

2. Center V2

2.1 Introduction

Center V2 is part of the GeoVision Central Monitoring Solution that allows operators to monitor multiple GV-DVRs or IP devices from a central PC. It is an event-driven application that will receive live video from each DVR/NVR or IP devices as camera popup with the option to record the video clip at the Center V2 site as well. The events can be triggered by either camera motion or a panic button.

Basic Center V2 allows connections for up to 5 subscribers with no additional license required. In order to connect to more than 5 subscribers, an additional Center V2 license USB key will be required in order to use Center V2 Pro. Center V2 software can be installed from either **v8.4 GeoVision Main System Installation Disk** or **v8.4 GeoVision Central Monitoring Solution Installation Disk**.

2.2 Main Features

Application	Feature
Center V2	Live videos and text alerts; Display up to 42 screen divisions; Serve up to 500 subscribers and 800 channels (professional edition); Remote playback.

2.3 System Requirements

Standard Version

OS	32-bit	Windows XP / Vista / 7 / Server 2008
	64-bit	Windows 7 / Server 2008
CPU	Pentium 4, 3.0 GHz with Hyper-Threading	
Memory	2 x 512 MB Dual Channels	
Hard Disk	The hard disk space required to install Center V2 (Standard Version) must be at least 1 GB.	
VGA	NVIDIA GeForce 8600 GT / ATI Radeon X1650	
DirectX	9.0c	

Professional Version

OS	32-bit	Windows XP / Vista / 7 / Server 2008
	64-bit	Windows 7 / Server 2008
CPU	Core 2 Duo, 2.4 GHz	
Memory	2 x 1 GB Dual Channels	
Hard Disk	The hard disk space required to install Center V2 (Professional Version) must be at least 1 GB.	
VGA	NVIDIA GeForce 8600 GT / ATI Radeon X1650	
DirectX	9.0c	
Hardware	GV-USB Dongle	

2.4 Software Installation

2.4.1 Install from Main System Disk

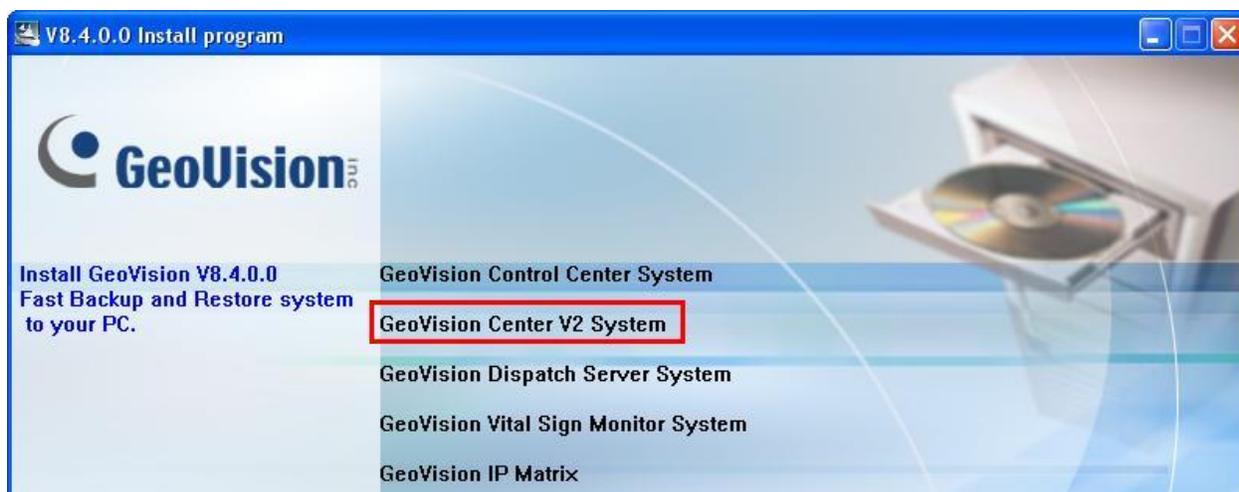
1. Insert “**v8.4 GeoVision Main System Installation Disk**” into DVD-ROM.
2. In the menu, select “**3. Install GeoVision v8.4.0.0 System**”.
3. Select “**GeoVision Center V2**”.



4. Follow on-screen instructions to complete setup.

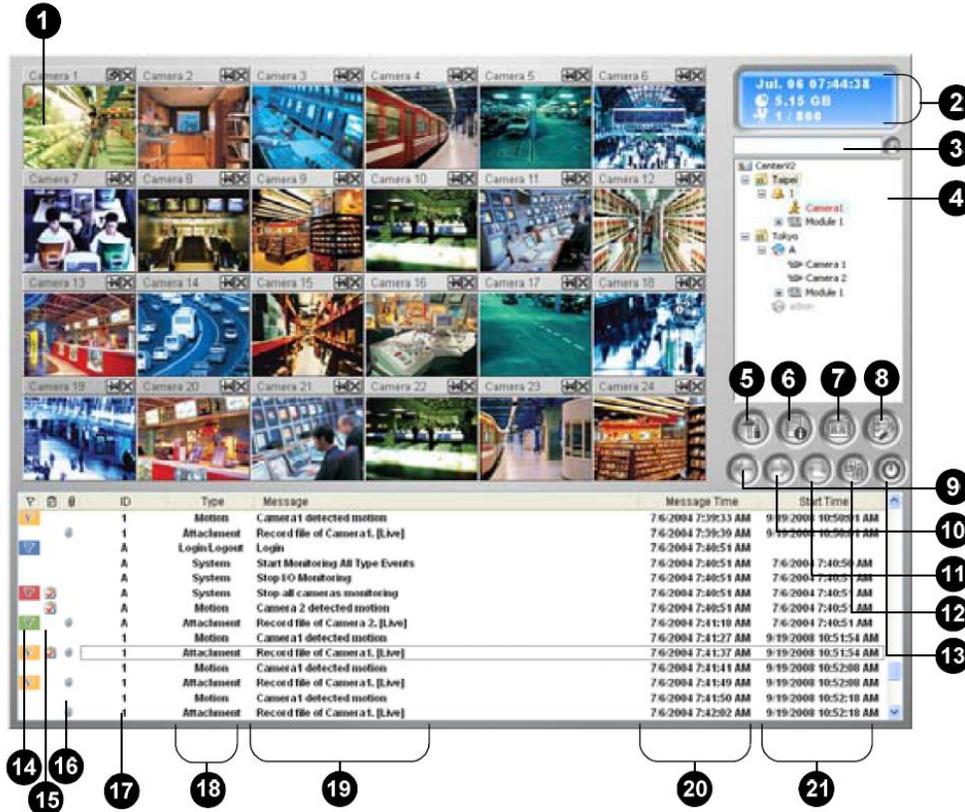
2.4.2 Install from CMS Disk

1. Insert “**v8.4 GeoVision Central Monitoring Solution Installation Disk**” into DVD-ROM.
2. In the menu, select “**3. Install GeoVision v8.4.0.0 Central Monitoring System**”.
3. Select “**GeoVision Center V2 System**”.



- Follow on-screen instructions to complete setup.

2.5 Setup



The controls on the Center V2 window:

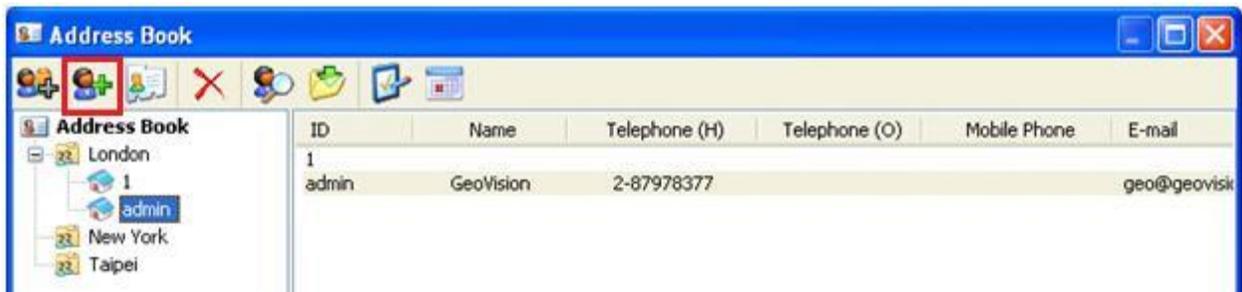
No.	Name	Description
1	Monitoring Window	Displays live video.
2	Status Panel	Indicates the date, time, remaining disk space, and the total number of online channels versus available channels.
3	Find A Subscriber	Type the desired ID in the Current Subscriber field and click this button to search.
4	Subscriber List	Displays subscribers' ID names and online status. Blue Icon: Indicates the subscriber is online. 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.
12	Split Mode	<p>In the 1024 x 768 resolution, select 6, 15, or 24 screen divisions for a single monitor; 9, 25, or 36 screen divisions for dual monitors.</p> <p>In the 1280 x 1024 resolution, select 6, 12, or 24 screen divisions for a single monitor; 9, 20, or 42 screen divisions for dual monitors.</p> <p>In the 1600 x 1200 resolution, select 6, 12, or 24 screen divisions for a single monitor; 9, 16, or 36 screen divisions for dual monitors.</p> <p>In the 1680 x 1050, 1920 x 1200 and 1440 x 900 resolutions, select 6, 15, or 28 screen divisions for a single monitor; 9, 20, or 42 screen divisions for dual monitors.</p> <p>In the 1920 x 1200 resolution, select 6, 15, or 28 screen divisions for a single monitor; 9, 20, or 42 screen divisions for dual monitors.</p> <p>In the 1920 x 1080 resolution, select 6, 15, or 28 screen divisions for a single monitor; 6, 20, or 35 screen divisions for dual monitors.</p> <p>In the 1280 x 800 resolution, select 6, 12, 24 screen divisions for a single monitor; 9, 16, 30 screen divisions for dual monitors.</p>

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.

2.5.1 Setup Subscriber Account

1. In Center V2, click on “**Accounts**” button (item 7 in the picture above).
2. Under Address Book window, click on “**Add a Subscriber**” button.



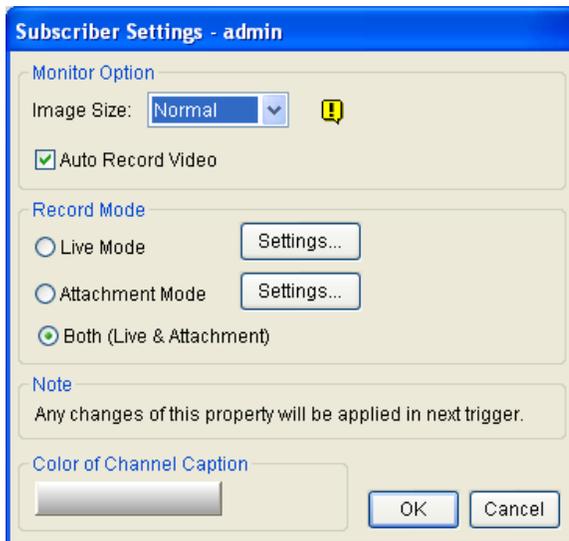
- ✓ *A subscriber can be a DVR/NVR, GV-Video Server, GV-Compact DVR, or a GV-IP Camera*

3. Create a set of “**Login ID**” and “**Password**” for the subscriber.

- ✓ *The ID and password created here will be used by the DVR when connecting to Center V2*

4. Input detail information for this subscriber if necessary.
5. Click “**OK**”.

6. Select desired “**Image Size**” to be received from the subscriber.
 - a. *Higher resolution will also consume more bandwidth.*
7. Check on “**Auto Record Video**” to save a copy of video clip on Center V2 PC when live video stream is received from the subscriber.
8. Select “**Live Mode**”, “**Attachment Mode**”, or “**Both**”.
 - a. **Live Mode** transmits live video continuously to Center V2 for recording, but it also consumes most bandwidth.
 - b. **Attachment Mode** initiates video recordings only when monitored events are triggered.
 - c. **Color of Channel Caption** allows Center V2 operators to easily distinguish live video feeds from different subscribers by color.



9. Click “**OK**” to finish and save Subscriber Settings on Center V2.
 - a. *At this stage, Center V2 is ready to be connected by DVR/NVR*
- ✓ For detail instruction, refer to p.8 of v8.4 CMS User Manual

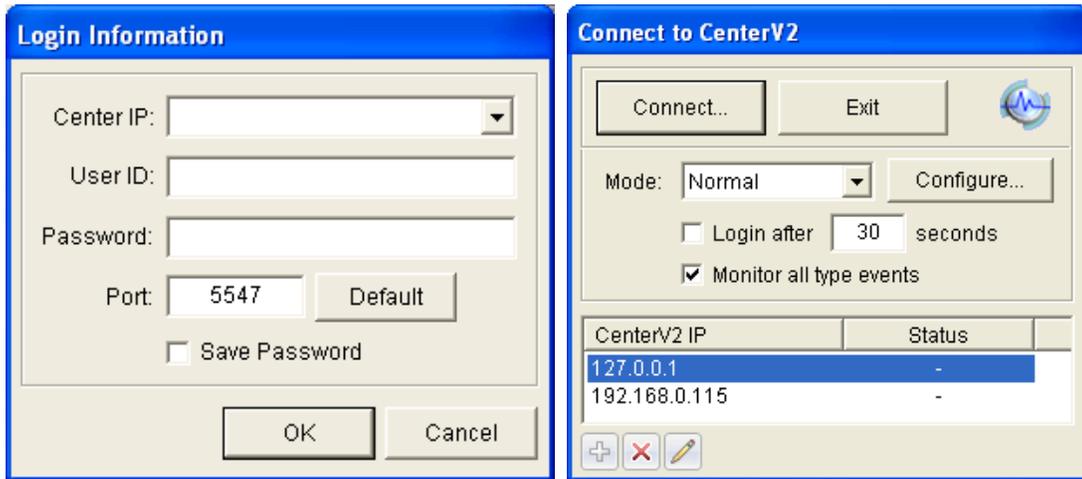
2.5.2 Open Connection Port

1. By default, Center V2 uses port **5547** in order to allow GV-DVR connection from another network (not within LAN). Port **5551** is required for GV-IP Device connection.
- ✓ Refer to p.44 “Network Port Configuration” in GeoVision Technical Handbook Part I for port forwarding instructions

2.5.3 Connect to Center V2

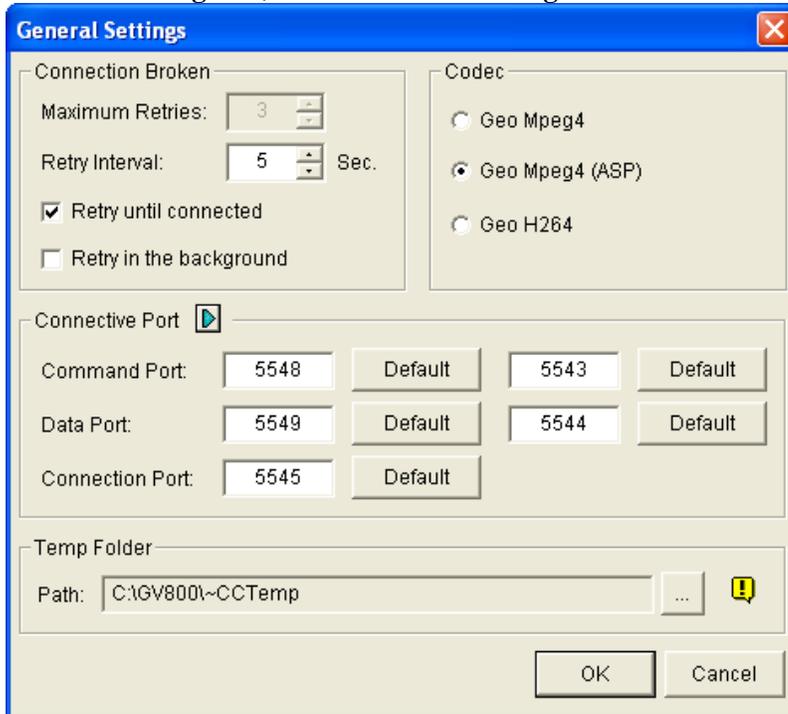
- ✓ *In order to connect GV-DVR/NVR to Center V2, the connection must be initiated from the DVR. Thus, the following procedure is performed on GV-DVR system.*

1. In GeoVision Multicam, click on the “**Network**” icon.
2. Select “**Connect to Center V2**”.

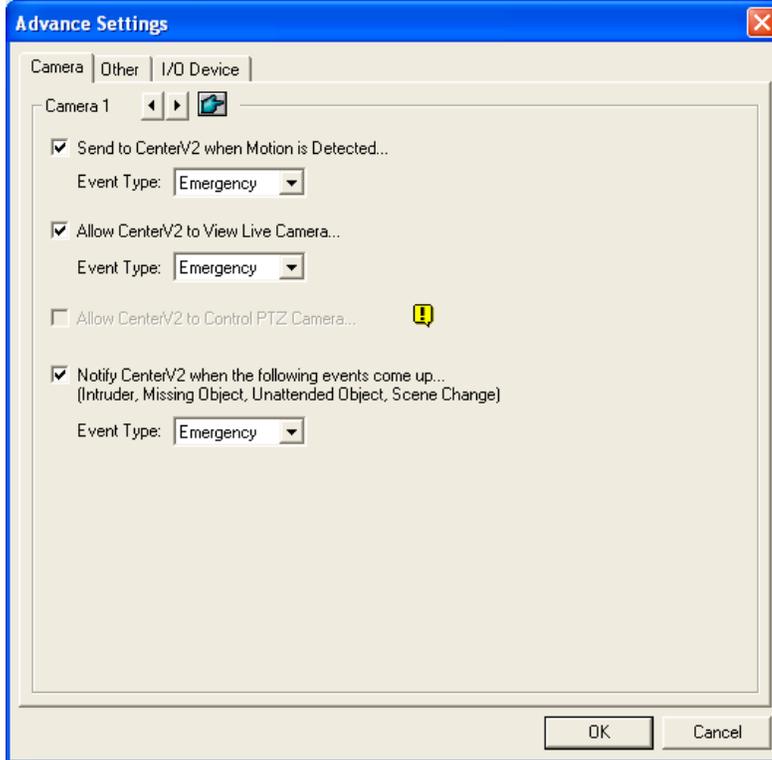


3. Enter Center V2 IP address in “**Center IP**”.
4. Enter **User ID** and **Password** as created in Step 3 in Section 2.4.1 above.
5. Click “**OK**”.

6. In Connect to Center V2 window, to add a Center V2 connection, click on .
7. To edit a Center V2 connection, click on .
8. To remove a Center V2 connection, click on .
9. Click on “**Configure**”, select “**General Settings**”.



10. Select video compression codec for video streaming to Center V2.
11. Note the connection ports. By default, Command Port is **5548**, Data Port is **5549**, and Connection Port is **5545**. A second set of connection ports may be available when connecting to two Center V2 stations.
12. Click “**OK**”.
13. Click on “**Configure**”, select “**Advance Settings**”.



14. For each camera, define the scenario in which video will be sent to Center V2.
 - a. To send video to Center V2 by motion detection, select **Emergency**.
 - b. To send video to Center V2 only when an input device is triggered, select **Normal**.
 15. Click “**OK**”.
 16. Click “**Connect...**” to initiate connection to Center V2.
- ✓ For detail instruction, refer to p.16 of v8.4 CMS User Manual

2.5.4 Open DVR Connection Port

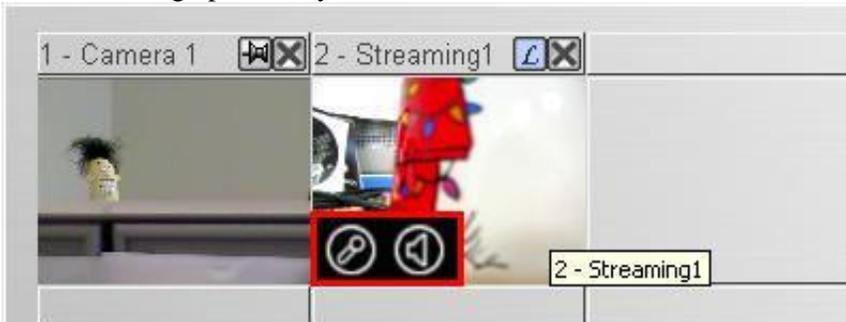
1. By default, GV-DVR uses ports **5545**, **5548**, and **5549** when connecting to Center V2 (as shown in Step 11). Therefore, in order to allow GV-DVR to connect to Center V2 in another network (not within LAN), it is necessary to open ports **5545**, **5548**, and **5549**.
- ✓ Refer to p.44 “Network Port Configuration” in GeoVision Technical Handbook Part I for port forwarding instructions

2.6 Additional Features

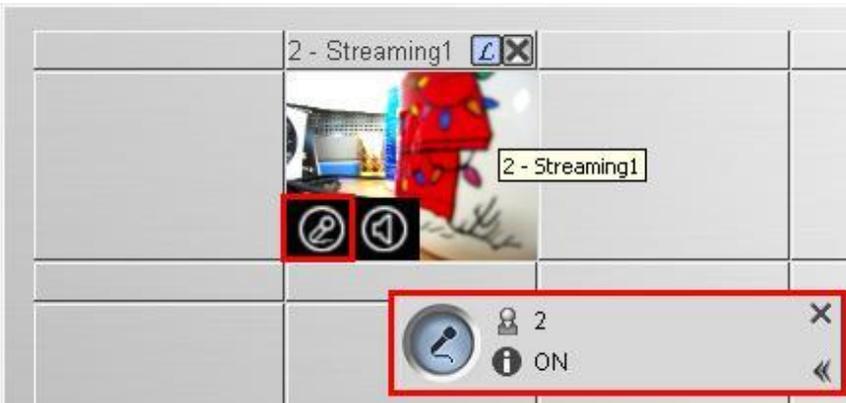
✓ The following settings can be configured in Center V2 as optional add-on features

2.6.1 Two-way Audio

1. To initiate two-way audio between subscriber and Center V2, float mouse cursor over the desired channel to bring up two-way audio menu.



2. Click on “Mic” button to broadcast audio to the desired subscriber.



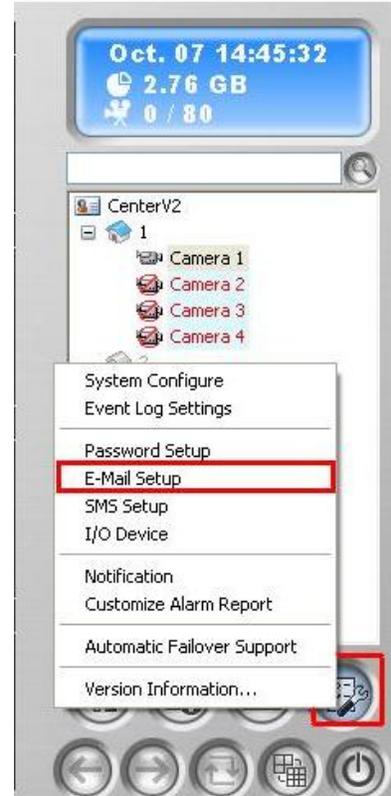
3. Click on “Speaker” button to hear audio from the camera.



- ✓ For detail instruction, refer to p.36 of v8.4 CMS User Manual

2.6.2 E-mail Setup

1. To setup an E-mail account for Center V2 alerts, click “**Preference Settings**”, then “**E-mail Setup**”.
2. Enter e-mail address that will be sending out alerts under “**E-Mail From:**”
3. Enter SMTP server address under “**SMTP Server**”.
4. Verify SMTP server is using default port 25.
 - ✓ *Webmail such as Yahoo and Hotmail generally uses non-default ports. Check with mail provider for exact port number*
5. Enter e-mail address that will be receiving alerts under “**E-Mail To:**”
 - ✓ *Multiple e-mail addresses can be separated by commas*
6. Enter e-mail subject under “**Subject**”.
7. Enter additional information under “**Mail Content**” if necessary.
8. Set E-Mail Alert Interval to prevent redundant e-mail.
 - ✓ *Default interval is set to 0 min, in which e-mail will be sent continuously until the event has been cleared.*

A screenshot of the 'Mail Setup' dialog box. The dialog is divided into two main sections: 'Setup' and 'Test'.
The 'Setup' section includes:

- Charset: Western European (Windows) (dropdown menu)
- E-Mail From: (text input field)
- SMTP Server: (text input field)
- SMTP Port: 25 (text input field) with a 'Default' button next to it.
- SMTP Server requires authentication (checkbox with a yellow warning icon)
- Account ID: (text input field)
- Password: (text input field)

The 'Alert Setup' section at the bottom left includes:

- E-Mail Alert Interval: 0 (text input field) Min.

The 'Test' section includes:

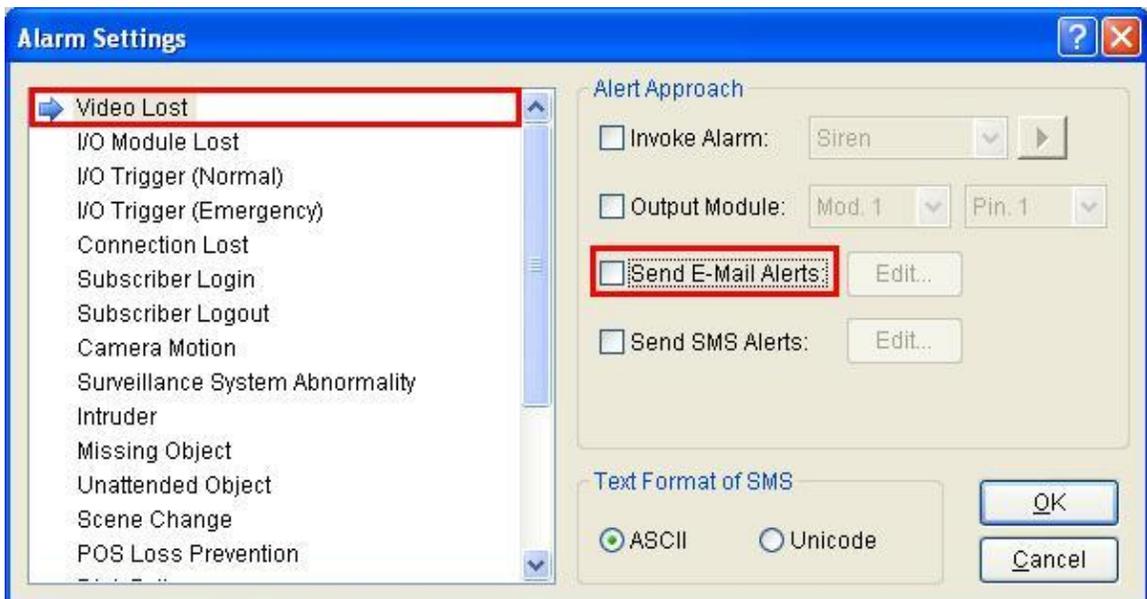
- E-Mail To: (text input field)
- Subject: (text input field)
- Mail Content: (text area) with a 'Test Mail' button and a hand icon pointing to it.

At the bottom right, there are 'OK' and 'Cancel' buttons.

9. Click “**Test Mail**” to see if a sample e-mail can be sent and received properly. If not, check for errors from steps 1 to 8.
 10. Click “**OK**”.
- ✓ For detail instruction, refer to p.72 of v8.4 CMS User Manual

2.6.3 Notification Setup

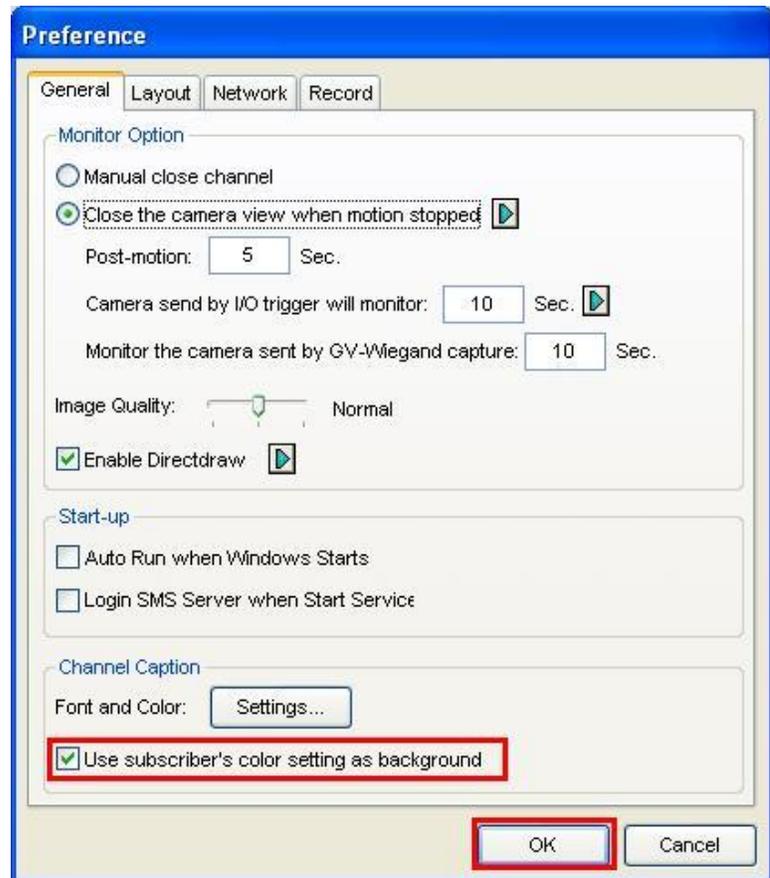
1. To setup notification for specific Center V2 events, click “**Preference Settings**”, then “**Notification**”.
2. Select the Center V2 event in which notification will be sent.
 - ✓ *Multiple alert methods can be applied on different Center V2 events.*
3. Select “**Send E-Mail Alerts**” to send e-mail alert when selected Center V2 event is received.
4. Edit e-mail subject and content as necessary for this event.
5. Click “**OK**” to exit E-Mail Setup.
6. Click “**OK**” to exit Alarm Settings.



- ✓ For detail instruction, refer to p.66 of v8.4 CMS User Manual

2.6.4 Change Subscriber Color

1. To apply color background for each subscriber in Center V2, select a specific color for each subscriber (section 2.5.1 step 8c).
2. In Center V2, click “**Preference Settings**”, then “**System Configure**”.
3. Select **General** tab, and check on the option “**Use subscriber’s color setting as background**” under Channel Caption.
4. Click “**OK**” to apply setting.



2.6.5 Dual Monitor

✓ *In order to display up to 42 channels on one monitor, Center V2 requires dual-display setup. Event list will be displayed on 2nd monitor in this mode.*

1. In Center V2, click “**Preference Settings**”, then “**System Configure**”.
2. Select **Layout** tab, and check on the option “**Floating Event List...**” then designate the position.
3. Click “**OK**” to apply setting.
4. Restart Center V2 software to apply the layout change.

