

# **Quick Start Guide**

# **GV-Recording Server V1.2.4**



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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) 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 the *GV-Recording Server User Manual*.

## **Packing List**

• GV-USB Dongle

#### **Software License**

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

Free License	N/A
Max. License	128 channels
Increment for Each License	<ol> <li>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.</li> <li>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.</li> </ol>
Optional Combinations	N/A
Dongle Type	Internal

#### 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.* 



#### **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 128 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 128 channels with each channel set to 2048 x 1536 resolution, 20 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.

OS	64-bit Windows 7 / 8 / Server 2008 R2 / Server 2012
CPU	Core i7 2600, 3.4 GHz
Memory	16 GB Dual Channels
Hard Disk	1 GB (for installation)
Browser	Internet Explorer 8 to 11
	Mozilla Firefox 26.0
	Google Chrome 31.0.1650.63
	Safari 5.1.7
LAN	Gigabit Ethernet x 1~6
Hardware	Internal or external 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 Requirements*.
- 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 Requirements*.
- 3. Firefox, Google Chrome and Safari users can only access single live view with Quick Time player and cannot play back recorded files.

#### **Recommended Hard Disk Requirements**

The recommended hard disk requirements are listed as below.

			Motion	Ro	und-the-Clock	
Resolution	Frame rate	Codec	Max. channel per hdd	Max. ch per hdd and required hdd capacity	Hdd capacity required (Recording 128 ch, 24 hr)	Hdd needed for 24 hr recording (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

**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.

## **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

#### **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.

	Frame Codec		Gigabit Network	Cards Required
Resolution	rate	Codec	Receiving 128 channels	Transmitting 300 channels
1.3 MP	30 fps	H.264	Gigabit network card x 1 (up to 128 ch / card)	Gigabit network card x 2 (up to 150 ch / card)
2.0 MP	30 fps	H.264	Gigabit network card x 2 (up to 64 ch / card)	Gigabit network card x 4 (up to 75 ch / card)
3.0 MP	20 fps	H.264	Gigabit network card x 1 (up to 128 ch / card)	Gigabit network card x 2 (up to 150 ch / 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.

#### 1.3 MP / 3 MP Source Video



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

#### 2 MP Source Video



GV-Recording Server + 6 Network Cards assigned on differnet networks

#### **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.



## Installation

## Installing the GV-Recording Server

- 1. 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.
- 2. 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.
- 3. 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.
- 4. To download and install .Net Framework 3.5, go to: http://www.microsoft.com/en-us/download/details.aspx?id=21.

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

#### Starting the GV-Recording Server

- 1. Right-click the GV-Recording Server icon system tray, 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.

🖉 Login - W	indows Internet Explorer	
<b>GO</b> •	🖪 http://192.168.0.153/Geo_Login.php: 🛛 🐓 🔀 🌆 Live Search	P -
🚖 Favorites	Login	
	Recording Server	~
	Language : English 🗸 🗸	
	ID :	
	Password :	
	Enter the characters 2932 shown in the image :	
	Remember my account and password.	
	Login	
	- Forget Password	~

- 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:

- 1. To enable the image updating in 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.
- 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.



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.

#### **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.

A S	Search					
	work rrface Card:	Intel(R) PRO/1000	CT Network Cor	nnection - Packet 9	ichedi 🕶	
7	Host Name 🔺	Device Name	IP Address	Mac Address	Number of camer	
V	GV-PT110D	GeoVision_GV-P	192.168.1.102	0013e202331b	1	1
1	GV-PTZ010D	GeoVision_GV-P	192.168.3.32	0013e20232df	1	
V	GV-PTZ010D	GeoVision_GV-P	192.168.1.104	0013e20232de	1	
V	GV-PTZ010D	GeoVision_GV-P	192.168.3.137	0013e2023310	1	~
tems	selected : 89					

- 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	Camera List					
🕂 Add 🕶	🗃 IP Device List 🔍 Sear	ch 🖉 Edit 👻 🗶 D	ielete 🔘 Ma:	k Camera Number	32	<b>v</b> (j)
Chann	el Display Name	Host Name	Camera Name	IP Address	Port	Device Name
1	GV-IPCAM1.3M	GV-IPCAM1.3M	Camera1	192.168.1.13	10000	GeoVision_GV-IP Ca
2	Cloud-xp1-Camer	Cloud-xp1	Camera2	192.168.3.38	11000	GeoVision_GV-Video
3	Cloud-xp1-Camer	Cloud-xp1	Camera3	192.168.3.38	11000	GeoVision_GV-Video
4	GV-IPSpeedDom	GV-IPSpeedDome	Camera1	192.168.3.184	10000	GeoVision_GV-SD010

- 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 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.

#### **Assigning Storage Paths**

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

🕂 Add 🔀 Delete	Camera Number ~ Velect			
E Storage1	G G Working Camera List			
≡ Storage2	GV-IPCAM1.3M-Camera1			
≡ Storage3	Cloud-xp1-Camera2			
Storage4     Storage4	Cloud-xp1-Camera3			
	GV-IPSpeedDome-Camera1			

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

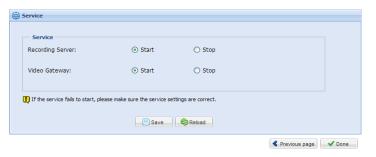
🕂 Add 🔀 De	Hete		Camera Number ~ 🗸 Select
E Storage1			🖃 💼 🔲 Working Camera List
E Storage2			GV-IPCAM1.3M-Camera1
Storage3			Cloud-xp1-Camera2
E Storage4			Cloud-xp1-Camera3
			GV-IPSpeedDome-Camera1
🕂 Add 🔀 Dek	ete		
🕇 Add 🛛 🗶 Dek Storage Path	ete Disk Space	Free Space	
		Free Space 4.77GB	

- 3. In the Working Camera List, 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:** For the suggested maximum number of channels in a hard disk, see *Recommended Hard Disk Requirements* in the Quick Start Guide.

#### **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.

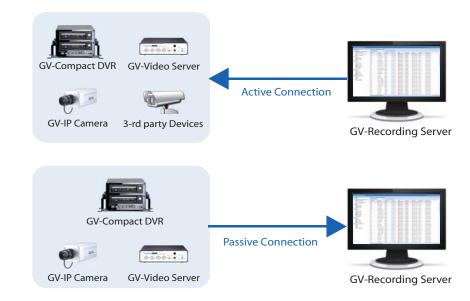
🖷 Camera Con	nection Informatio	n							
Update Period(sec	.) 5 🗸	🔍 Preview 🗄	Multi Windows						
Channel 🔺	Host Name	Camera Name	IP Address	Status	Write Speed	Start Time	Elapsed Time	Record Policy	
001	Axis 206	Camera1	<u>192.168.0.16</u>	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	-
002	Axis 207MW	Camera1	<u>192.168.0.16</u>	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	=
003	Arecont_AV1300	Camera1	<u>192.168.0.16</u>	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	-
004	Sony_DF50N	Camera1	192.168.0.16	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	
005	Sony_DF80N	Camera1	192.168.0.16	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	
006	Sony_DF85N	Camera1	192.168.0.16	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	
007	VIVOTEK FD8161	Camera1	192.168.0.16	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	
008	VIVOTEK FD8361	Camera1	192.168.0.16	\varTheta Recording 🔍	248.9Kbps	2021/01/27 15:24	00:01:12	Round the Clock	-
📀 Status : Loadi	ing data succeeded.							2011/1/27 3:2	5:44 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.

**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*.

## ) 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. Two-way audio communication is only supported for GV-IP devices through active connection.

#### **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.
- 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 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		
Recycle:	Yes	0.	
	O No		
Backup Settings:	🗹 Enable		
	Backup Path:	d:\ERS\SystemLog	Browse
	Time Setting:	1:00 ¥	
Allow Geo IP Device L			
User Name:	admin		
Password:			

3. 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.

() () () () () () () () () () () () () (		
🖕 Favorites 🛛 🏫 🌄 Suggested Sites 🔻 🔊 Web	Slice Gallery •	
Geovision GV-BX1100 Web-Manager     GeoUlsion     Video and Motion	Connection 1 Connection 2 , Video Gateway / Recording S	erver
KO Control     Events and Alerts     Email	In this section you can configure the connection Video Gateway server / Recording Server	n to Video Gateway and tasks to perform
Comm     Comm     Common     Conter V2     Source     Voice Satewar/Recording Server     VoiceSatewar/Recording Server     VoiceSatewar/Recording Server     VoiceSatewar/Recording Server     Monitoring     Recording Schedule     Remote Viewidg     Network     Management     Logout	Advate Link Host name or IP Address: Port number: User Name: Password Crease input trigger messages from Enable schedule mode	192 155.0 67 50000 admin Select all Streaming 1 Streaming 2 Gelect all Input 1

- 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.
- 5. 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. Connected Time: Wed Jan 19 15:52:38 2011

To start passive connection on GV-Recording Server:

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

Wo	orking Ca	nera List						
+	Add 🕶 🛅	🖁 IP Device List 🔍 S	Gearch 🖉 Edit 👻 🖁	🕻 Delete 💿 🛛 Ma	x Camera Number 32	~	1	
	Channel	Display Name	Host Name	Camera Name	IP Address	Port	Device Name	
V	1	GV-FE420-Came	GV-FE420	Camera1	192.168.3.199	10000	GeoVision_GV-FE42	-
	2	VS04A-Joyce-C	VS04A-Joyce	Camera2	192.168.1.21	10000	GeoVision_GV-VS04A	
	3							
	4	VS04A-Joyce-C	VS04A-Joyce	Camera4	192.168.1.21	10000	GeoVision_GV-VS04A	=
	5	DVR-FE110-Cam	DVR-FE110	Camera1	192.168.2.110	10000	GeoVision_GV-FE11	
	6	Demo-GV-FE110	Demo-GV-FE110	Camera1	192.168.1.168	10000	GeoVision_GV-FE11	
	7	Demo-GV-MFD11	Demo-GV-MFD110	Camera1	192.168.1.164	10000	GeoVision_GV-MFD1	-
	8	Demo-GV-PT110	Demo-GV-PT110D	Camera1	192.168.2.173	10000	GeoVision_GV-PT110D	
	9							
	10							
	11							
	12							
	13							
E	14							~

2. Click the **IP Device List** button **P Device List** on the Working Camera List. The passive connection is listed in the **Host List**.



- 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.

# ) 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, and GV-Control Center can be configured to receive streaming from GV-Recording Server.

## 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.

Jser Account			
🕂 Add 🗙 Dele	ete - 🦞 Change	Password 🚾 E-Mail 🤌 Privilege	
Jser Name 🔺	Hint	E-Mail	
Level: Superv	visor		
admin			
Level: User			

2. Click the **Add** button **+**Add . 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.

To set access rights, select a user account and click Privilege
 Privilege . The cameras listed in the IP Device List are displayed.

vi	lege						
In	formation						
sei	r Name: gi	uest01					
eve	el: U	ser					
-M:	ail:						
IP	Device List						
		Select All 🔀 Clea	r All				
		Select All 🗙 Clea	r 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	Camera Name	IP Address				
Eve	ent Query 🗸 🗸 Host Name GV-BX110D	Camera Name Streaming1	IP Address 192.168.0.154	Passive Mode	V	▼	^
Eve	Host Name GV-BX110D GV-IPCAM1.3M	Camera Name Streaming1 Camera1	IP Address 192.168.0.154 192.168.1.245	Passive Mode Active Mode	V V	V V	^
1 2 3	Host Name GV-BX110D GV-IPCAM1.3M GV-BX110D	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 V 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.* 

#### Connecting with the GV-System

You need to configure the GV-System to access video streaming from the GV-Recording Server.

 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.

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
						OK

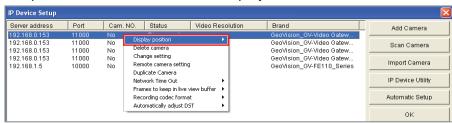
2. Click the Add Camera button. This dialog box appears.

	Server IP :	192.168.0.153	•
	HTTP Port :	80	415
	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(GV-IPSpeedDome-Ca 💌	GeoVision_GV-Video Gateway(GV-IPSpeedDome-Ca  Apply
	Close

- 4. Keep the default communication port of GV-Recording Server as 11000, or modify 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-System. 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 more details, see *Chapter 7.1 Connecting with GV-System* in the *GV-Recording Server User Manual.* 

#### **Connecting with the Multi View**

You can download Multi View through the Web interface of GV-Recording Server. In the left menu, click **Advanced Query**, select **Utility Download** in the window that pops up, and click the **Download** button of

#### DMMultiView.

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.



## **Connecting with the GV-Control Center**

You need to configure the GV-Control Center to access video streaming from the GV-Recording Server.

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

ppouloi	Host Settings
	Host Name: Host 1
	Address: 192.168.0.153
	Use Remote Authentication Account
	Remember Account
	ID admin
	Password •••••
Host List	HTTP Port: 80 Default
	Command Port: 11000 Default Query
DVR List Compact DVR List Video Server List IP Camera List IO-BOX List Recording Server List	
Host List by ID	Device Information Number of Cameras: 16  Update Information
	Number of Modules: 9
	Module 1
	Number of Inputs: 8
	Number of Outputs: 16
	OK Cancel

- 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.

## **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.

In the left menu, click **Advanced Query** and in the window that pops up, select **Utility Download**. Click the **Download** button of **GVMulticastSetup** to download the program.



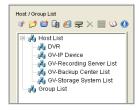
- 1. The host(s) in the multicast group is displayed automatically. If not, click the **Configure** button, select **General Setup**, select **Multicast** and ensure the settings are correctly configured.
- 2. Expand the Host folder and drag the cameras to the screen for display. If the host has already 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**.

## Connecting with the Remote ViewLog

You can download Remote ViewLog program through the Web interface of GV-Recording Server. In the left menu, click **Advanced Query** and in the window that pops up, select **Utility Download**. Click the **Download** button of **Remote ViewLog** to download the program.

After installing the program, you need to configure the Remote ViewLog to access recorded files from the GV-Recording Server.

1. 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 **a**. This dialog box appears.

Add Recording Serv	ver 🛛
IP Address :	192.168.0.153
Port :	5552 Default
Remember Ac	count
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.

🗉 💏 Host	
p D	V-IP Device
🗖 💏 G	V-Recording Server Lis Test177-PC
	V-Backup Center List
G	V-Storage System List
🛃 Grou	p List

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

## **Connecting with the GV-Mobile Server**

You need to configure the GV-Mobile Server to access video streaming from the GV-Recording Server.

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

🖳 GV-Mobile Server Professional	
MobileServer	Enable
Physical Cameras	General
01] GV-DVR/NVR	
[02] GV-DVR/NVR	Camera Name 1
[03] GV-DVR/NVR	
[04] GV-DVR/NVR	Stream Setting
[05] GV-DVR/NVR [06] GV-DVR/NVR	Stream Source Stream 1 Stream 2
[00] GV-DVR/NVR	Brand GV-Recording Ser
[07] GV-DVR/NVR	Brand GV-Recording Ser 🔻
[09] GV-DVR/NVR	IP Address 127.0.0.1
[10] GV-DVR/NVR	
[11] GV-DVR/NVR	Command Port 11000
[12] GV-DVR/NVR	User Name
[13] GV-DVR/NVR	
	Password
	1
	Source Camera
🛛 🍚 [17] GV-DVR/NVR	
(19) GV-DVR/NVR	
[20] GV-DVR/NVR	Connect to stream 2
[21] GV-DVR/NVR [22] GV-DVR/NVR	Only decode key frame when source is IP device.
[22] GV-DVR/NVR	
[24] GV-DVR/NVR	Decode all frames upon motion detection
[25] GV-DVR/NVR	
[26] GV-DVR/NVR	Enable fisheye dewarping
[27] GV-DVR/NVR	
[28] GV-DVR/NVR	Show camera name
[29] GV-DVR/NVR	
- G30] GV-DVR/NVR	
Matrix Cameras	
Matrix 1	
Matrix 2	
Matrix 3	Apply Exit
Matrix 4	

- 2. Type a name to describe the camera in the **Camera Name** field (Max. 31 characters).
- 3. Select GV-Recording Server for Brand.
- 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**.



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