

GV-CMS Series

Quick Start Guide V8.5.8.0



CSV8580-QG-A



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September 2013

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Naming and Definition

GV-System	GeoVision Analog and Digital Video Recording
· · · · · · · · · · · · · · · · · · ·	Software. The GV-System also refers to GV-Multicam
	System, GV-NVR System, GV-DVR System and
	GV-Hybrid DVR System at the same time.

Preface

GeoVision Center Monitoring System series includes Center V2, Dispatch Server, VSM (Vital Sign Monitor), Control Center and GIS. The Quick Start Guide introduces **Center V2**, **Dispatch Server, VSM** and **GIS**. For Control Center, please refer to *GV*-Control Center Quick Start Guide.

Chapter 1 Center V2



1.1 Minimum System Requirements

Before installation, make sure your computer meets the following minimum requirements:

Standard Version	(Connects up	to 5 subscribers	& 160 channels)
-------------------------	--------------	------------------	-----------------

os	32-bit	Windows XP / Vista / 7 / 8 / Server 2008
	64-bit	Windows 7 / 8 / Server 2008 / Server 2012
CPU		Pentium 4, 3.0 GHz with Hyper-Threading
Memory		2 x 512 MB Dual Channels
Hard Disk		1 GB
Graphic Card		AGP or PCI-Express, 1024 x 768, 32-bit color
DirectX		9.0c

Professional Version (Connects up to 500 subscribers & 800 channels)

05	32-bit	Windows XP / Vista / 7 / 8 / Server 2008			
OS 64-bi		Windows 7 / 8 / Server 2008 / Server 2012			
CPU		Core i7 2600, 3.4 GHz			
Memory		8 GB Dual Channels			
Hard Disk		1 GB			
Graphic Card		AGP or PCI-Express, 1024 x 768, 32-bit color			
DirectX		9.0c			
Hardware		Internal or External GV-USB Dongle			
Note: We do not		recommend installing GV-Center V2 Pro and GV-Control			
Center modules on the same PC. Running GV-Center V2 (Pro) and					
GV-Control Center on the same PC may result in CPU overload erro					
system failure.					



Software License for Professional Version

Free License	N/A		
Maximum License	500 subscribers, 800 channels		
Increment for each license	N/A		
Combination	 Center V2 Pro Center V2 Pro + VSM 		
Note: It is recommended to use the internal GV-USB Dongle to have the Hardware Watchdog function which restarts the PC when Windows crashes or freezes.			



1.2 Installing Center V2

Standard Version

- 1. Insert the Software DVD to your computer. It runs automatically and a window appears.
- 2. Select Install GeoVision Primary Applications.
- 3. Click GV-Center V2, and follow the on-screen instructions.

Professional Version

- 1. Connect the GV-USB Dongle to the computer.
- Insert the Software DVD to your computer. It runs automatically and a window appears.
- 3. To install the USB device driver, select Install or Remove GeoVision GV-Series Driver and select Install GeoVision USB Device Drivers.
- To install GV-Center V2, select Install GeoVision Primary Applications.
- 5. Click **GV-Center V2** and follow the on-screen instructions.



1.3 The Center V2 Window

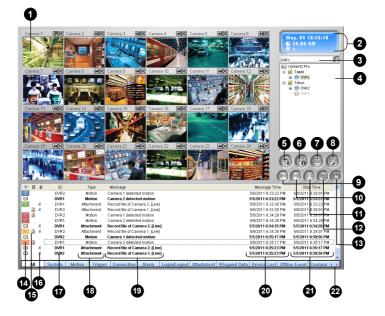


Figure 1-1

GeoVision:

The controls on the Center V2 window:

No.	Name	Description
1	Monitoring Window	Displays live video.
2	Status Panel	Indicates the date, time, remaining disk space, and the total number of online channels versus available channels.
3	Find A Subscriber	Type the desired ID in the Current Subscriber field and click this button to search.
		Displays subscribers' ID names and online status.
		Blue Icon: Indicates the subscriber is online.
4	Subscriber List	Gray Icon: Indicates the subscriber is off-line.
		Alarm Icon: Indicates either motion has been
		detected or the I/O has been triggered at the
		subscriber's site.
5	Tools	Accesses Event Log, Event List, audio and microphone control, SMS Server
		configuration, and short message notification.
6	Host Information	Displays the connection status of subscribers.
7	Accounts	Adds, deletes or modifies subscriber accounts.
8	Preference Settings	Brings up these options: System Configure, Event Log Settings, Notification, Password Setup, E-mail Setup, Customize Alarm Report, SMS Setup, I/O Device, Automatic Failover Support and Version Information.
9	Previous Page	Displays the previous page of camera views.
10	Next Page	Displays the next page of camera views.
11	Refresh Channel	Refreshes the connection status.
-		



No.	Name	Description
12	Split Mode	Displays screens in different numbers of divisions per page.
13	Exit	Closes or minimizes the Center V2 window.
14	Flag	Flags an event for later reference.
15	Clipboard	Displays the Alarm Report dialog box.
16	Clip	Indicates an event coming with an attachment. Double-click the event to open the attached video file.
17	ID	Indicates a subscriber's ID.
18	Event Type	Indicates the event type: Alarm, Attachment, Connection, Login/Logout, Motion, System, and Trigger.
19	Message	Indicates associated information for each event type.
20	Message Time	Indicates when Center V2 receives an event.
21	Start Time	Indicates when an event happens at the subscriber's site.
22	Event Category	Sorts events into categories.

For details, see Chapter 1, GV-CMS User's Manual on the Software DVD.



1.4 Creating a Subscriber Account

Create at least one subscriber account before starting Center V2 services.

1. On the Center V2 window, click the **Accounts** button . This window appears.

Address Book		general .				
💁 👺 🔝 🗙	\$ 🖄 Ş					
San Address Book {\$\$2 ⊪	1D [2	Name	Telephone (H)	Telephone (O)	Mobile Phone	E-mail



- 2. Click the Add A Group button 😣 to create a group.
- 3. Click the Add A Subscriber button 💁. This dialog box appears.

Login ID:	1	
Password:		?
Items	Content	
Name	GeoVision	
Address	Taipei, Taiwan	
E-mail	geovision@geovision.com.tw	
E-mail 2		
Country Calling Co	e 886	
Fax		
Telephone (H) Telephone (O)		
Mohile Phone	123456789	
Mobile Phone 2	120400709	
Pager		
<		
lote		

Figure 1-3



- 4. Type a **Login ID** and **Password**. These will be ID and password for the subscriber to log into the Center V2.
- Type the subscriber's contact information in the rest of the fields (optional).
- 6. Click **OK** to save the above settings. This dialog box appears.

Subscriber Settings - 1
- Monitor Option Image Size: Normal V
Auto Record Video
Record Mode
Live Mode Settings
O Attachment Mode Settings
O Both (Live & Attachment)
Note Any changes of this property will be applied in next trigger.
Color of Channel Caption Storage Group
Storage 1
OK Cancel

Figure 1-4

- Assign a Storage Group using the drop-down list. See *Recording* Settings, 1.15 System Configuration in the GV-CMS User's Manual on the Software DVD.
- 8. Click OK. The subscriber account is created.

For details, see *Creating a Subscriber Account*, Chapter 1, *GV-CMS User's Manual* on the Software DVD.



1.5 Connecting GV-System to Center V2

You need to configure the GV-System to access the Center V2 remotely. A GV-System can connect up to two Center V2 servers simultaneously.

1. On the main screen of GV-System, click the **Network** button and select **Connect to Center V2**. This dialog box appears.

Login Information
Center IP:
User ID:
Password:
Port: 5547 Default
Save Password
OK Cancel

Figure 1-5



 Type the IP address, ID and password of the Center V2. Modify the default communication port if necessary. Click **OK**. This dialog box appears.

Connect to CenterV2	
Connect	Exit
Mode: Normal	Configure
🗖 Login after 🗌	30 seconds
Monitor all type	e events
CenterV2 IP	Status
127.0.0.1	-
₽×∥	



- To establish connection to the second Center V2, click the Add Center V2 icon + and repeat steps 1 and 2.
- Click the **Connect** button to start. When the connection is established, Center V2 will start receiving live images, recordings and events from the subscriber.



1.6 Enabling Live View

Live views are popped up on the Center V2 when events and motion are detected at the subscriber. You can also enable live views to be shown constantly on the Center V2.

- The GV-System needs to grant the Center V2 the privilege to allow live viewing. On the GV-System, click the Network button , select Connect to Center V2, click Configure, and select Advanced Settings and click the Camera tab. The Advanced Settings dialog box appears.
- 2. Select Allow Center V2 to View Live Camera.

Advance Settings	×
Camera Other	1
Camera 1	
Send to CenterV2 when Motion is Detected Event Type: Emergency	
Image: Allow Center/V2 to View Live Camera Event Type: Emergency	
Allow CenterV2 to Control PTZ Camera	
✓ Notify CenterV2 when the following events come up (Intruder, Missing Object, Unattended Object, Scene Change)	
Event Type: Emergency	
OK Cance	4

Figure 1-7



- 3. To apply the settings to all the cameras, click *[*
- 4. Connect the GV-System to the Center V2.
- 5. On the Center V2 window, right-click the camera on the Subscriber List and select **Live View**.



Figure 1-8



1.7 Recording and Playing Back

Recording upon Motion or Events

By default, the Center V2 will record any events and motion detected at the subscriber. When the video is recorded, a message labeled with [Live] appears on the Event List.

8	00	ID	Туре	Message	Message Time	Start Time
		2	Motion	Camera 1 detected motion	8/5/2010 10:36:19 AM	8/5/2010 10:36:19 AM
	Ø	2	Attachment	Record file of Camera 1. [Live]	8/5/2010 10:36:25 AM	8/5/2010 10:36:19 AM

Figure 1-9

Note: The default path of recorded files is ://Center V2\Data\subscriber\Live

Recording Manually

You can also start recording manually and instantly when you see any suspicious live images.

- 1. Enable live view. See 1.6 Enabling Live View.
- To start recording, move your cursor to the live view and click the icon
 on the channel heading.
- To stop recording, move your cursor to the live view and click the icon
 on the channel heading.
- When the video is recorded, a message labeled with [Manual] appears on the Event List.

🌣 🖻 🕼 ID Type		Message	Message Time	e Time Start Time	
0 2	Attachment	Record file of Camera 1. [Manual]	8/5/2010 10:36:11 AM	8/5/2010 10:35:55 AM	



Note: The default path for recordings started manually is :\\Center V2\Data\subscriber\Manual



Playing Back Videos

To play back the recording, double-click the message with attachment on the Event List for instant playback.

P	Ø	0	ID	Type	Message	Message Time	Start Time
	L.	0	2	Attachment	Record file of Camera 1. [Live]	7/29/2010 7:15:59 PM	7/29/2010 7:15:34 PM
			2	Motion	Camera 1 detected motion	7/29/2010 7:15:59 PM	7/29/2010 7:15:59 PM
		0	2	Attachment	Record file of Camera 1. [Live]	7/29/2010 7:17:30 PM	7/29/2010 7:15:59 PM
			2	Motion	Camera 1 detected motion	7/29/2010 7:17:32 PM	7/29/2010 7:17:32 PM
	L.	0	2	Attachment	Record file of Camera 1. [Live]	7/29/2010 7:18:17 PM	7/29/2010 7:17:32 PM
			2	Motion	Camera 1 detected motion	7/29/2010 7:18:18 PM	7/29/2010 7:18:18 PM
	1	0	2	Attachment	Record file of Camera 1. [Live]	7/29/2010 7:18:45 PM	7/29/2010 7:18:18 PM
			2	Motion	Camera 1 detected motion	7/29/2010 7:18:50 PM	7/29/2010 7:18:50 PM

Figure 1-11

For details, see *Playback*, Chapter 1, *GV-CMS User's Manual* on the Software DVD.



1.8 Enabling Two-Way Audio

Two-way communications are allowed between Center V2 server and its subscribers. To enable two-way communication between the Center V2 server and the subscriber:

- The GV-System needs to grant Center V2 the privilege to allow two-way communications. On the GV-System, click the Network button , select Connect to Center V2, click Configure, select Advanced Settings, and click the Other tab. The Advanced Settings dialog box appears.
- Under the Audio section, select Allow Audio-Out to Center V2 and Allow Audio-In from the Center V2.

Advance Settings	
Camera Other Audio If Allow Audio-Out to CenterV2 If Accept Audio-In from CenterV2	
Other Allow CenteV2 to Get System Information Send Alert Message of POS's Loss Prevention Time synchronization with CenteV2 Notify CenteV2 when storage is full Notify CenteV2 when occur Weigand Event	1 to CenterV2
	OK Cancel

Figure 1-12



- 3. Connect the GV-System to the Center V2.
- 4. Move your cursor to the live view. The **Microphone** and **Audio** icons (1) appear at the bottom left corner.





5. To speak to a subscriber, click the **Microphone** icon **(2)** to turn it on. The control panel appears.

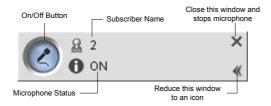
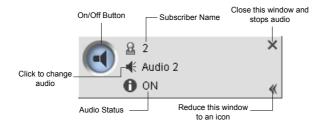


Figure 1-14



6. On the live view, click the **Audio** icon (1) to turn it on. The control panel appears.





To switch to another subscriber, click the subscriber icon another Microphone or Audio control panel, type the subscriber ID in the Search Account dialog box and click GO.

Searc	h Account	×
ID:	GeoVision	GO

Figure 1-16

Chapter 2 Dispatch Server



2.1 Minimum System Requirements

Before installation, make sure that your computer meets the following minimum requirements:

OS	32-bit	Windows XP / Vista / 7 / 8 / Server 2008,
	64-bit	Windows 7 / 8 / Server 2008 / Server 2012
CPU		Pentium 4, 3.0 GHz with Hyper-Threading
Memory		2 x 512 MB Dual Channels
Hard Disk		1 GB
Graphic Card		AGP or PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color
DirectX		9.0c
Hardware	e	Internal or External GV-USB Dongle

Standard Requirements

Advanced Requirements (Connects to 100 DVR subscribers or more)

os	32-bit	Windows XP / Vista / 7 / 8 / Server 2008
03	64-bit	Windows 7 / 8 / Server 2008 / Server 2012
CPU		Core 2 Duo E6600, 2.4 GHz
Memory		2 x 1 GB Dual Channels
Hard Disk		1 GB
Quenchie Courd		AGP or PCI-Express, 800 x 600 (1280 x 1024
Graphic Card		recommended), 32-bit color
DirectX		9.0c
Hardware	Э	Internal or External GV-USB Dongle



Software License

Free License	N/A			
Max. License	50 Center V2 servers			
WAX. LICENSE	25000 subscribers from Center V2 servers			
Increment for	N/A			
each license	N/A			
Optional	1. Dispatch			
Combinations	2. Dispatch + VSM			
Dongle Type	Internal or external			
Note: It is recomme	nded to use the internal GV-USB Dongle to have the			
Hardware Watchdog	function which restarts the PC when Windows			
crashes or freezes.				



2.2 Installing Dispatch Server

- 1. Connect the GV-USB Dongle to the computer.
- 2. Insert the Software DVD to your computer. It runs automatically and a window appears.
- To install the USB device driver, select Install or Remove GeoVision GV-Series Driver and select Install GeoVision USB Device Drivers.
- 4. To install GV-Dispatch Server, select Install GeoVision Primary Applications.
- 5. Click **GV-Dispatch Server** and follow the on-screen instructions.

2.3 The Dispatch Server Window

Server Configure Tool	tivates with port: 2111 Yew Hep					
🕞 🖭 Address Book	Server Type	Server Name	Server IP	Server Port	Client	Statu
Group 1	CenterV2 Server	Server 2	192.168.1.48	5547	1/500	Enable
Server 2	Subscriber ID	1				
	Subscriber Type	DVF				
L	Last Login Time Last Dispatch		9/2011 11:45:02 A iter ∀2-2	м		
	Current Dispatch		/er 2	1		
	<	111				
Ready			Total serve	r list: 1		NUM

Figure 2-1

The controls on the Dispatch Server window:

No.	Name	Description
1	Start Server	Starts Dispatch Sever.
2	Stop Server	Stops Dispatch Sever.
3	Server Setting	Configures Dispatch Sever.
4	Account	Adds, edits and deletes the accounts of Center V2 Servers and subscribers.
5	Subscriber Notification Setting	Sets the alert conditions and methods.
6	Manual Dispatch	Enables manual distribution of subscribers.
7	Stop/Start Query Center V2 Event	Specifies an event query.
8	Real-time Center V2 Event	Views real-time events occurring on Center V2 Servers.

GeoUision:

No.	Name	Description
9	Exit	Closes the Dispatch Server window.
10	Center V2 Status	This part lists the connected Center V2 Servers and their status. Subscribers can be distributed to the ticked Center V2 Servers. Unchecking will disable the distribution service.
11	Tree View	The list displays all created group folders, servers and subscribers. You can right-click any online subscriber to call up Subscriber Address Book and Camera/Audio Control Panel. For details on Camera/Audio Control Panel for live view, see <i>4.6 Viewing Live Video</i> . Blue Icon: The server / subscriber is online. Red Icon: The server / subscriber is offline.
12	Subscriber Status	Displays the subscriber information such as subscriber ID, type, last login time, last dispatch and current dispatch. Click the desired subscriber from the tree view to display this information.



2.4 Creating a Subscriber Account

Create at least one subscriber before starting the services. Dispatch Server can serve up to **50** Center V2 servers and **25,000** Center V2's subscribers simultaneously.

- On the Dispatch Server Window, click the Account button Server Window appears.
- 2. Click the **Add a Group** button State to create a group.
- Click the Add a Server button to solution to create a Center V2 server account. A server icon pops out. Rename the server to match the location name created for the Center V2 server.

	Preference
State Image: State	General Layout Network Record Dispatch Server Information of Center/2 Location Name: [16]162
Stadistics: [Group:1] [Sever:1] [Sever:1] [Sever:1] [Sever:1]	Assign IP: 132.168.0.222 Network Settings Erhance Network Security Center/2 Port: 5547 Default
Dispatch Server	Accept connections from GV Compact DVR, Video Server & IP Cam Port 2 5551 Default Port Accept Connections from GV Compact DVR, Video Server & IP Cam Note Accept Connections from GV Compact DVR, Video Server & IP Cam Note Accept Connections from GV Compact DVR, Video Server & IP Cam Note Accept Connections from GV Compact DVR, Video Server & IP Cam Note Accept Connections from GV Compact DVR, Video Server & IP Cam Note Accept Connections from GV Compact DVR, Video Server & IP Cam Note Accept Connections from GV Connect DVR, Video Server & IP Cam Note Accept Connections from GV Connect DVR, Video Server & IP Cam Note Accept Connections from GV Connect DVR, Video Server & IP Cam Note Accept Connections from GV Connect DVR, Video Server & IP Cam Note Accept Connections from GV Connect DVR, Video Server & IP Cam Note Server Server DVR, Video Server & IP Cam Note Server Server DVR, Video Server & IP Cam Note Server Server DVR, Video Server & IP Cam Note Note Server Server DVR, Video Server & IP Cam Server Server DVR
	Any changes of the property will be applied in the next statup OK Cancel

Center V2 Server

Figure 2-2

Click the Add a Subscriber button Strate a subscriber account. The Subscriber Address Book dialog box appears.



 Create an ID and password for the subscriber. The ID and password will be used when the Center V2's subscriber wants to log into the Dispatch Server.

Subscriber Addre	ss E	look	×
ID	1		
Password	•	?	
Item		Content	٦
Name Address E-mail E-mail 2 Country Calling CC Telephone (H) Mobile Phone Mobile Phone Mobile Phone 2 FAX Pager	ode	1	
<			>
Note			
		2	
		OK Cancel	

Figure 2-3

6. Click OK to finish.

Note:

- You can create sub-groups beneath a group; every sub-group can only include one Center V2 server; every server can include up to 500 subscribers.
- When one Center V2 server stops running, its own subscribers will be distributed to the Center V2 servers available at the same or to a higher level of the hierarchical file system.



2.5 Starting Dispatch Server

After subscriber accounts are created, you are ready to establish connections to the Dispatch Server. Follow the steps below.

- 1. On the Dispatch window, click **Configure** and select **Setting**. The Dispatch Server Setting dialog box appears.
- 2. Type an **Identification Code**. This code will be used for connecting Center V2 Server to Dispatch Server.

🚰 Dispatch Server Set	ling				
Network setting					
Server Port:	21112 Default				
Allow GV IP devices	to login as subscriber from port:				
5551	Default				
Autorun server serv	Autorun server service upon startup				
Automatic Fallover	Automatic Fallover Support Setting				
Allow unidentified C	enterV2 Server login				
Identification Code:	*******				
Dispatch Setting					
 Group First 	Balance Only				
Dispatch Log	Directeds Log				
Keep Days:	30				
Log Path:	D:\Dispatch\Log\				
Log Paul.					
- CenterV2 Event Log	Available space: 19.70 GB	2			
Enable Real-Time Ce	antari/2 Event				
	30	_			
Keep Days:		0			
Log Path:	D:\Dispatch\CenterV2Log\				
	Available space: 19.70 GB	2			
🧭 🗹 Recycle Log	L. C.	0			
	ОК	Cancel			

Figure 2-4

 Connect Center V2 to Dispatch Server. See 2.6 Connecting Center V2 to Dispatch Server.



- 4. Connect GV-System to Dispatch Server. See 2.7 Connecting GV-System to Dispatch Server.
- 5. Click the **Start Server** button **3** on the Dispatch Server window to start the service.



2.6 Connecting Center V2 to Dispatch Server

You need to configure the Center V2 to connect to the Dispatch Server.

- On the Center V2 window, click the Preference Settings button B, select System Configure, and click the Dispatch Server tab. The Preference dialog box appears.
- Click the Dispatch Server tab. Type the Identification Code, IP address, and the port of the Dispatch Server.

Network setting General Layout Network Freeced Dispetition Server Serve Port: 21112 Default Dispetition Address to top as subcorber from port: Dispetition Automate Felower Server Interimentation Automate Felower Server Layout Network Percent Layout Network Address Connection Relay Ventilization Code: Percent Layout Network Control of the Percent Layout Network Percent Layout Network Control of the Percent Layout Network Percent Layout Network Control of the Percent Layout Network Percent Layout Network Control of the Percent Layout Network Percent Layout Network Control of the Percent Layout Network Percent Layout Network Control of the Percent Notation Percent Notation Control of the Percent Notation Percent Notation Control of the Percent Notation Percent Notation Layout Network Percent Notation Layout Network Percent Notation Control of the Percent Notation	🕈 Dispatch Server Setting	Preference
Image: Additional Code Image: Code Copatch Setting Oracup First Oracup First Balance Only Depatch Setting Angrehanges of this property will be applied in the next statup Depatch Log Image: Code Presep Days: 30 Log Path: DipExpatch/Log/ Pendels Read-Time CenterV2 Event Image: CenterV2 Event DipExpatch/CenterV2.cog/ Image: Center V2 Log Path: DipExpatch/CenterV2.cog/	Server Port: 21112 Default D Allow GV IP devices to loon as subscriber from port: 5551 Default Autorun server service upon startup Autorun server service upon startup Autorunatic Falover Oupport Section	Dispatch Server ☑ bise Dispatch Server Identification: Identification:
Center V2 Findle Real-Time Center V2 Event Keep Lays: U Di/Departh(Center V2.log) Log Path: Di/Departh(Center V2.log) Keep Lays: U		Any changes of this property will be applied in the next startup
OK Cancel	Pendele Real-Time CenterV2 Event Prote Days: 00 0 Log Path: D:(Depatch)(CenterV2Log) Available space: 19,70 GB 0 Pendele Space: 19,70 GB 0	Center V2

Dispatch Server

Figure 2-5

3. Click OK.



- 4. Restart the Center V2. Without this step, the Center V2 will not connect to the Dispatch Server.
- 5. When the Center V2 connects successfully to the Dispatch Server,
 - Center V2 Server icon turns blue, and
 - Center V2 status information appears on the Dispatch window.

erver ⊆onfigure <u>T</u> ool ⊻iew <u>H</u> elp							
iju 🧊 🧔 😫 🗟	i 🧬 💁 🙆 🔟						
🖭 Address Book	Server Type Server Name	Server IP	Server Port	Client	Status	ī	
😑 💑 Group 1	CenterV2 Server Center V2 Server	2 192.168.1.48	5547	1/500	Enable	٦	
Center V2 Server 1 VR1 Group 2 Center V2 Server 2 DVR2	CenterV2 Server Center V2 Server	1 192.168.0.239	5547	1/500	Enable		
	Subscriber ID						
	Subscriber Type						
	Last Login Time						

Figure 2-6



2.7 Connecting GV-System to Dispatch

Server

The GV-System, Center V2's subscriber, also needs to be configured to connect to Dispatch server.

- On the main screen of GV-System, click the Network button , and select Connect to Center V2. The Login Information dialog box appears.
- Type the IP address of the Dispatch Server, and the user ID and password created on the Dispatch Server. See Figure 2-3 in 2.4 *Creating a Subscriber Account.*

Login Information				
Center IP: 127.0.0.1				
User ID: 1				
Password: *				
Port: 21112 Default				
Save Password				
OK Cancel				

Figure 2-7

 Change the port number from 5547 (Center V2 port) to 21112 (Dispatch Server port).



4. Click the **OK** button. This dialog box appears.

Connect to CenterV2	
Connect	Exit
Mode: Normal	Configure
🗖 Login after 🛛	30 seconds
🔽 Monitor all typ	e events
CenterV2 IP	Status
127.0.0.1	-
₽ ×∕	

Figure 2-8

- 5. Click the **Connect** button to connect to the Dispatch Server.
- 6. When the GV-System connects successfully to the Dispatch Server,
 - the subscriber icon turns blue,
 - client count increases, and
 - subscriber information is accessible by clicking the subscriber on the device tree.

Server Configure Iool View Help							
🗊 🗊 🙆 🥵 😼	🔗 💁 🙆	2					
= 🛐 Address Book	Server Type	Server Name	Server IP	Server Port	Client	Status	
😑 🚜 Group 1	CenterV2 Server	Center V2 Server 2	192.168.1.48	5547	1/500	Enable	
Center V2 Server 1	Center//2 Server	Center V2 Server 1	192.168.0.239	5547	1/500	Enable	
- Diniz							
	Subscriber ID	DVR1					_
- Jone	Subscriber ID Subscriber Type	DVR1 DVR					
			8 AM				
	Subscriber Type	DVR					
- Joniz	Subscriber Type Last Login Time	DVR 5/4/2011 11:37:2	2				
	Subscriber Type Last Login Time Last Dispatch	DVR 5/4/2011 11:37:2 Center V2 Server	2				

Figure 2-9

Chapter 3 Vital Sign Monitor



3.1 Minimum System Requirements

Before installation, make sure your computer meets the following minimum requirements:

os	32-bit	Windows XP / Vista / 7 / 8 / Server 2008
03	64-bit	Windows 7 / 8 / Server 2008 / Sever 2012
CPU		Pentium 4, 3.0 GHz with Hyper-Threading
Memory		2 X 512 MB Dual Channels
Hark Disk		1 GB
Graphic	Card	AGP or PCI-Express, 800 x 600 (1280 x 1024
Graphic	Caru	recommended), 32-bit color
DirectX		9.0c
Hardware	Э	Internal or External GV-USB Dongle

Standard Requirements

Advanced Requirements (Connects to 1000 DVR subscribers or more)

os	32-bit	Windows XP / Vista / 7 / 8 / Server 2008
03	64-bit	Windows 7 / 8 / Server 2008 / Sever 2012
CPU		Core 2 Duo E6600, 2.4 GHz
Memory		2 X 1 GB Dual Channels
Hark Disk		1 GB
Graphic	Card	AGP or PCI-Express, 800 x 600 (1280 x 1024
Graphic	Caru	recommended), 32-bit color
DirectX		9.0c
Hardware	e	Internal or External GV-USB Dongle



Software License

Free License	N/A	
Max. License	1000 subscribers	
Increment for each license	Α	
Optional Combination	 VSM VSM + Control Center VSM + Control Center + Video Wall VSM + Center V2 VSM + Dispatch Server 	
Dongle Type	Internal or external	
Note: It is recomm	nended to use the internal GV-USB Dongle to have the	
Hardware Watcho or freezes.	log function which restarts the PC when Windows crashes	

To ensure the quality of downloading when multiple GV-Systems connect to the VSM, see the list below for the recommended bandwidth:

Number of Subscribers	Recommended Bandwidth
100	512 Kbps
500	2 Mbps
1000	4 Mbps



3.2 Installing VSM

- 1. Connect the GV-USB Dongle to the computer.
- Insert the Software DVD to your computer. It runs automatically and a window appears.
- 3. To install the USB device driver, select Install or Remove GeoVision GV-Series Driver and select Install GeoVision USB Device Drivers.
- 4. To install the Vital Sign Monitor, select Install GeoVision Primary Applications.
- 5. Click GV-Vital Sign Monitor and follow the on-screen instructions.

3.3 The VSM Window

Vital Sign Monito	/iow His					. 8
	2	ID:				
•	9 9	ID	Type	Message	Message Time	Start Time
Subscriber List [2/2]	2	GV-FD120D	Motion	Camera detected motion	7/12/2011 5:04:08 PM	7/12/2011 4:37:28 PM
E 1 Ueovision	8	GV-FD120D	Connection	The network connection is lost	7/12/2011 5:04:08 PM	
- VEP Camera 1	92	System	System	Stop Service	7/12/2011 5:04:09 PM	
-NPH Camera 2		System	System	Start Service	7/12/2011 5:04:38 PM	
- YSP Camera 3		GV-FD120D	LoginLogout	Login	7/12/2011 5:04:42 PM	
-HSP Camera 4	17	DVR 1	LoginLogout	Login	7/12/2011 5:05:06 PM	
- YER Camera 5	12	DVR 1	System	Start Monitoring All Type Events	7/12/2011 5:05:06 PM	7/12/2011 5:05:06 PM
YBP Camera 6 YBP Camera 7		DVR 1	System	Stop all cameras monitoring	7/12/2011 5:05:06 PM	7/12/2011 5:05:06 PM
-16P Camera 8		GV-FD1200	Motion	Camera detected motion	7/12/2011 5:05:08 PM	7/12/2011 4:38:27 PM
1894 Camera 9	5	GV-FD1200	Motion	Camera detected motion	7/12/2011 5:05:23 PM	7/12/2011 4:38:42 PM
-NP Camera 10		0V-ED120D	Motion	Camera detected motion	7/12/2011 5:05:52 PM	7/12/2011 4:39:11 PM
-NP Camera 11		DVR 1	Alarm	Multicam Surveillance System don't have responded.	7/12/2011 5:08:36 PM	7/12/2011 5:06:36 PM
-10P Camera 12 -10P Camera 13		GV-FD1200	Motion	Camera detected motion	7/12/2011 5:08:36 PM	7/12/2011 4:39:56 PM
- Sile Camera 14	6	GV-FD1200	Motion	Camera detected motion	7/12/2011 5:08:51 PM	7/12/2011 4:40:11 PM
- KBP Camera 15	6	GV-FD1200	Motion	Camera detected motion	7/12/2011 5:07:07 PM	7/12/2011 4:40:27 PM
VBP Camera 16		GV-FD1200		Camera detected motion		7/12/2011 4:40:27 PM 7/12/2011 4:40:41 PM
😑 🎨 GV-FD1200	<u> </u>		Motion		7/12/2011 5:07:21 PM	
🛁 🏒 Camera	□	GV-FD120D	Motion	Camera detected motion	7/12/2011 5:07:36 PM	7/12/2011 4:40:56 PM
Module 1 Appendix Appendix	□	GV-FD120D	Motion	Camera detected motion	7/12/2011 5:07:51 PM	7/12/2011 4:41:11 PM
- topuci	□	GV-FD120D	Motion	Camera detected motion	7/12/2011 5:08:06 PM	7/12/2011 4:41:26 PM
		GV-FD120D	Motion	Camera detected motion	7/12/2011 5:08:35 PM	7/12/2011 4:41:54 PM
		GV-FD1200	Motion	Camera detected motion	7/12/2011 5:08:50 PM	7/12/2011 4:42:09 PM
		GV-FD1200	Motion	Camera detected motion	7/12/2011 5:09:05 PM	7/12/2011 4:42:24 PM
	AI	System	Motion T	rigger Connection Alarm LoginLogout Wiegand D	ata Device Lost Offline Even	Customized Event
* ID Name						
Telephone (H)				1		
Telephone (0)				20		
Mobile Phone				-		
E-mail						

Figure 3-1

GeoUision

The controls on the VSM window:

No.	Name	Description
1	Start / Stop Service	Starts or stops the VSM service.
2	Account	Adds, deletes or modifies subscribers.
3	Show / Hide Subscriber List	Shows and hides the Subscriber List.
4	View Event Log	Launches Event Log Browser.
5	Force Output	Activates manually output devices to alert the VSM operator.
6	View Subscriber Information	Accesses the subscriber's storage and monitoring information.
7	ID	Enter an ID for further search.
8	View Subscriber Address Book	Enter an ID, and then click this button to view the subscriber's address book.
9	View Subscriber Status	Enter an ID, and then click this button to see the subscriber's status.
10	Send E-Mail	Sends e-mails to subscribers.
11	Send Short Message	Sends SMS to subscribers.
12	Flag	Flags an event for later reference.
13	Clipboard	Displays the Alarm Report dialog box.
14	ID	Indicates the subscriber's ID.
15	Туре	Indicates the event types, including System, Connection, Login/Logout, Motion, Trigger, and Alarm.
16	Message	Indicates associated information for each event type.
17	Message Time	Indicates the time of receiving event messages.
18	Start Time	Indicates the subscriber's time when sending out the event message.



No.	Name	Description
19 Subscriber List	Indicates the number of online subscribers and displays the ID and status. Blue Icon: Indicates the subscriber is online. Gray Icon: Indicates the subscriber is offline.	
	Alarm Icon: Indicates either motion has been detected or the I/O has been triggered at the subscriber's site.	
20	Event Categories	Events can be sorted into these categories: System, Motion, Trigger, Connection, Alarm, Login/Logout, Wiegand Data, Device Lost and Offline Event. To sort the events, click View from the menu bar and select My Favorite Events .
21	Event List	Displays a list of events occurred.



3.4 Creating a Subscriber Account

The VSM can serve up to **1,000** subscribers at a time. Create at least one subscriber before starting the VSM services.

1. On the VSM widow, click the **Account** button **2**. This window appears.

🔤 Address Book							
94 💁 🔝 🗙 😫	Þ 🖄 🗐						
Address Book	ID	Name	Telephone (H)	Telephone (O)	Mobile Phone	E-mail	Address
Ready	<		Group: 0		Subscrit	er:0	



- 2. Click the Add A Group button 😫 to create a group folder.
- Click the Add A Subscriber button Solution Click the Add A Subscriber button
 Book dialog box appears.
- 4. Type a login ID and a password. These will be the ID and Password for the subscriber to log into the VSM.
- 5. Type the subscriber's contact information in the rest of fields (optional).
- 6. Click **OK**. The subscriber account is created.



3.5 Starting VSM

After subscriber accounts are created, you are ready to establish connections to the VSM. Follow the steps below.

- 1. Click the Start/Stop Service button 📕 on the VSM window.
- 2. Connect GV-System to VSM. See 3.6 Connecting GV-System to VSM.



3.6 Connecting GV-System to VSM

You need to configure the GV-System to access the VSM remotely. A GV-System can connect up to **five** VSM servers simultaneously.

1. On the main screen of GV-System, click the **Network** button , and select **Connect to VSM**. This dialog box appears.

Login Information				
Center IP:	127.0.0.1			
	,			
User ID:	1			
Password:	*			
Port:	5610	Default		
	🔽 Save Pass	word		
OK Cancel				

Figure 3-3



 Type the IP address, User ID and Password of VSM. Modify the default communication port if necessary. Click **OK**. This dialog box appears.

Connect to Vital Sign Monitor				
Connect Exit Configure				
Login after 30 seconds Monitoring all type events				
IP	Status	-		
127.0.0.1	127.0.0.1 -			
4 × 🖊				



- To connect the GV-Systems to more VSM, click the Add Vital Sign Monitor button and repeat steps 1 and 2.
- Click the **Connect** button to start. When the connection is established, VSM can start receiving alert messages, computer alarms and output alarms.

Chapter 4 GV-GIS



4.1 Minimum System Requirements

Before installation, make sure your computer meets the following minimum requirements:

Note: The GV-GIS supports the following Map API (Application Program Interface): Google Maps V2, Google Maps V3, Microsoft Virtual Earth and OpenStreetMap. For some Map API, users may need to purchase the API Premium Key. Since these Map APIs are third-party applications, users are responsible for following their terms and conditions.

Standard Requirements

		10 Mobile-Host Map Views	10 Mobile-Host Map Views with up to 10 Megapixel Live Views	
OS 32-bit		Windows XP / Vista / 7 / Server 2008		
64-bit		Windows 7 / Server 2008		
CPU		Pentium 4, 3.0 GHz with HT	Core 2 Quad 8300, 2.5 GHz	
Memory		2 x 512 MB Dual Channels	2 x 1 GB Dual Channels	
Hard	Disk	1 GB		
Graphic Card		AGP or PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color		
Direct	X	9.0c		
Brows	ser	Internet Explorer 7.x		
Software		.Net Framework 3.5		
Hardv	vare	External or Internal GV-GIS I	Dongle	
Note:	The .Net I	Framework can be found in the	Software DVD.	



Advanced Requirements

		16 Mobile-Host Map Views	16 Mobile-Host Map Views with up to 16 Megapixel Live Views	
OS 32-bit		Windows XP / Vista / 7 / Server 2008		
64-bit		Windows 7 / Server 2008		
CPU Pentium 4, 3.0 GHz with HT Core i5-750, 2.67		Core i5-750, 2.67 GHZ		
Memory		2 x 1 GB Dual Channels		
Hard Disk 1 GB				
Graphic Card		AGP or PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color		
Direc	ctX	9.0c		
Browser		Internet Explorer 7.x		
Software .Net Framework 3.5				
Hard	Hardware Internal or External GV-GIS Dongle		Dongle	
Note	: The .Net	Framework can be found in the	Software DVD.	

Note: The minimum system requirements detailed here are collected based on GV-IPCAM 1.3MP devices, and may vary when connected to different IP device models.



Software License

Free License	N/A	
Max. License	500 mobile hosts	
Increment for each license	1, 3, 5, 10 or 10 plus an increment of 5 up to a total of 500 vehicle connections	
Optional Combinations	 GIS GIS + AVP GIS + VSM GIS + VSM + AVP 	
Dongle Type	Internal or external	
Note: It is recommended to use the internal GV-USB Dongle to have the Hardware Watchdog function which restarts the PC when Windows crashes or freezes.		



4.2 Installing GV-GIS

Before installing the GV-GIS, you need to install the USB dongle driver and .Net Framework first. Follow the steps below to install those programs.

- 1. Insert the Software DVD to your computer. It runs automatically and a window appears.
- To install USB device driver, select Install or Remove GeoVision GV-Series Driver, and select Install GeoVision USB Device Drivers.
- To install .NET Framework, select Download Microsoft .NET Framework 3.5.
- 4. To install GV-GIS, select Install GeoVision Primary Applications.
- 5. Click GV-GIS and follow the on-screen instructions.
- The first-time user will be prompted for a License Agreement. Read through the license terms before you click I understand and agree to continue.



Figure 4-1



 From the "Please Select a Map API" drop-down list, select a Map API (Application Program Interface).

GIS	
Please enter the map authorization key or lic	cense key
Please enter the website of the Map API http://maps.google.com/maps	
✓ Work offline	default 🕐
Please select a Map API Google Map V3	OK Cancel



8. Click Submit to open the main screen.

Note: For Google Maps V2, you need to sign up for an API key from the Google website (http://code.google.com/apis/maps/signup.html), and enter the API key in the **Please enter the map authorization key or license key** field.





4.3 The GV-GIS Window

Figure 4-3

The controls on the GV-GIS window:

No.	Name	Description
1	Host List	Includes these types of folders: Mobile Host List, Fixed Host List, Expended Markers, and New Map.
2	Toolbar	See Toolbar later.
3	Navigation Controls	Use these to pan, return to the last result, and zoom.
4	Мар	Displays the tracking map, E-Map and query results.



No.	Name	Description	
5	Views	Click these to display different views, including aerial images and street level imagery.	
6	Overview Map	Shows the location of current map view.	
7	Manual Record List	Displays the manual recording status of Mobile Hosts and the cameras. To display Monitor List or Map Event list, click View on the GIS window and select from the menu.	
8	Tracking Host Indicator	Indicates the number of connected mobile hosts. Take this Tracking Host: 3 / 50 for example. Three (3) mobile hosts are connected to the GV-GIS while the GV-GIS support a maximum of 50 mobile hosts.	
9	Event List	See Event List later.	

Event List

n ng	Message	Playback	Message Time	Start Time	GPS Position
Car3	Record file of Camera 1, [Manua	Remote ViewLog	7/7/2011 1:35:45 PM	7/7/2011 1:30:22 PM	(25.081635 N, 121.565797 E
Car2	Record file of Camera 1. [Manua	Send	7/7/2011 1:37:22 PM	7/7/2011 1:32:00 PM	(25.081547 N, 121.566082 E)
Video Server	Record file of Camera1. [Manual	ocnon.	7/7/2011 1:37:26 PM	7/7/2011 1:31:17 PM	(24.989605 N, 121.642947 E
Car4	Record file of Camera 1. [Manua	Information	7/7/2011 1:38:41 PM	7/7/2011 1:35:12 PM	(25.081797 N, 121.566110 E
Car3	Record file of Camera 1. [Manua	Show Position	7/7/2011 1:38:41 PM	7/7/2011 1:35:22 PM	(25.081793 N, 121.566107 E
Car2	Record file of Camera 1. [Manua	Configure	7/7/2011 1:38:41 PM	7/7/2011 1:37:00 PM	(25.081675 N, 121.566080 E
Car1	Record file of Camera 1. [Manua-	connyare	7/7/2011 1:38:41 PM	7/7/2011 1:35:22 PM	(25.081797 N. 121.566110 E
Video Server	Record file of Camera1. [Manual]		7/7/2011 1:38:43 PM	7/7/2011 1:36:18 PM	(24.989605 N, 121.642947 E

Figure 4-4

No	. Name	Description
1	Event Type	Include these types of events: Alarm, System, Connection, Account, Monitor and Record.
2	Flag	Flag an event for later reference.
3	Message	Indicate associated information for each event type.

GeoUision

No.	Name	Description
4	Selection Menu	Right-clicking a message in the Alarm, Connection, Monitor or Record tab allows you to instantly access some useful functions.
5	Message Time	Indicates the time that the GV-GIS receives an event.
6	Start Time	Indicates the time that an event happens at the host.
7	GPS Position	Indicates GPS position of hosts at Start Time.

Toolbar



Figure 4-5

No.	Name	Description
1	Start/Stop Service	Start or stop the GV-GIS services.
2	Start/Stop Web Service	Enable or disable the access to GV-GIS's Web interface.
3	System Configuration	Configure the system. See <i>System Configurations</i> Chapter in the <i>GV-GIS User's Manual</i> on the Software DVD.
4	Account	Configure host accounts. See Creating Host Accounts, Getting Started Chapter in the GV-GIS User's Manual on the Software DVD.
5	Web Account	Configure user accounts for accessing GV-GIS's Web interface.



No.	Name	Description
6	Notification Setting	Configure which event to send notifications when it happens.
7	Local I/O Device Control	Open the list of available I/O devices on your system.
8	Event List	Open or close the Event List on the main screen.
9	Monitor List	Open or close the Monitor List on the main screen.
10	Event Log Browser	Search for log events. See the Event Log Browser Chapter in the GV-GIS User's Manual on the Software DVD.
11	Range Query	Search for places and devices.
12	Track List	Track addresses of multiple mobile hosts in real time.
13	Map Setting	Configure the settings for E-Map icons. See the Creating an E-Map, Advanced Operation Chapter in the GV-GIS User's Manual on the Software DVD.
14	Up One Level Map	Display the previous map.
15	Map Home	Display the tracking map.
16	Down One Level Map	Display the next map.

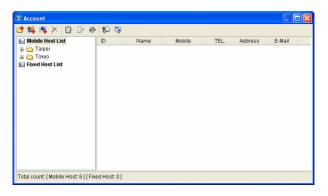


4.4 Creating A Host Account

There are two types of hosts: **mobile host** and **fixed host**. Mobile hosts are devices that are equipped with GPS receivers and are installed in vehicles. Fixed hosts are devices that are not equipped with GPS receivers and are set up at fixed locations. Create hosts according to your needs.

Creating a Mobile Host

1. On the toolbar, click the **Account** button **S**. This window appears.





- Click the Add A Group button it to create a group folder if necessary.
- Click the Add A Mobile Host shows button to create a host account. The Subscriber Information dialog box appears.



4. Assign an ID and Password for the host to log onto the GV-GIS.

Subscriber li	nformation	×						
ID:	Car 1	ОК						
Password:	*****	? Cancel						
Name:								
TEL:								
Mobile:	1							
Address:		~						
E-Mail:								
Visible Level in Map: 0 🗘								
🗹 Auto add	Auto add this host on the map							
Note								

Figure 4-7

- Other entries such as Name, TEL, Mobile, Address and E-Mail are optional.
- 6. A host icon should appear on the Host List and the map.

Creating a Fixed Host

- 1. On the toolbar, click the **Account** button **S**. The Account window appears.
- Click the Add A Group button it to create a group folder if necessary.

Click the Add A Fixed Host button ¹/₂ to create a fixed host account. The dialog box appears.

Host Informat	ion				×	
		Connection Infor	mation			
Host ID:	GV-FD120D	IP Address:	192.168.2.	11		
Host Type:	IP Camera 🗸	Login ID:	admin			
Subscriber In	formation	Password:	*****		?	
Name:		Http Port	80	Default]	
TEL:	-	Command Port:	10000	Default	j l	
Mobile:	1					
Address:	< >	Brand: G	eoVision		~	
E-Mail:		Model: G	eoVision_GV	4FD120D/1210	•	
Visible Level	in Map: 0 💲		Device Information			
Note		Visible Level in Map: 15 🛟 📝 👼				
		Number of Cameras: 1 💲				
		Number of Modu	lle: 1			
		Module 1	~			
		# of Input: 1	÷0	of Output: 1		
		Apply the Devi	ce's GPS po	sitions	•	
GPS Position	Unavailable		0	к Са	ncel	

Figure 4-8

- 4. In the Host Information dialog box,
 - A. Name the host in the **Host ID** field and select a device type from the **Host Type** drop-down list.
 - B. In the Connection Information section, type IP Address, Login ID and Password to log onto the host. Use the default communication ports, or modify port values if necessary.
 - C. You may need to select Brand and Model.
 - D. In the Device Information section, click the **Update Information** button **1** to update the number of cameras and I/O modules installed on the host.
 - E. Subscriber Information and Note are optional entries.

GIS 4

5. An icon appears on the host list. Drag this icon to the desired location on the map.

For details on creating host accounts, see *Creating Host Accounts*, *Getting Started* Chapter in the *GV-GIS User's Manual* on the Software DVD.



4.5 Starting the GV-GIS

After the host accounts are created, you are ready to start the GV-GIS service. Follow the steps below.

- On the toolbar, click the Start/Stop Service button Provide to start the GV-GIS service.
- Connect the hosts to GV-GIS. For mobile hosts, see 4.6 Connecting a Mobile Host to GV-GIS later. For fixed hosts, see 4.7 Connecting a Fixed Host to GV-GIS later.



4.6 Connecting a Mobile Host to GV-GIS

You can have GV-Video Server, GV-Compact DVR, GV-System and GV-Recording Server/GV-Video Gateway as mobile hosts. Configure your hosts to connect to GV-GIS.

Before You Start

Before connecting your mobile host to GV-GIS, make sure:

- The GPS receiver is installed to the mobile host and the GPS function is activated.
- Mobile internet connection on the mobile host is enabled.

Connecting GV-Video Server or GV-Compact DVR:

1. On the Web interface of GV-Video Server or GV-Compact DVR, select **GV-GIS**.

GeoUision	GV-GIS		
 Video and Motion Digital I/O and PTZ 	In this section you can configure the connection to GV-GIS and tasks to perform.		
Events and Alerts	GV-GIS Server		
• Email			
* FTP	Activate Link		
Center V2	Host name or IP Address:	192.168.0.127	
[▶] VSM	Port number:	3356	
GV-GIS	User Name:	joyce	
Viewlog	Password:	•••••	
* <u>3GPP</u>	Cease motion detection messages from	Select all Camera 1 Camera 2	
Monitoring	Cease input trigger message from	Select all input 1 input 2 input 3 input 4	
Recording Schedule	Enable schedule mode		
Remote Viewlog			
Network	Apply		
Management			
Logout			
•	Select schedule time		

Figure 4-9

- 2. Select Activate Link.
- 3. Type the IP address or domain name of the GV-GIS.
- 4. Keep **Port number** as default, or change it if necessary.

GeoVision

- 5. Type the **User Name** and **Password** to log onto the GV-GIS. These entries must match the ID and Password created on the GV-GIS. See *Creating a Mobile Host* in *4.4 Creating Host Accounts*.
- 6. Click Apply to connect. When the connection is established:
 - the message "Status: Connected. Connected time: xxx" will be displayed at the bottom of the configuration page.
 - the mobile host icon will move to its actual location on the map.

Connecting GV-System

You can create a mobile host for GV-System on the GV-GIS to track the locations of GV-System, and for GV-Video Server and GV-Compact DVR connected to GV-System. For the settings on GV-System, see *GPS Settings on GV-System*, Appendix D, in the *GV-GIS User's Manual* on the Software DVD.

Connecting GV-Recording Server/GV-Video Gateway

You can create a mobile host for GV-Recording Server/GV-Video Gateway on the GV-GIS to track the locations of GV-Video Server and GV-Compact DVR connected to GV-Recording Server/GV-Video Gateway. For the settings on GV-Recording Server/GV-Video Gateway, see *GV-Recording Server User's Manual*.

4 GIS

4.7 Connecting a Fixed Host to GV-GIS

You can have GV-System, GV-Video Server, GV-Compact DVR, GV-IP Camera or GV-IP Speed Dome as fixed hosts.

Connecting GV-System

On the main screen, click the **Network** button , select **Control Center Server** and select **Control Center Service**.

Connecting GV-Video Server, GV-Compact DVR, GV-IP Camera, GV-IP Speed Dome

These IP devices do not need to be set up for connection.