IVS Central Basic

Quick Installation Guide
Version 1.5.1

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Minimum System Requirements

Hardware requirement:

- CPU: P4-2.4Ghz or Dual Core and above
- RAM: Minimum 1 GB, 2GB or above is recommended
- HDD: SATA 200GB or above is recommended
- Display card: Independent display card suggested
  - **Make sure your display DPI setting is set to default at 96DPI**
  - **To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"**
- Ethernet interface: 10/100Mb Ethernet card or above

Software requirement:

- OS: Windows 2000(SP4), Windows XP, Windows 2003

Installation CD Contents

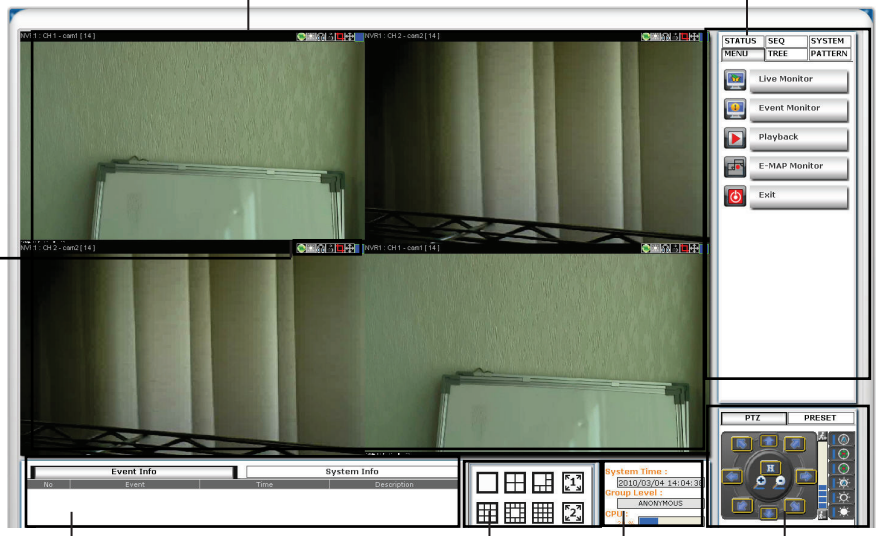
- Adobe Acrobat Reader
- Installation File
- Quick Installation Guide
- User's Manual
- Datasheet

User Interface Overview

1

Live Video
This is the section where the live videos are displayed

Menu Bar
This is where all functions can be accessed



Quick Access
Quick access buttons to certain functions that you can do to a live video

System Logs
Display system status information

Split Video Windows
Switch among different window split modes

System Info
Display the system information

PTZ Control
Control the PTZ camera

Live Video: This is where all the videos are displayed. You can decide what channels' videos to be displayed here by dragging cameras from the side menu bar and dropping them anywhere in this section.

Menu Bar: This is where you can access all functions of the software. Camera list and device status information are also available from the menu bar.

PTZ Control: This is where you can pan, tilt, zoom the selected PTZ camera. Functions such as preset point nevagation and auto pan can also be accessed here

System Info: It provides information of current system time, who is currently logged in and the CPU usage that the software is currently consuming.

Split Video Windows: You can change the video split windows with you desire depends on how many videos you wish to view at a time.

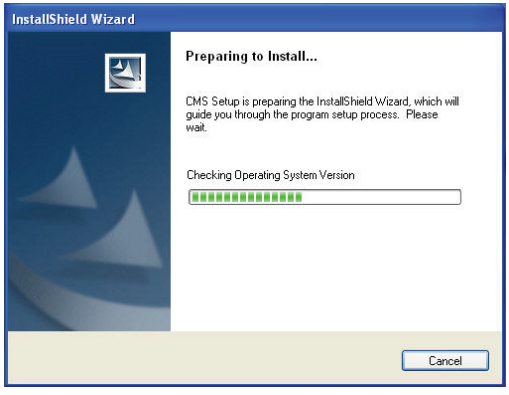
System Logs: System status such as motion detection, functions that were accessed or settings that were altered are displayed here.

Quick Access: Each video window comes with quick access buttons which allows you to quickly take certain actions to the video you are viewing.

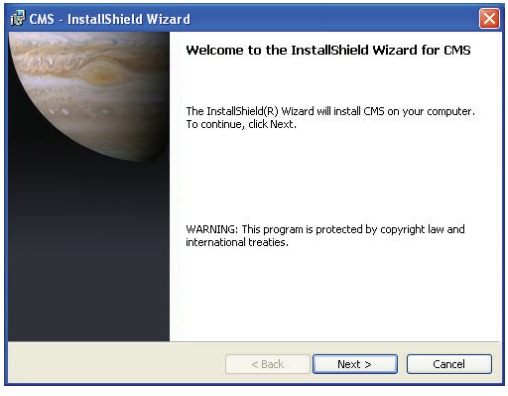
Begin Installation

The installation should launch as soon as you insert the CD. If not, simply double-click on your CD-ROM drive icon in “My Computer” to launch the installer.

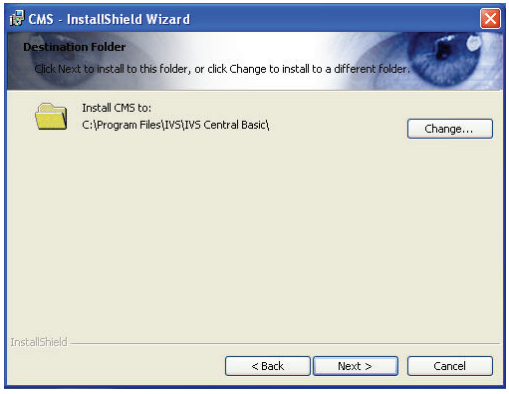
Once the installer is launched, it should start by checking the compatibility with the operating system you are running this installation on.



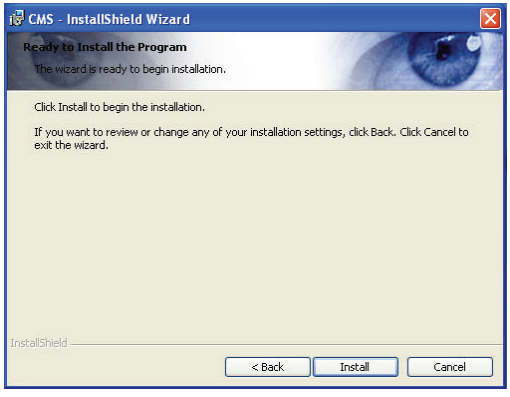
Once the compatibility check is passed, you can begin the installation by clicking “next”.



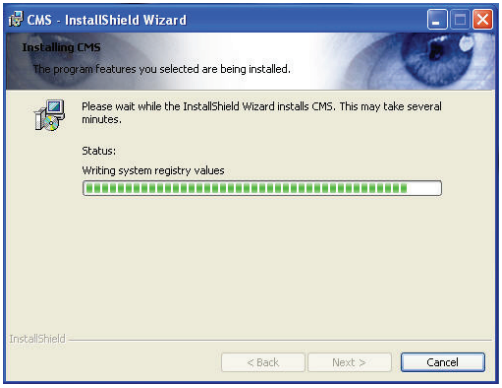
The installer will install the program in a pre-defined directory. You can accept the default and click "Next" to proceed with the installation.



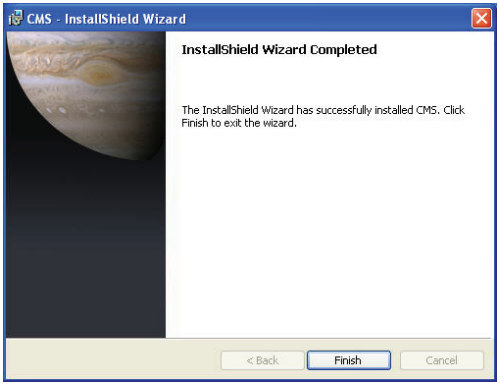
The installer will confirm the installation directory one more time. Click "Install" to begin installation, or click "Back" to change the installation directory.



The installer will display the installation process.

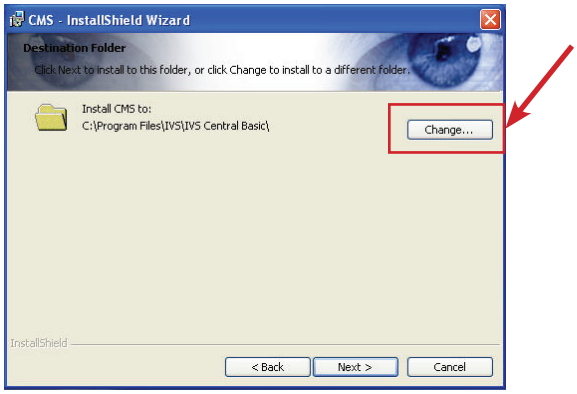


Once the installation is complete, click “Finish” to exit out the installer.

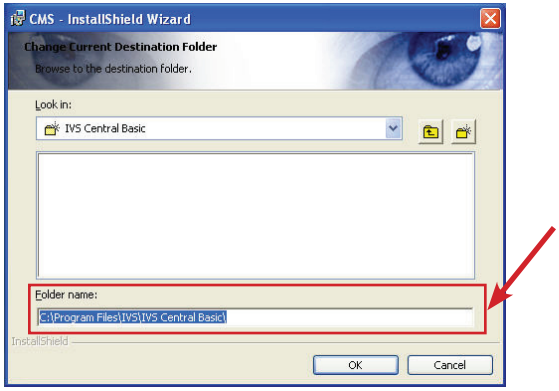


Change Installtion Directory

If you wish to install the program other than its pre-defined directory, click "Change" at the prompt where it displays the pre-defined directory,

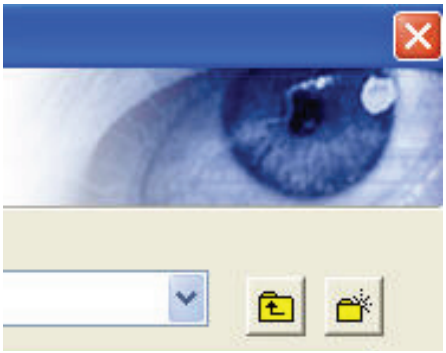


You will be prompted with a new window in which you can type in the new directory at the bottom.



Or you can choose the directory from the drop down menu.

If you need to install in a folder that doesn't exist yet, click "Create New Folder" to create it.

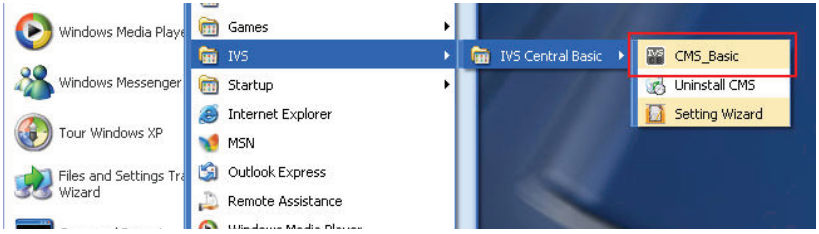


Start IVS CMS Basic

After the prgram is successfully installed on the PC, there are two ways to start it.

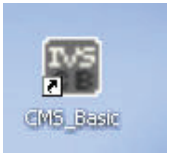
- Start it from the "Start" menu:

Simply go to "Start" >> "All Programs" >> "IVS" >> "CMS Basic"



- Start it from the desktop:

The program automatically creates a shortcut icon on your desktop after it's successfully installed. Simply double-click the icon to launch the program.



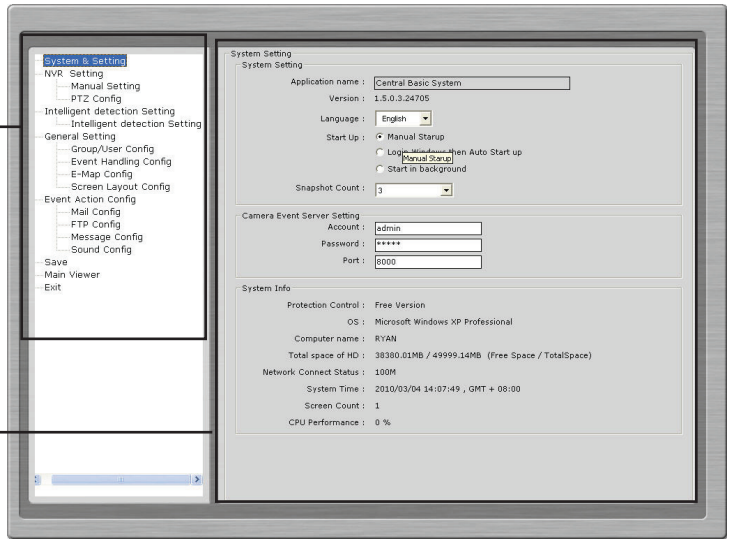
* You should run the "Setup Wizard" before launching CMS Basic. The Setup Wizard is a separate program which you can launch it the same way you launch the CMS (from Start menu). The purpose of the Setup Wizard is to help users with certain preliminary settings in order for the program to work with the network video recorder.

Using the Setup Wizard

3

Menu options --
Lists all the menu options available in the Setup Wizard

Configuration Window --
Displays configuration parameters of the selected menu option



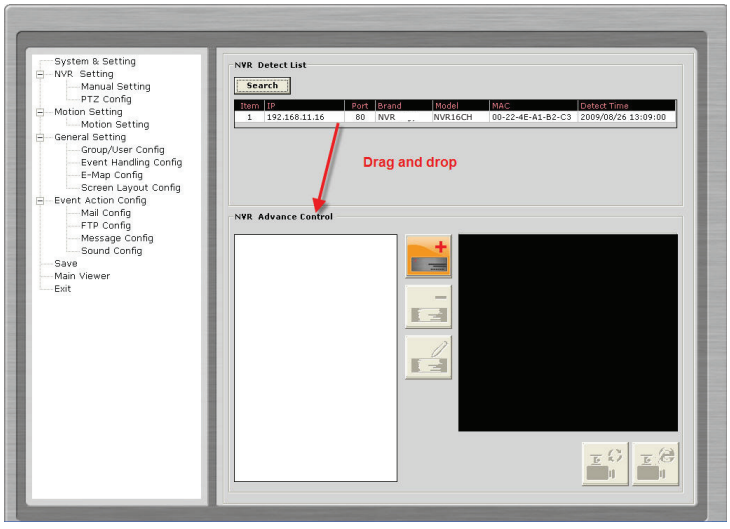
It's necessary to use the Wizard

The majority of the settings of the CMS software relies on its Setup Wizard. It's necessary that you run the wizard prior to using the CMS Basic.
With the Setup Wizard, you are able to:

- Add/Remove/Edit one or more NVR
- Configure PTZ preset points
- Configure Intelligent Detection
- Configure user privileges
- Configure how events are handled
- Configure E-map
- Configure multiple monitors
- Configure event actions

Add a NVR

4

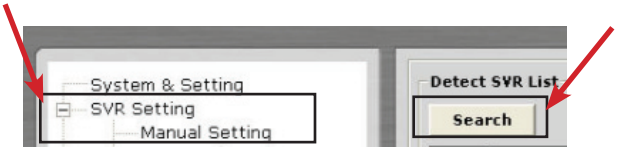


Connect the program with NVR

The main purpose of CMS software is to manage multiple NVRs. Before it can be done, you would need to tell the program which NVR you need it to manage. You do that by adding one or more NVRs to the program through the Setup Wizard.

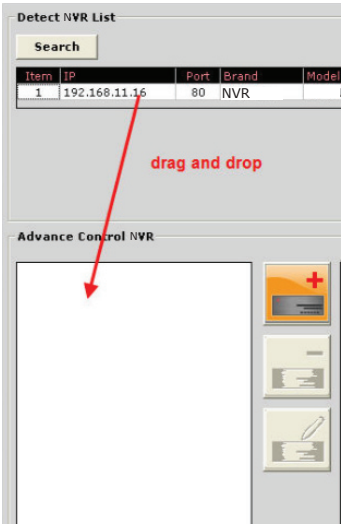
Automatic Search:

The Setup Wizard is able to find NVR on your local network automatically. Simply go to **"NVR Settings"** >> "**Manual Settings"** in the Setup Wizard, and click the search button to locate the NVR that are placed on your local network.

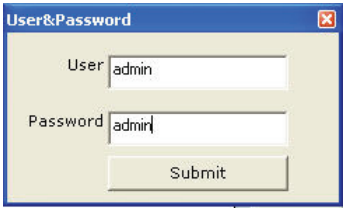


Drag and Drop to add

Once the Setup Wizard detects NVR on the network, they will be listed in the "Detect List". Simply drag one from the list and drop it in the "Advance Control List" below to add it



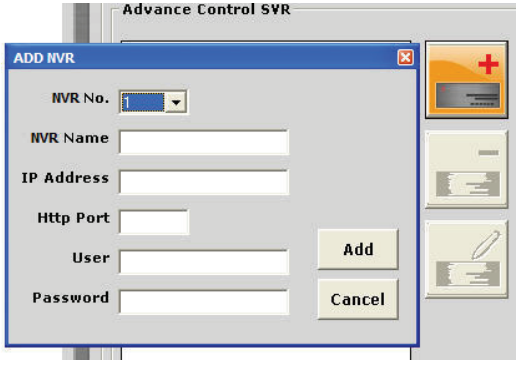
You will then be prompted with its username and password which you need to enter accordingly to complete the action.



Add NVR Manually with Setup Wizard:

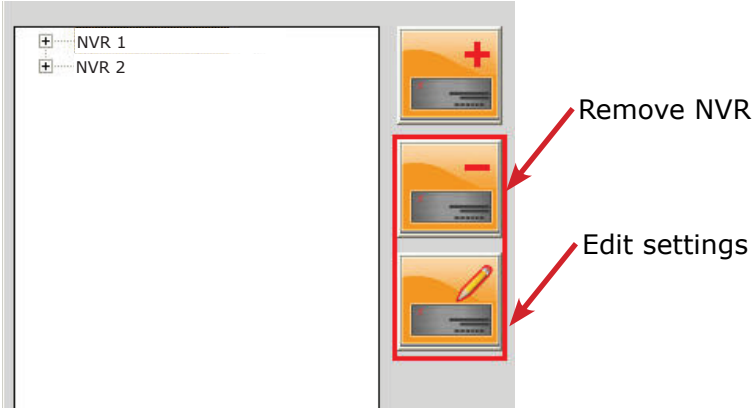
Simply click on the "Add NVR" button in the same page to add it manually.

You will be asked for the information shown below before successfully adding the NVR to the program.



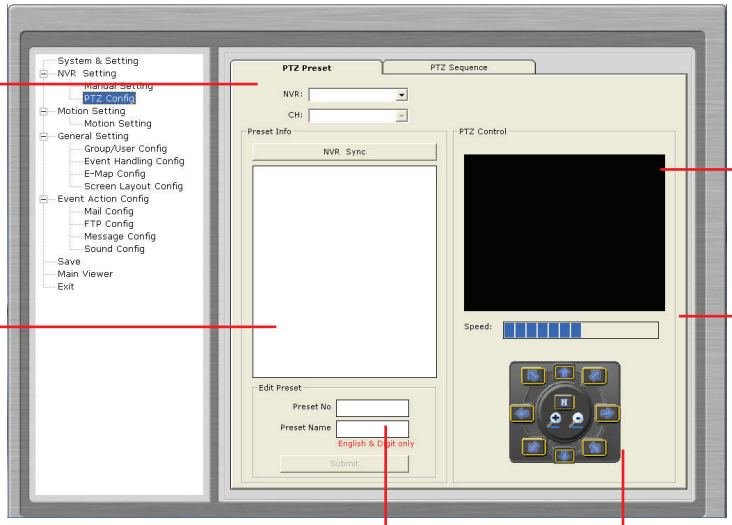
Remove a NVR or Edit its Settings

Once you have one or more NVR added to the program, the "Remove" and "Edit Settings" buttons will become available. Simply click to select a NVR from the list on the left and choose the corresponding button on the right.



PTZ Configuration

5



Select NVR and camera
Select which NVR and which camera from the drop-down list

PTZ Preset Points List
List of all PTZ preset points of the selected camera

Video Pre-view
You can get a video preview of the selected camera here

PTZ Speed Control
Adjust the increment of the PTZ movements

PTZ Preset Point Name
Add a new name or alter an existing name of a preset point

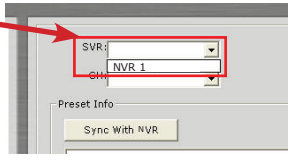
PTZ Control Panel
Use this panel to define a new preset point or make change to an existing one

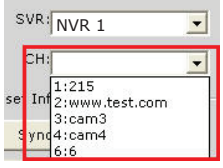
Synchronize or Add New PTZ Preset Points

You can synchronize PTZ settings from all cameras connected to the NVR on the network or you can create and add new PTZ preset points to those cameras through the Setup Wizard.

Simply select an NVR from the drop-down menu first and then select a camera to synchronize or add new PTZ preset points.

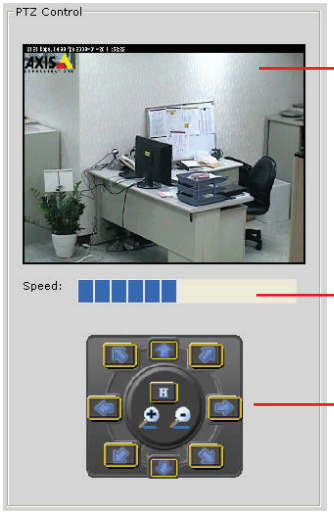
Select a NVR first





Then select a cam-era connected to the selected NVR

Use the provided PTZ control panel to define a PTZ preset point. You may change the speed of the PTZ movements if you will.

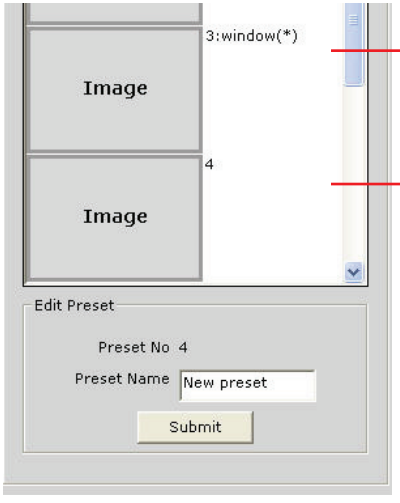


Video Preview
You can get a video preview of the selected camera here

PTZ Speed Control
Adjust the increment of the PTZ movements

PTZ Control Panel
Use this panel to define a new preset point or make change to an existing one

You can get a list of the preset points that have been added to the camera as well as the opening slots that are available which you can add new preset points to later on.

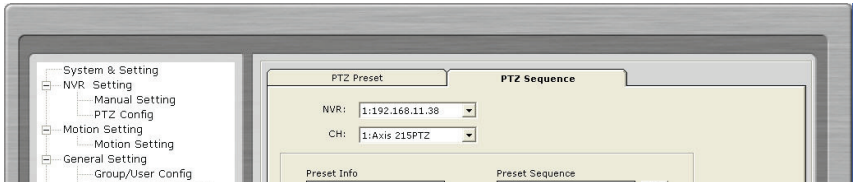


Slot configured with a PTZ preset point

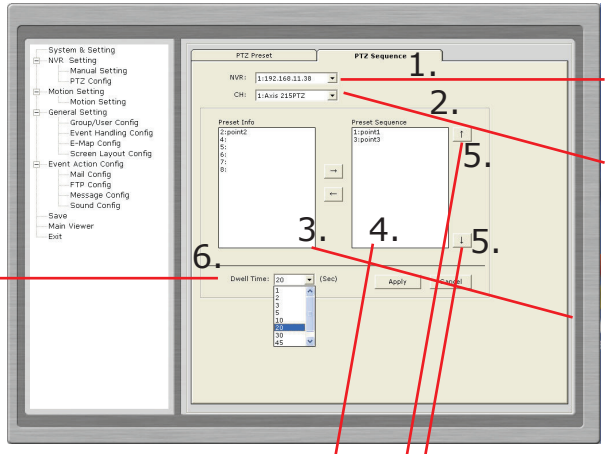
Slot that has not been configured with a PTZ preset point

Configuring PTZ Preset Sequence

You can configure the PTZ preset sequence after you create and define PTZ preset points for the cameras. To configure PTZ sequence, open the setup wizard and go to NVR setting >> PTZ Config >> PTZ sequence



You can see a list of the preset points that were added previously under the "Preset info" pane on the left (see below step 3), which you can then move ones to the right (Preset Sequence pane) for sequence viewing



Select an NVR first

Select an NVR from the drop down menu first

Select a PTZ Camera

Select a PTZ camera to configure PTZ sequence

Select Preset Points

The previously configured preset points will be listed on the left

Set Dwell Time

Finally set the dwell time for sequencing view among each point

Move the ones to the right

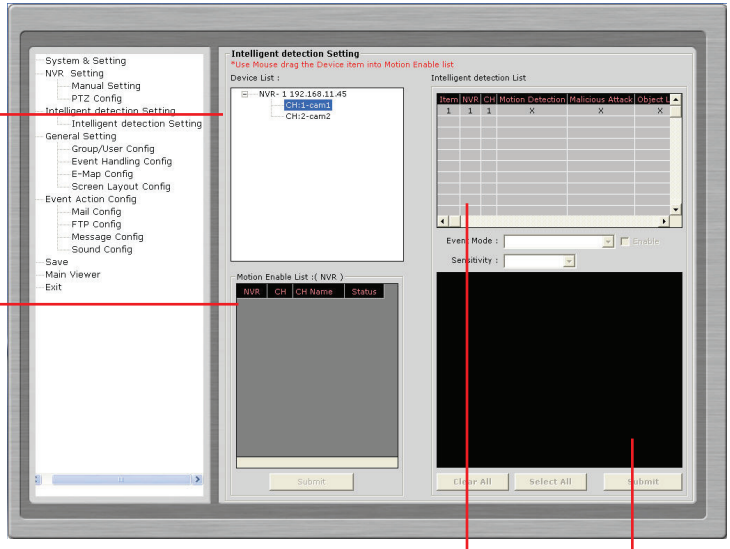
Move the preset points to the list on the right using the → which they will be used for PTZ sequencing

Adjust Sequence Order

You can use the ↑ or ↓ buttons to adjust the sequence orders

Intelligent Detection Setting

6



Device List
Lists of all NVR and cameras

Motion Enabled List
Enable receiving motion trigger sent from the NVRs

Intelligent Detection List
Configuration status of the intelligent detection functions on each camera

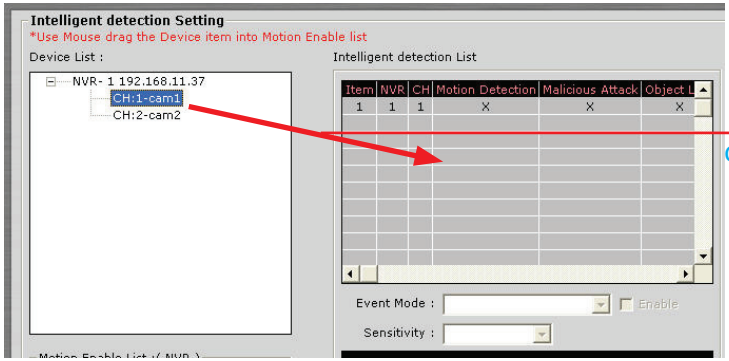
Video Preview
Video preview of the selected camera from the above list

Intelligent Detection Functions

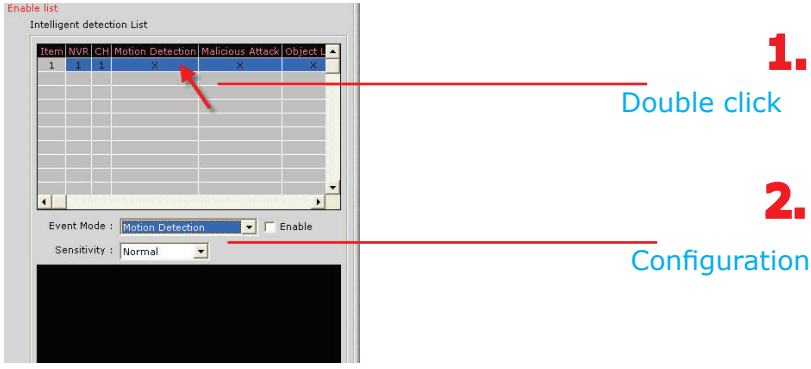
The program can be configured with multiple intelligent detection functions which can then be used to alert users when detecting something abnormal in the scene. The functions are as below:

- Motion Detection
- Malicious Attack (camera tampering)
- Object Loss Detection
- Tripwires

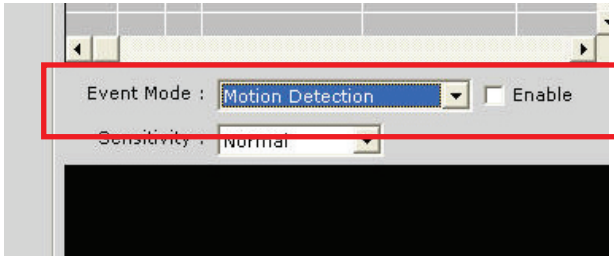
To enable and configure one of the intelligent detection functions for one or more cameras, click and drag the camera from the "Device List" onto the "Intelligent Detection List":



Double click on the desired channel in the "Intelligent Detection List" to enable configuration:

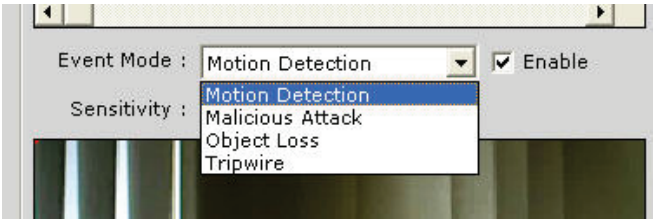


Finally, select the desired intelligent detection function from the "Event Mode" drop-down and make sure "Enable" is ticked:

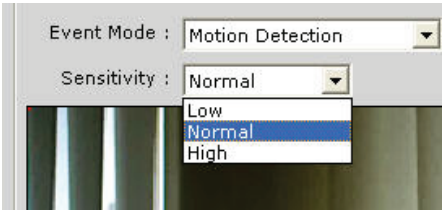


Configuring Motion Detection

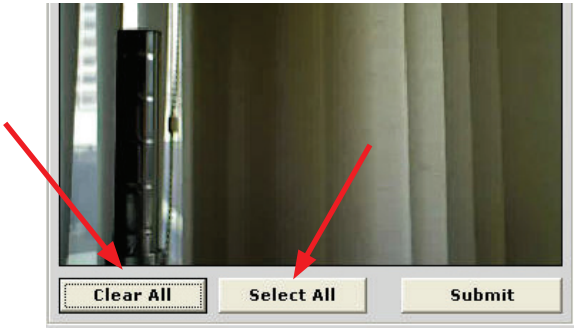
To configure motion detection, select "Motion Detection" from the "Event Mode" drop-down menu:



Next, select the desired sensitivity for motion detection:

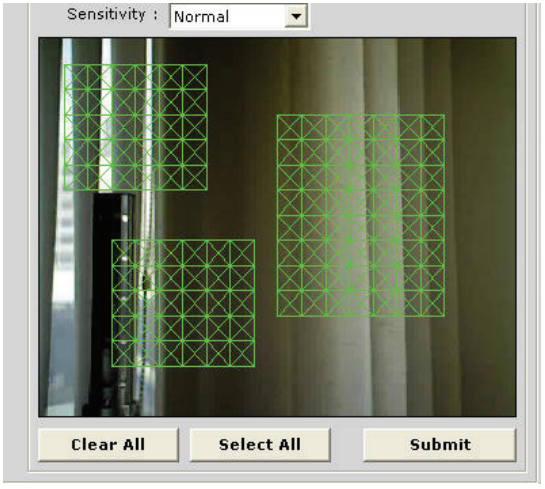


By default, the program does not have any area configured for motion detection, you can quickly click on "Select All" to enable the whole area for motion detection. You can always click on "Clear All" at anytime to start over:

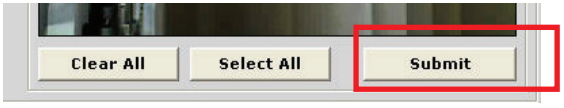


To configure a particular area for motion detection, simply click and hold down the mouse left button and move diagonally to select a desired area. You can do it repetitively to configure multiple areas for motion detection:

The configured areas will then be highlighted on the video with green cell boxes:

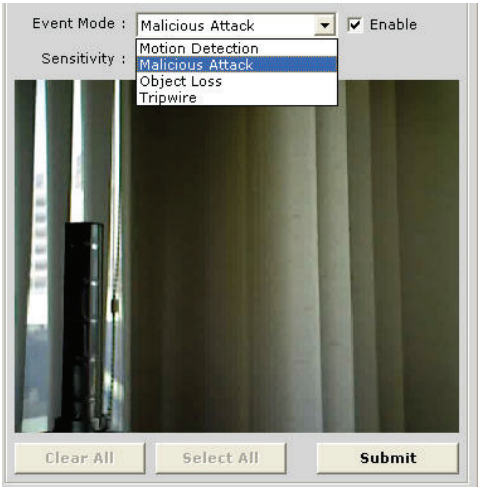


Finally, click "Submit" to save the configuration:



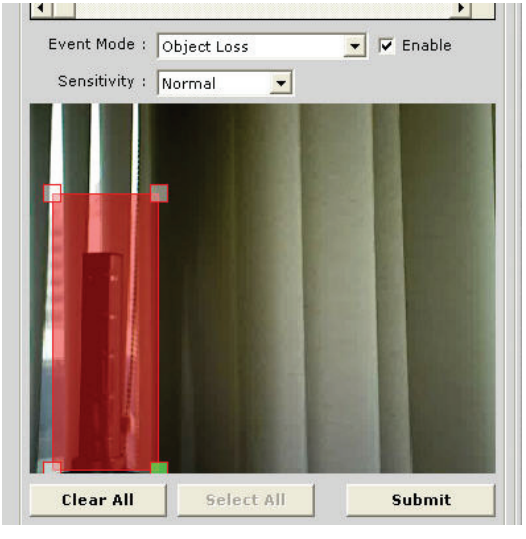
Configuring Malicious Attack

This is the function that when the camera is being physically tampered (sabotaged/or viewing area gets blocked), the CMS can detect such behavior and send out alert to the administrator. To enable this fuctions, simply select "Malicious Attack" from the "Event Mode" drop-down menu and click "Submit":



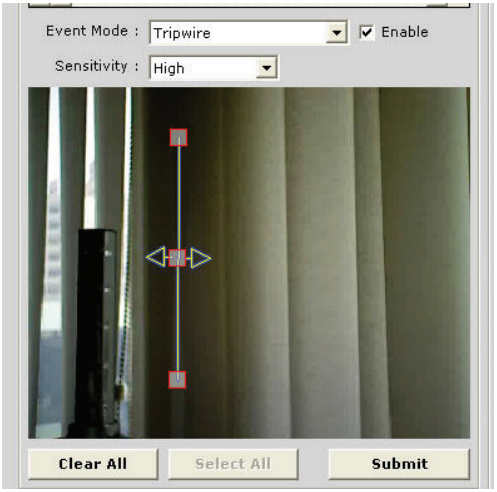
Configuring Object Loss

To select this function, select "Object Loss" from the "Event Mode" drop-down menu and then click and hold down the mouse left button and move diagnonally to draw an area (select the object in the scene) for object loss detection. The selected area(s) will be highlighted in red color like shown below:

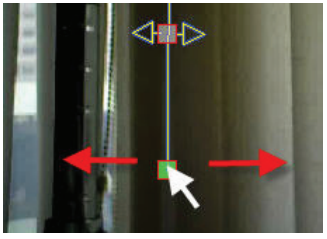


Configuring Tripwire

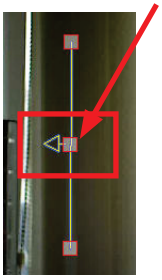
To configure tripwire, select "Tripwire" from the "Event Mode" drop-down menu. Click and hold down the mouse left button to draw a line on the video:

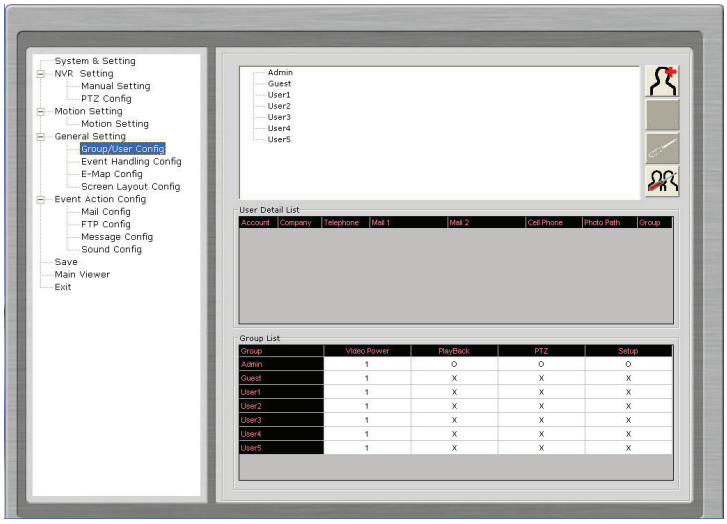


To re-arrange the position of the line, hover the mouse cursor onto either tip end and once you see the color of the cell box becomes green, click and hold down the mouse and move the cell box to a desired new position:



The tripwire function can be configure to detect traffic coming from one way or both. Bi-directional detection is enabled by default; to configure detection for one way only, click the cell box in the middle of the line. Click again to change direction.

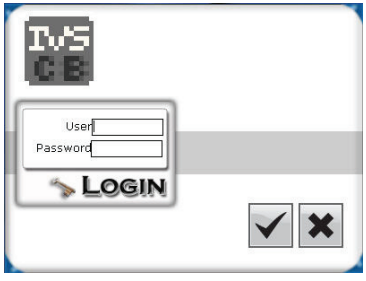




Users and Groups Configuration

The section allows users to add new users and customize each of their access privilege by assigning them to different user groups. The purpose of this function is to limit the number of people to have access to the program, hence, having access to view live videos, playback videos or altering settings of the program.

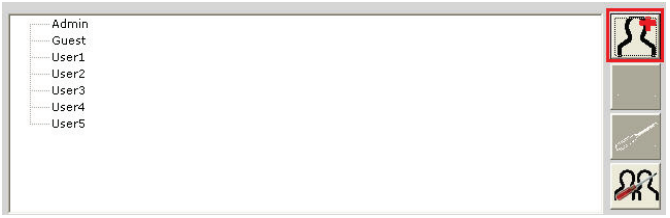
Once you add users to the program, you will be prompted to enter the username and password of a valid user account.



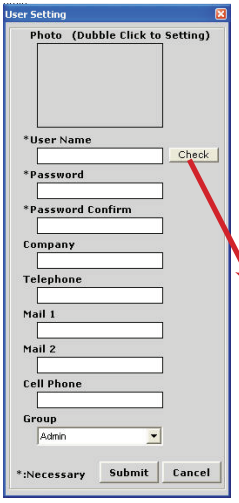
* There is no user account configured for the program by default.
The privileges of the “Admin” and the “Guest” groups are not configurable and the “Guest” account is configured with the “view only” privilege”.

Add a New User

To add a new user, simply click on the "add new user" button available at the upper-right hand corner in the "User/Group Config" page.



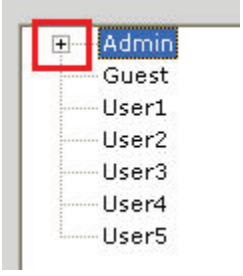
This opens up a new window for you to enter the detail information of the user you are creating.



* The "Username", "Password" and "Confirm Password" fields are required when creating a new user account. The rest of the fields are optional.

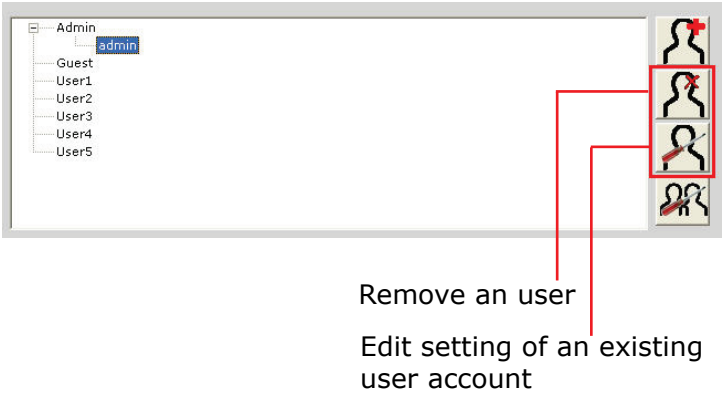
* You can click the "Check" button to check if the username you are creating for the new account has been used by another account.

A "+" will appear next to the group indicating a user has been added to that particular group. Click on the "+" to expand the group and all users will be displayed.



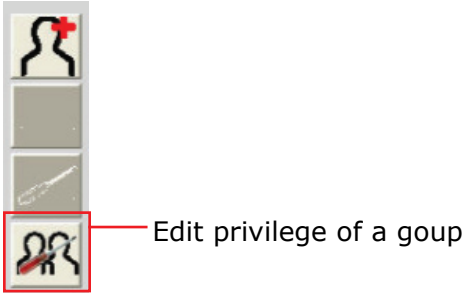
The “Remove” and “Edit” buttons will become available once an user has been created.

Click the “Remove” button to remove an existing user, or the “Edit” button to edit setting of an existing user account

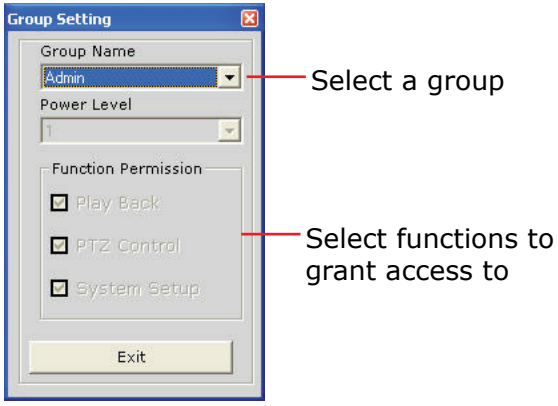


Edit Group Privilege

To edit access privilege of a particular user group, simply select a group first then click the “Edit Group” button.

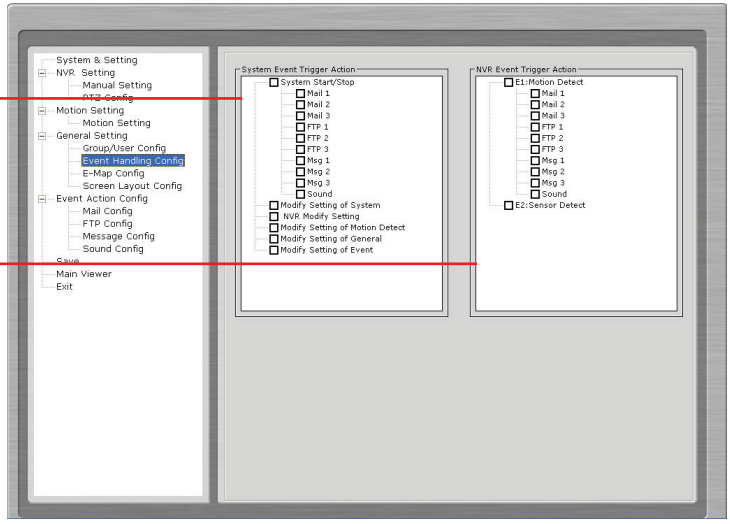


This opens up the group privilege configuration dialog.
Select a group from the drop-down menu and check which function(s) this group has permission to.



General event conditions

NVR-specific event conditions



Event Handling Configuration

Here you can define what consititutes an event with pre-defined conditions and what actions to be taken when these conditions are met.

The conditions are devided into two categories:

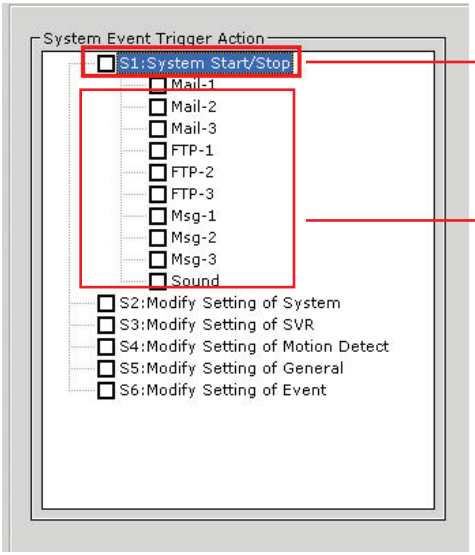
- General event conditions

Conditions such as settings being altered

- NVR-specific event conditions

Conditions such as motion detection

To enable a condition for event trigger, simply tick the checkbox of a particular condition.



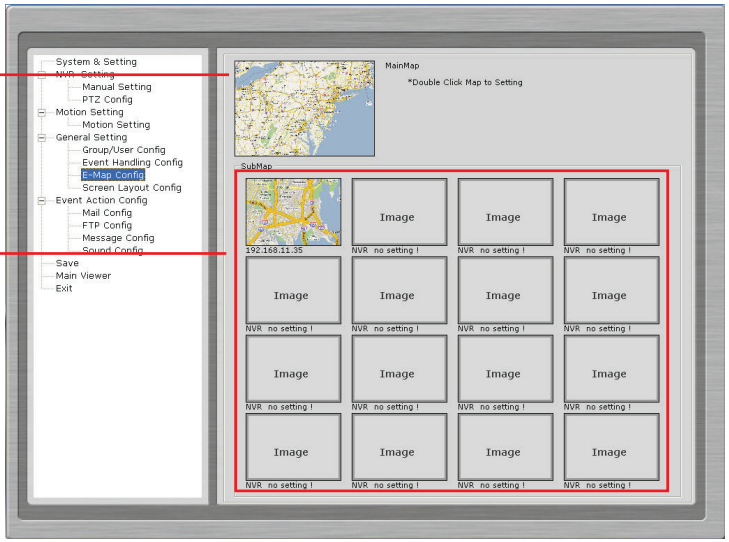
Event Condition
Tick the checkbox to enable
Double-click pulls down the event servers

Event Servers
Tick the checkbox to enable

Double-click on any condition pulls down the event servers which users can choose to use for that particular condition.
The event servers can be considered as actions that are taken place when events are triggered.

Main Map
The main map which displays locations of all NVRs

Sub-maps
Each sub-map displays the near-by area of a particular NVR which shows locations of all cameras connected to it



The E-Map

The program provides two-layered e-map which the top layer displays the location of all NVRs and the second layer (sub-map) displays locations of all cameras connected to one NVR.

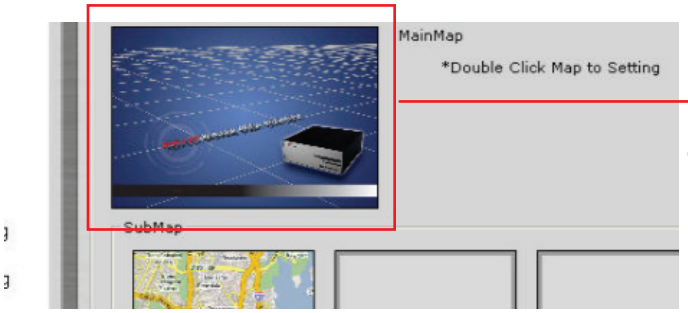
* There are 16 sub-maps and one for each NVR.

This function is particularly useful when motion detection is configured. You can simply place the e-map on one monitor and whenever there is motion detected, the NVR will be highlighted on the map and live video will be displayed for live event monitoring.

Configuring The E-Map

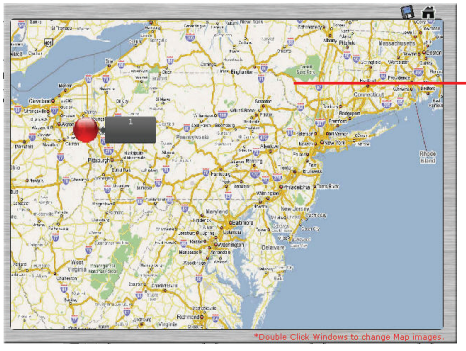
You can replace the map of your own when configuring e-map.

Simply double-click anywhere on the map to enlarge it.



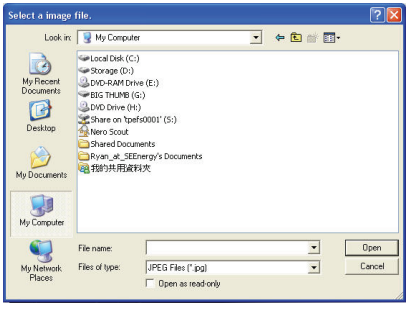
Double-click to enlarge the map

and double-click on the enlarged map again to open the dialog which lets you locate the new map file. You will need to select a map file that is in the JPEG file format.

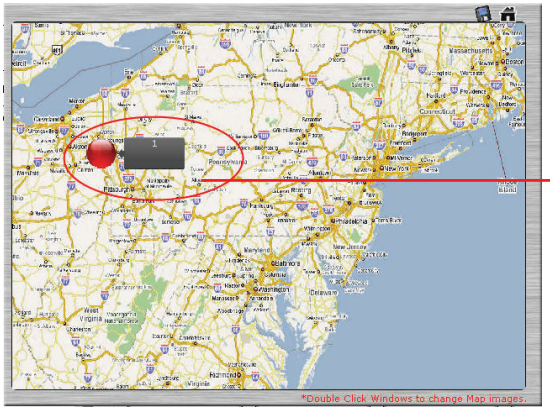


Double-click to replace the map

Locate the new map file from the local computer



Once the new map is in place, move the red dots on the map to define locations of each NVR.

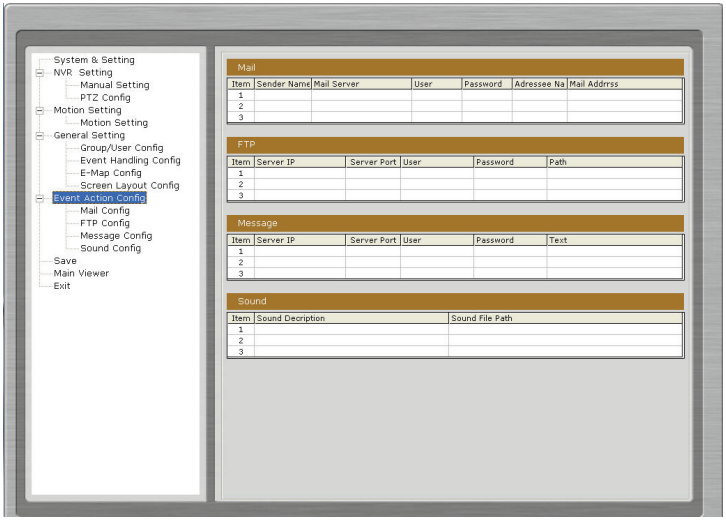


Drag and move the red dot to define location of a NVR

Click the "Save" button at the upper-right hand corner to save changes when you are done.

Save settings

* Use the same method described above to configure sub-maps for each NVR.



Event Servers are Event Actions

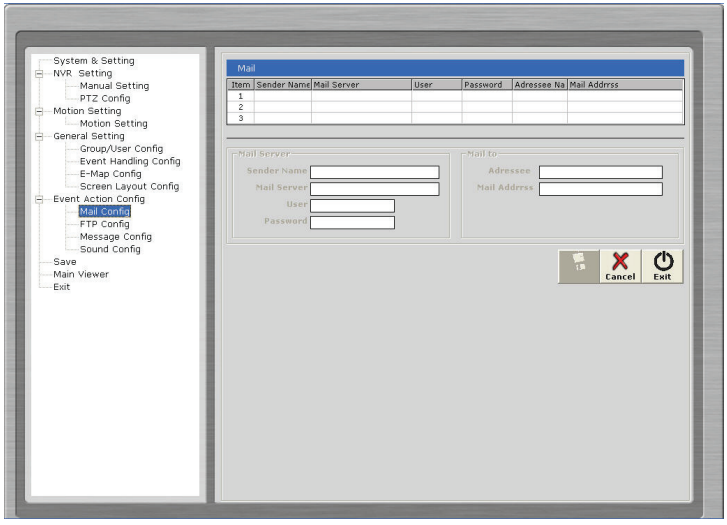
The program provides four different event servers that can be used when events are triggered.

- Mail server
- FTP server
- Message server
- Sound server

You can add up to three for each servers and pick the one(s) you would like to use for particular event(s).

You can get a configuration overview of all the event servers under the “Event Action Config” page.

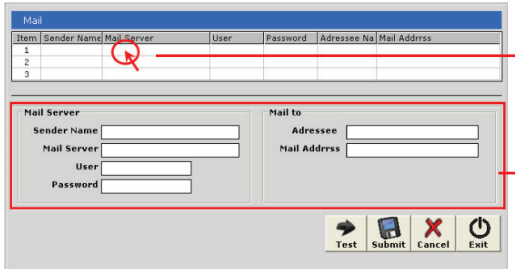
Configure Mail Server For Events



You can configure up to three mail servers in which you can select later and use them for different event trigger conditions.
When configuring an mail server, it's essential that you provide the following information:

- Mail server address (IP or FQDN domain name)
- Username and password for the mail server (if required)
- Recipient's e-mail address

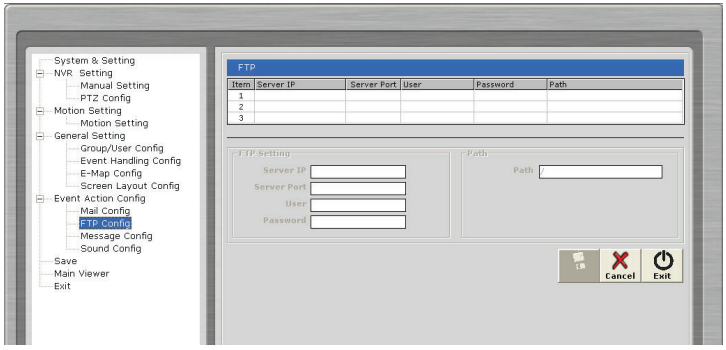
To start adding a mail server, click on an item field and the setting boxes should become availble.
Enter the mail server information and click "Submit" to save the settings.
You may click "Test" to verify the settings prior to saving the configurations.



Click to add or edit

Enter mail server info

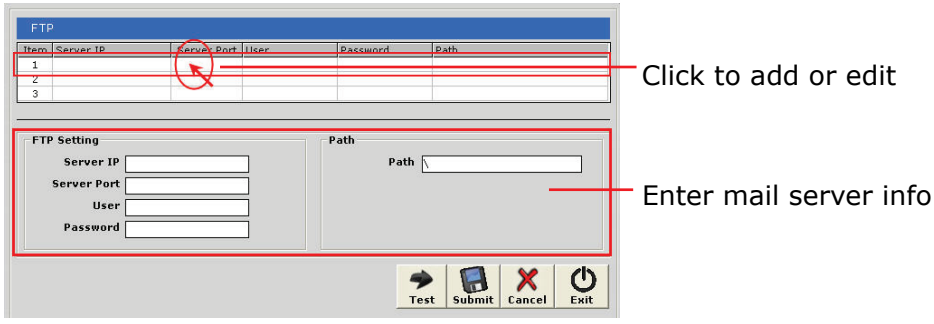
Configure FTP Server For Events



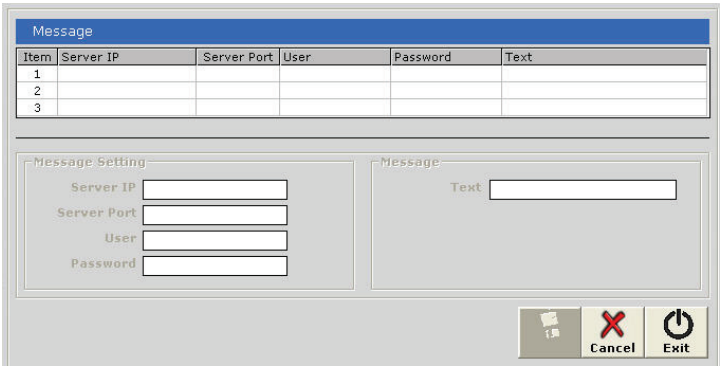
You can configure up to three FTP servers in which you can select later and use them for different event trigger conditions.
When configuring an FTP server, it's essential that you provide the following information:

- FTP server address (IP or FQDN domain name)
- FTP server port (such as port 21)
- Username and password for the FTP server (if required)
- Path to upload the files to (if not / directory)

To start adding an FTP server, click on an item field and the setting boxes should become availble.
Enter the FTP server information and click "Submit" to save the settings.
You may click "Test" to verify the settings prior to saving the configurations.



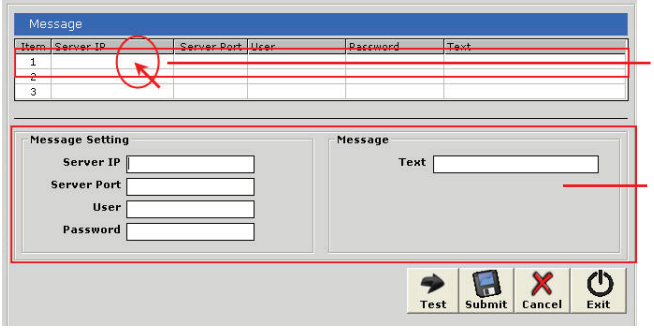
Configure Message Server For Events



You can configure up to three message servers in which you can select later and use them for different event trigger conditions.
When configuring a message server, it's essential that you provide the following information:

- Message server address (IP or FQDN domain name)
- Message server port
- Username and password for the Message server (if required)
- Text to be broadcasted

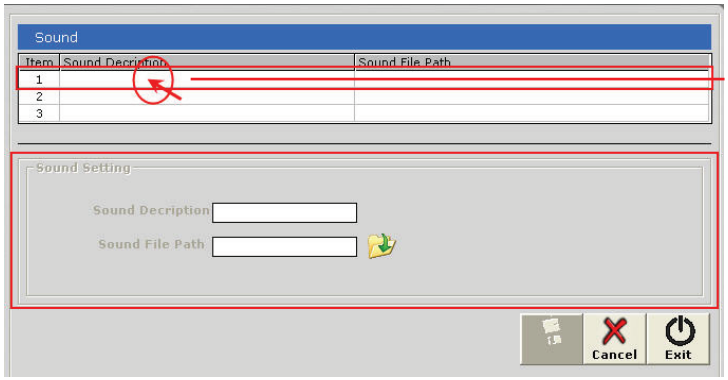
To start adding a message server, click on an item field and the setting boxes should become availble. Enter the message server information and click "Submit" to save the settings.
You may click "Test" to verify the settings prior to saving the configurations.



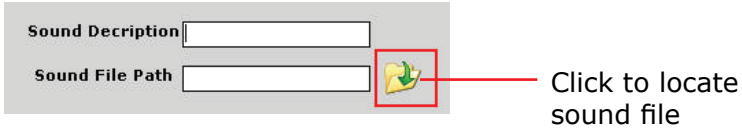
Configure Sound Server For Events

You can configure the program to send warning sound from the system's speaker when events are triggered.

To start adding a sound server, click on an item field and the setting boxes should become availble.

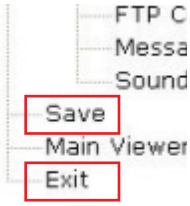


Click on the "folder" icon to locate the sound file. You may select a sound file that is only in the WAV file format.

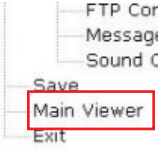


Accessing the main program

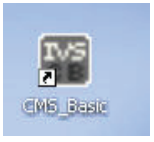
Now that you have finished configuring the mail program through its setup wizard, after saving all the settings (which you can do so by clicking on the "Save" button on the left pane tree menu), simply click "Exit" to close the Setup Wizard.



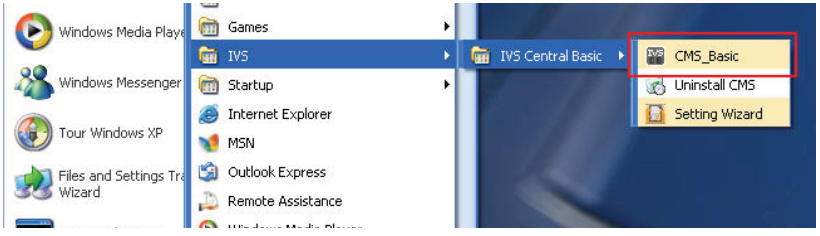
To access the main program, simply click on "Main Viewer" to exit the Setup Wizard and it will be open the main program automatically.



You can then access the main program by double-clicking on the short cut icon located on the desktop.



Or you can access the main program by simply go to "Start" >> "All Programs" >> "IVS" >> "CMS Basic"



Q15/EN/03032010/001