

# 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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[Warranty]



[Technical Support Policy]

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# 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](#).

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**Note:** To upgrade GV-Recording Server, see the instructions in *Note for Upgrading GV-Recording Server*, [GV-Recording Server User Manual](#).

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## 1.1 Packing List

- GV-USB Dongle

## 1.2 Software License

**GV-Recording Server (full functions available):**

<b>Free License</b>	N/A
<b>Max. License</b>	256 channels
<b>Increment for Each License</b>	<ol style="list-style-type: none"><li>1. <b>GV-IP video devices only:</b> 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</li><li>2. <b>Third-party IP devices (Includes GV-IP video devices):</b> 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</li><li>3. <b>Third-party or HD DVR license for UA-IP devices:</b> In increments of 1 ch</li></ol>
<b>Optional Combinations</b>	N/A
<b>Dongle Type</b>	Internal or External

**GV-Video Gateway Only (without recording functions):**

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

<b>OS</b>		64-bit Windows 10 / 11 / Server 2008 R2 / Server 2012 R2 / Server 2019
<b>CPU</b>		Core i7 8700, 3.2 GHz
<b>Memory</b>	<b>Up to 128 Channels</b>	<ul style="list-style-type: none"><li>• GV-Video Gateway: 8 GB Dual Channel</li><li>• GV-Recording Server: 16 GB Dual Channel</li></ul>
	<b>129 to 256 Channels</b>	<ul style="list-style-type: none"><li>• GV-Video Gateway: 16 GB Dual Channel</li><li>• GV-Recording Server: 32 GB Dual Channel</li></ul>
<b>Hard Disk</b>	<b>Installation</b>	1 GB
	<b>OS</b>	128 GB
<b>Browser</b>		<ul style="list-style-type: none"><li>• Internet Explorer 8 to 11</li><li>• Firefox 26.0</li><li>• Google Chrome 31.0.1650.63</li><li>• Safari 5.1.7</li></ul>
<b>LAN</b>		Gigabit Ethernet x 1~6
<b>Software</b>		.Net Framework 3.5
<b>Hardware</b>		<ul style="list-style-type: none"><li>• GV-Video Gateway: Internal or External GV-USB Dongle</li><li>• GV-Recording Server: Internal or External GV-USB Dongle</li></ul>

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#### 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)

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

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### 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

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#### 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 **3<sup>rd</sup> 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.
-

## 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.

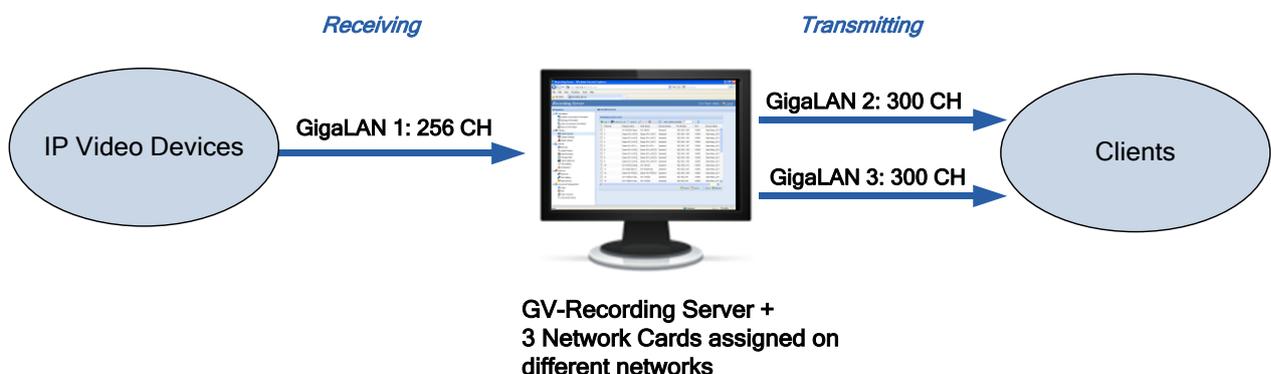
## 2.5 Recommended Network Requirements

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.

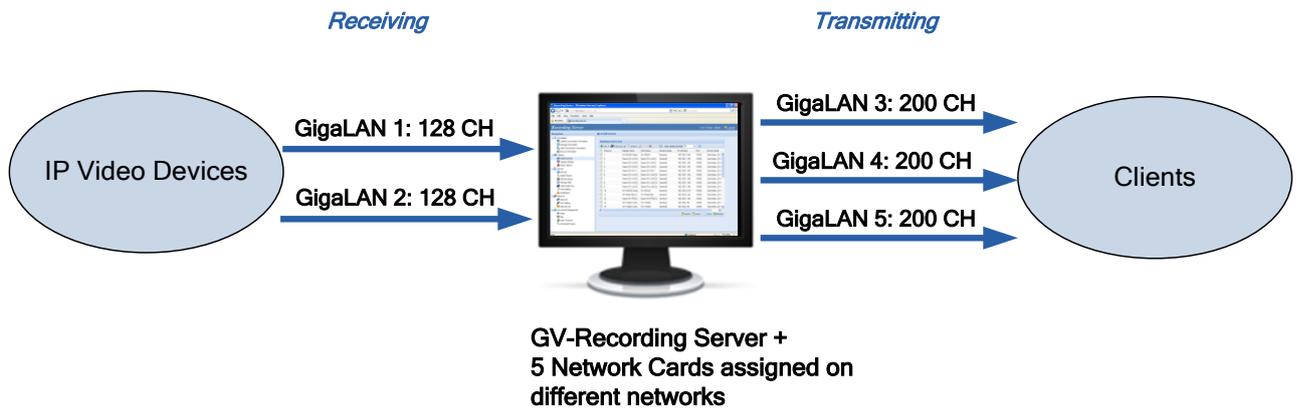
Resolution	Bitrate	FPS	Codec	Gigabit Network Cards Required	
				Receiving 256 CH	Transmitting 600 CH
1.3 MP	0.83 Mbps	30 fps	H.265	Gigabit network card x 1 (up to 256 CH per card)	Gigabit network card x 1 (up to 600 CH per card)
2 MP	1.6 Mbps				Gigabit network card x 2 (up to 300 CH per card)
3 MP	2 Mbps				
4 MP	2.21 Mbps				
5 MP	2.41 Mbps	20 fps		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				

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



## 5 / 8 MP Source Video



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### 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, FW, 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
	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>.

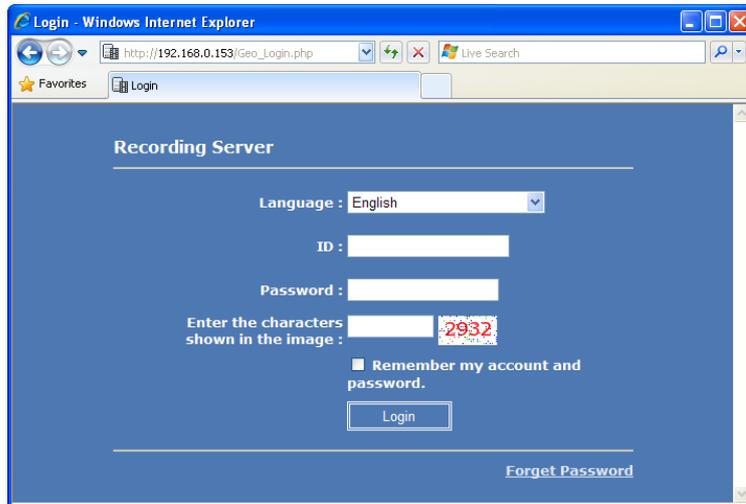
### 3.2 Starting GV-Recording Server

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  appears in the system tray. 2:01 AM  
4/19/2011

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](#).

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**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.
-

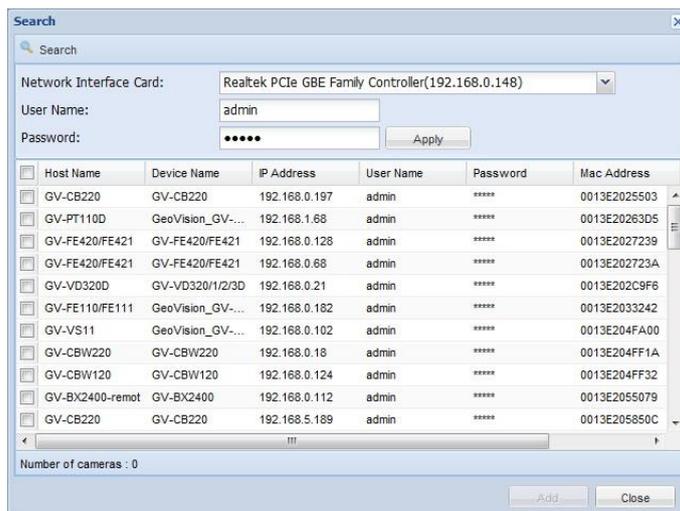
## 4. Connecting to IP Devices

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.

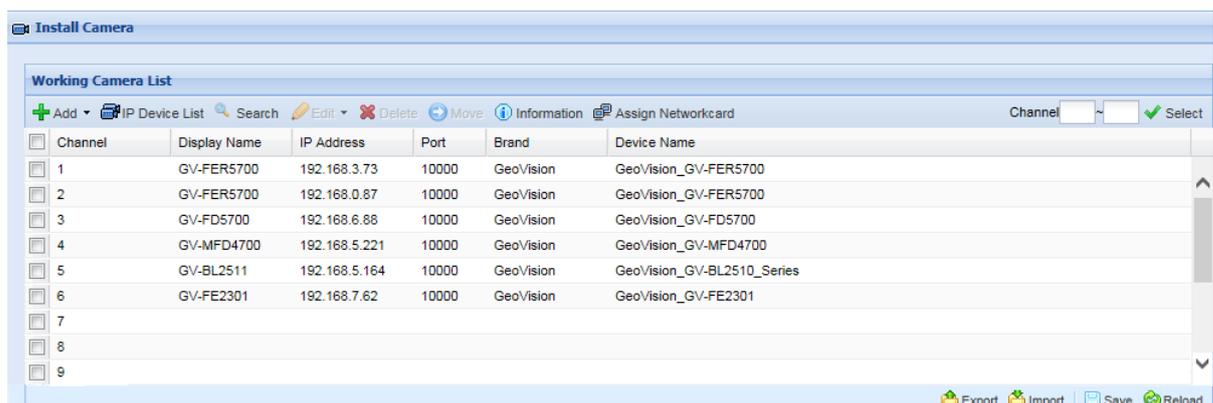
**Note:** To start the Install Wizard manually, click **Install Wizard** under the **Server** section in the left menu.

### 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.

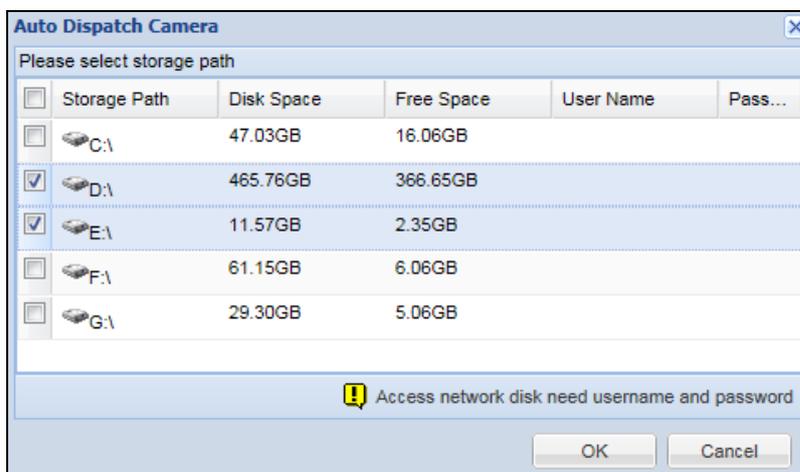


- The GV-Recording Server will try to connect to the devices using **admin** as the default ID and password. To connect with other ID and password, select the camera, click the **Edit** button  **Edit** and select **Host Setting**. In the dialog box, select **Change ID and Password**, type the ID and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

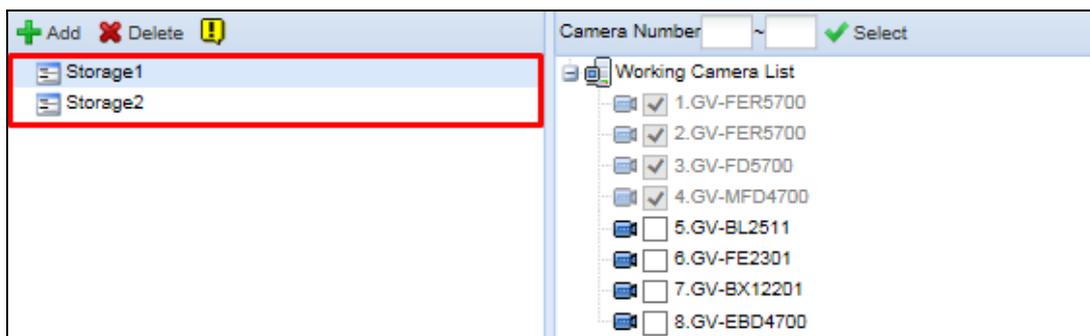
**Note:** IP cameras that are yet to have passwords set can only be added manually, see [To add cameras by manually typing the camera's information, 5.2.1 Install Camera in GV-Recording Server User's Manual](#).

## 4.2 Assigning Storage Paths

- 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.
- 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.

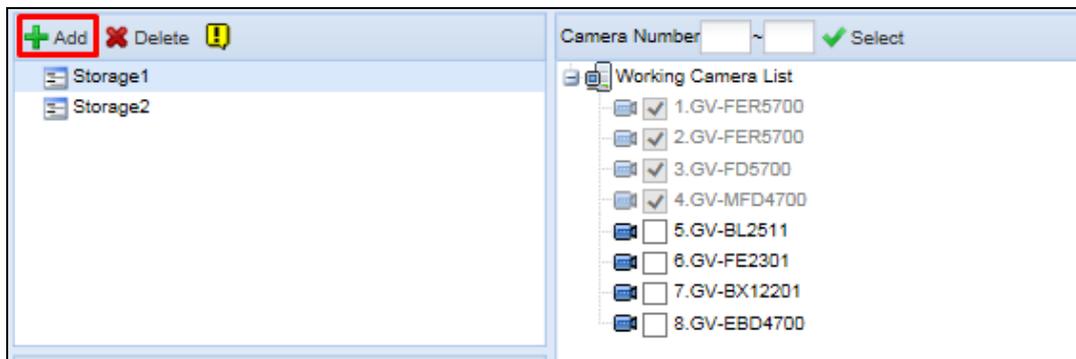


- Click either storage folder to see the cameras in the Working Camera List being equally distributed between Storage1 (Disk D:\) and Storage2 (Disk E:\).

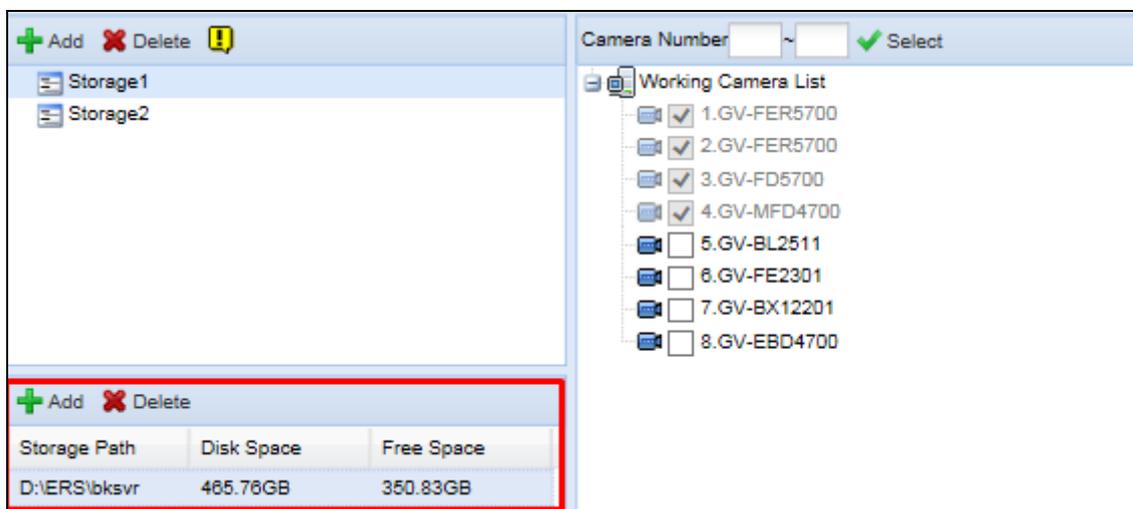


## 4 Connecting to IP Devices

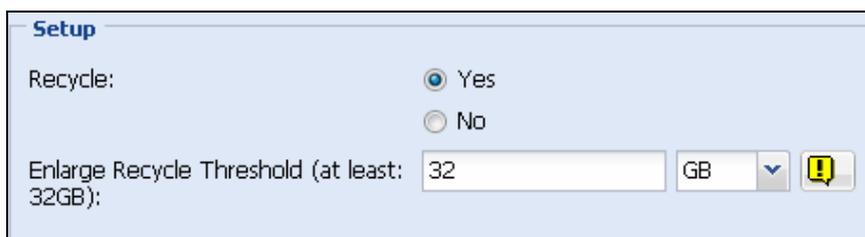
4. To add a new storage folder in a different disk drive, clicks the **Add** button  or select an existing storage folder.



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.

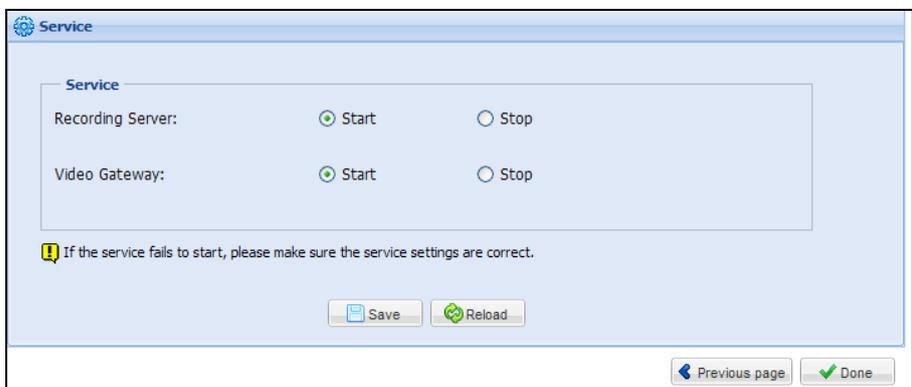
9. Click **Save** and click **Next Page** at the lower-right corner of the page.

**Note:**

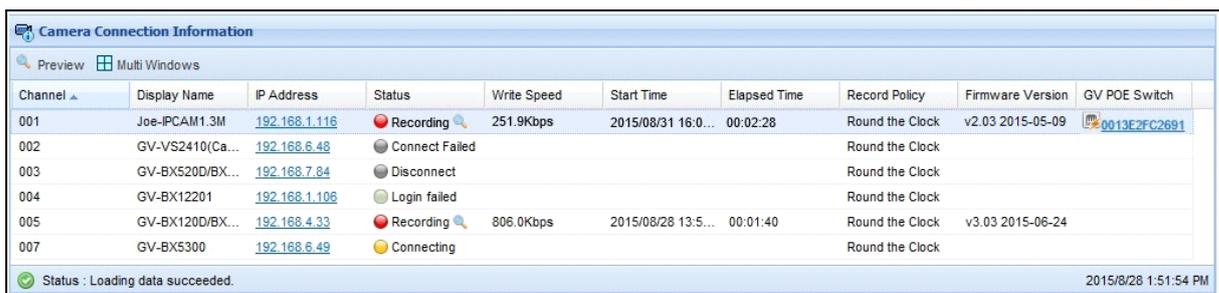
1. When a camera begins recording, the shortcut path of the respective camera will be created, linking to the storage path of its recorded videos. By default, the shortcut folders are located at C:\Programs Files (x86)\RecordingServer\shortcuts.
2. For the suggested maximum number of channels in a hard 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.



Channel	Display Name	IP Address	Status	Write Speed	Start Time	Elapsed Time	Record Policy	Firmware Version	GV POE Switch
001	Joe-IPCAM1.3M	<a href="#">192.168.1.116</a>	Recording	251.9Kbps	2015/08/31 16:0...	00:02:28	Round the Clock	v2.03 2015-05-09	 0013E2FC2691
002	GV-VS2410(Ca...	<a href="#">192.168.6.48</a>	Connect Failed				Round the Clock		
003	GV-BX520D/BX...	<a href="#">192.168.7.84</a>	Disconnect				Round the Clock		
004	GV-BX12201	<a href="#">192.168.1.106</a>	Login failed				Round the Clock		
005	GV-BX120D/BX...	<a href="#">192.168.4.33</a>	Recording	806.0Kbps	2015/08/28 13:5...	00:01:40	Round the Clock	v3.03 2015-06-24	
007	GV-BX5300	<a href="#">192.168.6.49</a>	Connecting				Round the Clock		

Status : Loading data succeeded. 2015/8/28 1:51:54 PM

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.

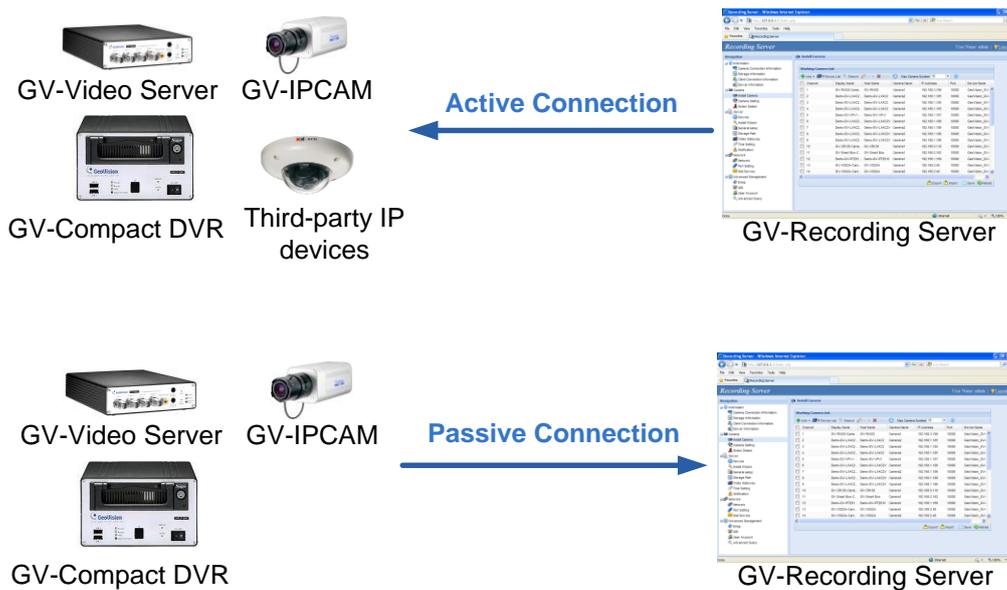
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**Note:** The GV-Recording Server is compatible with the following third-party IP device brands: **Arecont Vision, AXIS, HikVision, Panasonic, Sony, VIVOTEK** and protocols: **ONVIF, PSIA, RTSP**. To see how to add IP devices using protocols, refer 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.



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### 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.
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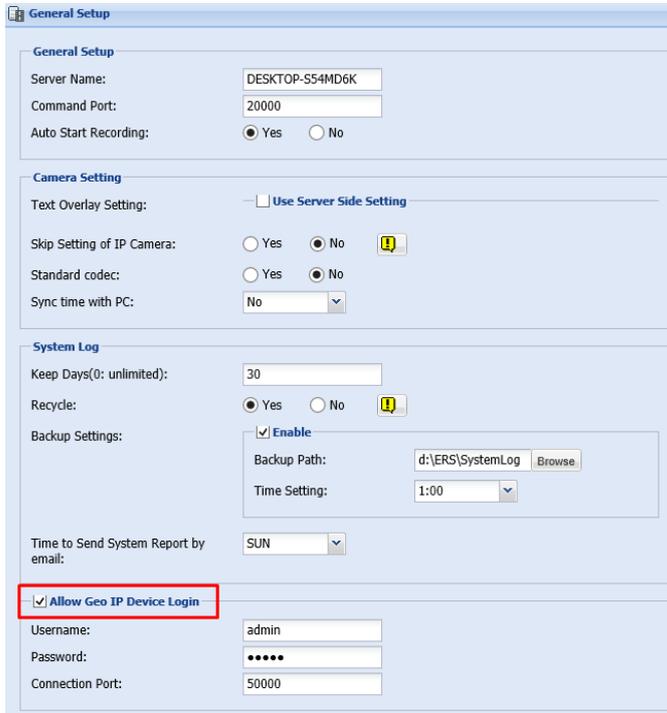
### 5.1 Passive Connection

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.

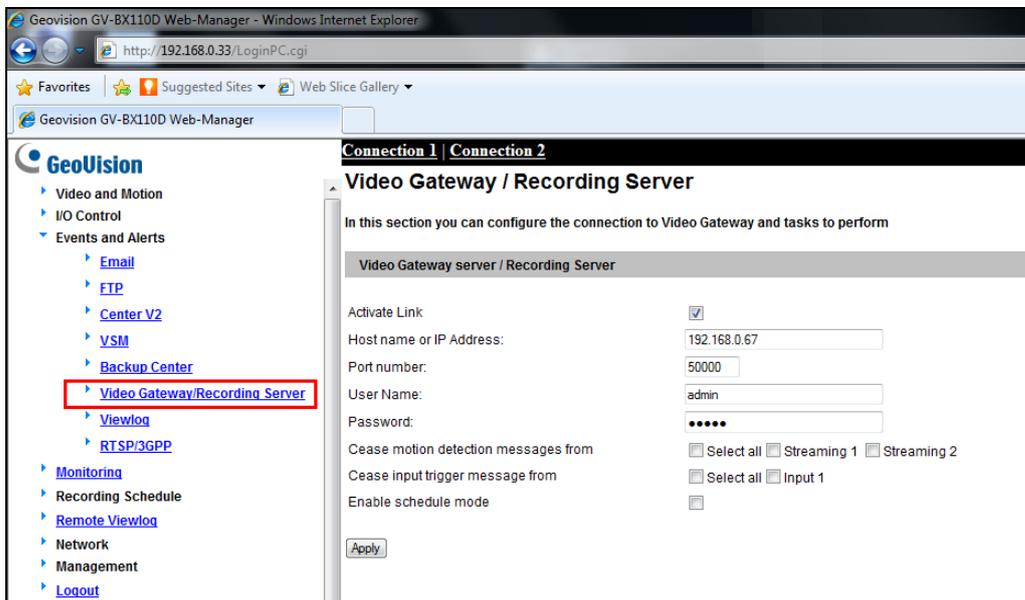


4. Click **Save**.

**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.

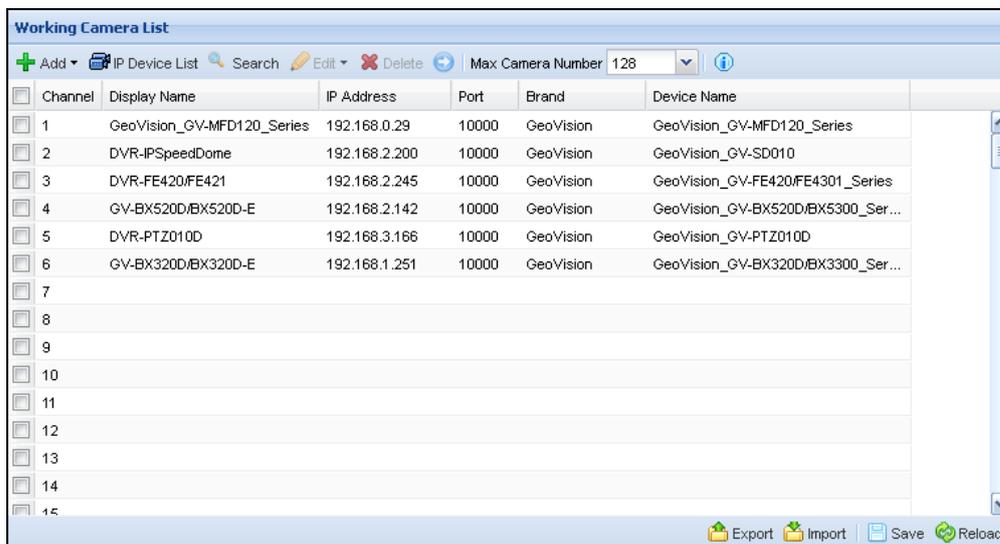


2. Select **Activate Link**.
3. Type the IP address or domain name of the GV-Recording Server.
4. Keep the default port number as *50000* or modify the port number to match the connection port specified in General Setup page on the GV-Recording Server.
5. Type the **User Name** and **Password** to log 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.



### 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.



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.

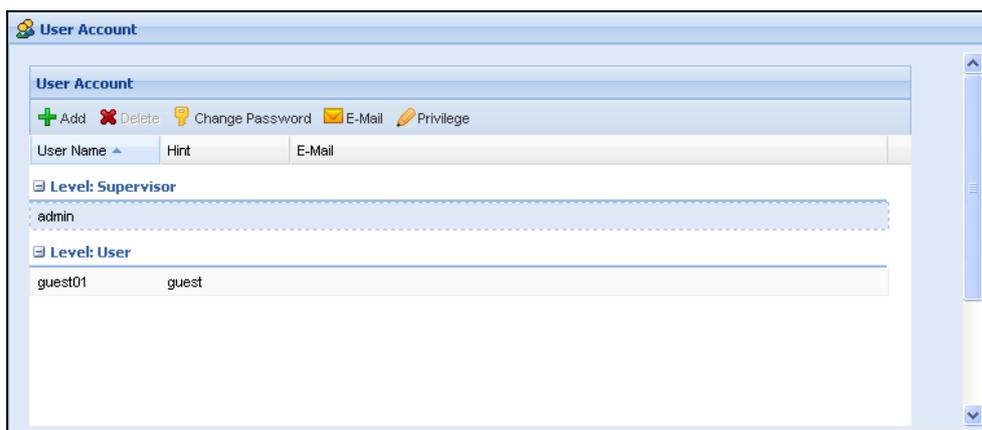
## 6. Distributing to Clients

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.

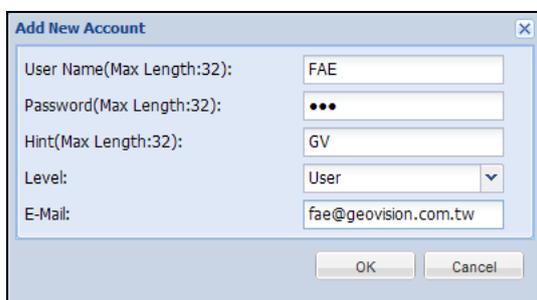
### 6.1 Web Interface through User Account

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.

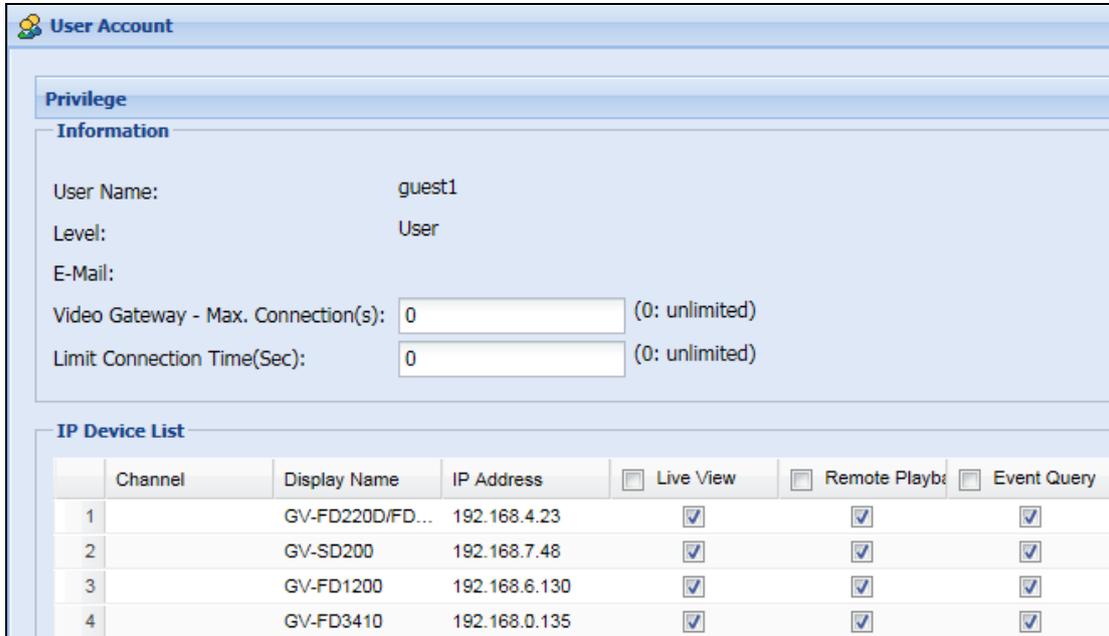


2. Click the **Add** button . This dialog box appears.

The screenshot shows a dialog box titled "Add New Account". It contains several input fields: "User Name(Max Length:32):" with the value "FAE", "Password(Max Length:32):" with masked characters "•••", "Hint(Max Length:32):" with the value "GV", "Level:" with a dropdown menu set to "User", and "E-Mail:" with the value "fae@geovision.com.tw". At the bottom, there are "OK" and "Cancel" buttons.

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.



Channel	Display Name	IP Address	<input type="checkbox"/> Live View	<input type="checkbox"/> Remote Playback	<input type="checkbox"/> Event Query
1	GV-FD220D/FD...	192.168.4.23	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	GV-SD200	192.168.7.48	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	GV-FD1200	192.168.6.130	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	GV-FD3410	192.168.0.135	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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.



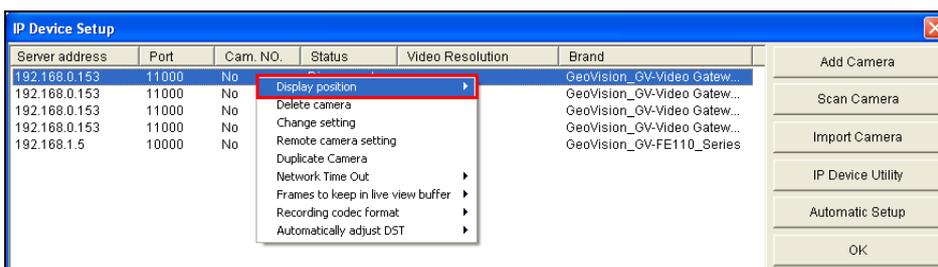
2. Click the **Add Camera** button. This dialog box appears.



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.

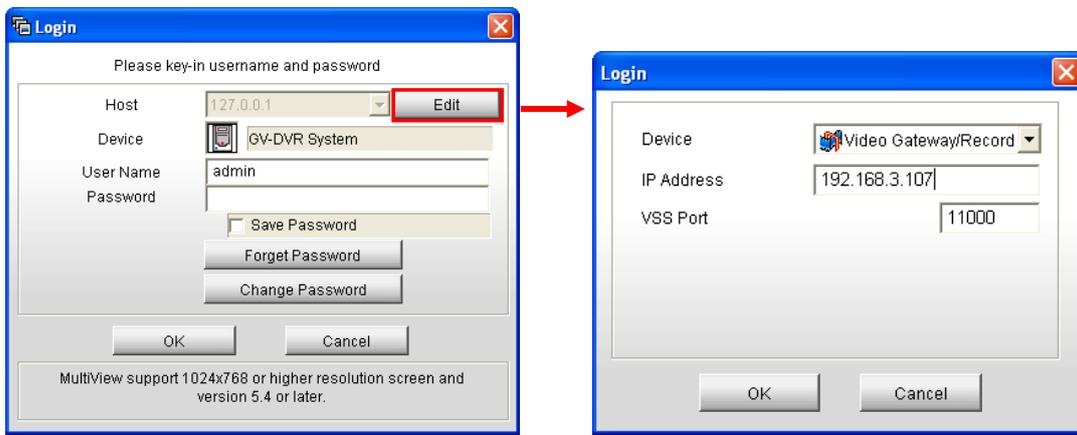
For details on GV-DVR / NVR, see *GV-DVR User's Manual* from [GeoVision's website](#).

### 6.3 Connecting with Multi View

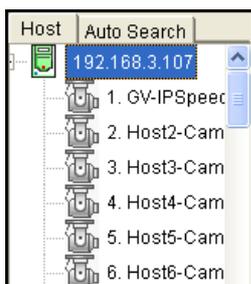
You can find the Multi View from [GeoVision's website](#). Click **2. Install GeoVision Primary Applications** to access the installation program.

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.

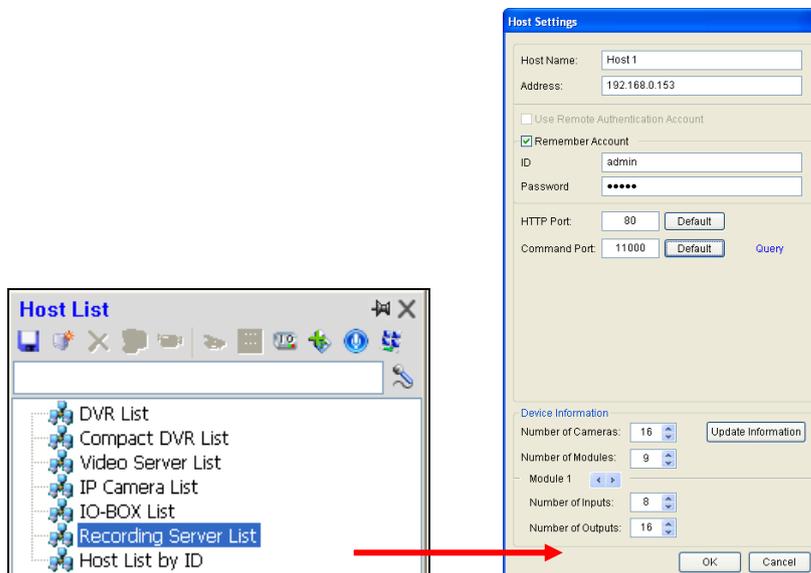


For details on the Multi View functions, see “Multi View Viewer”, Chapter 8 Remote Viewing, *GV-DVR User’s Manual* from [GeoVision’s website](#).

## 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.



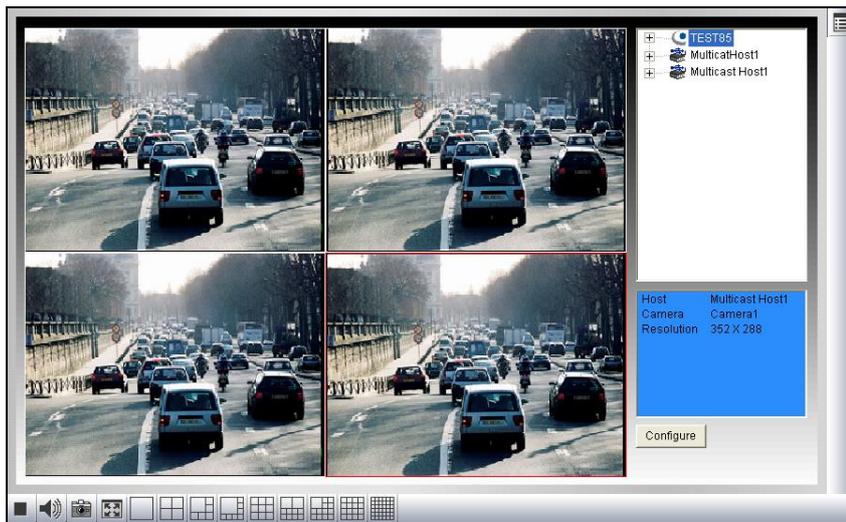
2. Name the host of GV-Recording Server.
3. Type the IP address or domain name of the GV-Recording Server.
4. Type the client’s username and password created on the GV-Recording Server.
5. Keep the communication ports as default settings; otherwise modify them to match the HTTP (default value: 80) and 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**.

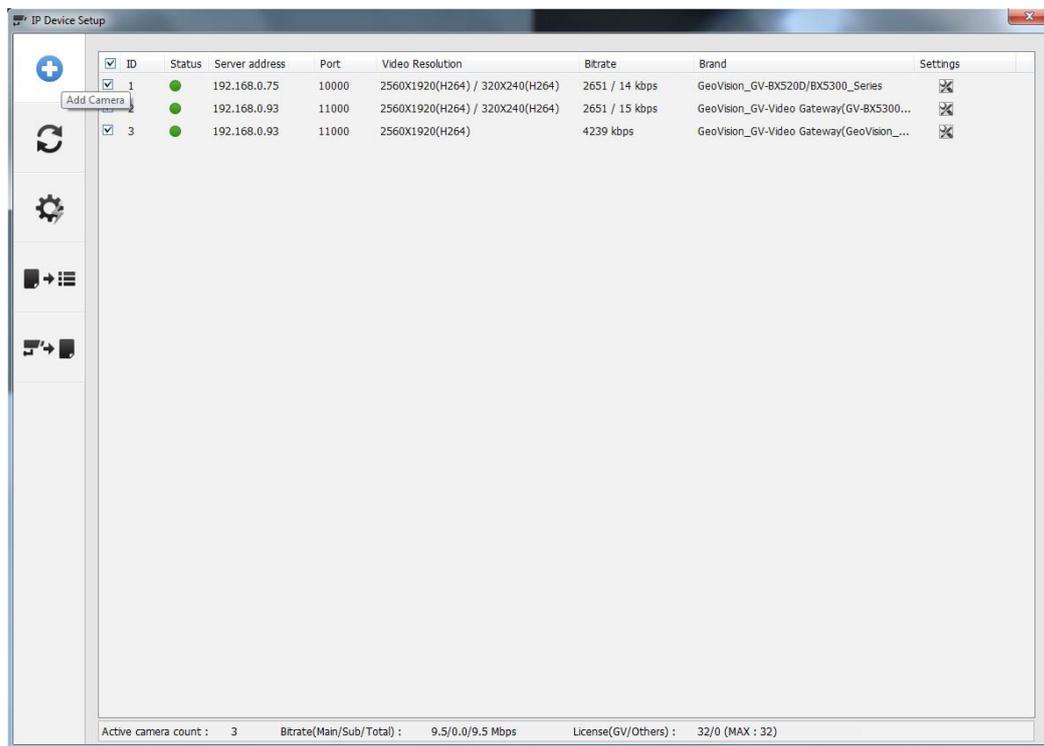
For details on the Multi View functions, see "Multi View Viewer", Chapter 8 Remote Viewing, *GV-DVR User's Manual* from [GeoVision's website](#).

## 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](#).

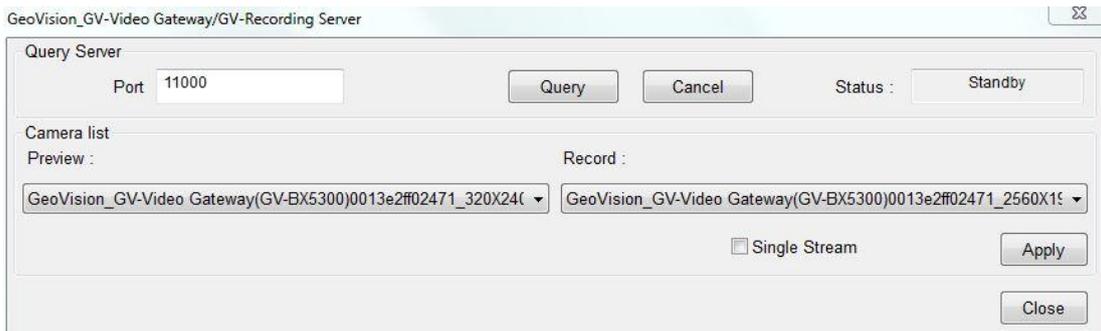
1. To access the IP Device Setup page, click **Home** , select **Toolbar** , click **Configure**  and select **Camera Install**.



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.



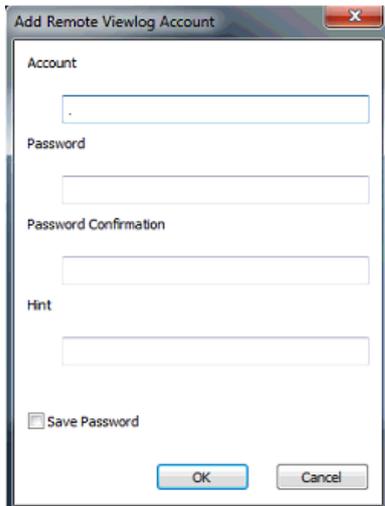
4. Click the **Query** button to attempt connection to the GV-VideoGateway / GV-Recording Server. When the connection is established, the camera options will be displayed in the Preview and Record drop-down lists.
5. Select one camera to be connected. The selections in the Preview and Record drop-down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

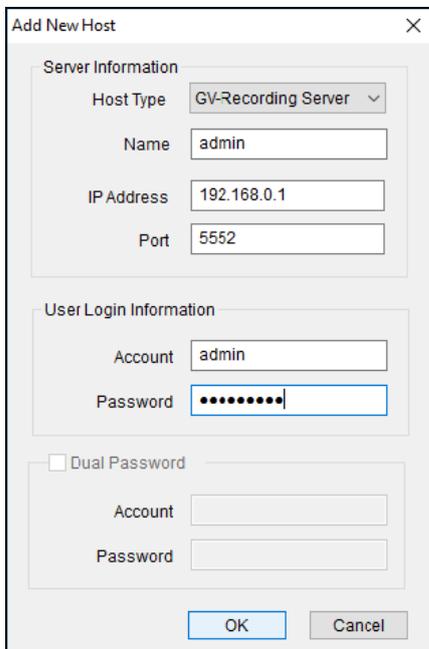
The recordings of the GV-Recording Server can be played back remotely using the GV-Remote ViewLog V2, which can be downloaded and installed from the [GeoVision's website](#).

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



The screenshot shows a dialog box titled "Add Remote Viewlog Account". It has four text input fields: "Account", "Password", "Password Confirmation", and "Hint". Below these fields is a checkbox labeled "Save Password". At the bottom of the dialog are "OK" and "Cancel" buttons.

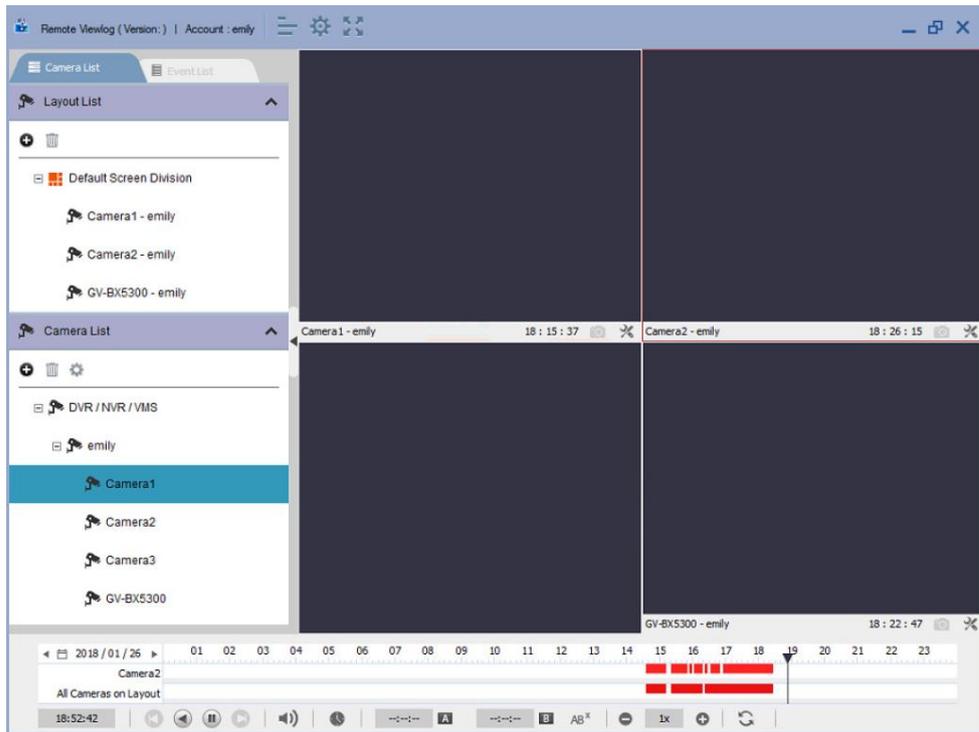
2. After creating an account, the Add New Host dialog box will appear.



The screenshot shows a dialog box titled "Add New Host". It is divided into two main sections: "Server Information" and "User Login Information".  
The "Server Information" section contains:  
- Host Type: A dropdown menu set to "GV-Recording Server".  
- Name: A text field containing "admin".  
- IP Address: A text field containing "192.168.0.1".  
- Port: A text field containing "5552".  
The "User Login Information" section contains:  
- Account: A text field containing "admin".  
- Password: A text field with masked characters (dots).  
Below these sections is a checkbox labeled "Dual Password". If checked, it would reveal two more text fields for "Account" and "Password".  
At the bottom of the dialog are "OK" and "Cancel" buttons.

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

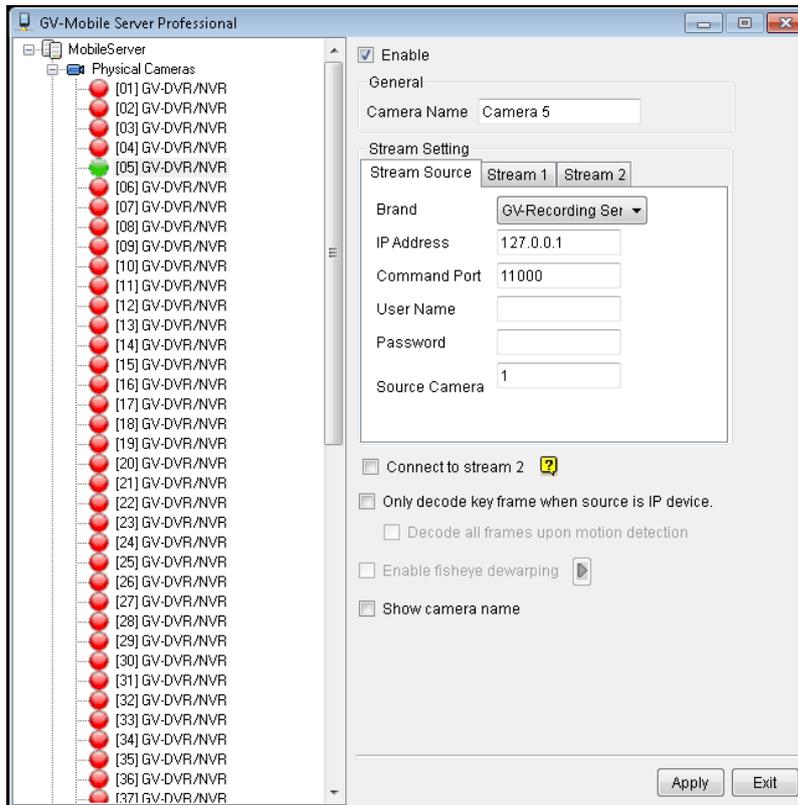
You need to configure the GV-Mobile Server to access video streaming from the GV-Recording Server. You can download and install GV-Mobile Server from [GeoVision's website](#).

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

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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](#).