

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. Introduction	1
1.1 System Requirements and Specifications	1
2. Installation	2
2.1 Installing GV-Recording Server.....	2
2.2 Starting GV-Recording Server	3
3. Connecting to IP Devices.....	4
3.1 Adding IP Video Devices	4
3.2 Assigning Storage Paths	5
3.3 Starting Service	7
4. Passive Mode.....	9
4.1 Passive Connection	9
5. Client Connections.....	12
5.1 Creating User Accounts	12
5.2 Connecting to GV-DVR / NVR	14
5.3 Connecting to GV-Control Center	16
5.4 Connecting to GV-VMS.....	17
5.5 Connecting to Remote ViewLog V2	19
5.6 Connecting to GV-Mobile Server	21

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 Software Upgrade, GV-Recording Server User Manual*.

1.1 System Requirements and Specifications

Refer to the [datasheet](#) for the following information:

1. Minimum System Requirements
2. Software License
3. Compatible GeoVision Products
4. Recommended Hard Disk Requirements
5. Recommended Network Requirements

2. Installation

2.1 Installing GV-Recording Server

It is recommended to install the GV-Recording Server on a dedicated server. Before installation, plug the **GV-USB Dongle** to the computer, then install the **dongle driver** and **Microsoft .Net Framework**.

Install the driver and the GV-Recording Server from [GeoVision website](#).

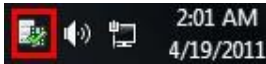
1. To install USB driver, select **Driver, F/W, Patch** from the drop-down list and click the **Download** icon  of **GV-Series Card Driver / GV-USB Devices Driver**.
2. To install GV-Recording Server, select **Primary Applications** from the drop-down list and click the **Download** icon  of **GV-Recording 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	

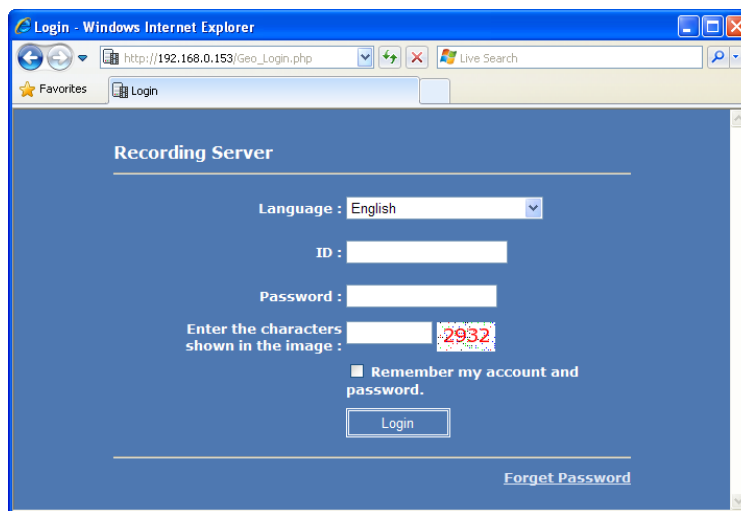
3. To download and install .Net Framework 3.5, go to:
<http://www.microsoft.com/en-us/download/details.aspx?id=21>.

2.2 Starting GV-Recording Server

After installing GV-Recording Server, you will be prompted to set an ID and password. Once configured, the GV-Recording Server icon appears in the system tray. Follow the steps below to access the Web interface.



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 details, see 2.2 *Starting GV-Recording Server* in [GV-Recording Server User's Manual](#).

Note:

1. To enable the image updates 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 must open these default ports: HTTP port **80**, server connection port (Active connection port) **11000**, passive connection port **50000**, and remote playback (Remote ViewLog) port **5552**.
-

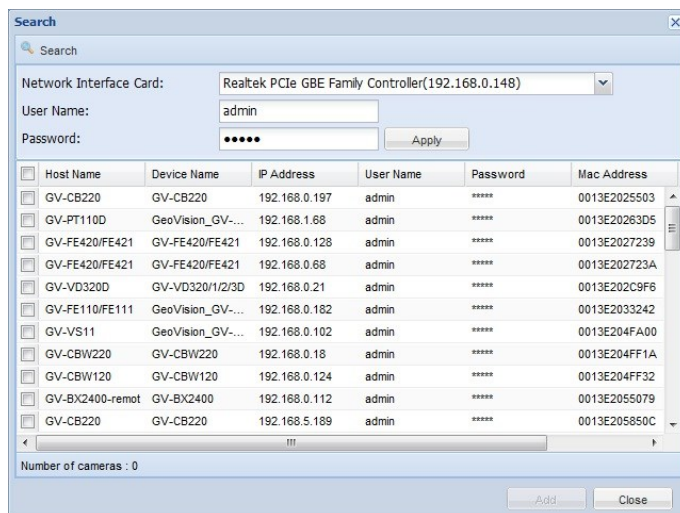
3. Connecting to IP Devices

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

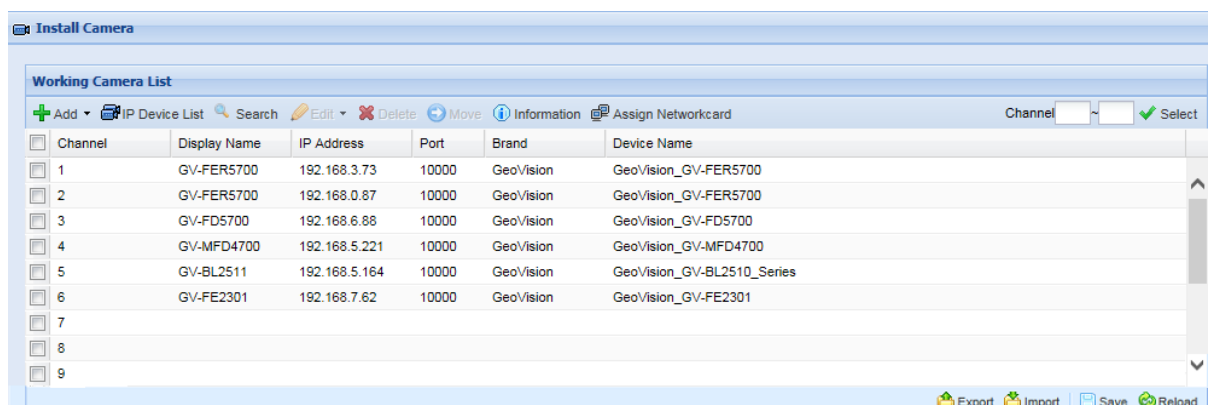
Note: To start the Install Wizard manually, click **Install Wizard** under the Server section in the left menu.

3.1 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.

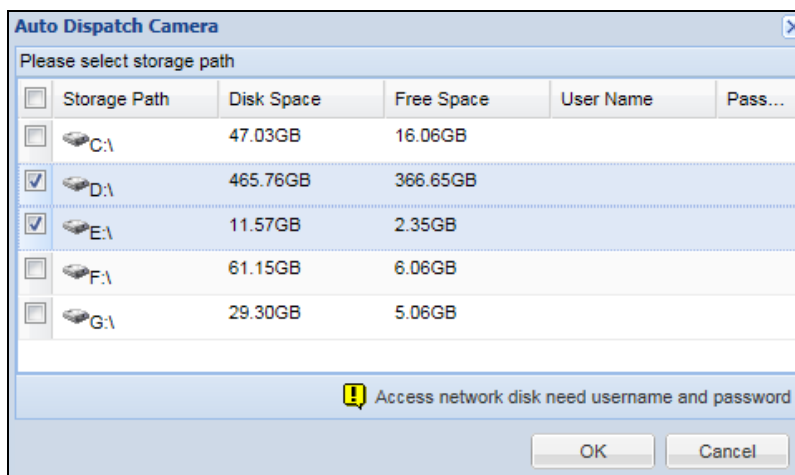


- The GV-Recording Server will try to connect to the devices using **admin** as the default ID and password. To connect with other ID and password, select the camera, click the **Edit** button  and select **Host Setting**. In the dialog box, select **Change ID and Password**, type the ID and password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

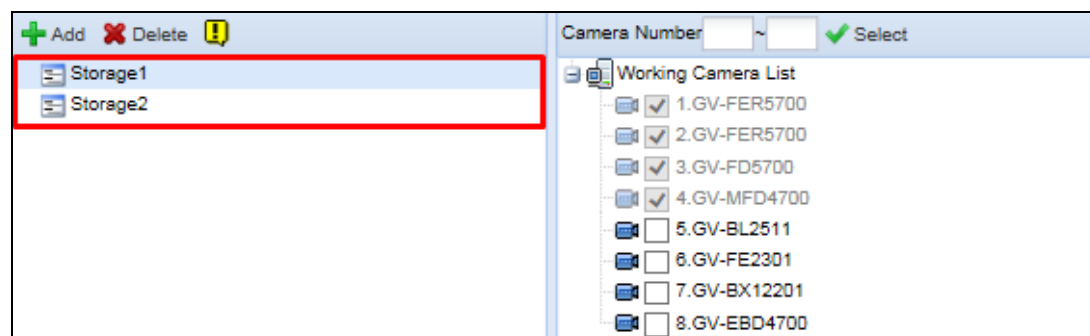
Note: IP cameras that do not have a password configured must be added manually. See [5.2.1 Install Camera \(To add cameras by manually typing the camera's information\)](#) in [GV-Recording Server User's Manual](#).

3.2 Assigning Storage Paths

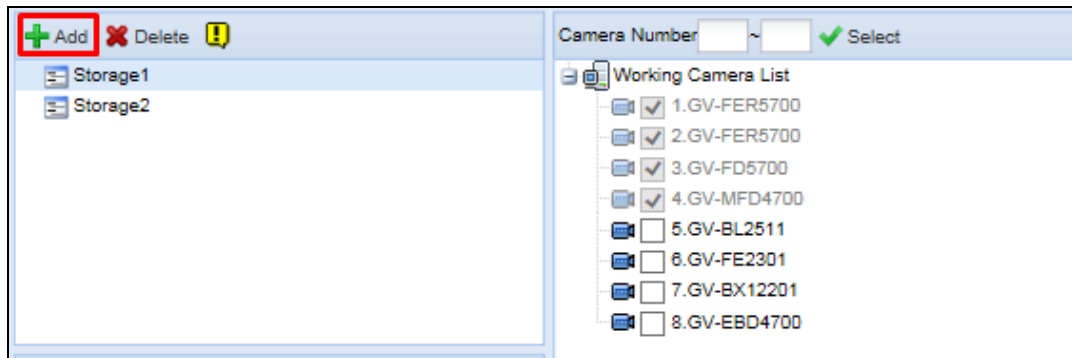
- In the Storage Path page, click **Auto** or **Manual** when a message appears asking you to select the storage dispatch mode. If you click **Manual**, skip to step 4.
- Select at least one storage path to store camera recordings and click **OK**. In this case, Local Disk (D:\) and (E:\) are selected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



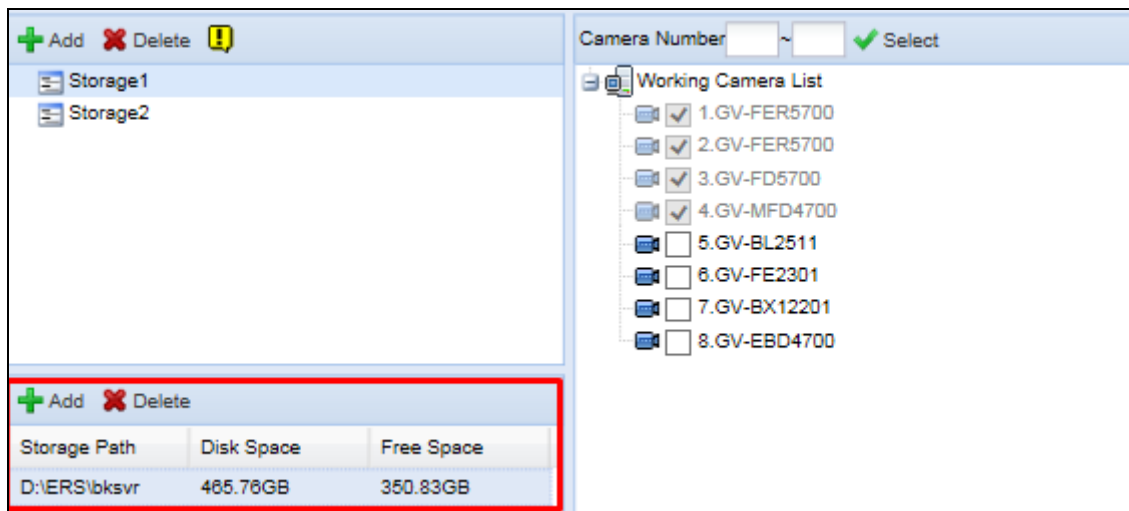
- Click either storage folder to see the cameras in the Working Camera List being equally distributed between Storage1 (Disk D:\) and Storage2 (Disk E:\).



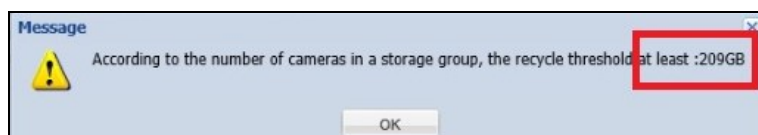
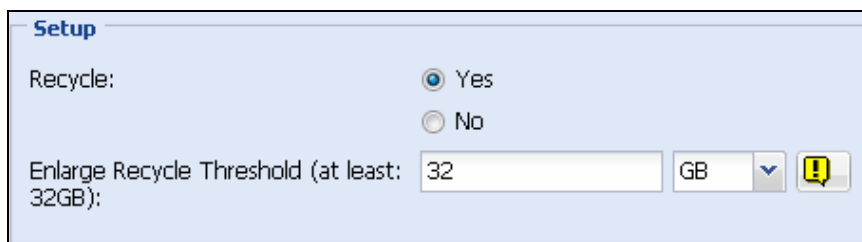
- To add a new storage folder in a different disk drive, clicks the **Add** button  or select an existing storage folder.

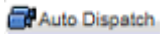


- Use the default storage path, or click the **Add** button to select a new storage path.



- 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.
- 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.



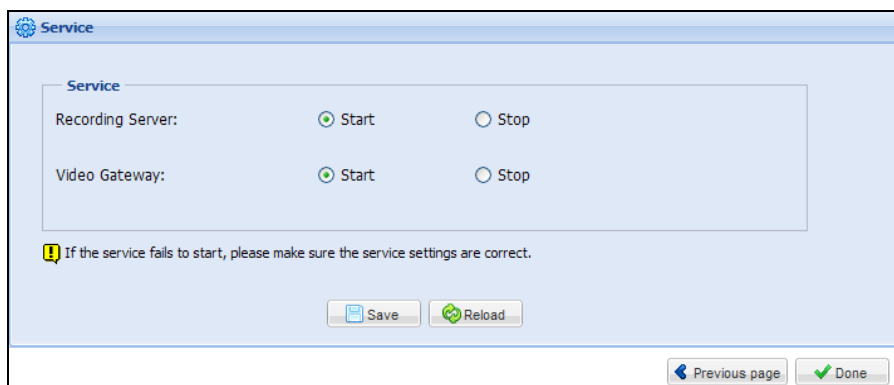
- If you want to automatically re-assign the cameras, click the **Auto Dispatch**  button.
- Click **Save** and click **Next Page** at the lower-right corner of the page.

Note:

- When a camera begins recording, a shortcut path of that camera is created to link directly to the storage path of its recorded videos. By default, these shortcut folders are located at *C:\Programs Files (x86)\RecordingServer\shortcuts*.
- For the suggested maximum number of channels per hard disk, see *Recommended Hard Disk Requirements* in [GV-Recording Server User's Manual](#).
- You can select a network drive as a storage path, e.g. a mapped drive from an iSCSI target or a NAS system.

3.3 Starting Service

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



- 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	192.168.1.116	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	Connecting				Round the Clock		

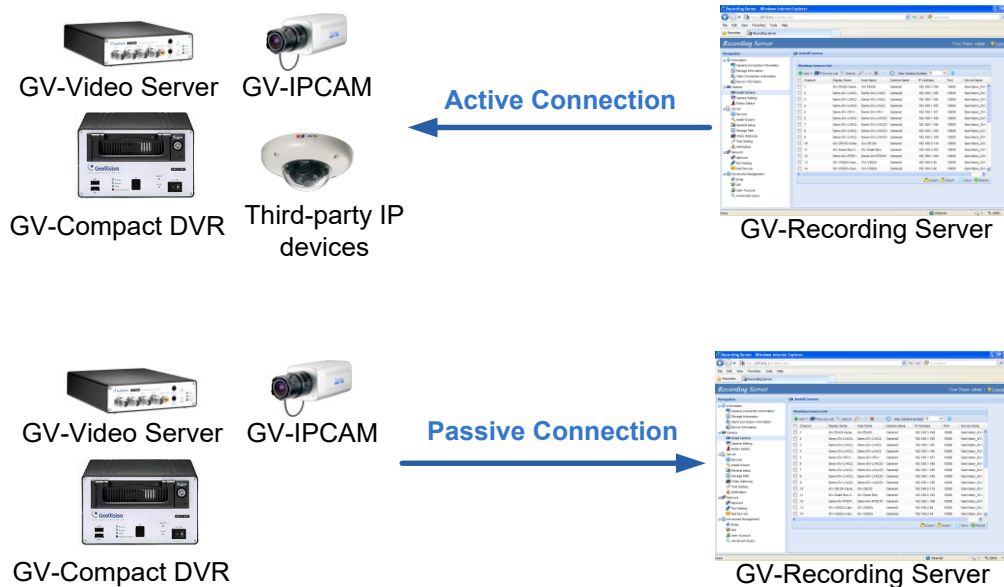
Status : Loading data succeeded. 2015/8/28 1:51:54 PM

Note: The GV-Recording Server is compatible with the following 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](#).

For details on customizing camera settings such as setting video attributes, recording policy, and recording schedule, see *5.2.2 Camera Setting* in [GV-Recording Server User's Manual](#).

4. Passive Mode

IP video devices can connect using **active connection** (initiated by GV-Recording Server) or **passive connection** (initiated by the device). Devices added via the *Installation Wizard* use active connection.



Note:

1. Passive connection supports up to 128 channels and is compatible only with GV-IP devices.
 2. Passive connection is not supported for connecting GV-IP devices to GV-Failover / Redundant Server.
 3. Two-way audio communication is supported for GV-IP devices via active connection only.
-

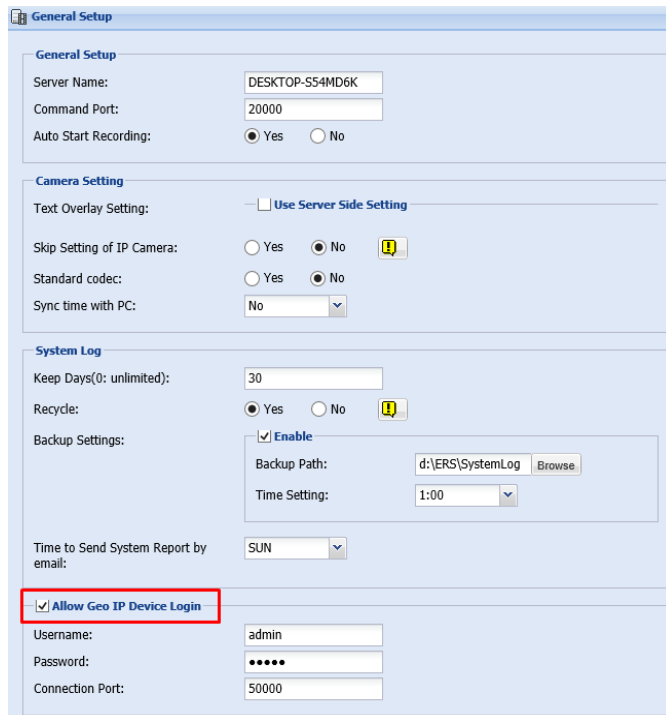
4.1 Passive Connection

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.



General Setup

Server Name: DESKTOP-S54MD6K
 Command Port: 20000
 Auto Start Recording: ☒ Yes ☐ No

Camera Setting

Text Overlay Setting: ☐ Use Server Side Setting
 Skip Setting of IP Camera: ☐ Yes ☒ No 
 Standard codec: ☐ Yes ☒ No
 Sync time with PC: No

System Log

Keep Days(0: unlimited): 30
 Recycle: ☒ Yes ☐ No 
 Backup Settings: ☒ Enable
 Backup Path: d:\ERS\SystemLog 
 Time Setting: 1:00
 Time to Send System Report by email: SUN

☒ **Allow Geo IP Device Login**

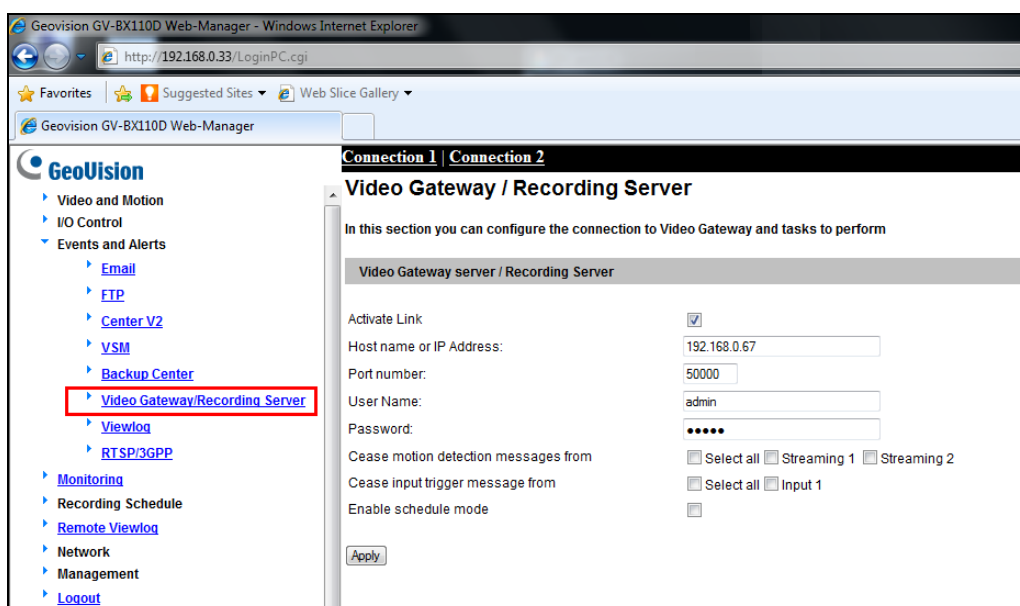
Username: admin
 Password: *****
 Connection Port: 50000

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.

1. 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

Geovision GV-BX110D Web-Manager

GeoVision

- Video and Motion
- I/O Control
- Events and Alerts
 - Email
 - FTP
 - Center V2
 - VSM
 - Backup Center
 - Video Gateway/Recording Server**
 - Viewlog
 - RTSP/3GPP
- Monitoring
- Recording Schedule
- Remote Viewlog
- Network
- Management
- Logout

Connection 1 | Connection 2

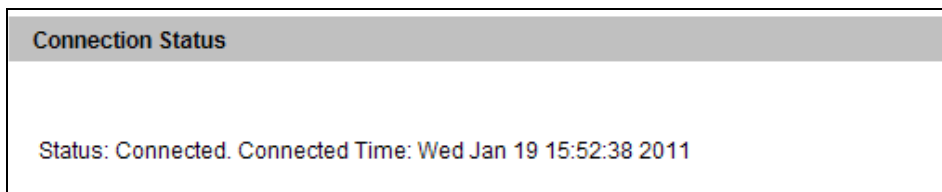
Video Gateway / Recording Server

In this section you can configure the connection to Video Gateway and tasks to perform

Video Gateway server / Recording Server

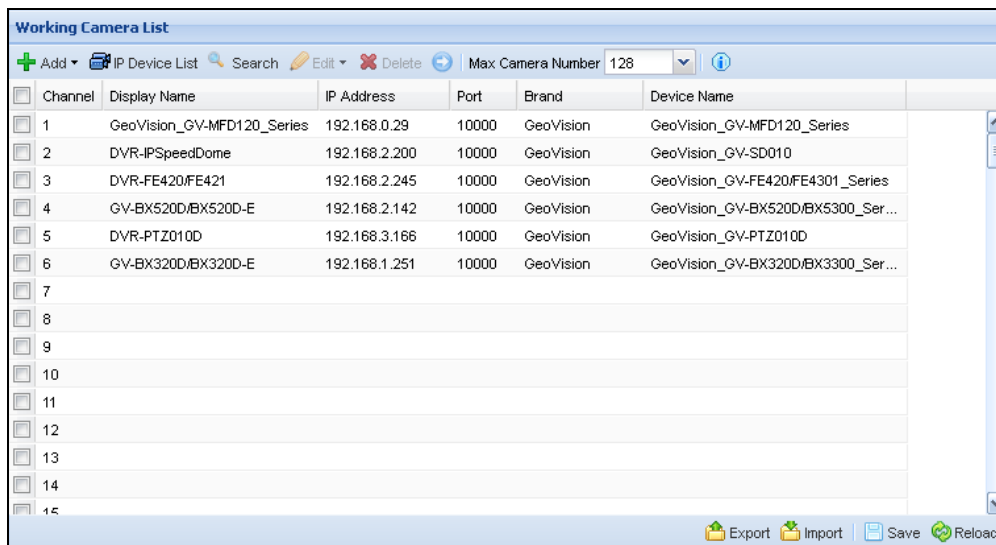
Activate Link: ☒
 Host name or IP Address: 192.168.0.67
 Port number: 50000
 User Name: admin
 Password: *****
 Cease motion detection messages from: ☐ Select all ☐ Streaming 1 ☐ Streaming 2
 Cease input trigger message from: ☐ Select all ☐ Input 1
 Enable schedule mode: ☐
 Apply

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.

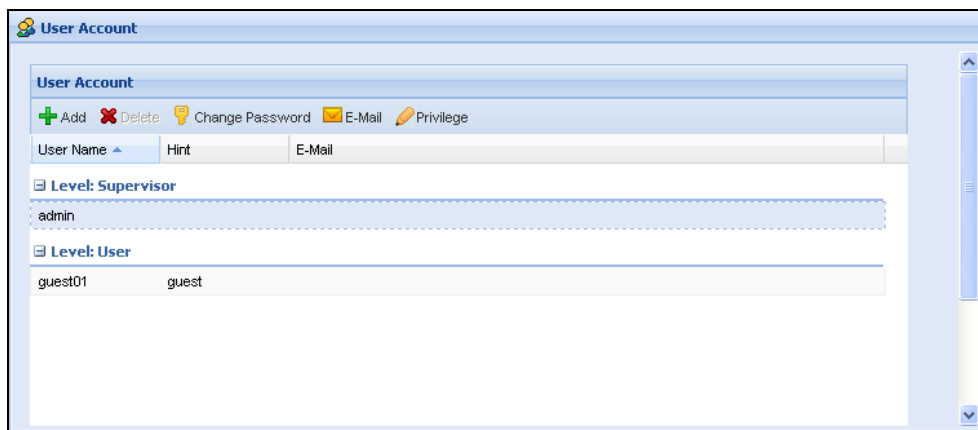
5. Client Connections

The GV-Recording Server can simultaneously transmit up to 600 channels to clients. Customized user accounts with specific access permissions can be created. In addition, GV-DVR / NVR, GV-VMS, and GV-Control Center can receive streams directly from GV-Recording Server.

5.1 Creating User Accounts

You can create up to 1,000 User and Supervisor accounts for GV-Recording Server. Supervisor accounts have full server access, while User accounts can be customized with specific access permissions.

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

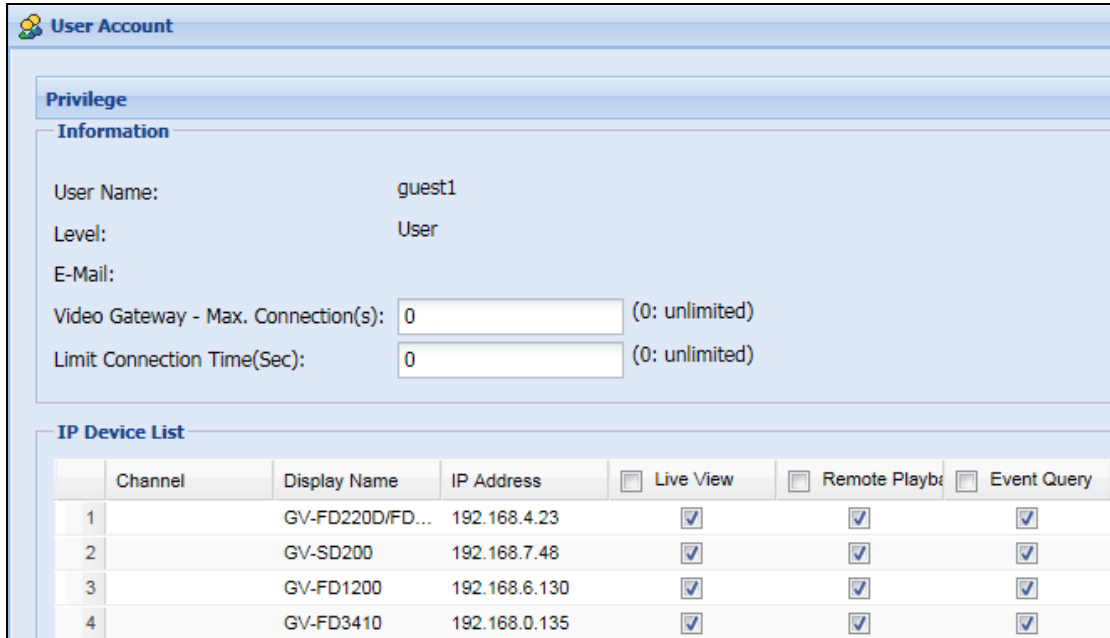


2. Click the **Add** button . This dialog box appears.

User Name(Max Length:32):	FAE
Password(Max Length:32):	...
Hint(Max Length:32):	GV
Level:	User
E-Mail:	fae@geovision.com.tw

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.



User Account						
Privilege						
Information						
User Name:	guest1					
Level:	User					
E-Mail:						
Video Gateway - Max. Connection(s):	0	(0: unlimited)				
Limit Connection Time(Sec):	0	(0: unlimited)				
IP Device List						
	Channel	Display Name	IP Address	☒ Live View	☒ Remote Playback	☒ Event Query
1		GV-FD220D/FD...	192.168.4.23	☒	☒	☒
2		GV-SD200	192.168.7.48	☒	☒	☒
3		GV-FD1200	192.168.6.130	☒	☒	☒
4		GV-FD3410	192.168.0.135	☒	☒	☒

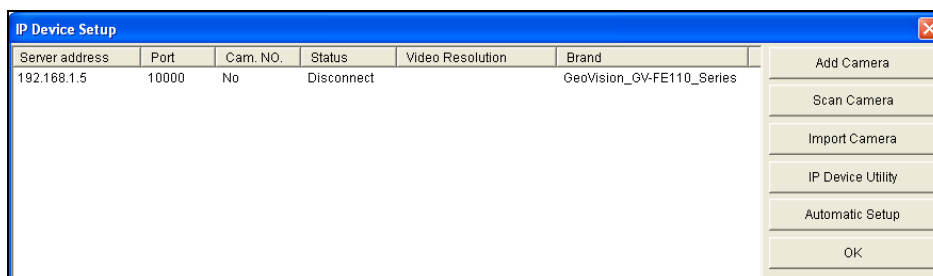
8. Select the checkboxes to allow the user to access the **Live View**, **Remote Playback** and **Event Query** of the camera.
9. Specify the maximum number of simultaneous logins, including via remote connections, allowed by the user account in **Video Gateway – Max. Connection(s)**.
10. Specify the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

For details on User Mode, see *Chapter 6 User Mode* in [GV-Recording Server User's Manual](#).

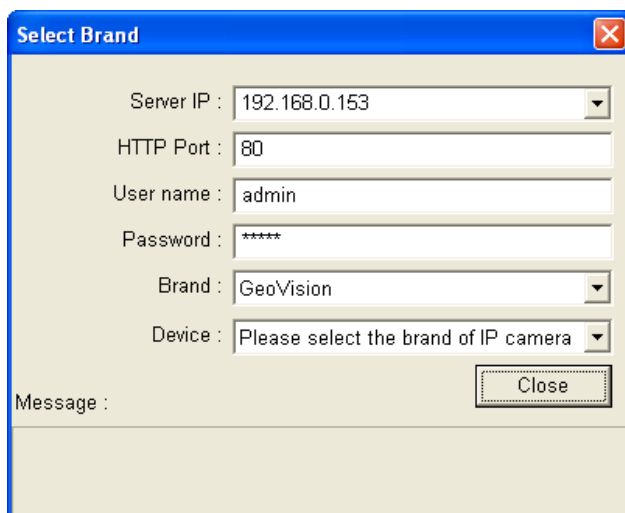
5.2 Connecting to GV-DVR / NVR

To configure the GV-DVR / NVR to access video streams from the GV-Recording Server, follow the steps below.

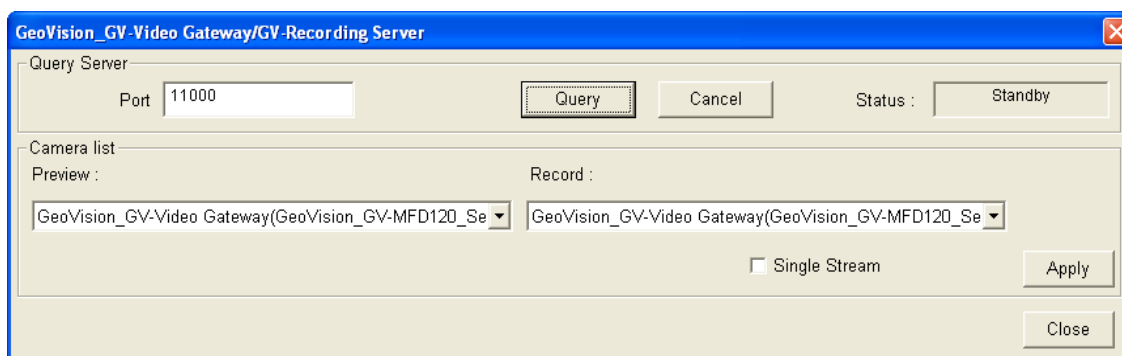
1. On the main screen of GV-DVR / NVR, click the **Configure** button, select **System Configure**, select **Camera Install** and select **IP Camera Install**. This dialog box appears.



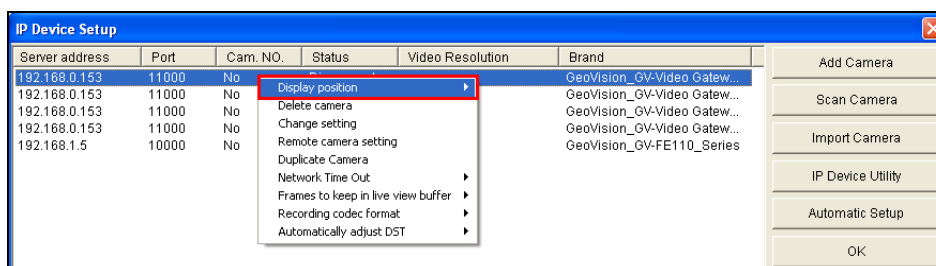
2. Click the **Add Camera** button. This dialog box appears.



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".



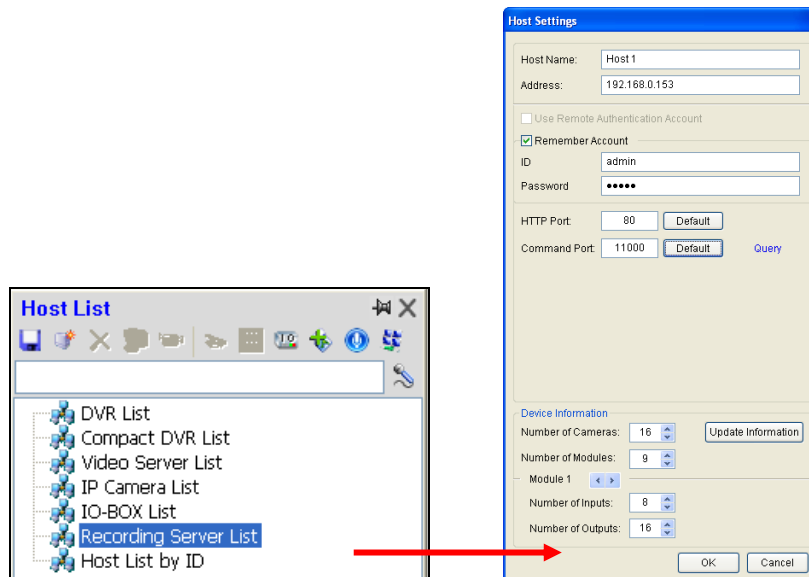
8. Click **OK** to exit all open dialog boxes. The IP camera from the GV-Recording Server is now displayed at specified channel.

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

5.3 Connecting to GV-Control Center

To configure the GV-Control Center to access video streams from the GV-Recording Server, follow the steps below.

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.



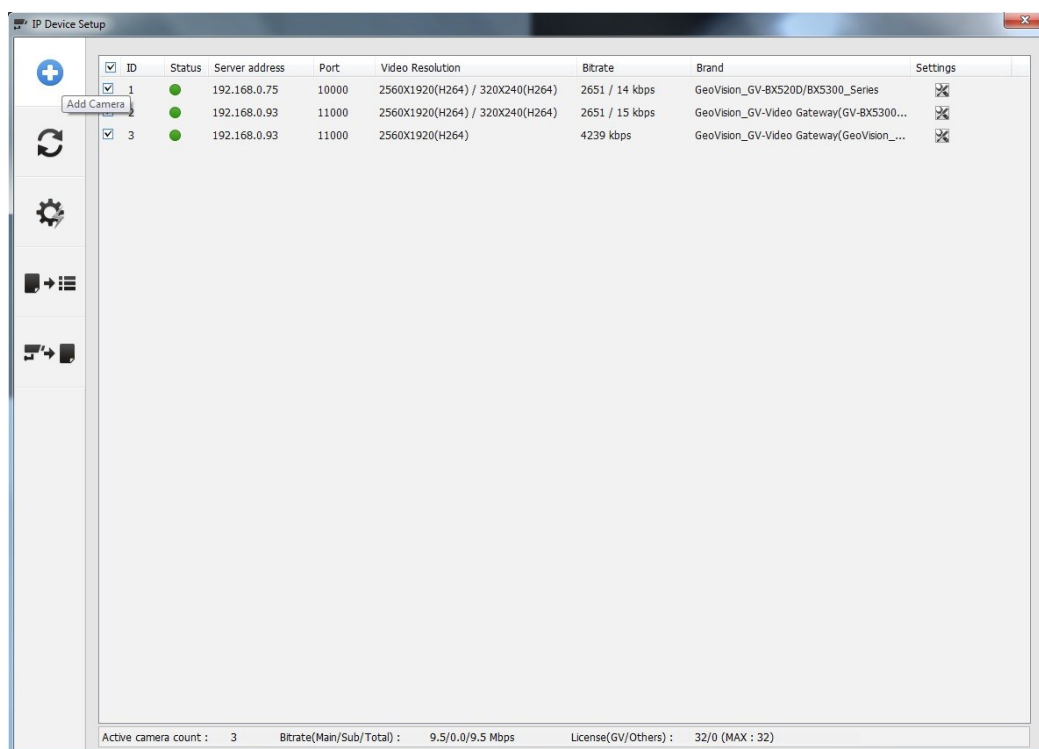
2. Name the host of GV-Recording Server.
3. Type the IP address or domain name of the GV-Recording Server.
4. Type the client's username and password created on the GV-Recording Server.
5. Keep the communication ports as default settings; otherwise modify them to match the HTTP (default value: 80) and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

5.4 Connecting to GV-VMS

To configure the GV-VMS to access video streams from the GV-Recording Server on the GV-VMS, follow these steps.

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



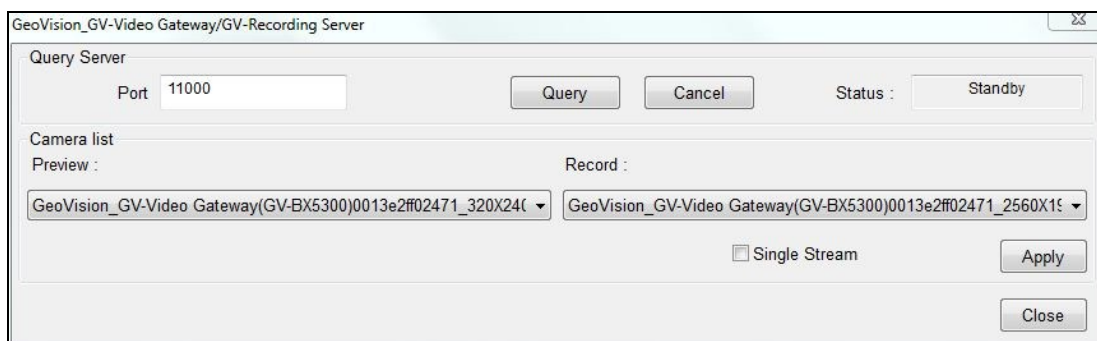
2. Click **Add Camera** . This dialog box appears.



The 'Select Brand' dialog box contains the following fields and options:

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

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.



The 'GeoVision_GV-Video Gateway/GV-Recording Server' dialog box contains the following fields and options:

- Query Server
 - Port : 11000
 - Query button
 - Cancel button
 - Status : Standby
- Camera list
 - Preview : GeoVision_GV-Video Gateway(GV-BX5300)0013e2ff02471_320X240
 - Record : GeoVision_GV-Video Gateway(GV-BX5300)0013e2ff02471_2560X1440
 - ☐ Single Stream
 - Apply button
 - Close button

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](#).

5.5 Connecting to Remote ViewLog V2

To play back GV-Recording Server recordings remotely, use GV-Remote ViewLog V2. You can download and install the software from the [GeoVision website](#).

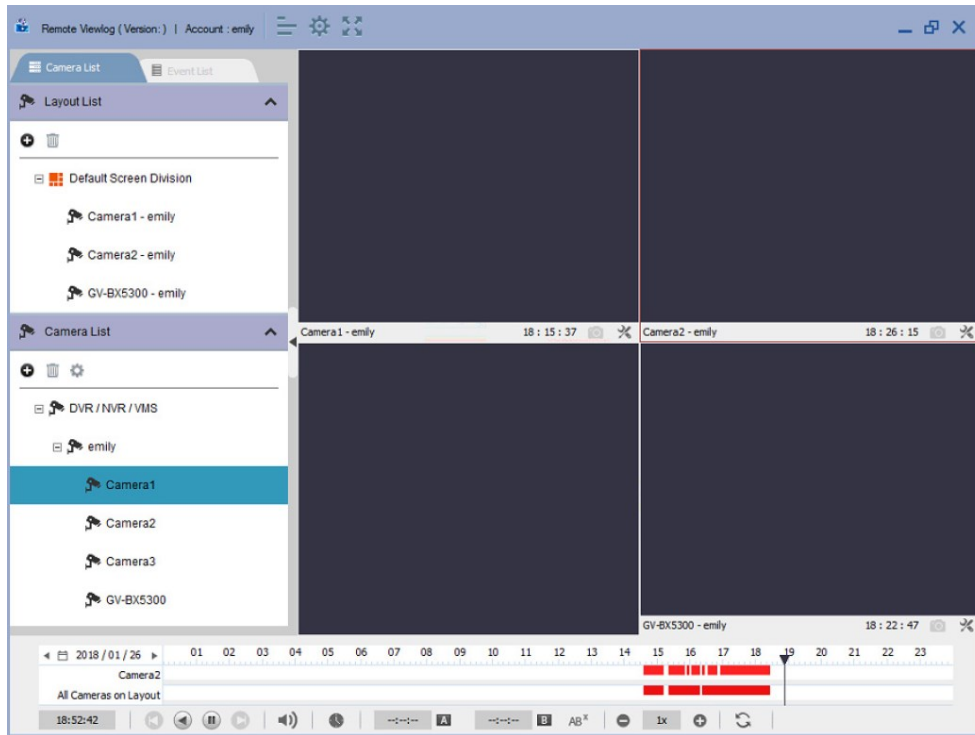
1. Once installed, launch GV-Remote ViewLog V2 and create a Remote ViewLog account.

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".
 In the "Server Information" section, there is a dropdown for "Host Type" set to "GV-Recording Server", and text fields for "Name" (admin), "IP Address" (192.168.0.1), and "Port" (5552).
 In the "User Login Information" section, there are text fields for "Account" (admin) and "Password" (masked with dots).
 Below these sections is a checkbox for "Dual Password". At the bottom 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.

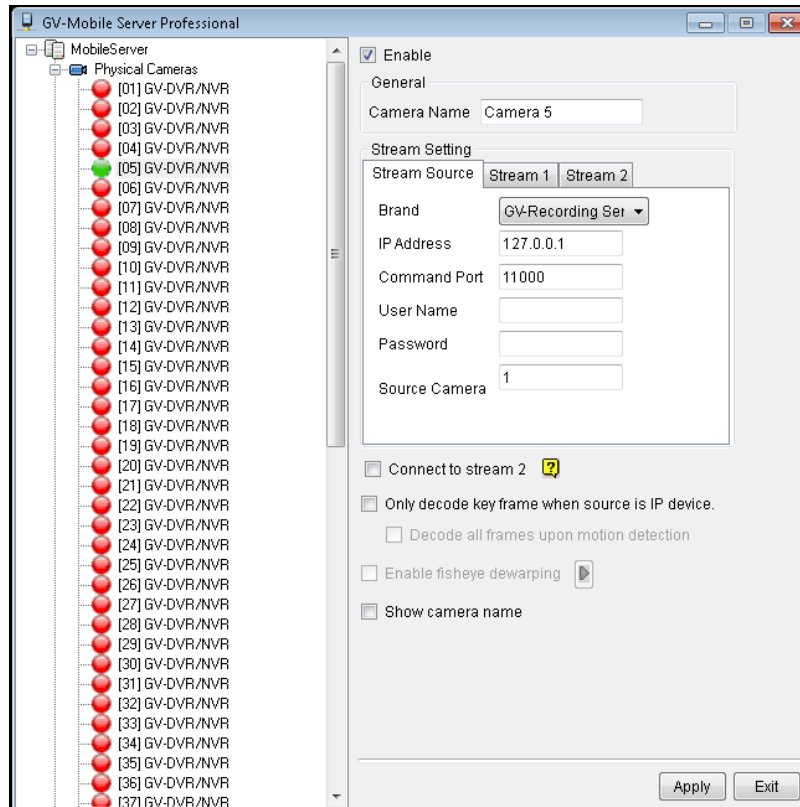


For details on GV-Remote ViewLog V2, see [GV-Remote ViewLog V2 Guide](#).

5.6 Connecting to GV-Mobile Server

To configure the GV-Mobile Server to access video streams from the GV-Recording Server, follow the steps below.

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](#).