

# **Quick Start Guide**



GeoVision

The Vision of Security



Thank you for purchasing GV-NVR System Lite V2. This guide is designed to assist the new user in getting immediate results from the GV-NVR System Lite V2. For advanced information on how to use the GV-NVR System Lite V2, please refer to *GV-NVR System Lite V2 User's Manual* (GV-Desktop < **Program** button < **User Manual**).

2013/10 English NVRLV2BV10-QG-B



#### © 2013 GeoVision, Inc. All rights reserved.

Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of GeoVision.

Every effort has been made to ensure that the information in this manual is accurate. GeoVision, Inc. makes no expressed or implied warranty of any kind and assumes no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages arising from the use of the information or products contained herein. Features and specifications are subject to change without notice.

GeoVision, Inc. 9F, No. 246, Sec. 1, Neihu Rd., Neihu District, Taipei, Taiwan Tel: +886-2-8797-8377 Fax: +886-2-8797-8335 http://www.geovision.com.tw

Trademarks used in this manual: *GeoVision*, the *GeoVision* logo and GV series products are trademarks of GeoVision, Inc. *Windows* and *Windows XP* are registered trademarks of Microsoft Corporation.

October 2013



# **Preface**

Welcome to the GV-NVR System Lite V2 (Rev. B) Quick Start Guide.

The GV-NVR System Lite V2 (Rev. B) has two models:

Models
GV-NVR Lite V2 (Rev. B) 1 TB
GV-NVR Lite V2 (Rev. B) 1.5 TB

This Quick Start Guide is designed for the Revision B of GV-NVR System Lite V2. It provides the basic instructions to guide you through the installation and use of the GV-NVR System Lite V2.

# **GeoVision**

# Contents

1.	Basic Installation	1
2.	Packing List	3
3.	Supported IP Cameras and Dongle Options	4
	GV-NVR System Lite V2 Dongle	7
4.	Mounting Method	8
	Standing Mount	8
	Monitor Mount	8
5.	Basic Configurations	10
	Assigning the IP Address Automatically	10
	Setting Up Third-Party IP Cameras	10
	Changing the IP Address of GV IP Cameras	12
	Changing IP Address of GV-NVR System Lite V2	12
	Changing Codec and Resolution of GV IP Camera	14
6.	Main Screen	15
	Formatting the External Hard Drive	16
	Adding the External Hard Drive to the Recording Path	16
	Renaming the Camera	17
	Choosing Recording Mode	17
7.	Recording Schedule Setup	18
8.		
	Video Playback	19
	Video Playback	
		20
9.	Playback Controls	20 20
9.	Playback Controls	20 20 <b>21</b>



# 1. Packing List

Important: Please keep the original carton and all packing materials for future shipping need.

- GV-NVR System Lite V2 x 1
- AC Power Cord x 1
- Power Adapter x 1
- Standing Mount Kit (1 Base Stand and 1 Base Stand Screw included) x 1
- VESA Monitor Mount Kit (1 Stand Screw and 4 Fix Screws included) x 1
- GV-NVR System Lite V2 Quick Start Guide x 1
- GV-NVR Lite V2 Dongle for third-party IP cameras (optional)

# 2. Supported IP Cameras and Dongle Options

The GV-NVR Lite V2 supports connections to GV-IP devices and third-party IP cameras. You can adopt one of the following combinations:

#### IP cameras excluding GV-Fisheye cameras

- Connect up to 16 GV-IP cameras. See Section A.
- Connect up to 8 third-party cameras (of 640 x 480 resolution, H.264). See Section C.
- Connect up to 10 third-party cameras (of 1280 x 720 resolution, H.264). See Section C.
- Connect up to 10 third-party cameras (of 1280 x 1024 resolution, H.264). See Section C.
- Connect up to 8 third-party cameras (of 1920 x 1080 resolution, H.264). See Section C.
- Connect up to 2 third-party cameras (of 2048 x 1536 resolution, H.264). See Section C.
- Connect 1 third-party camera (of 2048 x 1944 resolution, H.264). See Section C.
- Connect 1 third-party camera (of 2560 x 1920 resolution, H.264). See Section C.
- Connect up to 8 cameras from GV-IP cameras and third-party IP cameras (of 640 x 480 resolution, H.264). See **Section A and C**.
- Connect up to 10 cameras from GV-IP cameras and third-party IP cameras (of 1280 x 720 resolution, H.264). See **Section A and C**.
- Connect up to 10 cameras from GV-IP cameras and third-party IP cameras (of 1280 x 1024 resolution, H.264). See **Section A and C**.
- Connect up to 8 cameras from GV-IP cameras and third-party IP cameras (of 1920 x 1080 resolution, H.264). See **Section A and C**.
- Connect 2 cameras from GV-IP cameras and third-party IP cameras (of 2048 x 1536 resolution, H.264). See **Section A and C**.
- Connect 1 camera from GV-IP cameras and third-party IP cameras (of 2048 x 1944 resolution, H.264). See **Section A and C**.
- Connect 1 camera from GV-IP cameras and third-party IP cameras (of 2560 x 1920 resolution, H.264). See **Section A and C**.



#### IP cameras including GV-Fisheye cameras

- **GV-Fisheye Camera 1.3 MP** + one of the following options:
  - GV-IP Camera x 15
  - Third-party Camera (VGA) x 6
  - Third-party Camera (1 / 1.3 / 2 MP) x 8
  - Third-party Camera (3 / 4 / 5 MP) x 1
- **GV-Fisheye Camera 2 MP** + one of the following options:
  - GV-IP Camera x 15
  - Third-party Camera (VGA) x 5
  - Third-party Camera (1 / 1.3 / 2 MP) x 6
  - Third-party Camera (3 / 4 / 5 MP) x 1
- **GV-Fisheye Camera 4 MP** + one of the following options:
  - GV-IP Camera x 11
  - Third-party Camera (VGA) x 5
  - Third-party Camera (1 / 1.3 / 2 MP) x 4
  - Third-party Camera (3 / 4 / 5 MP) x 1
- **GV-Fisheye Camera 5 MP** + one of the following options:
  - GV-IP Camera x 8
  - Third-party Camera (VGA) x 3
  - Third-party Camera (1 / 1.3 / 2 MP) x 3
  - Third-party Camera (3 / 4 / 5 MP) x 1

#### Analog cameras through GV-Compact DVRs and GV-Video Servers

- Connect up to 14 analog cameras through GV-Video Servers (of 704 x 480 resolution, H.264). See Section D.
- Connect up to 14 analog cameras through GV-Video Servers (of 352 x 240 resolution, H.264). See Section D.
- Connect up to 10 analog cameras through GV-Compact DVR V3 Series (of 704 x 480 resolution, de-interlace). See **Section D**.

# **GeoVision**

		Dual-stream	Resolution	Max. Frame	Total Frame	
Section	n A	Stream 1	Stream 2	Rate	Rate	
	D1	704 x 480 / 704 x 576	352 x 240 / 352 x 288	30 / 25 fps	480 / 400 fps	
	1 MP	1280 x 720	448 x 252	15 fps	240 fps	
	1.3 MP	1280 x 1024	320 x 256	15 fps	240 fps	
GV-IP Camera	2 MP	1920 x 1080	448 x 252	10 fps	160 fps	
	3 MP	2048 x 1536	2048 x 1536 320 x 240		160 fps	
	4 MP	2048 x 1944	320 x 240	10 fps	160 fps	
	5 MP	2560 x 1920	320 x 240	10 fps	160 fps	
Section	n B	Single Stream Re	solution (H.264)	Max. Frame Rate	Total Frame Rate	
	1.3 MP	1280 x 10	)24 (4:3)	7 fps	63 fps	
	2 MP	1440 x 13	376 (4:3)	7 fps	21 fps	
GV-Fisheye	4 MP	2048 x 19	944 (4:3)	6 fps	12 fps	
	5 MP	2560 x 19	920 (4:3)	6 fps	6 fps	
Section C		Single Stream Re	solution (H.264)	Max. Frame Rate	Total Frame Rate	
	VGA	640 x	480	30 fps	240 fps	
	1 MP	1280 >	< 720	15 fps	150 fps	
	1.3 MP	1280 X	1024	15 fps	150 fps	
Third-Party Camera	2 MP	1920 X	1080	10 fps	80 fps	
	3 MP	2048 x	1536	10 fps	20 fps	
	4 MP	2048 X	1944	10 fps	10 fps	
	5 MP	2560 X	2560 X 1920 10 fps		10 fps	
Castia	- D	Dual-stream	Dual-stream Resolution Max. Fra		Total Frame	
Section	טוו	Stream1	Stream 2	Rate	Rate	
GV-Video	GV-VS11 / GV-VS14	704 x 480	352 x 240	30 fps	420 fps	
Server V2	GV-VS12 / GV-VS04H	352 x 240	N/A	30 fps	420 fps	
GV-Compact DVR V3		704 x 480 De-interlace	N/A	30 fps	300 fps	

The number of supported channels is based on the following resolution:



#### Note:

GV IP cameras

- 1. GV IP cameras (excluding GV Fisheye), stream 1 is used for recording and single view, and stream 2 for live viewing in multi divisions.
- 2. The default resolution for stream 1 is set at its maximum. Several resolution, aspect ratio and codec options are available for each IP camera, except GV-Fisheye cameras.
- 3. It is highly recommended to set the panel resolution to 1280 x 1024 (default) or lower when connecting to GV Fisheye to get better CPU performance.

#### Third-party cameras

4. For third-party cameras, be sure the resolution and codec are configured as specified above to achieve the best performance and maximum frame rate. To find the supported third-party cameras, go to <u>http://www.geovision.com.tw/english/4\_21.asp</u>.

#### Frame Rate

- 5. Total Frame Rate equals to the Max. Frame Rate multiplies the supported channel numbers.
- 6. If you record the images, access live view and see the playback simultaneously, the CPU loading will increase massively. Therefore, the frame rates may drop.

### **GV-NVR System Lite V2 Dongle**

A dongle is required when connecting to third-party IP cameras. Dongle Options: 2, 4, 6, 8 or 10 IP channels.



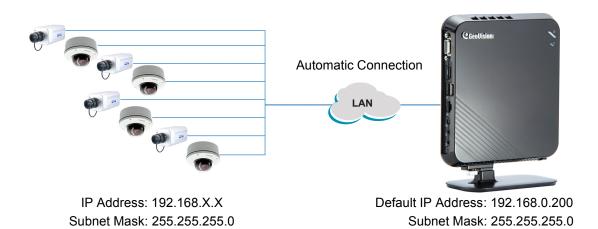
# 3. Basic Installation



- 1. Connect the speakers to the GV-NVR System Lite V2.
- 2. Connect the microphone to the GV-NVR System Lite V2.
- 3. Optionally connect the GV-USB Dongle for third-party IP cameras' connection.
- 4. Using the USB cables, connect a keyboard and a mouse to the GV-NVR System Lite V2.
- 5. There are two ways to connect the monitor to the GV-NVR System Lite V2.
  - Using the VGA cable, connect the computer monitor to the GV-NVR System Lite V2.
  - Using HDMI cable, connect the HDTV to the GV-NVR System Lite V2.
- 6. Using the RJ-45 cable, connect a switch or a hub to the GV-NVR System Lite V2.
- 7. Using the supplied power adapter, connect the GV-NVR System Lite V2 to the power outlet.



For automatic setup, connect GV IP cameras under the same LAN with the GV-NVR System Lite V2. After the power is turned on, the GV-NVR System Lite V2 will search for GV IP cameras with the default IP address, ID and password. The GV IP cameras will be displayed on the main screen without any further configuration.



- For automatic setup, see *5. Basic Configuration* in the *Quick Start Guide*.
- For manual setup, see 3.4 Setting Up IP Cameras in the GV-NVR System Lite V2 User's Manual.
- To connect third-party IP cameras, see *Setting Up Third-Party IP Cameras* in the *Quick Start Guide*.

**IMPORTANT:** For automatic setup, make sure all the devices (GV IP cameras and GV-NVR System Lite V2) are connected under the same LAN before you turn on the power of GV-NVR System Lite V2.

**Note:** The monitor you use must support screen resolution of 1280 x 1024 and display color of 32 bits. And the HDTV must be capable of Full HD 1080P resolution.



# 4. Mounting Method

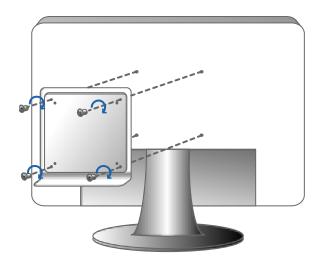
### **Standing Mount**



- 1. Attach the base stand to the GV-NVR System Lite V2.
- 2. Tighten the base stand screw.

#### **Monitor Mount**

1. Using the 4 fix screws, tighten the VESA monitor mount on the back of the computer monitor.





2. Peel off the liner from the Velcro.



3. Attach the GV-NVR System Lite V2 to the VESA monitor mount and tighten the stand screw.



# 5. Basic Configurations

After you have installed the necessary cables and IP cameras, you are ready to access the channels on GV-NVR System Lite V2. For details, see *3.4 Setting Up IP Cameras* in the *GV-NVR System Lite V2 User's Manual*.

### Assigning the IP Address Automatically

1. Power on the GV-NVR System Lite V2. The GV IP cameras with the default IP address (192.168.0.10), ID (admin) and password (admin) are detected, this message appears.

The GV-System will assign unused IP address on the LAN to GV-IP Devices.					
···· - , -··· ··· ··· ··· ··· ··· ··· ··					
OK	Cancel				

2. Click **OK**. The GV-NVR System Lite V2 will assign unused IP addresses and connect to each of the GV IP camera in the form of 192.168.X.X. The channel will then be displayed on the main screen.

#### Note:

- 1. You can change the automatically assigned IP address of a GV IP camera. See *Changing the IP address of the GV IP Cameras* later in the *Quick Start Guide*.
- 2. If you select **Cancel** for manual IP assignment, see 3.4 Setting Up IP Cameras in the GV-NVR System Lite V2 User's Manual.

### Setting Up Third-Party IP Cameras

- 1. On the main screen, click the **Configure** button, select **System Configure**, and click **IP Camera Install**.
- 2. Click the Scan Camera button.
- Click the Start Scan button. The IP devices under the same LAN with the GV-NVR System Lite V2 will be searched and listed.
- 4. Double-click the IP camera.
- 5. Type the ID and password of the IP camera and click OK.



- 6. Click **Query** to detect the IP camera again. The settings accessible on this interface may vary depending on the camera brand.
  - **Port:** Video streaming port number.
  - **Stream Type:** The GV-NVR System Lite V2 only supports a single stream when connecting to a third-party IP camera.
  - **Codec Type:** It is highly recommended to choose H.264 codec type for best performance.

EtroVision_EV6250A	K)
Query	
Dual Streams Query Cancel Status :	
Camera list	
Select	
Port	
Port 80	
Stream Type	_
<ul> <li>Single Stream</li> <li>Dual Streams</li> </ul>	
Codec Type	
Preview and Record : Stream1	Ĩ
Record :	
Apply	]

- 7. Click **Apply**. The IP camera will be added to the IP Device Setup window.
- 8. Click the listed camera, and select **Display position** to map the IP camera to a channel on the GV-NVR System Lite V2.

Server address	Port	Cam. NO.	Status	Video Resolution	Brand		Add Camera
192.168.2.152	80	No	Disconnect		EtroVicion	EV6250A	
192.168.2.12	10000	No	Disconnect	Display position Delete camera Change setting Remote camera setting Change Codec Setting Duplicate Camera Network Time Out Frames to keep in live vie Recording codec format GIS Setting	► ew buffer ►	.GV-MFD130D_S	Scan Camera Import Camera IP Device Utili Automatic Setu OK

9. The Status column now should display "Connected". Click **OK**. The channel should be displayed on the main screen.

# 

### **Changing the IP Address of GV IP Cameras**

1. On the GV-Desktop, click the **Programs** button and select **VS Utility**. The GV IP Device Utility appears and automatically detects the GV IP cameras on the LAN.



- 2. Double-click one camera in the list.
- 3. Type the user name and password of the GV IP camera. By default both values are **admin**.
- 4. Type the new IP information.
- 5. Click **OK**. The new IP address is updated to the camera.

### Changing IP Address of GV-NVR System Lite V2

The GV-NVR System Lite V2 has a default IP address of 192.168.0.200 for connecting with GV IP cameras automatically. You can also change the IP address of GV-NVR System Lite V2 by following the steps below.

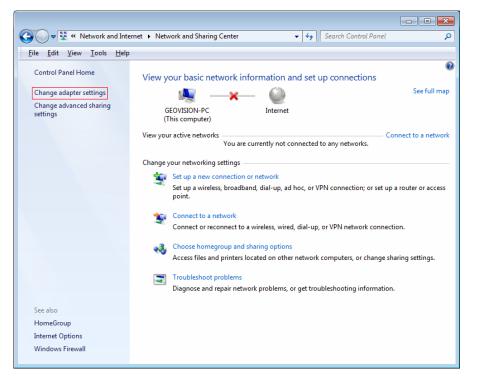
**Note:** After you change the IP address of GV-NVR System Lite V2, you should also change the IP addresses of GV IP cameras to the same network; otherwise, the GV-NVR System Lite V2 will not detect the cameras for automatic connection.



1. On the GV-Desktop, click the **Programs** button, and select **Control Panel**.

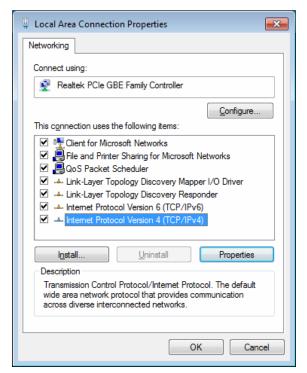


- 2. Type the ID and password. The default ID and password are "**0000**". The Control Panel window appears. Click the **View network status and tasks** option under the **Network and Internet** setting.
- 3. Click the Change the adapter settings option.



# 

4. In the Local Area Connection Properties dialog box, select Internet Protocol (TCP/IP) and click Properties.



5. Select **Use the following IP address**, type the new IP information, and click **OK** to finish the setting.

### **Changing Codec and Resolution of GV IP Camera**

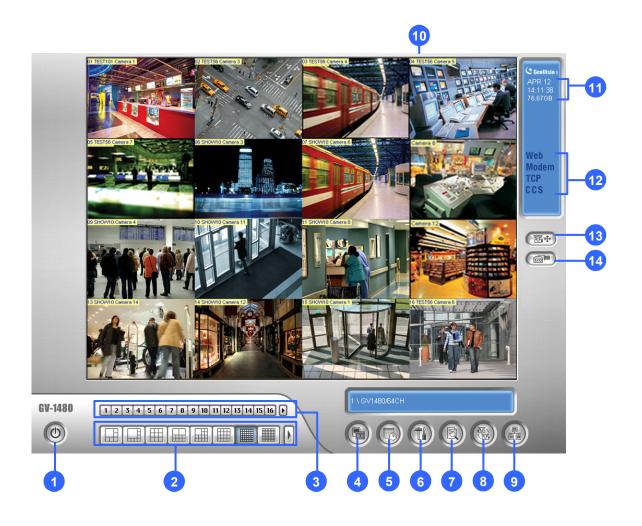
Several resolution, aspect ratio and codec options are available for GV IP cameras, except GV-Fisheye cameras.

- 1. On the main screen, click the **Configure** button, select **System Configure**, and click **IP Camera Install**.
- 2. Click the listed camera, and select **Change live view codec**, **Change record codec** or **Change Resolution**.

IP Device Setup						
IP Device Setup Server address 192.168.3.237 192.168.3.234	Port 10000 10000	Cam. NO. Display positio Delete camera Change settin Change Resol Remote camer Duplicate Cam Network Time	g ution 'a setting era	Video Resolution	Brand GeoVision_GV-MFD220_Seri GeoVision_GV-MDR520	Add Camera Scan Camera Import Camera IP Device Utility
		On Demand Di Change live vi Change record	splay ew codec d codec p in live view buffe ec format			Automatic Setup



### 6. Main Screen



- 1. Logout / Exit / Minimize
- 2. Select screen divisions
- 3. Select a camera for full screen mode
- 4. Start/stop recording
- 5. Set up recording schedules
- 6. Access system settings
- 7. Access ViewLog to play back video

- 8. Start/stop screen rotation
- 9. Access remote applications
- 10. Camera Name
- 11. Date / Time / Storage Space
- 12. Status indicators for remote applications
- 13. Click to call up PTZ Control Panel
- 14. Click to call up I/O Control Panel

# 

### Formatting the External Hard Drive

The GV-NVR System Lite V2 records audio and video to the internal hard drive. You can also use an external hard drive to expand recording space. You must format the hard drive before you can use it.

To format an external hard drive, use Windows' **Disk Management**. To start initializing and formatting an external hard drive, click the **Programs** button on the GV-Desktop and select **Disk Management**. The feature is protected by an ID and a password. The default ID and password are "**0000**". For details to format an external hard drive, see 3.5 *Formatting the Hard Drive* in *GV-NVR System Lite V2 User's Manua*l (GV-Desktop < **Program** button < **User Manual**).

### Adding the External Hard Drive to the Recording Path

Before you start recording to the external hard drive, you need to add the formatted external hard drive to the recording path.

**Note:** The default recording path for external hard drives starts from E:\

- 1. On the GV-Desktop, click the **Programs** button, and select **Hot Swap HDD Tool**.
- 2. Right-click the hard drive in the MediaMan Tools window, select **Add for recording**, and then select the storage group from the drop-down list. Storage 1 is created by default.
- 3. Click **OK** to automatically configure the hard drive to the recording path.
- 4. In the MediaMan Tools window, if the hard disk drive is successfully added to store data, its Status field will display "*Standby*".

🥗 Driver - MediaManTools			
E <u>x</u> it <u>V</u> iew <u>I</u> ools			
Driver : C:\ Free Space : 508.04 MB Total Space : 3.91 GB Status : Unused	Driver : D:\ Free Space : 14.50 GB Total Space : 19.52 GB Status : Standby	Driver : E:\ Free Space : 33.56 GB Total Space : 39.07 GB Status : Standby Display details	Status field

5. To add another formatted hard disk drive for storage, repeat the above steps.

For details, see 3.6 Adding the External Hard Drive to the Recording Path in GV-NVR System Lite V2 User's Manual (GV-Desktop < **Program** button < **User Manual**).



### **Renaming the Camera**

You can give a new name for each camera.

- 1. On the main screen, click the **Configure** button, select **System Configure**, and click **Camera Configure**.
- 2. In the Camera Name field, type a new name for the camera.
- 3. Click OK.

### **Choosing Recording Mode**

You can set each camera's recording mode individually for Motion Detection, Round-the-Clock or Day-Night.

- 1. Click on the main screen, click System Configure and select Camera Configure.
- 2. From the Camera Name drop-down list, select one camera.
- 3. In the Rec Control field, select **Rec Video**, and use the drop-down list to select **Motion Detect**, **Round-the-Clock** or **Day-Night**.

Camera Configure	
Camera Name	Camera Lens General
Rec Control 🚰 🔽 Rec Video: Round-the-clock 🔍 Rec. Frame Rate Setting: 💽	Video Attributes       Brightness:       103       Contrast:       154       Saturation:       128       Hue:       128       Default
Motion Detection Motion Sensitivity: 9.5 Mask Filter: Invoke Alarm: Notify Invoke to Send Alerts: Output Module: Register Motion Event Video Lost / Connection Lost Video Lost / Connection Lost	
Output Module: Mod. 1 💌 Pin. 1 👻	OK Cancel

4. Click OK.

For details on setting camera properties, refer to *Adjusting Individual Camera*, Chapter 1, *DVR User's Manual* (GV-Desktop < **Program** button < **User Manual**).



# 7. Recording Schedule Setup

You can program recording to turn on and off at a specific time each day.

- 1. Click on the main screen, and select **Schedule Edit**.
- 2. Select or enter the Start and End time of the schedule.
- 3. Select day(s).
- 4. Select **Rec**, and use the drop-down list to select **Round-the-Clock** or **Motion Detect** for recording mode.
- 5. Select camera(s).
- 6. Click Add Schedule.
- 7. Click **OK**.

For details, refer to *Recording Schedule*, Chapter 1, *GV-DVR User's Manual* on Software DVD.

	Setup Schedule - Ad	d period time schedule			
	24 <b>C</b> 85				-4
	Time	Monitor Invoke	d-the-clock 👻	nera   7 1 ⊽ 4	
2	Start: AM	08:00 TV Pager/E-Mail V Ou	tuqt	2 5	5
	End : AM	05:00 + Remote		- F - 6 	
_	-Week Days B	inable Schedule			
3					6
	Time Period	Apply Day(s)	Operation(s)	Carner	
	AM 08:00 - AM 05:		REC,Pager/E-Mail,R	1,2,3,4	
			то ОК	Cancel	7
	Record Pager/E-Mail	Remote View = I/O Monitor = Center*	72	Carroor	



# 8. Video Playback

You can play back video recorded during a particular date and time.

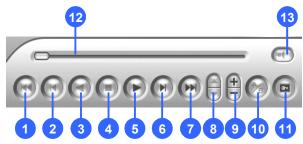
- 1. Click on the main screen, and select Video/Audio Log.
- 2. Select the camera you wish to view.
- 3. Select a date folder from the date tree.
- 4. Select a time from the Video Events list.
- 5. Click **(b)** to begin playback.

For details, refer to *Playing Back on ViewLog*, Chapter 4, *GV-DVR User's Manual* on Software DVD.



# 

### **Playback Controls**



No.	Description	No.	Description
1	Rewind to Beginning	8	Speed up / down
2	Frame-by-Frame Reverse	9	Zoom in / out
3	Rewind	10	A to B Playback
4	Stop	11	Frame-by-Frame / Real Time Playback
5	Play	12	Playback Scroll
6	Frame-by-Frame Forward	13	Audio on / off
7	Forward to Frid		

7 Forward to End

### Using the Zoom

- Zoom in: Click the Zoom-in button, and then click on the area you want to magnify. Each click will increase the zoom level.
- Zoom out: Click the Zoom-out button, and then click on the image to zoom out. Each click will decrease the zoom level.



### 9. Video Files Backup

You can back up video files of the desired time to CD / DVD.

- 1. Insert the CD / DVD media into the drive.
- 2. Click O on the main screen, and select Video/Audio Log.
- 3. Click on the functional panel.
- 4. Select CD Using OS-Burning to burn files with the inbuilt software of Windows.
- 5. Click Add time frame.
- 6. Enter the Start Time and End Time for backup.
- Select the desired camera(s) for backup. The number of video and audio files of each camera is indicated respectively, e.g. "Camera 3 39+0" means the camera 3 has 39 video files and 0 audio file.
- 8. Select the types of events for backup, e.g. video, audio or both together.
- 9. Click **OK** to add the time frame. You can repeat steps 5-8 to create up to 10 time frames.
- 10. Click **OK** to start burning.

For details, refer to *Backing Up Recorded Files*, Chapter 5, *GV-DVR User's Manual* on Software DVD.

**Note:** You have to connect a USB DVD RW device to the GV-NVR System Lite V2 for video files backup.

# **GeoVision**

ine Period	Select Camera(s)	
Start Time : 1/ 8/2007 🔽 - 00:00:00 -	Camera 1	0+0
	Camera 2	0+0
and Time : 1/ 8/2007 💌 1 23:59:59	Camera 3	39+0
	Camera 4	0+0
	2 Camera 5	0+0
	Camera 6	0+0
formation	Camera 7	0+0
Database Files	Camera 8	0+0
) Database Files	Camera 9	0+0
Only Never-Recycle Event	Camera 10	0+0
Object Index	Camera 11	0+0
, onjoer materia	Camera 12	0+0
	Camera 13	0+0
	Camera 14	0+0
	Camera 15	0+0
	Camera 16	0+0
Status Search En	d	
Fotal Event : 3	9	
Total MDB :	0	
Total Object Index :	0	
Used Size : 263.26 M	B	
OK Cance	Video + Audio Event	



### **Playing Backup Files**

Open the backup folder, run **EZViewLog500.exe**, and then follow the instructions in the *Play Back Video* section.

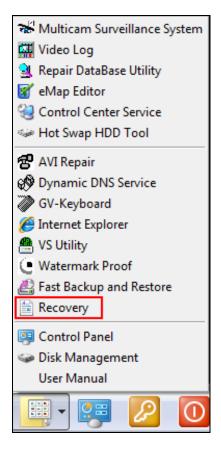


## **10.** System Restoration

You can restore preinstalled files once they are damaged by running the recovery from the hidden partition. To restore the operating system and all preinstalled software, follow the steps below.

**Note:** After recovery, you need to re-install all settings and passwords. But the recovery will not delete your recording files saved in the partition D since it only reformats the partition C.

1. On the GV-Desktop, click the **Program** button and select **Recovery**. The system will run this command by itself.



- 2. Restart the GV-NVR System Lite V2.
- 3. Press **F11** button several times to avoid accessing the system.



4. When the below screen appears, press the **Recovery** button.



5. If you can't successfully start the Recovery Wizard, you may see the below screen. Select **SATA PM** to start the Recovery Wizard.

Please select boot device:	
Realtek PXE BO2 DOO SATA PM: Hitachi HTS541010A9E Enter Setup	
↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults	

6. When the restoring process is completed, the screen will automatically show the GV-Desktop. And the system will restore the default values.