

Quick Start Guide

GV-Recording Server V1.3



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* on Software DVD.

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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 Manual*.

1.1 Packing List

• GV-USB Dongle

1.2 Software License

	,
Free License	N/A
Max. License	128 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, 120, 124, 128 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 IP channels.
Optional Combinations	N/A
Dongle Type	Internal

GV-Recording Server (full functions available):

GV-Video Gateway Only (without recording functions):

Free License	N/A
Max. License	128 channels
Increment for Each License	N/A
Optional Combinations	N/A
Dongle Type	Internal or external

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

2. System Requirements

2.1 Minimum System Requirements

Servers meeting the minimum system requirements have the capacity to perform one of the following:

- Receive up to 128 channels and transmit up to 300 channels with each channel set to 1280 x 1024 resolution, 30 fps and H.264 codec. OR
- Receive up to 128 channels and transmit up to 300 channels with each channel set to 1920 x 1080 resolution, 30 fps and H.264 codec. OR
- Receive up to 128 channels and transmit up to 300 channels with each channel set to 2048 x 1536 resolution, 20 fps and H.264 codec.

64-bit Windows 7 / 8 / 8.1 / 10 / Server 2008 R2 / Server 2012 R2
Core i7 2600, 3.4 GHz
GV-Video Gateway: 6 GB Dual Channels
GV-Recording Server: 16 GB Dual Channels
1 GB (for installation)
Internet Explorer 8 to 11
• Firefox 26.0
Google Chrome 31.0.1650.63
Safari 5.1.7
Gigabit Ethernet x 1~6
.Net Framework 3.5
GV-Video Gateway: Internal or external GV-USB Dongle
GV-Recording Server: Internal GV-USB Dongle



Note:

- Gigabit Ethernet x 6 is required in order to receive 128 channels and transmit up to 300 channels with each channel set to 1920 x 1080 resolution, 30 fps and H.264 codec. Refer to *Network Requirement* in the Quick Start Guide,
- 2. The 1 GB hard disk requirement is for installation of GV-Recording Server only. To see the hard disk requirements for recording, refer to *Recommended Hard Disk Requirement* in the Quick Start Guide.
- The browsers supported by 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-System, Multi View, Multicast: version 8.5.6 or later.
- GV-Control Center, GV-GIS: version 3.0 or later.
- **GV-Mobile Server:** version 1.3 or later.
- **GV-Vital Sign Monitor:** version 8.5.9 or later.
- **GV-Backup Center:** version 1.1.2 or later.
- GV-Redundant / Failover Server: version 1.1.0.0 or later
- GV-VMS: version 14.10 or later
- GV-Edge Recording Manager: version 1.0 or later
- **GV-Eye:** version 2.0 or later

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

2.3 Recommended Hard Disk Requirements

Res.	FPS	Codec	Motion	I	Round-the-Clock	(
			Max.	Max. ch per	Hdd capacity	Hdd needed
			channel	hdd and	required	for 24 hr
			per hdd	required hdd	(Recording	recording
				capacity	128 ch, 24 hr)	(7200RPM
						hdd,
						SATA3)
1.3 MP	30 fps	H.264	10 ch	32 ch / 2.5 TB	10 TB	3 TB hdd x 4
		JPEG	N/A	8 ch / 2.7 TB	43.2 TB	3 TB hdd x 16
2.0 MP	30 fps	H.264	7 ch	21 ch / 2.2 TB	13.5 TB	3 TB hdd x 7
		JPEG	N/A	5 ch / 2.5 TB	64 TB	3 TB hdd x 26
3.0 MP	20 fps	H.264	10 ch	32 ch / 3 TB	12 TB	3 TB hdd x 4
		JPEG	N/A	4 ch / 2 TB	64 TB	3 TB hdd x 32

The recommended hard disk requirements are listed as below.

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

2.4 Suggested Motion Detection Frequency

The numbers of channels supported vary depending on the frequency of motion detection. When using short intervals between motion detection, detection is more sensitive, but CPU usage increases and the numbers of channels supported decrease. Below is the suggested time interval for motion detection and the numbers of channels supported at that interval. The default time interval setting is 1000 milliseconds.

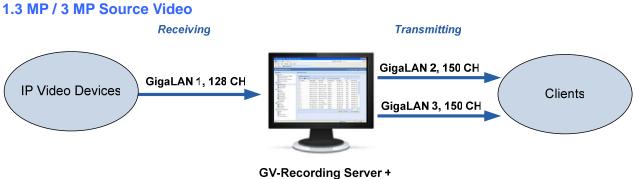
Resolution	Motion Detection Interval	Receiving	Transmitting
1.3 MP (1280 x 1024)	500 milliseconds	128 ch	240 ch
2.0 MP (1920 x 1080)	500 milliseconds	90 ch	180 ch
3.0 MP (2048 x 1536)	250 milliseconds	55 ch	111 ch
5.0 MP (2560 x 1920)	250 milliseconds	45 ch	90 ch

2.5 Network Requirements

The number of Gigabit network cards required to receive 128 channels and transmit 300 channels are listed below according to the resolution of the source video.

Resolution	FPS	Codec	Gigabit Network	Cards Required
Resolution	ггэ	Codec	Receiving 128 ch	Transmitting 300 ch
1.2 MD	20 fpg	H.264	Gigabit network card x 1	Gigabit network card x 2
1.3 MP	30 fps	п.204	(up to 128 ch per card)	(up to 150 ch per card)
2.0 MP	20 fpg	H.264	Gigabit network card x 2	Gigabit network card x 4
2.0 IVIP	30 fps	п.204	(up to 64 ch per card)	(up to 75 ch per card)
3.0 MP	20 fps	H.264	Gigabit network card x 1	Gigabit network card x 2
3.0 IVIP	20 105	n.204	(up to 128 ch per card)	(up to 150 ch per card)

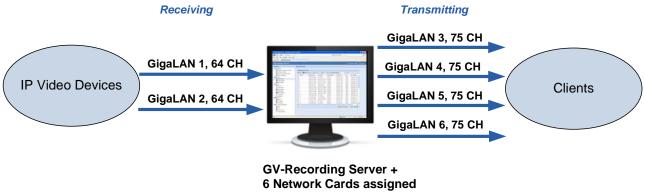
The deployment of Gigabit connections for transmitting and receiving is suggested as illustrated below. Ensure to run every Gigabit connection on a different network in order to reduce the lag on any network connection.



3 Network Cards assigned on different networks



2 MP Source Video



on different networks

3. Introduction

3.1 Installing the GV-Recording Server

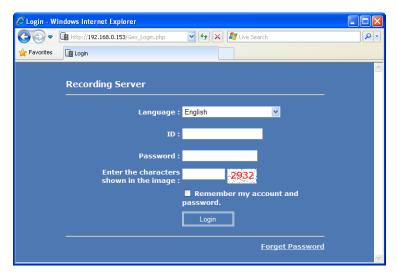
- Insert GV-USB Dongle to a dedicated computer or server and go to the Software Download and Upgrading page of Geovision Website: http://www.geovision.com.tw/english/5_8_VMS.asp.
- To install USB driver, select the Video Management Software tab, find the Driver section and click the Download icon of GV-Series Card Driver / GV-USB Devices Driver.
- To install GV-Recording Server, select the Video Management Software tab, find the Primary Applications section and click the Download icon of GV-Recording Server / GV-Video Gateway.
- To download and install .Net Framework 3.5, go to: <u>http://www.microsoft.com/en-us/download/details.aspx?id=21</u>.

Note: For Brazil, refer to the User's Manual for how to install GV-Recording Server from the Software DVD.

3.2 Starting the GV-Recording Server

- Right-click the GV-Recording Server icon select Login, and type the login name and password. (Default name and password: admin)
- 2. Right-click the GV-Recording Server icon and select **Start Service**.

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



- 4. Type the **ID** and **Password**. The default login name and password for the Administrator are **admin**.
- 5. Type the verification number shown in the image.
- 6. Click **Login**. The GV-Recording Server Web interface is now displayed.

For more details, see 2.2 Starting the GV-Recording Server in the GV-Recording Server User Manual.

Note:

- To enable the updating of images in Microsoft Internet Explorer, you must set your browser to allow ActiveX Controls and perform a one-time installation of GeoVision's ActiveX component onto your computer.
- 2. If the GV-Recording Server is installed behind a firewall or router, you may need to open these default ports: HTTP port 80, server connection port (Active connection port) 11000 and Passive connection port 50000, remote playback (Remote ViewLog) port 5552.

4. Connecting to IP Devices

When logging in the GV-Recording Server for the first time, the Install Wizard will be prompted to help you 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 LAN. This dialog box appears.

Network Interface Card:			Realtek PCIe GBE Family Controller(192.168.0.148)						
User Name:		ad	min						
Password:			•••	Apply					
	Host Name	Device Name	IP Address	User Name	Password	Mac Address	-		
	GV-CB220	GV-CB220	192.168.0.197	admin	*****	0013E2025503	-		
	GV-PT110D	GeoVision_GV	192.168.1.68	admin	*****	0013E20263D5			
	GV-FE420/FE421	GV-FE420/FE42	1 192.168.0.128	admin	*****	0013E2027239	1		
	GV-FE420/FE421	GV-FE420/FE42	1 192.168.0.68	admin	*****	0013E202723A			
	GV-VD320D	GV-VD320/1/2/3	D 192.168.0.21	admin	*****	0013E202C9F6			
	GV-FE110/FE111	GeoVision_GV	192.168.0.182	admin	*****	0013E2033242			
	GV-VS11	GeoVision_GV	192.168.0.102	admin	*****	0013E204FA00			
	GV-CBW220	GV-CBW220	192.168.0.18	admin	*****	0013E204FF1A			
	GV-CBW120	GV-CBW120	192.168.0.124	admin	*****	0013E204FF32			
	GV-BX2400-remot	GV-BX2400	192.168.0.112	admin	*****	0013E2055079			
	GV-CB220	GV-CB220	192.168.5.189	admin	*****	0013E205850C			
•			m			F.			

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

Working Came	era List				
🕂 Add 👻 🗃 🖡	Device List 🔍 Search	🖉 Edit 🔹 🕱 Delet	e OMove	(i) Information	
Channel	Display Name	IP Address	Port	Brand	Device Name
1	GV-CBW120	192.168.0.124	10000	GeoVision	GeoVision_GV-CBW120
2	GV-CBW220	192.168.0.18	10000	GeoVision	GeoVision_GV-CBW220
3	GV-BL2510	192.168.0.109	10000	GeoVision	GeoVision_GV-BL2510_Series
4	ONVIF	192.168.0.124	80	Protocol	ONVIF
5	GV-FER521	192.168.0.88	10000	GeoVision	GeoVision_GV-FER521_Series

- 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 a new ID and password and click OK.
- 6. Click **Save** and click **Next Page**.

4.2 Assigning Storage Paths

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

📑 Storage Path	
🕂 Add 💥 Delete 🛄	Camera Number ~ V Select
Storage1	🖻 📴 🔲 Working Camera List
Storage2	GV-IPCAM1.3M-Camera1
Storage3	Cloud-xp1-Camera2
Storage4	Cloud-xp1-Camera3
	GV-IPSpeedDome-Camera1

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

Storage Path	
🕂 Add 🕱 Delete 🛄	Camera Number ~ Select
E Storage1	🖃 💼 🔲 Working Camera List
Storage2	GV-IPCAM1.3M-Camera1
Storage3	- 🧱 🗸 Cloud-xp1-Camera2
Storage4	- 🧱 🗸 Cloud-xp1-Camera3
	GV-IPSpeedDome-Camera1

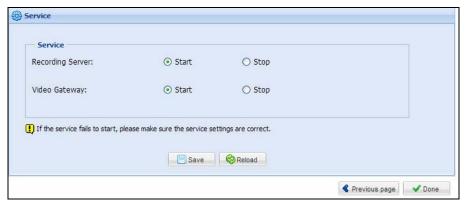
- 3. In the Working Camera List section, type a range of camera number and click the **Select** button. You can also select the **Working Camera List** checkbox to select cameras individually. Videos of the cameras selected will be recorded to the storage path indicated.
- 4. To specify a recycle threshold, select **Recycle** and type a minimum free space. When the remaining free space falls below the threshold, the oldest files will be overwritten.
- 5. Click **Save** and click **Next Page** at the lower-right corner of the page.

Note:

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

4.3 Starting Service

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



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

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

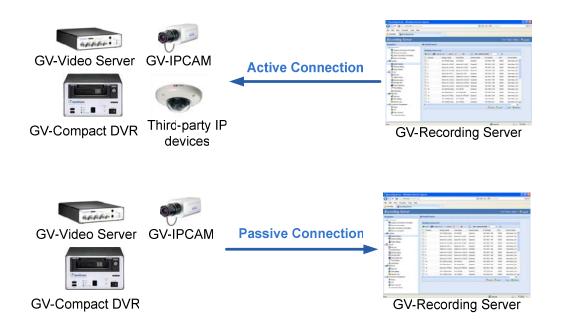
After adding camera, refer to *5.2.2 Camera Setting* in the *GV-Recording Server User Manual* to see how to customize camera settings such as setting video attributes, recording policy and recording schedule.



Note: The GV-Recording Server is compatible with the following third-party IP device brands: **Arecont Vision**, **AXIS**, **HikVision**, **Panasonic**, **Sony**, **VIVOTEK** and protocols: **ONVIF**, **PSIA**, **RTSP**. To see the supported models for each brand, refer to the Supported IP Camera List at http://www.geovision.com.tw/english/4_21.asp. To see how to add IP devices using protocols, refer to *5.2.1 Install Camera* in the *GV-Recording Server User Manual*.

5. Active and Passive Mode

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



Note:

- 1. Passive connection is only supported for 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 video devices.

To allow passive connection on GV-Recording Server:

1. In left menu, select General Setup.

 Select Allow Geo IP Device Login. The default ID and Password to log onto the GV-Recording Server is admin, and the default port value is 50000. If you change the ID and Password, they must match the same settings configured on the GV-IP device.

General setup		
Server Name:	Test252-PC	
Command Port:	20000	
Auto Start Recording:	🕐 Yes 💽 No	
System Log		
Keep Days(1~180):	30	
tecycle:	🛞 Yes 🔘 No	D
lackup Settings:	🗹 Enable	
	Backup Path:	d:\ERS\SystemLog Brawse
	Time Setting:	1:00
Allow Geo IP Device 1	ogin	
	admin	
Jser Name:	Science	

4. Click Save.

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

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

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

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

2. Select Activate Link.

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

Connection Status				
Status: Connected. Cor	nected Time: We	d Jan 19 15:52	:38 2011	

To start passive connection on GV-Recording Server:

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

T Add *	🗃 IP Device List 🔍 Search 🥖	Edit 👻 🞇 Delete 🌘	Max C	amera Number 12	28 💉 🛈	
Channe	el 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	1
4	GV-BX520D/BX520D-E	192.168.2.142	10000	GeoVision	GeoVision_GV-BX520D/BX5300_Ser	
5	DVR-PTZ010D	192.168.3.166	10000	GeoVision	GeoVision_GV-PTZ010D	
6	GV-BX320D/BX320D-E	192.168.1.251	10000	GeoVision	GeoVision_GV-BX320D/BX3300_Ser	
7						
8						
9						
10						
11						
12						
13						
14						

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

6. Distributing to Clients

The GV-Recording Server can simultaneously transmit up to 300 channels to clients. User accounts can be created for clients to access GV-Recording Server through Web interface. In addition, GV-System, Multi View, GV-VMS, and GV-Control Center can be configured to receive streaming from GV-Recording Server.

6.1 Web Interface through User Account

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

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

🕂 Add 🛛 🞇 Dele	ete - 💡 Change	Password 🚾 E-Mail 🖉 Privilege	
User Name 🔺	Hint	E-Mail	
E Level: Superv	visor		
admin			
E Level: User			
guest01	guest		

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

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

- 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.

Distributing to Clients

- 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.

ivi	ilege						
In	formation						
lse	r Name: g	uest01					
ev	el: L	lser					
M	ail:						
TP	Device List						
	P Device List						
	P Device List ent Query	🖊 Select All 🛛 🗮 Clei	ar All				
		Select All X Clea	ar All IP Address	Connection Type	Live View	Remote Playback	Event
	ent Query 🔻 🗸			Connection Type Passive Mode	Live View	Remote Playback	~
Eve	ent Query 🗸 Host Name GV-BX110D	Camera Name	IP Address				
Eve	ent Query V Host Name GV-BX110D GV-IPCAM1.3M	Camera Name Streaming1	IP Address 192.168.0.154	Passive Mode	V		~
Eve 1 2	ent Query V Host Name GV-BX110D GV-IPCAM1.3M GV-BX110D	Camera Name Streaming1 Camera1	IP Address 192,168.0.154 192.168.1.245	Passive Mode Active Mode		V V	~
Eve 1 2 3	Host Name GV-BX110D GV-IPCAM1.3M GV-BX110D DVR-BX120D	Camera Name Streaming1 Camera1 Camera1	IP Address 192.168.0.154 192.168.1.245 192.168.3.253	Passive Mode Active Mode Active Mode		V	~

- 8. Select the checkboxes to allow the user to access the Live View, Remote Playback and Event Query of the camera.
- 9. 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 the *GV-Recording Server User Manual*.

6.2 Connecting with the GV-System

You need to configure the GV-System to access video streaming from the GV-Recording Server. You can find the GV-System from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.

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

IP Device Setup						
Server address	Port	Cam. NO.	Status	Video Resolution	Brand	Add Camera
192.168.1.5	10000	No	Disconnect		GeoVision_GV-FE110_Series	Scan Camera
						Import Camera
						IP Device Utility
						Automatic Setup
						ОК



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

Select Brand	
Somer ID :	102 400 0 472
	192.168.0.153
HTTP Port :	80
User name :	admin
Password :	*****
Brand :	GeoVision 💌
Device :	Please select the brand of IP camera 💌
Message :	Close

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

GeoVision_GV-Video Gateway/GV-Recording Server	
Port 11000	Query Cancel Status : Standby
– Camera list Preview :	Record :
GeoVision_GV-Video Gateway(GeoVision_GV-MFD120_Se 💌	GeoVision_GV-Video Gateway(GeoVision_GV-MFD120_Se 💌
	Single Stream
	Close

- 4. Keep the default communication port of GV-Recording Server as 11000, or modify the value to match the TCP/IP port on the GV-Recording Server (Figure 5-21). Click the Query button to attempt connection to the GV-Recording Server. When the connection is established, the camera options will be displayed in the Preview and Record drop-down lists.
- 5. Select one camera to be connected. The selections in the Preview and Record drop-down lists will be the same.
- 6. Click Apply. The IP camera is added to the list.

 Click the listed camera, and select **Display Position** to map the IP camera to any channel on the GV-System. After the mapping is complete, the Status column will display "Connected".

Server address	Port	Cam.	NO. Statu	is Video Resolu	tion Brand	Add Camera
192.168.0.153 192.168.0.153 192.168.0.153	11000 11000 11000	No No No	Display posi Delete came	era	GeoVision_GV-Video Gatew GeoVision_GV-Video Gatew GeoVision_GV-Video Gatew	Scan Camera
192.168.0.153 192.168.1.5	11000 10000	No No	Change set Remote can Duplicate Ca	nera setting	GeoVision_GV-Video Gatew GeoVision_GV-FE110_Series	Import Camera
			Network Tin			IP Device Utility
			Recording c Automatical	odec format 🔹 🕨		Automatic Setup
		1				ОК

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-System, see GV-DVR User's Manual on Software DVD.

6.3 Connecting with the Multi View

You can find the Multi View from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.

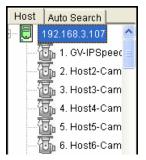
After installing the program, you need to log in the Multi View to access video streaming from the GV-Recording Server.

- 🔁 Login \mathbf{X} Please key-in username and password Login Host Edit GV-DVR System Device 🎒 Video Gateway/Record 🔻 Device User Name admin IP Address 192.168.3.107 Password VSS Port 11000 Save Password Forget Password Change Password 0K Cancel MultiView support 1024x768 or higher resolution screen and Cancel version 5.4 or later OK
- 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.

GeoUision

- 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.

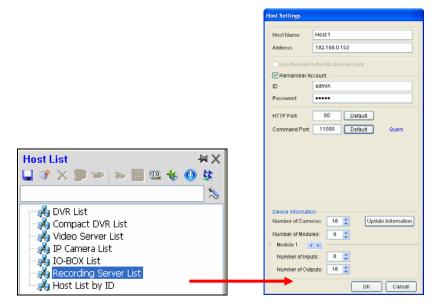


For details on the Multi View functions, see "Multi View Viewer", Chapter 8 Remote Viewing, *GV-DVR User's Manual* on Software DVD.

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 find the GV-Control Center from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.

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



- 2. Name the host of GV-Recording Server.
- 3. Type the IP address or domain name of the GV-Recording Server.
- 4. Type the client's username and password created on the GV-Recording Server.
- Keep the communication ports as default settings; otherwise modify them to match the HTTP (default value: 80) and TCP/IP (default value: 11000) ports on the GV-Recording Server.
- 6. 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.
- 7. Click **OK**. The host is created under the Recording Server List.

For details on GV-Control Center, see GV-Control Center User's Manual on Software DVD.

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 the *GV-Recording Server User Manual* for details.

You can find the Multicast from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.



 The host(s) in the multicast group is displayed automatically. If not, click the Configure button, select General Setup, select Multicast and ensure the settings are correctly configured.

- 2. Expand the Host folder and drag the cameras to the screen for display. If the host has already set a password, you will be promoted to enter it.
- To receive audio broadcasting, first ensure a speaker is properly installed. Then click the Configure button, select General Setup, select Receive broadcast audio, and ensure the broadcast IP address and port number are correctly configured.
- 4. To save the current settings of screen division and camera display for future use, click the **Configure** button, select **Video List Setup**, and select **Export**.

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

6.6 Connecting with the GV-VMS

You need to configure the GV-VMS to access video streaming from the GV-Recording Server. You can find the GV-VMS from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.

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

Device Set	tup							1000
Ð	☑ ID	Status	Server address	Port	Video Resolution	Bitrate	Brand	Settings
	✓ 1	•	192.168.0.75	10000	2560X1920(H264) / 320X240(H26	54) 2651 / 14 kbps	GeoVision_GV-BX520D/BX5300_Series	%
Add	Camera	•	192.168.0.93	11000	2560X1920(H264) / 320X240(H26	54) 2651 / 15 kbps	GeoVision_GV-Video Gateway(GV-BX5300	%
C	⊻ 3	•	192.168.0.93	11000	2560X1920(H264)	4239 kbps	GeoVision_GV-Video Gateway(GeoVision	2
¢∌								
÷≣								
" →								
	Active carr	nera count	: 3 Bi	trate(Main/Sub/1	otal): 9.5/0.0/9.5 Mbps	License(GV/Others) :	32/0 (MAX: 32)	

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

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

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

Query Server					
Port	11000	Q	Query Cancel	Status :	Standby
C <mark>amera l</mark> ist					
Preview :			Record :		
GeoVision_GV-V	/ideo Gateway(GV-BX5300)	0013e2ff02471_320X24(🗸	GeoVision_GV-Video Gateway	y(GV-BX5300)0013e	2ff02471_2560X15
			Sing	e Stream	Apply
					Close

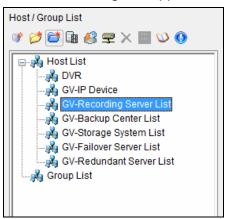
- Click the Query button to attempt connection to the GV-VideoGateway / GV-Recording Server. When the connection is established, the camera options will be displayed in the Preview and Record drop-down lists.
- 5. Select one camera to be connected. The selections in the Preview and Record drop-down lists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

For details on GV-VMS, see GV-VMS User's Manual on Software DVD.

6.7 Connecting with the Remote ViewLog

The files recorded on the GV-Recording Server can be played back remotely using the GV-Remote ViewLog. You can find the GV-Remote ViewLog from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.

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

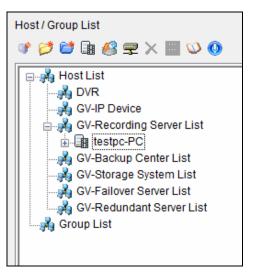


2. Click Add GV-Recording Server button. This dialog box appears.

Add Recording Server					
IP Address :	192.168.0.153				
Port:	5552 Default				
Remember Account					
ID :	Guest				
Password :	*****				
Group Name :	· ·				
OK Cancel					

- 3. Type the **IP address** of the GV-Recording Server. Use the default connection port 5552 or modify to match the settings on GV-Recording Server.
- 4. Type the **ID** and **Password** of a GV-Recording Server user account.
- 5. To add the GV-Recording Server to address book under a group, select a **Group Name** or type a new name.

6. Click **OK** and the GV-Recording Server is now added to the address book.



7. Select an IP video device listed under the GV-Recording Server and click the **Connect** button. The ViewLog player appears and recorded events will be listed for playback.

For details on GV-Remote ViewLog, see *Chapter 3 Video Playback*, *GV-DVR User's Manual* on Software DVD.

6.8 Connecting with the GV-Mobile Server

You need to configure the GV-Mobile Server to access video streaming from the GV-Recording Server. You can find the GV-Mobile Server from the Software DVD. Click **2. Install GeoVision Primary Applications** to access the installation program.

1. From the left menu, select a camera and click the **Stream Source** tab. This window appears.

🖳 GV-Mobile Server Professional	
MobileServer Physical Cameras	✓ Enable General
[01] GV-DVR/NVR [02] GV-DVR/NVR [03] GV-DVR/NVR	Camera Name Camera 5
[04] GV-DVR/NVR [05] GV-DVR/NVR [05] GV-DVR/NVR [06] GV-DVR/NVR [07] GV-DVR/NVR [09] GV-DVR/NVR [09] GV-DVR/NVR [10] GV-DVR/NVR [11] GV-DVR/NVR [11] GV-DVR/NVR	Stream Setting Stream Source Brand GV-Recording Ser IP Address 127.0.0.1 Command Port 11000
(13) GV-DVR/NVR (13) GV-DVR/NVR (14) GV-DVR/NVR (15) GV-DVR/NVR (15) GV-DVR/NVR (16) GV-DVR/NVR (17) GV-DVR/NVR (18) GV-DVR/NVR (18) GV-DVR/NVR	User Name Password Source Camera
[20] GV-DVR./NVR [21] GV-DVR./NVR [21] GV-DVR./NVR [22] GV-DVR./NVR [23] GV-DVR./NVR [23] GV-DVR./NVR [24] GV-DVR./NVR	Connect to stream 2 Conty decode key frame when source is IP device. Conty decode all frames upon motion detection
(25) GV-DVR/NVR (26) GV-DVR/NVR (26) GV-DVR/NVR (27) GV-DVR/NVR	Enable fisheye dewarping
[28] GV-DVR/NVR [29] GV-DVR/NVR [29] GV-DVR/NVR [30] GV-DVR/NVR [31] GV-DVR/NVR [32] GV-DVR/NVR [33] GV-DVR/NVR [34] GV-DVR/NVR	Show carnera name
(35) GV-DVR /NVR (36) GV-DVR /NVR (37) GV-DVR /NVR	Apply Exit

- 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 Software DVD.