GB
5 MP	2.41 Mbps			22 CH / 814 GB	9.8 TB	1 TB 7200 RPM HDD x						
8 MP	3.5 Mbps	20 fps		22 CH / 1190 GB	14.3 TB	12						

Note:

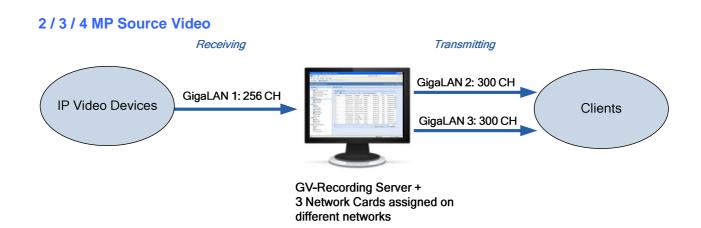
- 1. The number of hard drives required varies depending on the write speed of the hard drive and the hard disk size required varies depending on the recorded file size. The recommended hard disk requirement is just for your reference.
- 2. For system efficiency, we recommend the **enterprise-level** hard disk drives with **7200 RPM** at least and average R/W speed above **110 MB/s**. Avoid using desktop-level hard disks which may affect system efficiency.
- The hard disk requirements above are applicable to GV-DVR / NVR / VMS and GV-IP Devices only.

2.4 Recommended Network Requirements

The server's transmitting capacity varies depending on the number of Gigabit connections. The number of Gigabit network cards required to receive 256 channels and transmit 600 channels are listed below according to the resolution of the source video.

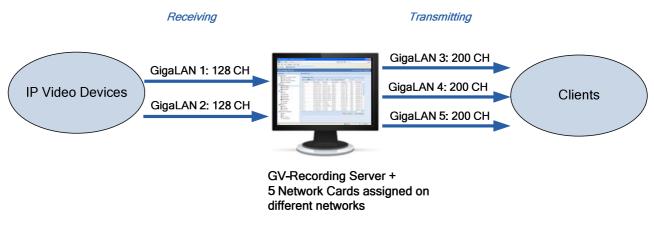
Resolution	Bitrate	FPS	Codec	Gigabit Networl	k Cards Required	
Resolution	Dillate	115	Couec	Receiving 256 CH	Transmitting 600 CH	
1.3 MP	0.83 Mbps				Gigabit network card x 1 (up to 600 CH per card)	
2 MP	1.6 Mbps		H.265		Gigabit network card x 1	
3 MP	2 Mbps	30 fps			•	(up to 256 CH per card)
4 MP	2.21 Mbps					
5 MP	2.41 Mbps			Gigabit network card x	Gigabit network card x 3	
8 MP	3.5 Mbps	20 fps		(up to 128 ch per card)	(up to 200 CH per card)	

The deployment of Gigabit connections for transmitting and receiving is suggested as illustrated below. Ensure to run every Gigabit connection on a different network in order to reduce the lag on any network connection.





5 / 8 MP Source Video



Note:

- 1. To avoid network bottleneck, each network card must be assigned a different IP address and subnet mask. Refer to *Appendix D. How to Avoid Network Bottleneck* in *GV-Recording Server User's Manual* for details.
- 2. The network requirements above are applicable to GV-DVR / NVR / VMS and GV-IP Devices only.

3. Installation

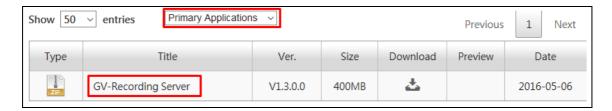
3.1 Installing GV-Recording Server

- 1. Insert GV-USB Dongle to a dedicated computer or server and install the driver and the GV-Recording Server from <u>GeoVision website</u>.
- 2. To install USB driver, select Driver, F/W, Patch from the drop-down list and click the

Download icon di GV-Series Card Driver / GV-USB Devices Driver.

3. To install GV-Recording Server, select **Primary Applications** from the drop-down

list and click the **Download** icon discrete of **GV-Recording Server / GV-Video** Gateway.



 To download and install .Net Framework 3.5, go to: <u>http://www.microsoft.com/en-us/download/details.aspx?id=21</u>.

3.2 Starting GV-Recording Server

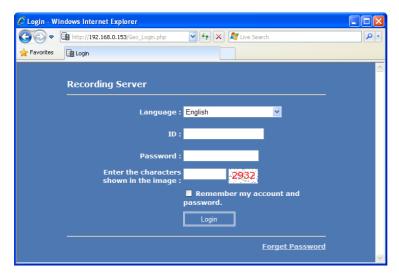
After installing GV-Recording Server, you are prompted to define an ID and password, with the password requiring to be at least 8 characters long and containing at least 3 of the following types of characters: uppercase letters, lowercase letters, numbers and special characters.



1. Right-click the GV-Recording Server icon and select **Start Service**.

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 After the GV-Recording Server icon turns green, right-click the icon again and select Access Web Interface. The Web interface login page appears.



- 3. Type the same **ID** and **Password** used for login.
- 4. Type the verification number shown in the image.
- 5. Click **Login**. The GV-Recording Server Web interface is now displayed.

For more details, see 2.2 Starting GV-Recording Server in the <u>GV-Recording Server User's</u> <u>Manual</u>.

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-Recording Server is installed behind a firewall or router, you may need to open these default ports: HTTP port 80, server connection port (Active connection port) 11000 and Passive connection port 50000, remote playback (Remote ViewLog) port 5552.

4. Connecting to IP Devices

When logging in the GV-Recording Server for the first time, the Install Wizard will prompt you to add IP video devices, assign storage path to store recorded files and start connections to IP devices.

Note: To start the Install Wizard manually, click **Install Wizard** under the Server section in the left menu.

4.1 Adding IP Video Devices

1. When the Install Wizard is launched, the GV-Recording Server automatically detects available IP video devices under the LAN. This dialog box appears.

Network Inter	ace Card:	Real	tealtek PCIe GBE Family Controller(192.168.0.148)							
User Name:			in							
Password:		••••	•	Apply						
Host Name	Device	e Name	IP Address	User Name	Password	Mac Address	-			
GV-CB220	GV-CI	B220	192.168.0.197	admin	*****	0013E2025503				
GV-PT110D	GeoV	ision_GV	192.168.1.68	admin	*****	0013E20263D5				
GV-FE420/F	E421 GV-FE	420/FE421	192.168.0.128	admin	*****	0013E2027239	ľ			
GV-FE420/F	E421 GV-FE	420/FE421	192.168.0.68	admin	*****	0013E202723A				
GV-VD3200	GV-V	D320/1/2/3D	192.168.0.21	admin	*****	0013E202C9F6				
GV-FE110/F	E111 GeoV	ision_GV	192.168.0.182	admin	*****	0013E2033242				
GV-VS11	GeoV	ision_GV	192.168.0.102	admin	*****	0013E204FA00				
GV-CBW22	GV-C	BW220	192.168.0.18	admin	*****	0013E204FF1A				
GV-CBW12	GV-CI	BW120	192.168.0.124	admin	*****	0013E204FF32				
GV-BX2400	-remot GV-B	X2400	192.168.0.112	admin	*****	0013E2055079				
GV-CB220	GV-C	B220	192.168.5.189	admin	*****	0013E205850C				
•			m			F.				

- 2. If you have multiple network interface cards, use the drop-down list to select one and click **Search**.
- 3. Select the IP video devices you want to establish active connection with.
- 4. Click **Add** and map the device to a channel. The Working Camera List appears.

Working Camer	a List						
🕂 Add 🔻 🗃 IP	Device List 🔍 Search	🖉 Edit 👻 🞇 Dele	ete 💿 Move	(i) Information	Reference Assign Networkcard	Channel 🔷 💉	Select
Channel	Display Name	IP Address	Port	Brand	Device Name		
1	GV-FER5700	192.168.3.73	10000	Geo√ision	GeoVision_GV-FER5700		
2	GV-FER5700	192.168.0.87	10000	GeoVision	GeoVision_GV-FER5700		1
3	GV-FD5700	192.168.6.88	10000	GeoVision	GeoVision_GV-FD5700		
4	GV-MFD4700	192.168.5.221	10000	GeoVision	GeoVision_GV-MFD4700		
5	GV-BL2511	192.168.5.164	10000	GeoVision	GeoVision_GV-BL2510_Series		
6	GV-FE2301	192.168.7.62	10000	GeoVision	GeoVision_GV-FE2301		
7							
8							
9							`

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- 5. The GV-Recording Server will try to connect to the devices using admin as the default ID and password. To connect with other ID and password, select the camera, click the Edit button *Cedit* and select Host Setting. In the dialog box, select Change ID and Password, type the ID and password of the camera and click OK.
- 6. Click Save and click Next Page.

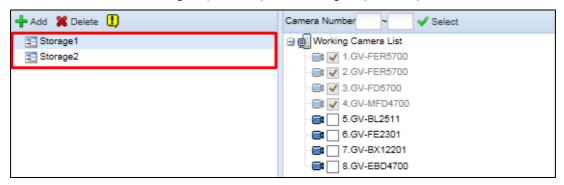
Note: IP cameras that are yet to have passwords set can only be added manually, see *To* add cameras by manually typing the camera's information, *5.2.1 Install Camera* in *<u>GV-Recording Server User's Manual</u>.*

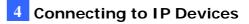
4.2 Assigning Storage Paths

- 1. In the Storage Path page, click **Auto** or **Manual** when a message appears asking you to select the storage dispatch mode. If you click **Manual**, skip to step 4.
- 2. Select at least one storage path to store camera recordings and click **OK**. In this case, Local Disk (D:\) and (E:\) are selected to be the storage locations.

Auto Dispatch Camera X						
Plea	ise select storage pa	ith				
	Storage Path	Disk Space	Free Space	User Name	Pass	
	℃:\	47.03GB	16.06GB			
☑	∽ D:\	465.76GB	366.65GB			
☑	œ _{E:\}	11.57GB	2.35GB			
	œ _{F:\}	61.15GB	6.06GB			
	[.] €G:\	29.30GB	5.06GB			
		!! A	Access network disk r	need username and	password	
				ок с	ancel	

3. Click either storage folder to see the cameras in the Working Camera List being equally distributed between Storage1 (Disk D:\) and Storage2 (Disk E:\).





4. To add a new storage folder in a different disk drive, clicks the **Add** button ***** Add or select an existing storage folder.

Storage1 Image: Contrast of the second s	🕂 Add 🕱 Delete 🎚	Camera Number ~ Select
- □ ✓ 2.GV-FER5700 - □ ✓ 3.GV-FD5700 - □ ✓ 4.GV-MFD4700 - □ □ 5.GV-BL2511 - □ □ 6.GV-FE2301 - □ □ 7.GV-BX12201	Storage1	🖃 💼 Working Camera List
🖬 🔄 8.GV-EBD4700	∃ Storage2	

5. Use the default storage path, or click the **Add** button to select a new storage path.

🕂 Add 🛛 🞇 Delete	e 🛄		Camera Number ~ Select
Storage1			🖃 💼 Working Camera List
Storage2			
			- 📾 🔄 8.GV-EBD4700
🕂 Add 🗱 Delete	e		
Storage Path	Disk Space	Free Space	
D:\ERS\bksvr	465.76GB	350.83GB	

- 6. In the Working Camera List section, select the cameras you wish to assign to the current storage path or type a range of camera number and click the **Select** button. Videos of the cameras selected will be recorded to the storage path indicated.
- 7. To specify a recycle threshold, select **Yes** next to **Recycle** and type a minimum free space. When the remaining free space falls below that threshold, the oldest files will be overwritten.

Setup	
Recycle:	Yes
	💿 No
	32 GB 🗸 🛄
32GB):	

- 8. If you want to automatically re-assign the cameras, click the **Auto Dispatch**
- 9. Click **Save** and click **Next Page** at the lower-right corner of the page.

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Note:

- When a camera begins recording, the shortcut path of the respective camera will be created, linking to the storage path of its recorded videos. By default, the shortcut folders are located at C:\Programs Files (x86)\RecordingServer\shortcuts.
- 2. For the suggested maximum number of channels in a hard disk, see *Recommended Hard Disk Requirements* in the Quick Start Guide.
- 3. You can select a network drive as storage path, e.g. the drive from an iSCSI or a NAS system.

4.3 Starting Service

- 1. In the Service page, to be able to receive and record IP channels, select **Start** for Recording Server.
- 2. To enable the video gateway to transmit video to clients, select **Start** for Video Gateway.



3. Click **Save** and click **Done**. The Camera Connection Information page appears and shows the connection status of the camera added.

Preview	Multi Windows								
Channel 🔺	Display Name	IP Address	Status	Write Speed	Start Time	Elapsed Time	Record Policy	Firmware Version	GV POE Switch
001	Joe-IPCAM1.3M	<u>192.168.1.116</u>	\varTheta Recording 🔍	251.9Kbps	2015/08/31 16:0	00:02:28	Round the Clock	v2.03 2015-05-09	0013E2FC2691
002	GV-VS2410(Ca	192.168.6.48	Connect Failed				Round the Clock		
003	GV-BX520D/BX	192.168.7.84	Disconnect				Round the Clock		
004	GV-BX12201	192.168.1.106	Login failed				Round the Clock		
005	GV-BX120D/BX	192.168.4.33	🥥 Recording 🔍	806.0Kbps	2015/08/28 13:5	00:01:40	Round the Clock	v3.03 2015-06-24	
007	GV-BX5300	192,168.6.49	O Connecting				Round the Clock		

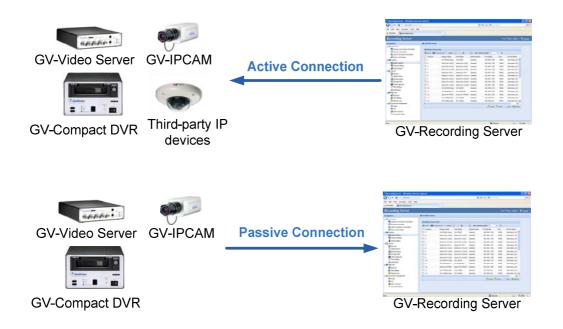
After adding camera, refer to *5.2.2 Camera Setting* in the *GV-Recording Server User Manual* to see how to customize camera settings such as setting video attributes, recording policy and recording schedule.



Note: The GV-Recording Server is compatible with the following third-party IP device brands: **Arecont Vision**, **AXIS**, **HikVision**, **Panasonic**, **Sony**, **VIVOTEK** and protocols: **ONVIF**, **PSIA**, **RTSP**. To see how to add IP devices using protocols, refer to *5.2.1 Install Camera* in <u>*GV-Recording Server User's Manual*</u>.

5. Active and Passive Mode

There are two ways to establish connection with IP video devices, **active connection** where GV-Recording Server initiates the connection and **passive connection** where the GV-IP video device initiates the connection. IP devices added with the Install Wizard introduced in section 3 is using active connection.



Note:

- 1. Passive connection only for up to 128 channels and is only supported by GV-IP devices.
- Passive connection is not currently supported for GV-IP devices to GV-Failover / Redundant Server.
- 3. Two-way audio communication is only supported for GV-IP devices through active connection.

5.1 Passive Connection

To create passive connection, the GV-Recording Server must be configured to allow connections from GV-IP devices.

To allow passive connection on GV-Recording Server:

1. In the left menu, select General Setup.

 Select Allow Geo IP Device Login. The default ID and Password to log onto the GV-Recording Server is admin, and the default port value is 50000. If you change the ID and Password, they must be matched on the Web interface of the GV-IP device.

General Setup	
General Setup	
Server Name:	DESKTOP-S54MD6K
Command Port:	20000
Auto Start Recording:	• Yes O No
Camera Setting	
Text Overlay Setting:	Use Server Side Setting
Skip Setting of IP Camera:	🔿 Yes 💿 No !
Standard codec:	Ves No
Sync time with PC:	No
System Log	
Keep Days(0: unlimited):	30
Recycle:	💿 Yes 🔵 No 📃
Backup Settings:	✓ Enable
	Backup Path: d:\ERS\SystemLog Browse
	Time Setting: 1:00 v
Time to Send System Report by email:	SUN Y
Allow Geo IP Device Login]
Username:	admin
Password:	••••
Connection Port:	50000

4. Click Save.

To access GV-Recording Server on GV-IP devices:

The GV-IP device must also be configured to access the GV-Recording Server.

 Access the Video Gateway / Recording Server setting page on the Web interface of the GV-IP device.

Geovision GV-BX110D Web-Manager - Windows	Internet Explorer	
😋 🔵 = 👩 http://192.168.0.33/LoginPC.cgi		
☆ Favorites ☆ Suggested Sites ▼ We Ø Geovision GV-BX110D Web-Manager	tb Slice Gallery ▼	
Geovision GV-BATTOD Web-Ivianager	Connection 1 Connection 2	
GeoUision		
Video and Motion	Video Gateway / Recording S	erver
 I/O Control Events and Alerts 	In this section you can configure the connection	n to Video Gateway and tasks to perform
Email	Video Gateway server / Recording Server	
• FTP		
Center V2	Activate Link	
VSM	Host name or IP Address:	192.168.0.67
Backup Center	Port number:	50000
Video Gateway/Recording Server	User Name:	admin
Viewlog	Password:	••••
RTSP/3GPP	Cease motion detection messages from	Select all Streaming 1 Streaming 2
Monitoring	Cease input trigger message from	🖾 Select all 🛄 Input 1
Recording Schedule	Enable schedule mode	
Remote Viewlog		18-00°
Network	Apply	
Management		
Logout		



- 2. Select Activate Link.
- 3. Type the IP address or domain name of the GV-Recording Server.
- 4. Keep the default port number as *50000* or modify the port number to match the connection port specified in General Setup page on the GV-Recording Server.
- 5. Type the **User Name** and **Password** to log onto the GV-Recording Server. The default values for both login username and password are **admin**.
- 6. Click **Apply** to connect. When the connection is established, the following message will be displayed at the bottom of the Web interface.

Connection Status
Status: Connected. Connected Time: Wed Jan 19 15:52:38 2011

To start passive connection on GV-Recording Server:

1. On the GV-Recording Server, select **Install Camera** in the left menu. This dialog box appears.

T Add •	🗃 IP Device List 🔍 Search 🖉	Edit 👻 💥 Delete 🌘	🕑 🛛 Max C	amera Number 1	28 💉 🛈	
Chan	nel Display Name	IP Address	Port	Brand	Device Name	
1	GeoVision_GV-MFD120_Series	192.168.0.29	10000	GeoVision	GeoVision_GV-MFD120_Series	
2	DVR-IPSpeedDome	192.168.2.200	10000	GeoVision	GeoVision_GV-SD010	1
3	DVR-FE420/FE421	192.168.2.245	10000	GeoVision	GeoVision_GV-FE420/FE4301_Series	
4	GV-BX520D/BX520D-E	192.168.2.142	10000	GeoVision	GeoVision_GV-BX520D/BX5300_Ser	
5	DVR-PTZ010D	192.168.3.166	10000	GeoVision	GeoVision_GV-PTZ010D	
6	GV-BX320D/BX320D-E	192.168.1.251	10000	GeoVision	GeoVision_GV-BX320D/BX3300_Ser	
7						
8						
9						
10						
11						
12						
13						
14						

- 2. Click the **IP Device List** button on the Working Camera List. The passive connection is listed in the **Host List**.
- 3. Click Add and select a channel. The IP device will be added to the Working Camera List.
- 4. Click Save.
- 5. In the left menu, click **Service** and select **Start** to enable the Recording Server and Video Gateway services.
- 6. Click **Save** to start services.

6. Distributing to Clients

The GV-Recording Server can simultaneously transmit up to 600 channels to clients. User accounts can be created for clients to access GV-Recording Server through Web interface. In addition, GV-DVR / NVR, GV-Multi View, GV-VMS, and GV-Control Center can be configured to receive streaming from GV-Recording Server.

6.1 Web Interface through User Account

You can create up to 1000 User and Supervisor accounts to access GV-Recording Server. The Supervisor accounts have full access to GV-Recording Server, and you can set up different level of access rights for the User accounts.

1. In the left menu, click User Account. This dialog box appears.

Add Delete Change Password E-Mail User Name A Hint E-Mail I Level: Supervisor admin I Level: User guest01 guest	User Accoun	t		
∃ Level: Supervisor admin ∃ Level: User	🕂 Add 😫 🛛	velete 🥛 Change	Password 🚾 E-Mail 🖉 Privilege	
admin 3 Level: User	User Name 🔺	Hint	E-Mail	
3 Level: User	3 Level: Supe	ervisor		
	admin			
guest01 guest	∃ Level: User	r		
	guest01	guest		

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

Add New Account		×
User Name(Max Length:32):	FAE	
Password(Max Length:32):	•••	
Hint(Max Length:32):	GV	
Level:	User 💌	·
E-Mail:	fae@geovision.com.tw	
1	OK Cance	

- 3. Type the User Name, Password and a password Hint for the account.
- 4. Use the Level drop-down list to select Supervisor or User.
- 5. 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.



- 6. Click **OK** to return to the User Account List.
- 7. To set access rights, select a user account and click **Privilege** . The cameras listed in the IP Device List are displayed.

Privile	ge								
Info	rmation								
User Name: Level:			guest1						
			User						
E-Mai	il:								
Video Gateway - Max. Connection(s):			0		(0: unlimited)				
Limit Connection Time(Sec):		0		(0: unlimited)	(0: unlimited)				
IP De	evice List								
	Channel	Display Name	e	IP Address	Live View	Remote Playba	Event Que		
1		GV-FD220D/	FD	192.168.4.23	\checkmark		1		
2		GV-SD200		192.168.7.48	V		1		
3		GV-FD1200		192.168.6.130	\checkmark		V		
				192.168.0.135	V	V	V		

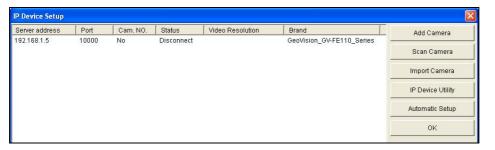
- 8. Select the checkboxes to allow the user to access the **Live View**, **Remote Playback** and **Event Query** of the camera.
- 9. Specify the maximum number of simultaneous logins, including via remote connections, allowed by the user account in **Video Gateway Max. Connection(s)**.
- 10. Specify the maximum time the user is allowed to access the GV-Recording Server, in seconds, per login in **Limit Connection Time**.
- 11. To access the Web interface in User Mode, type the user account's User Name and Password in the GV-Recording Server login page.

For details on User Mode, see Chapter 6 User Mode in GV-Recording Server User's Manual.

6.2 Connecting with GV-DVR / NVR

You need to configure the GV-DVR / NVR to access video streaming from the GV-Recording Server. You can download and install the GV-DVR / NVR from <u>GeoVision's</u> website.

 On the main screen of GV-DVR / NVR, click the Configure button, select System Configure, select Camera Install and select IP Camera Install. This dialog box appears.



2. Click the Add Camera button. This dialog box appears.

Select Brand	
Server IP :	192.168.0.153
HTTP Port :	80
User name :	admin
Password :	*****
Brand :	GeoVision 💌
Device :	Please select the brand of IP camera 💌
Message :	Close

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 Type the IP address or domain name of the GV-Recording Server. Keep default HTTP port as 80 or change to match the HTTP port configured in GV-Recording Server. Type the client's username and password. Select GV-Video Gateway / GV-Recording Server from the Device drop-down list. This dialog box appears.

GeoVision_GV-Vide	o Gateway/GV-Recordir	ig Server					×
Query Server							
Port	11000		Query	Cancel	Status :	Star	idby
Camera list							
Preview :			Record :				
GeoVision_GV-Vi	ideo Gateway(GeoVision	_GV-MFD120_Se 💌	GeoVision_GV-'	∨ideo Gateway(G	eoVision_GV-MFE)120_Se 💌	
				⊏ s	ingle Stream		Apply
							Close

- 4. Keep the default communication port of GV-Recording Server as 11000, or modify the value to match the TCP/IP port on the GV-Recording Server. Click the Query button to attempt connection to the GV-Recording Server. When the connection is established, the camera options will be displayed in the Preview and Record drop-down lists.
- 5. Select one camera to be connected. The selections in the Preview and Record drop-down lists will be the same.
- 6. Click **Apply**. The IP camera is added to the list.
- Click the listed camera, and select **Display Position** to map the IP camera to any channel on the GV-DVR / NVR. After the mapping is complete, the Status column will display "Connected".

192 168 0 153			NO. Status	Video Resolution	Brand	Add Camera		
192.168.0.153 192.168.0.153	11000 11000 11000	No No No	Display position Delete camera		GeoVision_GV-Video Gatew GeoVision_GV-Video Gatew GeoVision_GV-Video Gatew	Scan Camera		
192.168.0.153 192.168.1.5	11000 No Change setting 10000 No Remote camera setting Duplicate Camera Network Time Out Frames to keep in live view buffer F Recording codec format Automatically adjust DST F				IO Remote camera setting	5	GeoVision_GV-Video Gatew GeoVision_GV-FE110_Series	Import Camera
				IP Device Utility				
				Automatic Setup				

8. Click **OK** to exit all open dialog boxes. The IP camera from the GV-Recording Server is now displayed at specified channel.

For details on GV-DVR / NVR, see GV-DVR User's Manual from GeoVision's website.

6.3 Connecting with Multi View

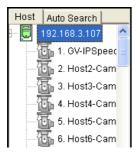
You can find the Multi View from <u>GeoVision's website</u>. Click **2. Install GeoVision Primary Applications** to access the installation program.

After installing the program, you need to log in the Multi View to access video streaming from the GV-Recording Server.

1. In the login dialog box, click the **Edit** button. This dialog box appears.

To Login	X				
Please key-	in username and password		Log	gin	
Host	127.0.0.1 🔽 Edit		Г		
Device	GV-DVR System			Device	🗊 Video Gateway/Record 💌
User Name	admin			IP Address	192.168.3.107
Password	Save Password			VSS Port	11000
	Forget Password				
	Change Password				
ОК	Cancel				
MultiView support 1	024x768 or higher resolution screen and version 5.4 or later.			ок	Cancel

- 2. Select Video Gateway / Recording Server from the Device drop-down list.
- 3. Type IP address or domain name of the GV-Recording Server.
- 4. Keep the default VSS Port as 11000 or modify it to match the TCP/IP port on the GV-Recording Server.
- 5. Click **OK** to return to the login page.
- 6. Type the client's username and password created on the GV-Recording Server.
- 7. Click OK to log in.
- 8. The GV-Recording Server will be listed under the Host list. Drag and drop its IP cameras to the desired channels on the Multi View.



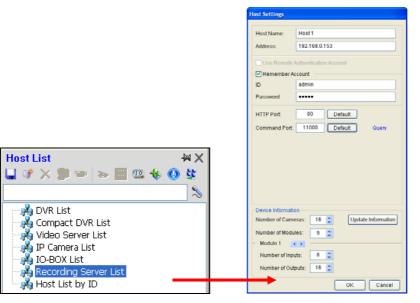


For details on the Multi View functions, see "Multi View Viewer", Chapter 8 Remote Viewing, *GV-DVR User's Manual* from <u>GeoVision's website</u>.

6.4 Connecting with the GV-Control Center

You need to configure the GV-Control Center to access video streaming from the GV-Recording Server. You can download and install GV-Control Center from <u>GeoVision's</u> <u>website</u>

1. On the Host List of GV-Control Center, right-click **Recording Server List** and select **Add Recording server**. The Host Settings dialog box appears.



- 2. Name the host of GV-Recording Server.
- 3. Type the IP address or domain name of the GV-Recording Server.
- 4. Type the client's username and password created on the GV-Recording Server.
- Keep the communication ports as default settings; otherwise modify them to match the HTTP (default value: 80) and TCP/IP (default value: 11000) ports on the GV-Recording Server.
- 10. Click the **Update Information** button to request the number of cameras from the GV-Recording Server. When the update is complete, the message "*Update system information successfully*" will appear.
- 11. Click **OK**. The host is created under the Recording Server List.

For details on GV-Control Center, see *GV-Control Center User's Manual* from <u>GeoVision's</u> <u>website</u>.

6.5 Connecting with Multicast

The Multicast view allows you to receive video and audio streams from a multicast group. You need to first enable the multicast function. See *5.3.5 Video Gateway* in <u>*GV-Recording Server*</u> <u>*User's Manual*</u> for details.

You can find the Multicast from <u>GeoVision's website</u>. Click **2. Install GeoVision Primary Applications** to access the installation program.



- The host(s) in the multicast group is displayed automatically. If not, click the Configure button, select General Setup, select Multicast and ensure the settings are correctly configured.
- 2. Expand the Host folder and drag the cameras to the screen for display. If the host has already set a password, you will be promoted to enter it.
- To receive audio broadcasting, first ensure a speaker is properly installed. Then click the Configure button, select General Setup, select Receive broadcast audio, and ensure the broadcast IP address and port number are correctly configured.
- 4. To save the current settings of screen division and camera display for future use, click the **Configure** button, select **Video List Setup**, and select **Export**.

For details on the Multi View functions, see "Multi View Viewer", Chapter 8 Remote Viewing, *GV-DVR User's Manual* from <u>GeoVision's website</u>.

GeoVision

6.6 Connecting with GV-VMS

To set up the cameras from the GV-Recording Server on the GV-VMS, follow these steps:

You can download and install GV-VMS from the GeoVision's website.

1. To access the IP Device Setup page, click **Home**, select **Toolbar**, click **Configure** and select **Camera Install**.

✓ ID	Status	Server address	Port	Video Resolution	Bitrate	Brand	Settings
✓ 1	•	192.168.0.75	10000	2560X1920(H264) / 320X240(H264)	2651 / 14 kbps	GeoVision_GV-BX520D/BX5300_Series	26
Camera	٠	192.168.0.93	11000	2560X1920(H264) / 320X240(H264)	2651 / 15 kbps	GeoVision_GV-Video Gateway(GV-BX5300	%
⊻ 3	•	192.168.0.93	11000	2560X1920(H264)	4239 kbps	GeoVision_GV-Video Gateway(GeoVision	*
	Camera	Camera	Image: 1 192.168.0.75 Camera 192.168.0.93	☑ 1 ● 192.168.0.75 10000 Camera ● 192.168.0.93 11000	Image: Camera 192.168.0.75 10000 2560X1920(H264) / 320X240(H264) Camera 192.168.0.93 11000 2560X1920(H264) / 320X240(H264)	I 192.168.0.75 10000 2560X1920(H264) / 320X240(H264) 2651 / 14 kbps Camera 192.168.0.93 11000 2560X1920(H264) / 320X240(H264) 2651 / 15 kbps	I 192.168.0.75 10000 2560X1920(H264) / 320X240(H264) 2651 / 14 kbps GeoVision_GV-BX520D/BX5300_Series Camera 192.168.0.93 11000 2560X1920(H264) / 320X240(H264) 2651 / 15 kbps GeoVision_GV-Wideo Gateway(GV-BX5300)

2. Click Add Camera ①. This dialog box appears.

Message : Querying video server		Close
Device	GeoVision_GV-Video Gateway/GV-Recordin	
Brand	GeoVision	
Password		
User name	: admin	
HTTP Port	: 80	
Server IP	: 192.168.1.100	-

 Type the IP address, username and password of the GV-Video Gateway / GV-Recording Server. Modify the default HTTP port 80 if necessary. Select GeoVision and model name from the Brand drop-down list and select the GV-Video Gateway / GV-Recording Server model from the Device drop-down lists. The following dialog appears.

Query Server					
Port	11000	G	luery Cancel	Status :	Standby
Camera list					
Preview :			Record :		
GeoVision_GV-V	/ideo Gateway(GV-BX5300)	0013e2ff02471_320X24(🗸	GeoVision_GV-Video Gatewa	ıy(GV-BX5300)0013e	2ff02471_2560X15 ·
			🔲 Sing	gle Stream	Apply
					Close

- Click the Query button to attempt connection to the GV-VideoGateway / GV-Recording Server. When the connection is established, the camera options will be displayed in the Preview and Record drop-down lists.
- 5. Select one camera to be connected. The selections in the Preview and Record drop-down lists will be the same.
- 6. Click Apply. The IP camera is added to the list.

For details on GV-VMS, see GV-VMS User's Manual from the GeoVision's website.

GeoVision:

6.7 Connecting with Remote ViewLog

The recordings of the GV-Recording Server can be played back remotely using the GV-Remote ViewLog V2, which can be downloaded and installed from the <u>GeoVision's</u> <u>website</u>.

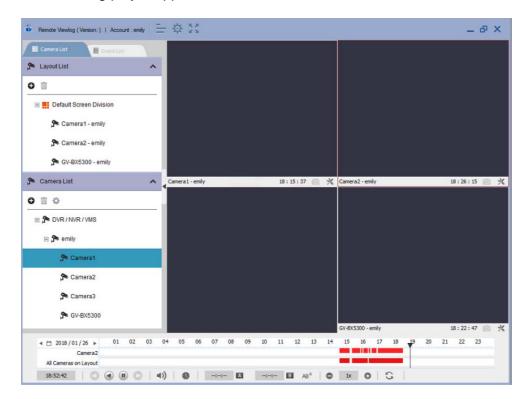
1. Once installed, launch GV-Remote ViewLog V2 and create a Remote ViewLog account.

Add Remote Viewlog Account
Account
Password
Password Confirmation
Hint
Save Password
OK Cancel

2. After creating an account, the Add New Host dialog box will appear.

Add New Host		Х				
Server Information						
Host Type	GV-Recording Server $~~ \lor$					
Name	admin					
IP Address	192.168.0.1					
Port	5552					
User Login Information						
Account	admin					
Password	•••••					
Dual Password						
Account						
Password						
	OK Cancel					

- 3. Select Recording Server under Host Type.
- 4. Type the **Name**, **IP Address**, **Account** and **Password** of the GV-Recording Server, Supervisor or Client. Only modify the default port **5552** if necessary.
- 5. Click **OK**. The GV-Recording Server is now connected.



6. The ViewLog player appears, with the events listed under the **Event List** tab on the left.

For details on GV-Remote ViewLog, see Chapter 4 Video Playback, *GV-VMS User's Manual* from the <u>GeoVision's website</u>.

6.8 Connecting with GV-Mobile Server

You need to configure the GV-Mobile Server to access video streaming from the GV-Recording Server. You can download and install GV-Mobile Server from <u>GeoVision's</u> website.

Note: The GV-Recording Server is only compatible with GV-Mobile Server of version 1.3 or later.



1. Select a camera from the left menu and click the Stream Source tab. This window appears.

🖳 GV-Mobile Server Professional		
□ □ □ MobileServer		Enable
🗐 🖃 Physical Cameras		
		General
		Camera Name Camera 5
		Stream Setting
		Stream Source Stream 1 Stream 2
		Brand GV-Recording Ser 👻
	Ξ	IP Address 127.0.0.1
		Command Port 11000
		User Name
- \varTheta [14] GV-DVR/NVR		Password
		1
		Source Camera
(19) GV-DVR/NVR		
[20] GV-DVR/NVR		📃 Connect to stream 2 🛛 📿
[21] GV-DVR/NVR		Only decode key frame when source is IP device.
[22] GV-DVR/NVR [23] GV-DVR/NVR		Only decode key frame when source is in device.
[23] GV-DVR/NVR		Decode all frames upon motion detection
[24] GV-DVR/NVR		
		📃 Enable fisheye dewarping 🛛 🕑
[26] GV-DVR/NVR		_
[27] GV-DVR/NVR		📃 Show camera name
[20] GV-DVR/NVR		
[23] GV-DVR/NVR		
[30] 0V-DVR/NVR		
[31] GV-DVR/NVR		
[32] GV-DVR/NVR		
[34] GV-DVR/NVR		
[35] GV-DVR/NVR		
		Apply Exit
	Ŧ	Abbia

- 2. Type a name to describe the camera in the **Camera Name** field (Max. 31 characters).
- 3. Select GV-Recording Server for Brand.
- 4. Type the **Command Port**, **IP Address**, **User Name** and **Password** of the GV-Recording Server. The default command port for GV-Recording Server is **11000**.
- 5. Type the camera number for live viewing in **Source Camera**. The default setting is 1.
- 6. Click **Apply**.

For details on GV-Mobile Server, see *GV-Mobile Server User's Manual* on <u>GeoVision's</u> <u>website</u>.