

## Central Monitoring by Vital Sign Monitor

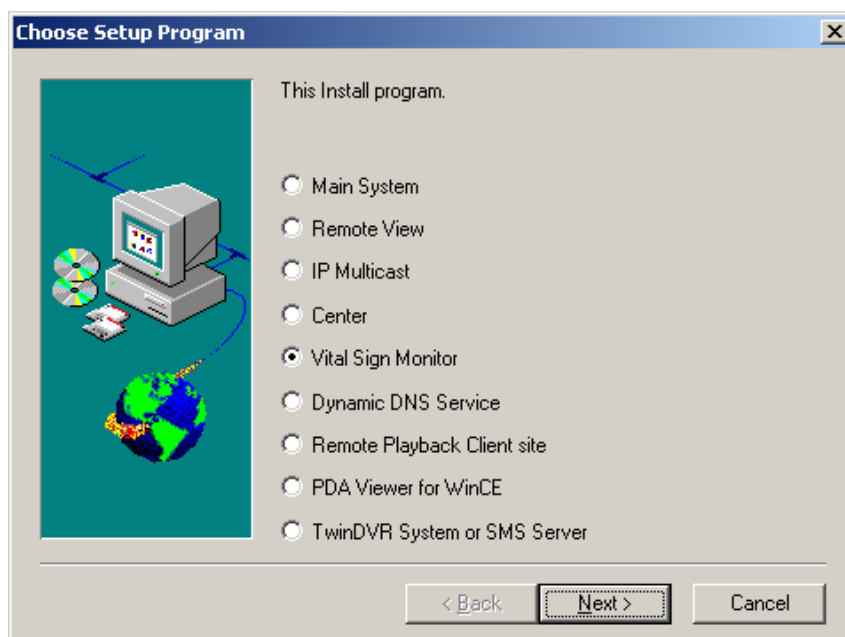
Vital Sign Monitor (VSM) applies to the center monitoring station where multiple GV-systems are being monitored. When alert events occur in a GV-system, VSM will receive alert text messages, computer noise alarms, and/or output alarms. The events that trigger alerts and notification are: Video Lost, I/O Module Lost, I/O Triggered, Connection Lost, Surveillance System Abnormality, Intruder, Missing Object, Unattended Object, POS Loss Prevention and Disk Full in a GV-system.

### Installing VSM

The VSM application comes with the system software. Install the VSM software on a PC with the following minimum requirements:

OS	Windows 2000, Windows XP, Server 2003
CPU	Pentium 4, 2.4G
Memory	512 MB RAM
Hard Disk	60GB
VGA	NVIDIA GeForce II 32MB at 1024 x 768 resolution
Network	TCP/IP

Insert the installation CD to your PC, run the Setup, select Vital Sign Monitor, and follow the instructions.

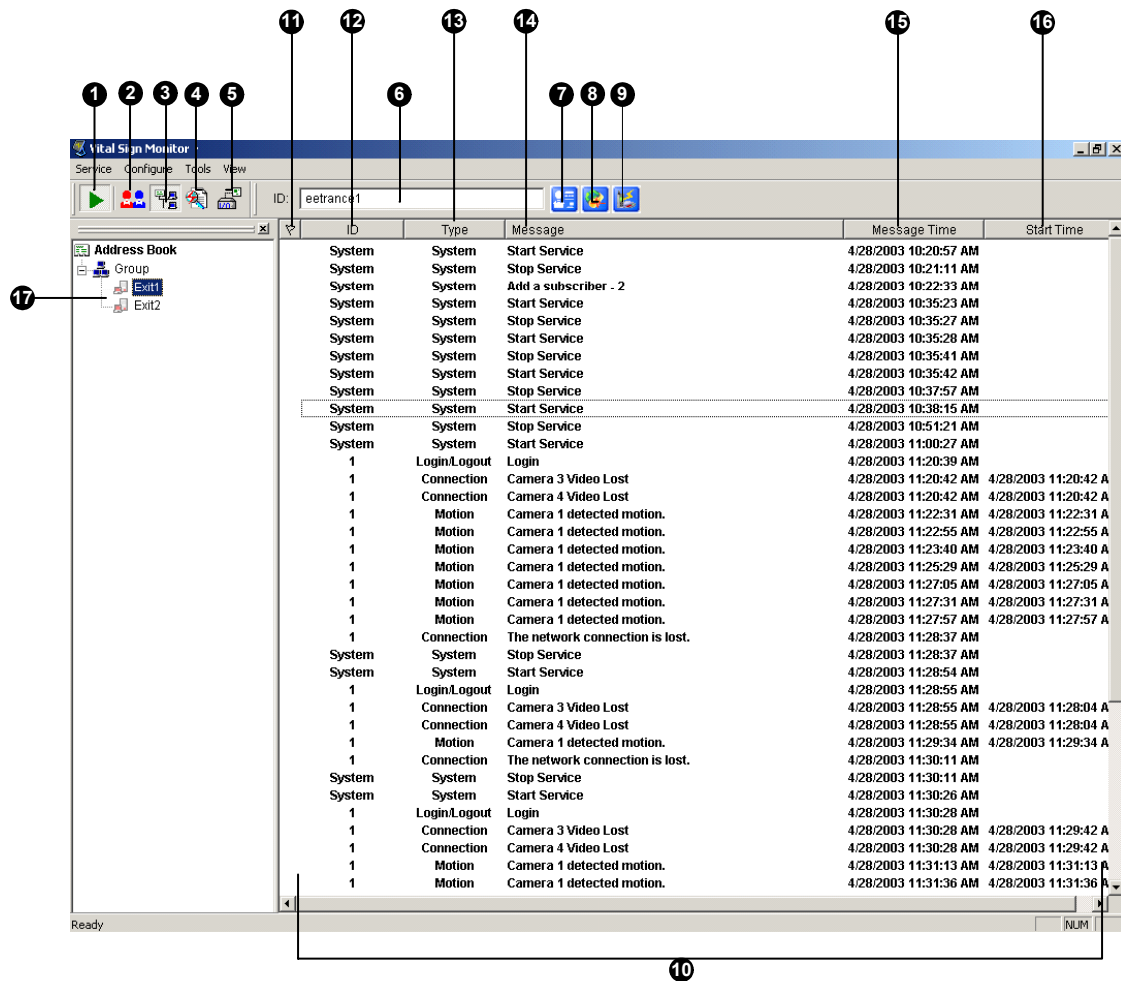


**Note:** The VSM application is provided with a USB keypro; make sure the keypro is tightly connected to the USB port of your PC.

## The VSM Window

After the program installation is completed, start the application from the Start Menu. This brings up the following window:

**Note:** Events will be listed only when VSM receives signals from subscribers.



**Figure 11-1** The VSM window

The controls in the VSM window:

No.	Name	Description
1	Start/Stop Service	Click to start or stop the VSM service.
2	Account	Click to display the Address Book window.
3	Show/Hide Subscriber List	Click to show and hide Subscriber List.
4	View Event Log	Click to launch Event Log Browser.
5	Force Output	Click to activate manually output devices to alert the VSM operator.
6	ID	Enter an ID for further search.
7	View Subscriber Address Book	Enter an ID, and then click the button to view the subscriber's address book.
8	View Subscriber Status	Enter an ID, and then click the button to see the subscriber's status.
9	Send Short Message	Click to send SMS to subscribers.
10	Event List	The window displays a list of events occurred.

11	Flag	Click this column to mark and/or unmark an event.
12	ID	This column displays the subscriber's ID.
13	Type	This column displays the event types, including System, Connection, Login/Logout, Motion, Trigger, and Alarm.
14	Message	This column displays the related information of subscribers' sites.
15	Message Time	The VSM's time when receiving the event message.
16	Start Time	The subscriber's time when sending out the event message.
17	Folder List	The list displays all created groups and subscribers. Right clicking any subscriber can call up a menu to select the control No. 7, 8 and/or 9.

A list of Types and Messages will be displayed on VSM:

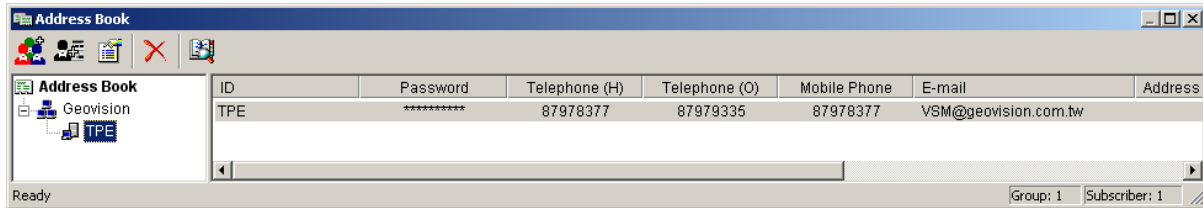
Type	Message
Motion	Camera xx detected Motion.
Trigger	Module xx-Input xx Triggered; Module xx-Input xx Trigger Resume.
Connection	Camera xx Video Lost; Video Signal of Camera xx has resumed; Module xx Lost; Module xx has resumed to normal.
Alarm	There isn't enough space for recording; Connection Lost; Multicam Surveillance System has been closed; Status change of monitoring cameras: on: camera xx, off: camera xx; Keep Days (xx) Alarm of Video Log is lower than xx days; Schedule Start/Stop; An unexpected error occurred in Mulicam Surveillance System (Error Code: 1 or 2); There is an intruder; Missing Object; Unattended Object; Alert Message of POS.
Login/Logout	Login; Logout.
System	Start/End Service; Fail to Start Service; Stop all camera monitoring; Start all camera monitoring.

**Note:** Error Code 1 indicates a codec error; Error Code 2 indicates that users can't write or record any data due to HD failure or user privilege.



## Creating a Subscriber Account

Before initiating the VSM service, at least create one subscriber account. One VSM can serve as many as 1,000 subscribers at a time. To create a subscriber account, follow these steps:

1. Click the Account button on the toolbar to open the Address Book window.



**Figure 11-2** The Address Book window

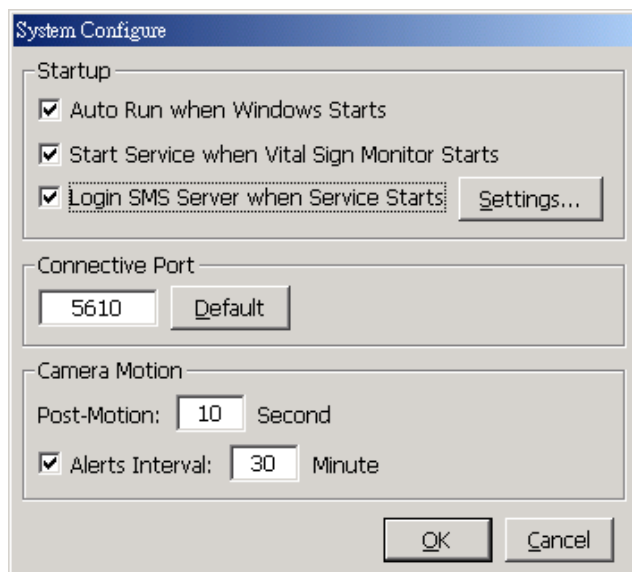
2. Click  the Add A Group button to create a group folder.
3. Click  the Add A Subscriber button to open the Subscriber Address Book window. The window is the same with that in Center V2. Refer to figure 9-2 on page 168.
4. Assign an ID and a password for the subscriber (required). This will be the ID and password when the subscriber logs in the VSM.
5. Fill out the subscriber's contact information for the rest of the fields (optional). If you wish to use the SMS feature later, enter the country code and a mobile number.
6. Click OK. This adds the subscriber to the group folder created before. Returning to the VSM window, you will see a message: *Add a subscriber – xxx.* (Subscriber xxx has been added.)

## Configuring VSM

On the window menu, click Configure to see the five options: System Configure, Password Setup, Event Log Settings, Notification and Local I/O Device. These options are discussed in this section.

### System Configuration

Click Configure on the window menu, and then select System Configure to open the following dialog box:



### [Startup]

- **Auto Run when Windows starts:** Launch automatically VSM at Windows startup.
- **Start Service when Vital Sign Monitor starts:** Start automatically the service every time when VSM is started up.
- **Login SMS Server when Service starts:** Log in automatically to the SMS sever when VSM is in service.

**[Connective Port]** Set the port to match that of the subscriber, or keep it as default.

### [Camera Motion]

- **Post-Motion:** Specify the duration of the highlighted text for the incoming message upon motion detection.
- **Alerts Interval:** Select the option and specify the time interval between the incoming messages upon motion detection.

## Password Settings

You can set an administrator password to prevent others from changing your settings by accident. Click Configure and then select Password Setup.

While the password setting is enabled, you can still start monitoring but will not be allowed to change settings or stop monitoring. To change settings, click Service on the window menu and then select Login as Administrator. To re-start the password function, click Service and then select Logout Administrator.

## Event Log Settings

Click Configure on the window menu, and select Event Log Settings to display the Event Log Settings window. The settings are the same as those in Center V2. Refer to *Event Log Settings* in Chapter 9, on page 180.

## Notification Settings

VSM can automatically activate the assigned computer noise alarm and output alarm to notify the operator while a SMS message being sent out to the subscriber, when any of these alert conditions occur: Video Lost, I/O Module Lost, I/O Triggered, Connection Lost, Surveillance System Abnormality, Intruder, Missing Object, Unattended Object, POS Loss Prevention and Disk Full.

For the application, click Configure on the window menu and select Notification to display the Alarm Settings window. The settings are the same as those in Center V2. Refer to *Notification Settings* in Chapter 9, on page 183.

## Output Settings

To alert VSM with an output device, click Configure on the window menu and then select Local I/O Device. Currently the application only supports GV-IO devices with the maximum of 9 output modules. For the information on setup, refer to *Setting Up I/O Devices* in Chapter 2, on page 25.

## Starting VSM

After subscriber accounts are created and VSM is configured, the VSM is ready to provide services. Clicking the Start Service button on the VSM window to receive signals from subscribers.

When you like to disconnect one subscriber, open the Address Book window, select the subscriber from the folder list, right click it to call up a menu, and select Disable to disable the connection. Select Enable to restart the connection again.

## Subscribing to VSM

After a subscriber account is created in VSM, the subscriber can access the VSM services via Internet. To make the connection, follow the steps below. (The subscriber's PC must be equipped with GV-system.)

1. Click the Network button and select Connect to VSM(G) to display the following dialog box.

**Figure 11-3** Connect to Vital Sign Monitor

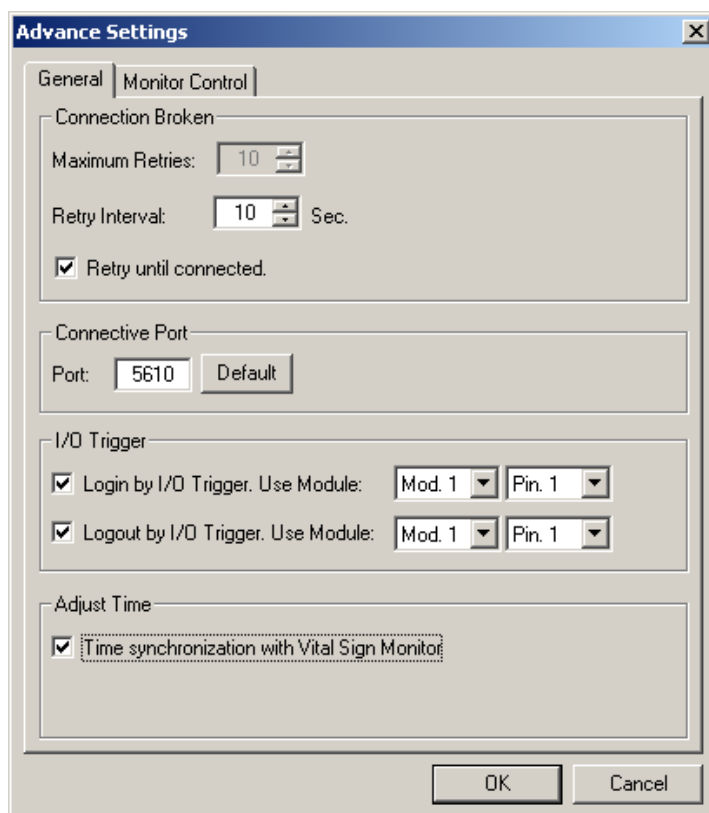
2. Enter the VSM's IP address, and the subscriber's ID and password created in the VSM.
3. Click the Advance button for further settings. (See *Advance Settings for Subscription* below)
4. Click the Connect button to connect with the VSM. Make sure that the VSM is also started for the connection.

## Advanced Settings for Subscription

The advanced settings let you configure the general communication mode between the subscriber and the VSM. See the *General Setting* section below. It also lets you define the conditions to notify the VSM. See the *Monitor Control Settings* section below.

### General Settings

Click the Advanced button on the Connect to Vital Sign Monitor window (see figure 11-3) to display the following dialog box.



**Figure 11-4** Advance Settings

**[Connection Broken]** Specify the number of retries and the retry time interval when the connection is not immediately available.

**[Connective Port]** Set the port to match that of VSM.

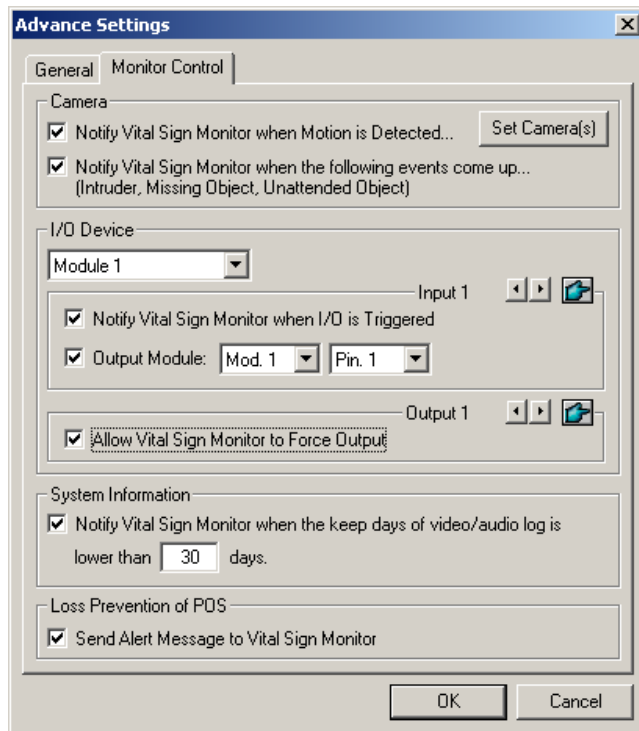
**[I/O Trigger]** Enable the function to log in or out VSM only when designated I/O modules are triggered.

**[Time Synchronization]** Enable the time increment/decrement of minutes and seconds at the subscriber site to match the time at VSM.

**Note:** When the item of Time Synchronization is checked, the function of synchronization is activated as soon as VSM is started up, and it will be re-activated every 24 hours.

## Monitor Control Settings

Click the Monitor Control tab on the Advance Settings window (see figure 11-4) to display the following dialog box.



**Figure 11-5** Monitor Control Settings

### [Camera]

- **Notify Vital Sign Monitor when Motion is Detected:** Notify VSM when any of the selected cameras detect motion. Click Set Camera(s) button to select desired cameras for the application.
- **Notify Vital Sign Monitor when the following events come up:** Notify Center V2 when any of these alert events occur: Intruder, Missing Object and Unattended Object.

### [I/O Device]

- **Notify Vital Sign Monitor when I/O is Triggered:** Notify VSM when any of the selected I/O devices are triggered.
- **Output Module:** Enable the assigned output module as soon as the selected input module is triggered.

**[Allow Vital Sign Monitor to Force Output]** Allow the VSM operator to manually force output devices installed at the subscriber's site.

**[System Information]** Notify VSM when the duration of the video/audio logs is less than the specified days.

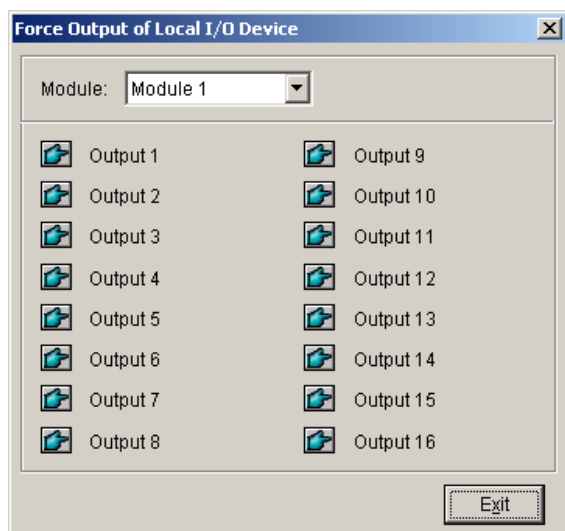
**[Lose Prevention of POS]** Notify VSM when abnormal POS transactions occur.

## Activating Output Devices

VSM allows you to manually activate the output devices installed either at the VSM site or at the subscriber site.

### Forcing Outputs of VSM


To manually force the output devices installed at the VSM site, click the Force Output button on the VSM window to display the following window. Select the output module from the drop-down list, and then click finger buttons to activate output devices.

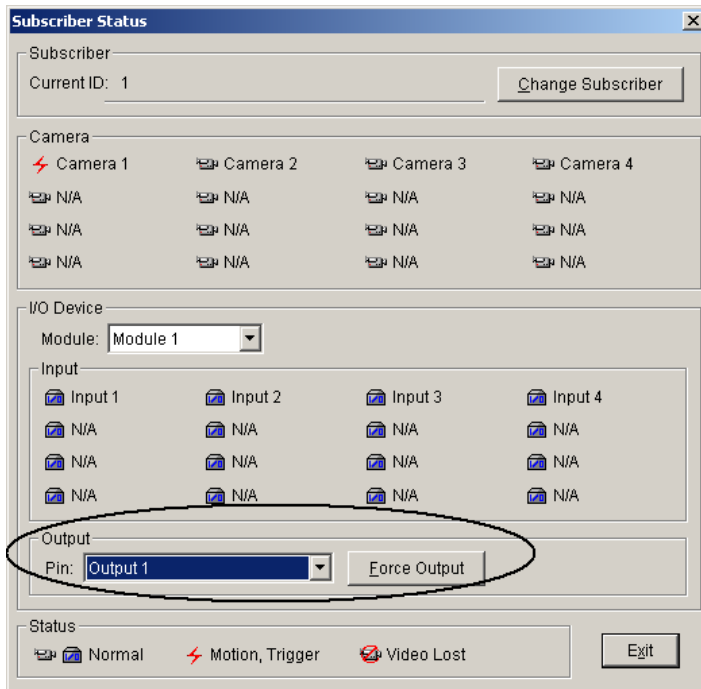


### Forcing Outputs of Subscribers

The VSM operator can manually activate output devices of subscribers if they allow this application.

The option of Allow Vital Sign Monitor to Force Output must be enabled first in the Monitor Control window. See figure 11-5.

Click  the View Subscriber Status button on the VSM window to display the following window. Select one output pin, and click the Force Output button to activate the output device at the subscriber site.



## SMS Alerts



This feature lets you send out SMS messages to subscribers when any of these alert conditions occur: Video Lost, I/O Module Lost, I/O Triggered, Connection Lost, Surveillance System Abnormality, Intruder, Missing Object, Unattended Object, POS Loss Prevention and Disk Full.

## Connecting to the SMS Server

Click Service on the window menu, and then select Connect to SMS Server. Enter the IP address, Port number, ID and Password of the SMS server, and then click Connect for the connection. For more information on the SMS sever, refer to *Short Message Service* in Chapter 12.

## Sending SMS

Once the connection between the SMS server and VSM is established, there are three ways to send out SMS messages to subscribers.

1. Click  the SMS button on the VSM window to send SMS to an individual subscriber manually.
2. Click any event type to call up a message window. Click  the SMS icon in the window to send SMS to an individual subscriber manually.
3. Click Configure on the window menu and select Notification to display the Alarm Settings window. Click the Send SMS Alerts check box to send SMS to subscribers automatically when alert conditions occur. See *Notification Settings* on page 200.

