GeoVision inc

The Vision of Security

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.*

RSV210-QG-B

![GeoVision Inc. logo]

November 2022

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[Warranty]   [Technical Support Policy]

Contents

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 *GV-Recording Server User's Manual*.

Note: To upgrade GV-Recording Server, see the instructions in *Note for Upgrading GV-Recording Server*, *GV-Recording Server User Manual*.

1.1   Packing List

● GV-USB Dongle

1.2   Software License

GV-Recording Server (full functions available):

Free License	N/A
Max. License	256 channels
Increment for Each License	1. **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 2. **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 3. **Third-party** or **HD DVR** license for UA-IP devices: In increments of 1 ch
Optional Combinations	N/A
Dongle Type	Internal or External

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:

1. 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. The **HD DVR** license is only supported by GV-Recording Server V2.1.0 or later.
3. The **HD DVR** license is required for connecting UA-HD DVR (only **analog** channels supported).
4. The **third-party** license is required for connecting UA-IP cameras.

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-bit Windows 10 / 11 / Server 2008 R2 / Server 2012 R2 / Server 2019
CPU	Core i7 8700, 3.2 GHz
Memory	● GV-Video Gateway: 6 GB Dual Channels ● GV-Recording Server: 16 GB Dual Channels
Hard Disk — Installation	1 GB
Hard Disk — OS	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
Hardware	● GV-Video Gateway: Internal or External GV-USB Dongle ● GV-Recording Server: Internal or External 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.*

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

2.3 Compatible USA Vision Products

GV-Recording Server is compatible with the following USA Vision products:

- **UA-HD DVR:** UA-XVL810, UA-XVL1610, UA-XVR810, UA-XVR1620

- **UA-IP Camera**: UA-B580F3, UA-R500F2, UA-R560F2, UA-R580F2, UA-R800F2

Note:

1. The required licenses for connecting UA-HD DVR / UA-IP cameras are as follows:

    i. The **HD DVR** license is only supported by GV-Recording Server V2.1.0 or later.

    ii. The **HD DVR** license is required for connecting UA-HD DVR (only **analog** channels supported).

    iii. The **3rd party** license is required for connecting UA-IP cameras.

2. When local playback is enabled on UA-HD DVR, GV-Recording Server will automatically switch to Stream 2 for recording, and the event will be documented in the system log.

![GeoVision inc logo]

2.4 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)	Recommended HDD requirements
1.3 MP	0.83 Mbps	30 fps	H.265	32 CH / 280 GB	2.3 TB	1 TB 7200 RPM HDD x 8
2 MP	1.6 Mbps			32 CH / 540 GB	4.4 TB	
3 MP	2 Mbps			32 CH / 693 GB	5.6 TB	
4 MP	2.21 Mbps			22 CH / 747 GB	9 TB	1 TB 7200 RPM HDD x 12
5 MP	2.41 Mbps			22 CH / 814 GB	9.8 TB	
8 MP	3.5 Mbps	20 fps		22 CH / 1190 GB	14.3 TB	

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.

3. The hard disk requirements above are applicable to GV-DVR / NVR / VMS and GV-IP Devices only.

2.5 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 Network Cards Required	
				Receiving 256 CH	Transmitting 600 CH
1.3 MP	0.83 Mbps	30 fps	H.265	Gigabit network card x 1 (up to 256 CH per card)	Gigabit network card x 1 (up to 600 CH per card)
2 MP	1.6 Mbps				Gigabit network card x 2 (up to 300 CH per card)
3 MP	2 Mbps				
4 MP	2.21 Mbps				
5 MP	2.41 Mbps			Gigabit network card x 2 (up to 128 ch per card)	Gigabit network card x 3 (up to 200 CH per card)
8 MP	3.5 Mbps	20 fps			

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.

2 / 3 / 4 MP Source Video

Receiving   *Transmitting*

IP Video Devices — GigaLAN 1: 256 CH → [GV-Recording Server] — GigaLAN 2: 300 CH → Clients
— GigaLAN 3: 300 CH →

GV-Recording Server +
3 Network Cards assigned on
different networks

5 / 8 MP Source Video

Receiving   *Transmitting*

GigaLAN 1: 128 CH

GigaLAN 2: 128 CH

IP Video Devices

GigaLAN 3: 200 CH

GigaLAN 4: 200 CH

GigaLAN 5: 200 CH

Clients

GV-Recording Server +
5 Network Cards assigned on
different networks

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.

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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 GeoVision website.

2. To install USB driver, select **Driver, F/W, Patch** from the drop-down list and click the Download icon ⬇ of **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 ⬇ of **GV-Recording Server / GV-Video Gateway**.

Show 50 ∨ entries	Primary Applications ∨			Previous	1	Next
Type	Title	Ver.	Size	Download	Preview	Date
ZIP	GV-Recording Server	V1.3.0.0	400MB	⬇		2016-05-06

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

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.

Once set, the GV-Recording Server icon [🎥 ◀)) 🖥 2:01 AM 4/19/2011] appears in the system tray.

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

2. After the GV-Recording Server icon turns green, right-click the icon again and select **Access Web Interface**. The Web interface login page appears.
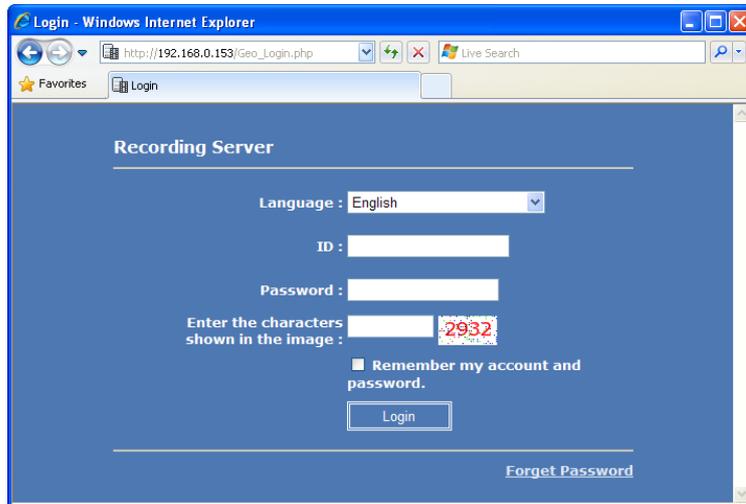
3. Type the same **ID** and **Password** used for login.

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 *GV-Recording Server User's Manual*.

Note:

1. 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.

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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.
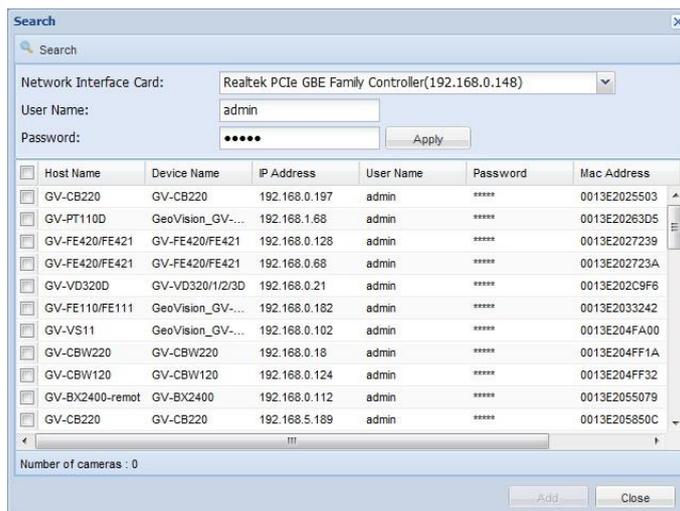
2. If you have multiple network interface cards, use the drop-down list to select one and click **Search**.
3. Select the IP video devices you want to establish active connection with.
4. Click **Add** and map the device to a channel. The Working Camera List appears.
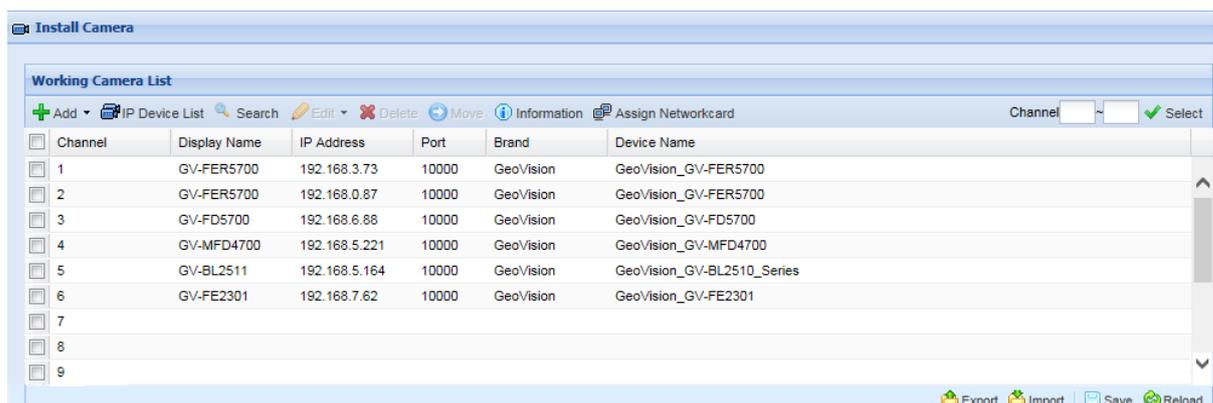
5. The GV-Recording Server will try to connect to the devices using **admin** as the default ID and password. To connect with other ID and password, select the camera, click the **Edit** button ✏ Edit and select **Host Setting**. In the dialog box, select **Change ID and Password**, type the ID and password 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 *GV-Recording Server User's Manual*.

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.

	Storage Path	Disk Space	Free Space	User Name	Pass...
☐	C:\	47.03GB	16.06GB		
☑	D:\	465.76GB	366.65GB		
☑	E:\	11.57GB	2.35GB		
☐	F:\	61.15GB	6.06GB		
☐	G:\	29.30GB	5.06GB		

Auto Dispatch Camera
Please select storage path

⚠ Access network disk need username and password

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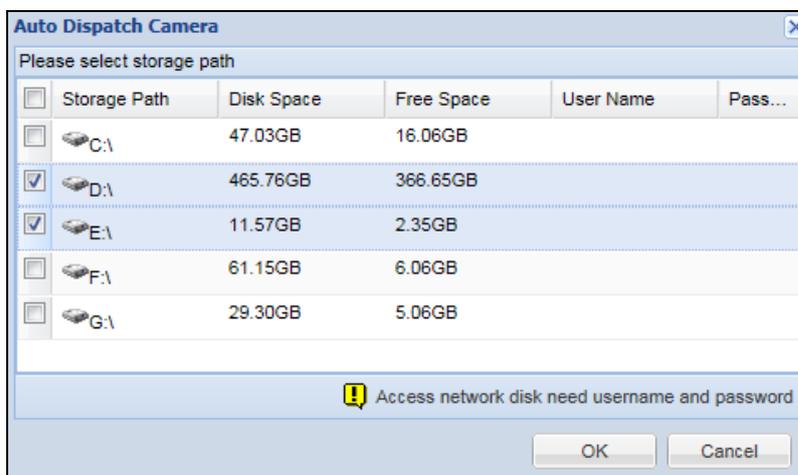
3. Click either storage folder to see the cameras in the Working Camera List being equally distributed between Storage1 (Disk D:\) and Storage2 (Disk E:\).

➕ Add ✖ Delete ⚠

Camera Number ___ ~ ___ ✔ Select

Storage1
Storage2

Working Camera List
  ☑ 1.GV-FER5700
  ☑ 2.GV-FER5700
  ☑ 3.GV-FD5700
  ☑ 4.GV-MFD4700
  ☐ 5.GV-BL2511
  ☐ 6.GV-FE2301
  ☐ 7.GV-BX12201
  ☐ 8.GV-EBD4700
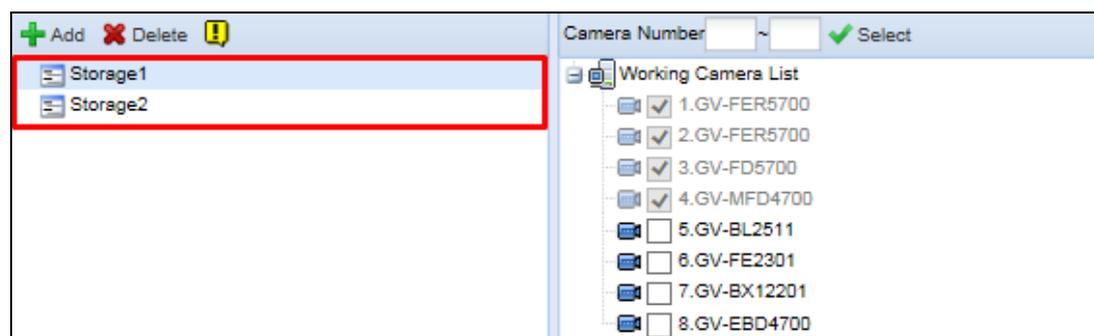
4. To add a new storage folder in a different disk drive, clicks the **Add** button ➕ Add   or select an existing storage folder.
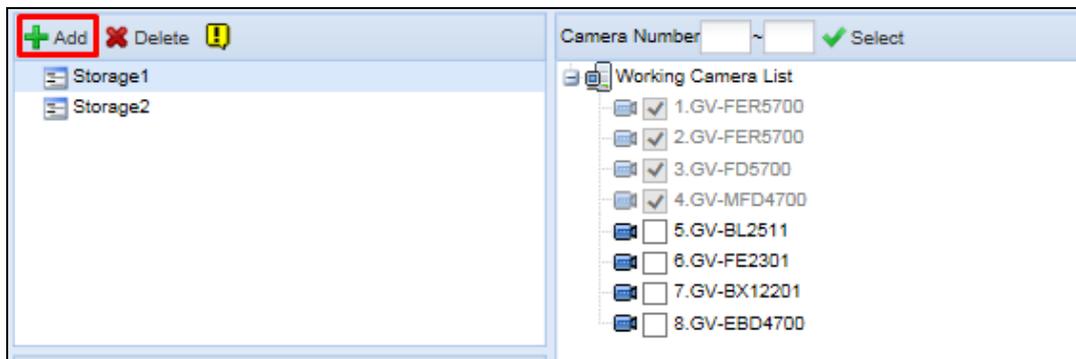
5. Use the default storage path, or click the **Add** button to select a new storage path.
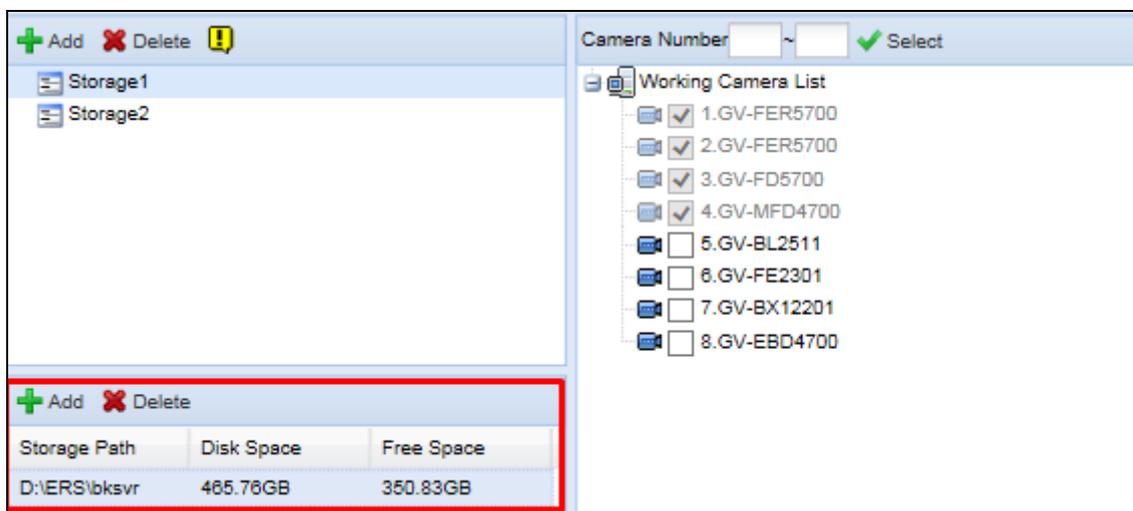
6. In the Working Camera List section, select the cameras you wish to assign to the current storage path or type a range of camera number and click the **Select** button. Videos of the cameras selected will be recorded to the storage path indicated.

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. The threshold will be dynamically adjusted according to the total storage size and a popup window will appear as a reminder.
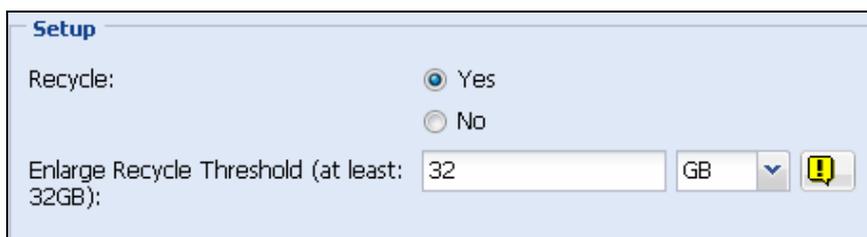
8. If you want to automatically re-assign the cameras, click the **Auto Dispatch**
     button.

9. Click **Save** and click **Next Page** at the lower-right corner of the page.

Note:

1. 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.
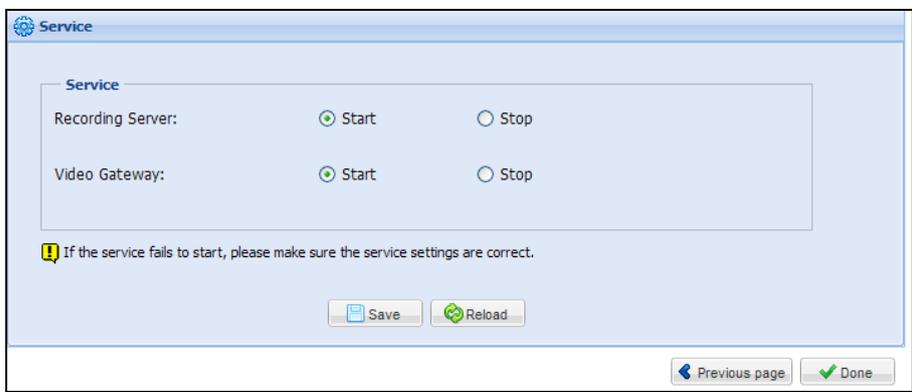
3. Click **Save** and click **Done**. The Camera Connection Information page appears and
    shows the connection status of the camera added.

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 *GV-Recording Server User's Manual*.

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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.

GV-Video Server   GV-IPCAM

Active Connection

GV-Compact DVR   Third-party IP devices

GV-Recording Server

GV-Video Server   GV-IPCAM

Passive Connection

GV-Compact DVR

GV-Recording Server
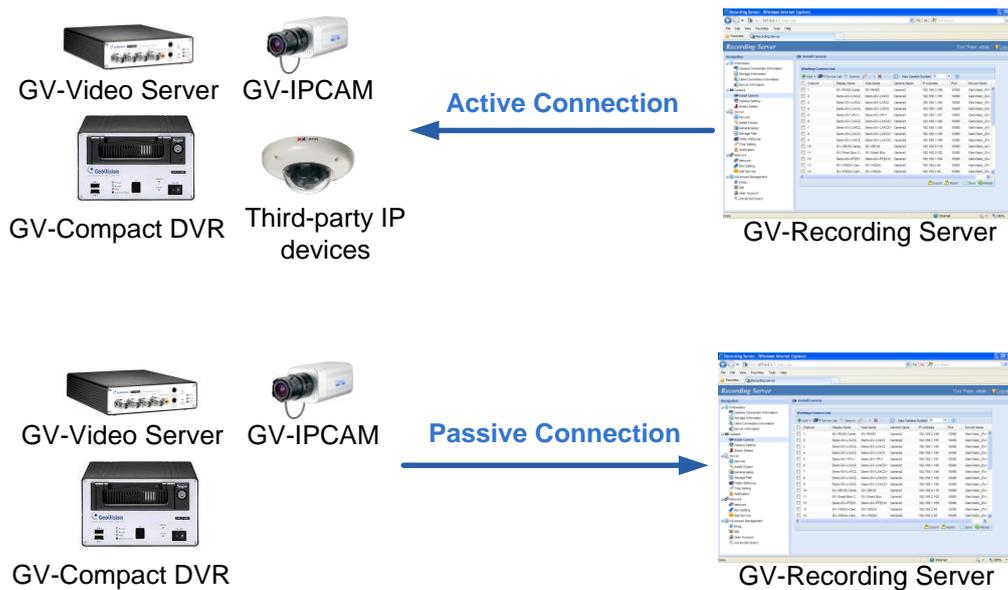
Note:

1. Passive connection only for up to 128 channels and is only supported by GV-IP devices.
2. 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**.

2.   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.

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.

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

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![GeoVision Inc. logo]

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
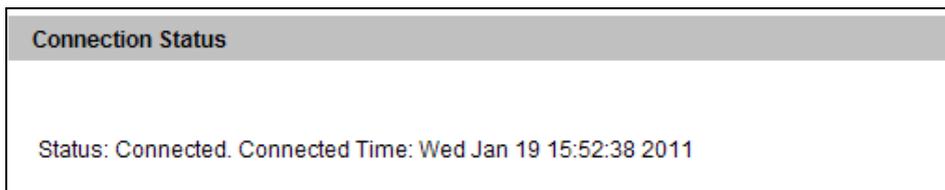
To start passive connection on GV-Recording Server:

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

Working Camera List						
✚ Add ▾ 🖳 IP Device List 🔍 Search ✏ Edit ▾ ✖ Delete ➲ | Max Camera Number 128 ▾ | ⓘ						
☐	Channel	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
☐	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					
☐	15					
					📤 Export 📥 Import | 📄 Save 🔄 Reload	

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.
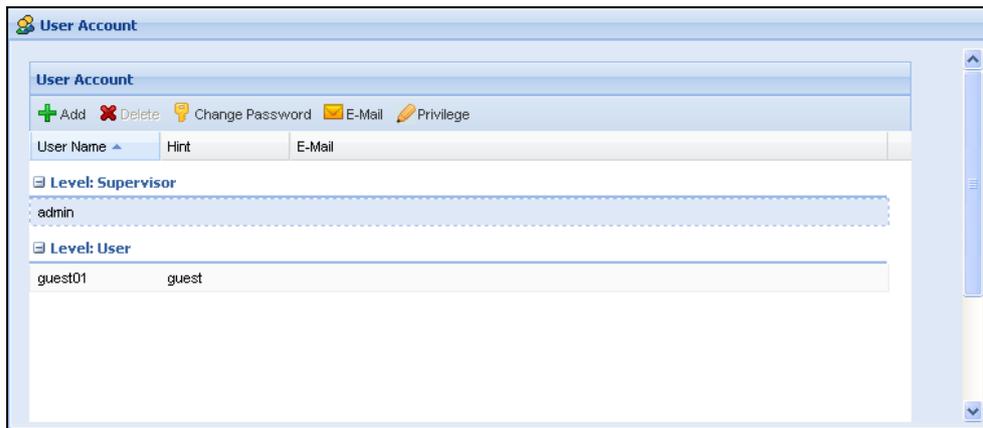
2. Click the **Add** button . This dialog box appears.
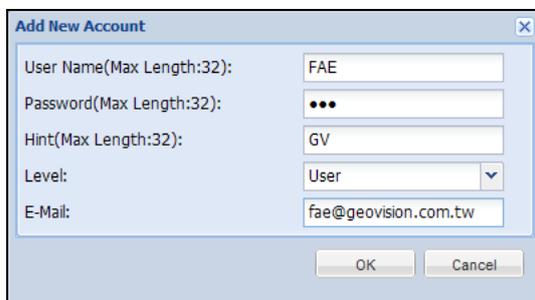
3. Type the **User Name, Password** and a password **Hint** for the account.

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** 🖉 Privilege . The cameras listed in the IP Device List are displayed.

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 GeoVision's website.

1. 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.
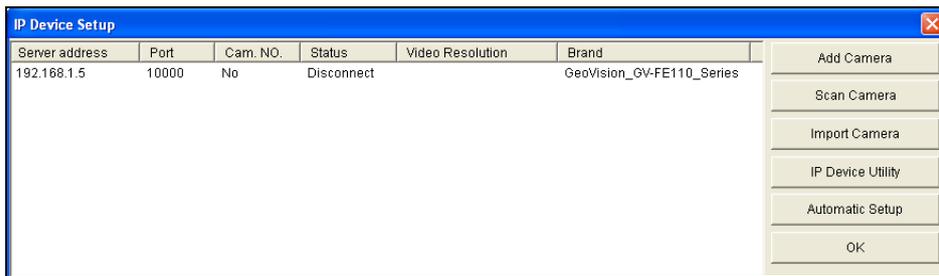
2. Click the **Add Camera** button. This dialog box appears.
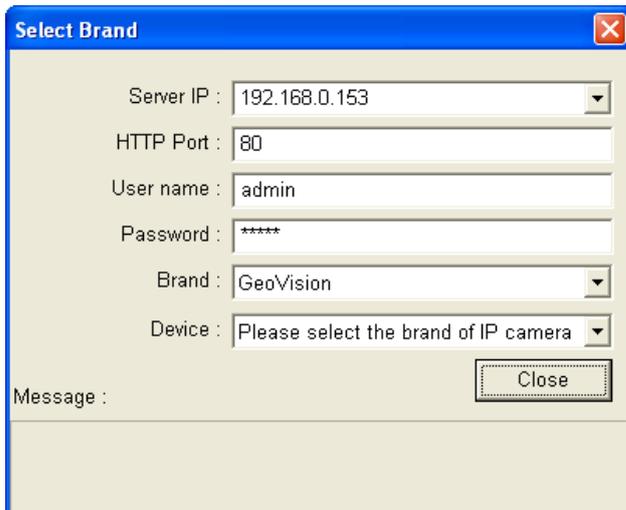
3. Type the IP address or domain name of the GV-Recording Server. Keep default HTTP port as 80 or change to match the HTTP port configured in GV-Recording Server. Type the client's username and password. Select **GV-Video Gateway / GV-Recording Server** from the **Device** drop-down list. This dialog box appears.

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.

7. 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".
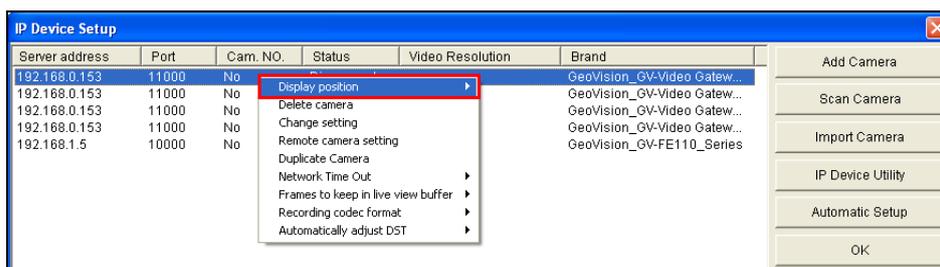
8. Click **OK** to exit all open dialog boxes. The IP camera from the GV-Recording Server is now displayed at specified channel.

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.
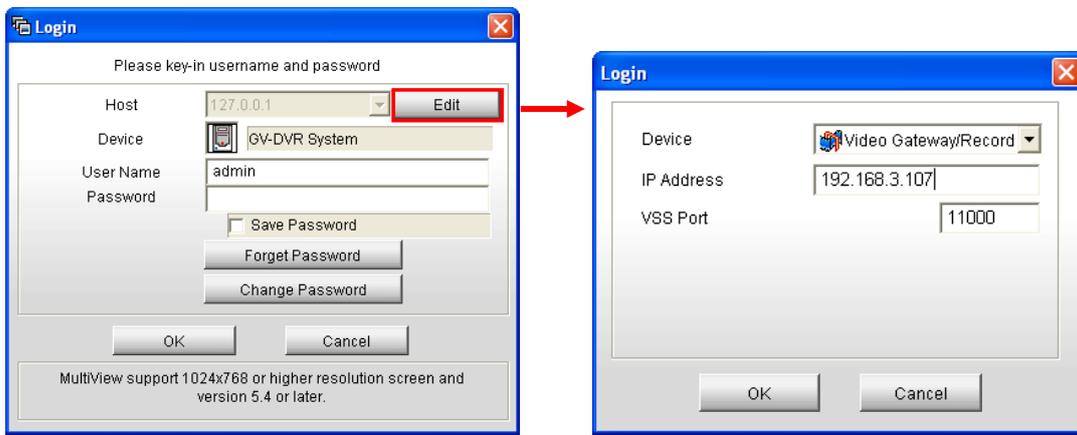
2. Select **Video Gateway / Recording Server** from the Device drop-down list.
3. Type IP address or domain name of the GV-Recording Server.

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.
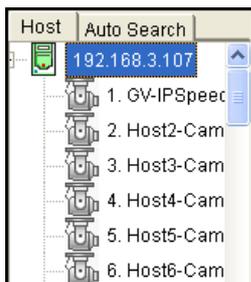
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![GeoVision logo]

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

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 GeoVision's website

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.
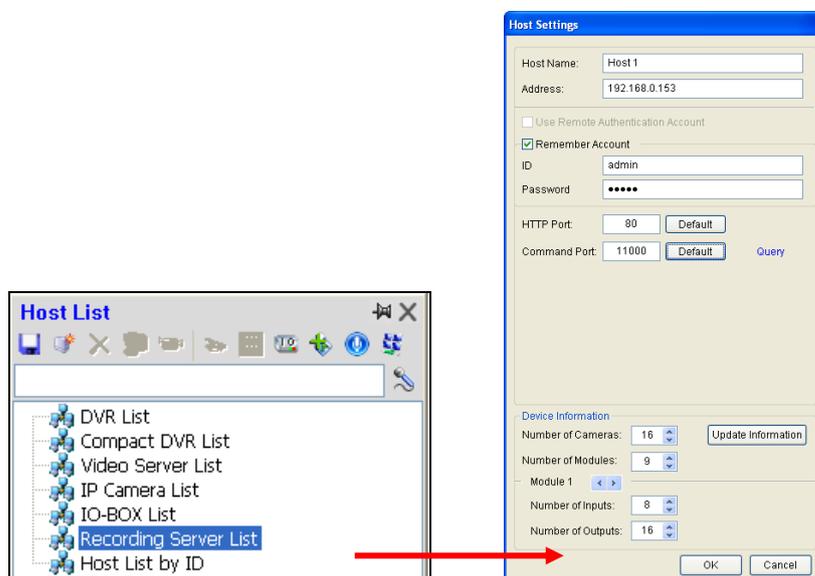
2. Name the host of GV-Recording Server.

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.

5. 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 GeoVision's website.

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 *GV-Recording Server User's Manual* for details.

You can find the Multicast from GeoVision's website. Click **2. Install GeoVision Primary Applications** to access the installation program.
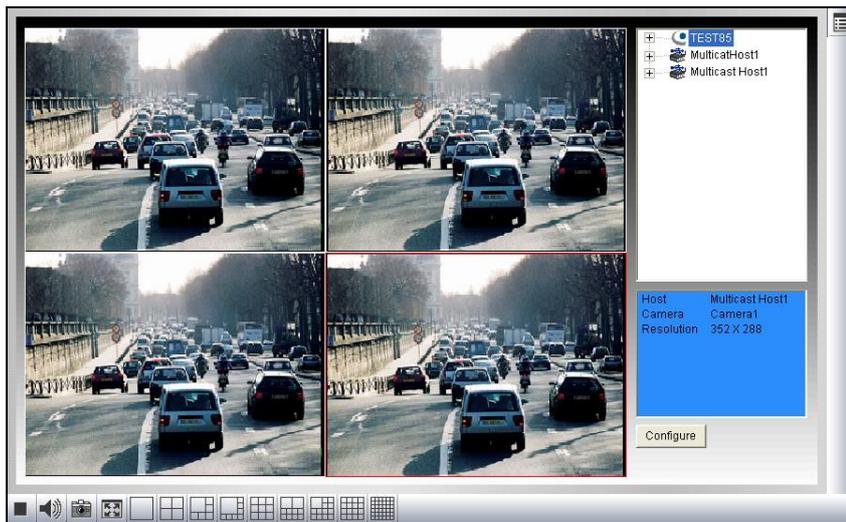
1.   The host(s) in the multicast group is displayed automatically. If not, click the **Configure** button, select **General Setup**, select **Multicast** and ensure the settings are correctly configured.

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.

3.   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 GeoVision's website.

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](link).

1. To access the IP Device Setup page, click **Home** 👁, select **Toolbar** 🛠, click **Configure** ⚙ and select **Camera Install**.
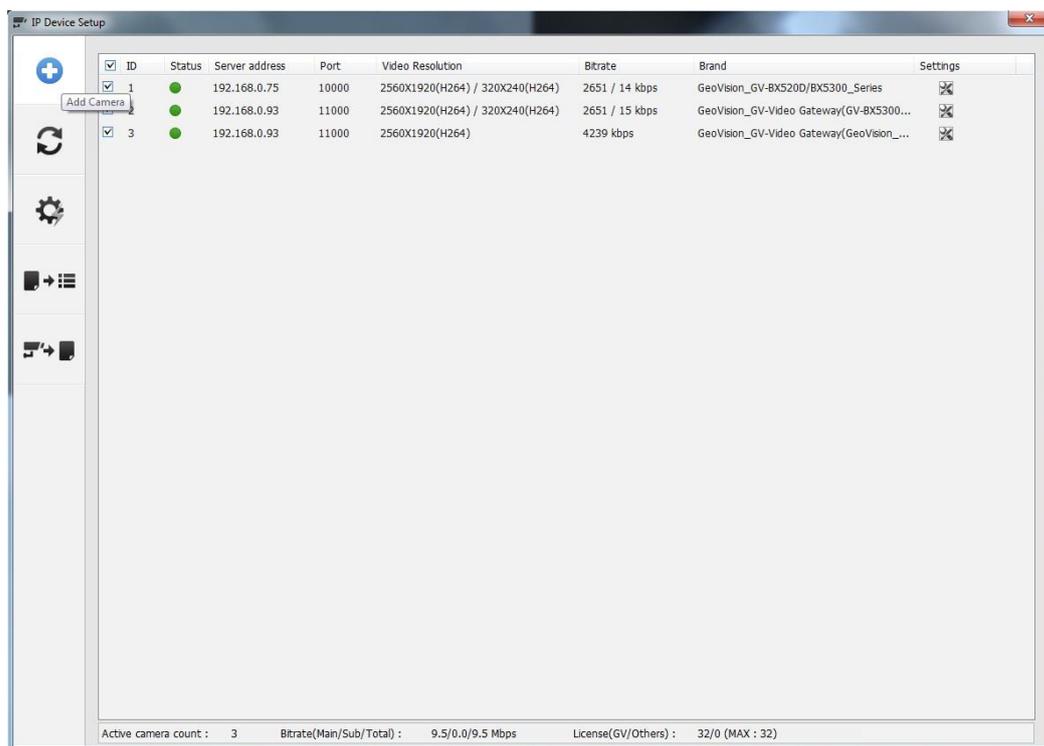
2. Click **Add Camera** . This dialog box appears.

3. 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.
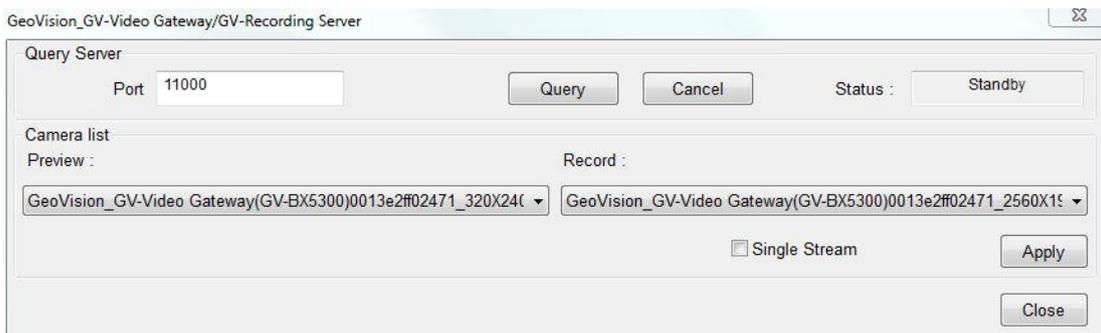
4. Click the **Query** button to attempt connection to the GV-VideoGateway / GV-Recording Server. When the connection is established, the camera options will be displayed in the Preview and Record drop-down lists.

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](#).

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 GeoVision's website.

1. Once installed, launch GV-Remote ViewLog V2 and create a Remote ViewLog account.
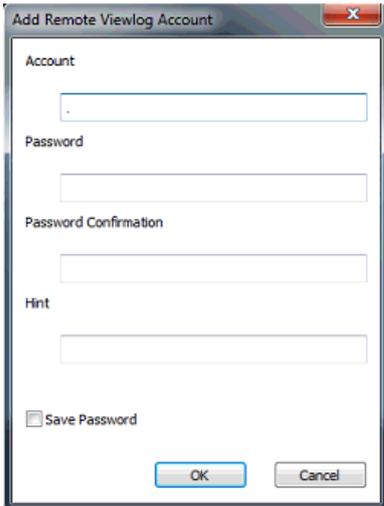
2. After creating an account, the Add New Host dialog box will appear.

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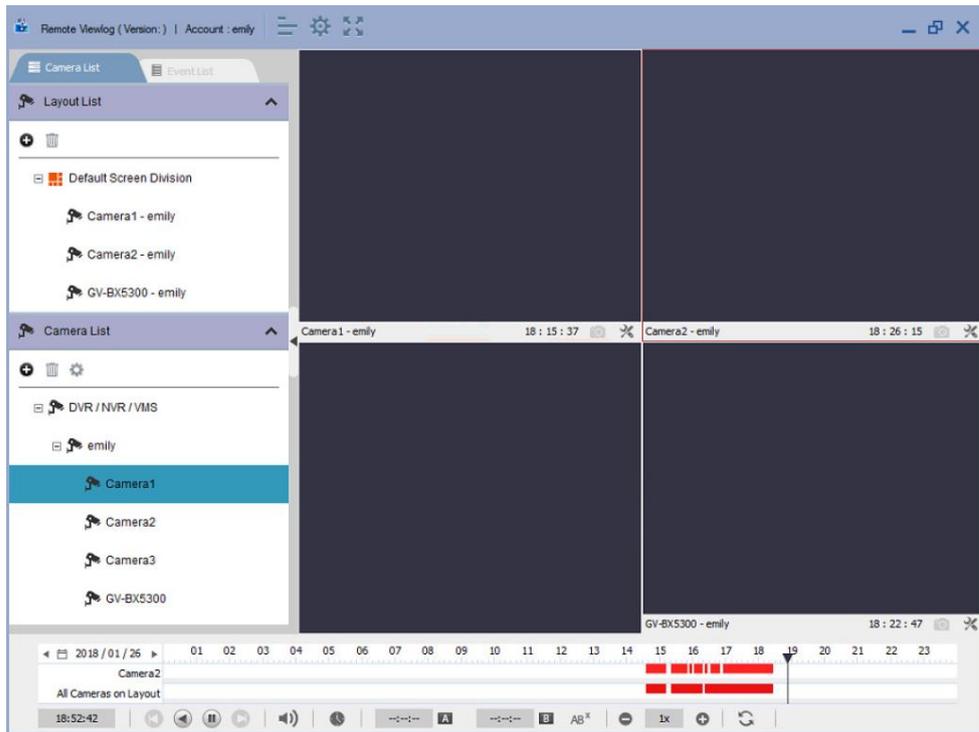
For details on GV-Remote ViewLog, see Chapter 4 Video Playback, *GV-VMS User's Manual* from the GeoVision's website.

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 GeoVision's website.

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

![GeoVision logo]

1. Select a camera from the left menu and click the Stream Source tab. This window appears.
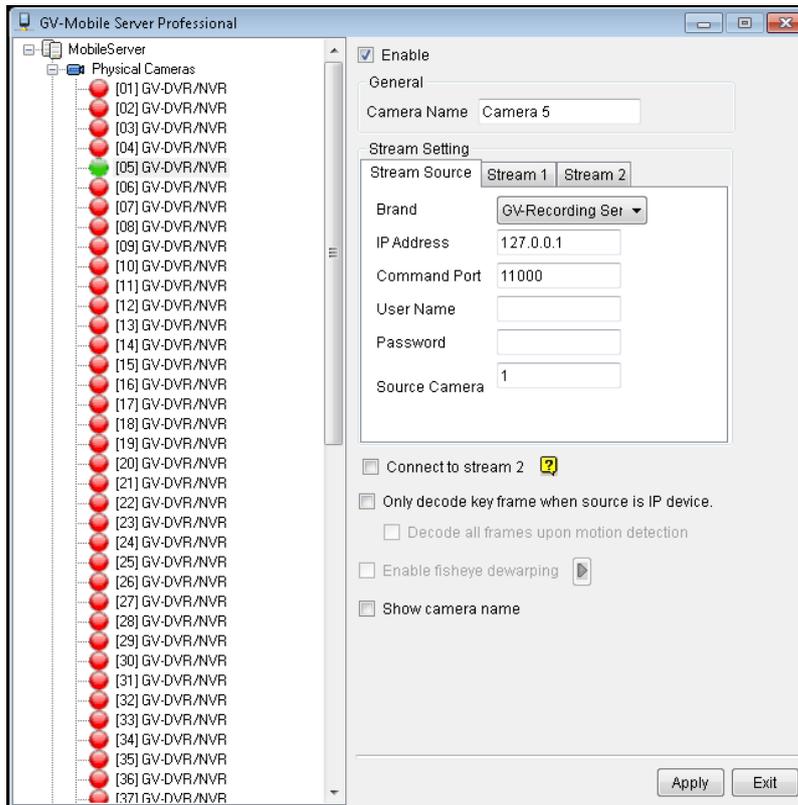
2. Type a name to describe the camera in the **Camera Name** field (Max. 31 characters).

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 GeoVision's website.