



CMS Lite

**Central Management Software**

User's Manual



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## FCC Statement

Federal Communication Commission Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

## IMPORTANT NOTE

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



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# 1

## Before Installation

### 1.1 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 → dvanced” → “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

# 2

## Installation

### 2.1 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.

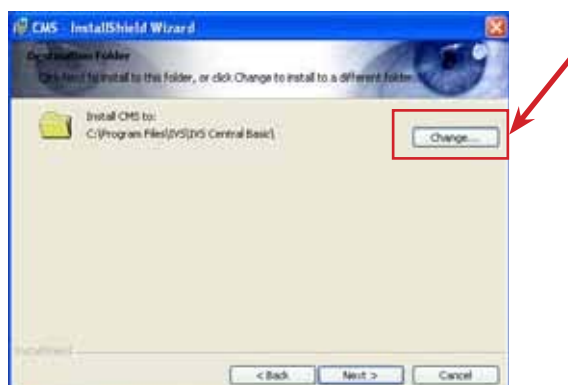


The installer will display the installation process.  
Once the installation is complete, click “Finish” to exit out the installer.



## 2.2 Change Installation 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,



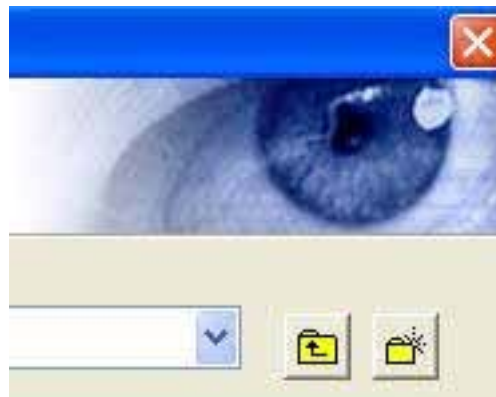
You will be prompted with a new window in which you can type in the new directory at the bottom.



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.

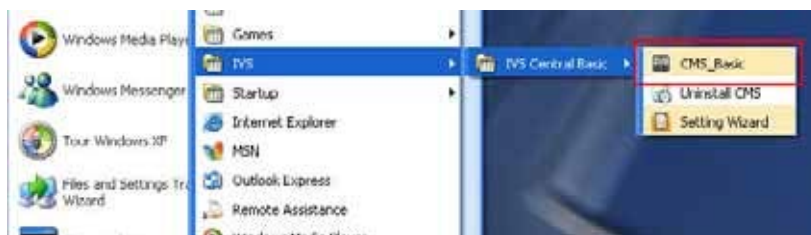


## 2.3 Start the CMS Software

After the program 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:

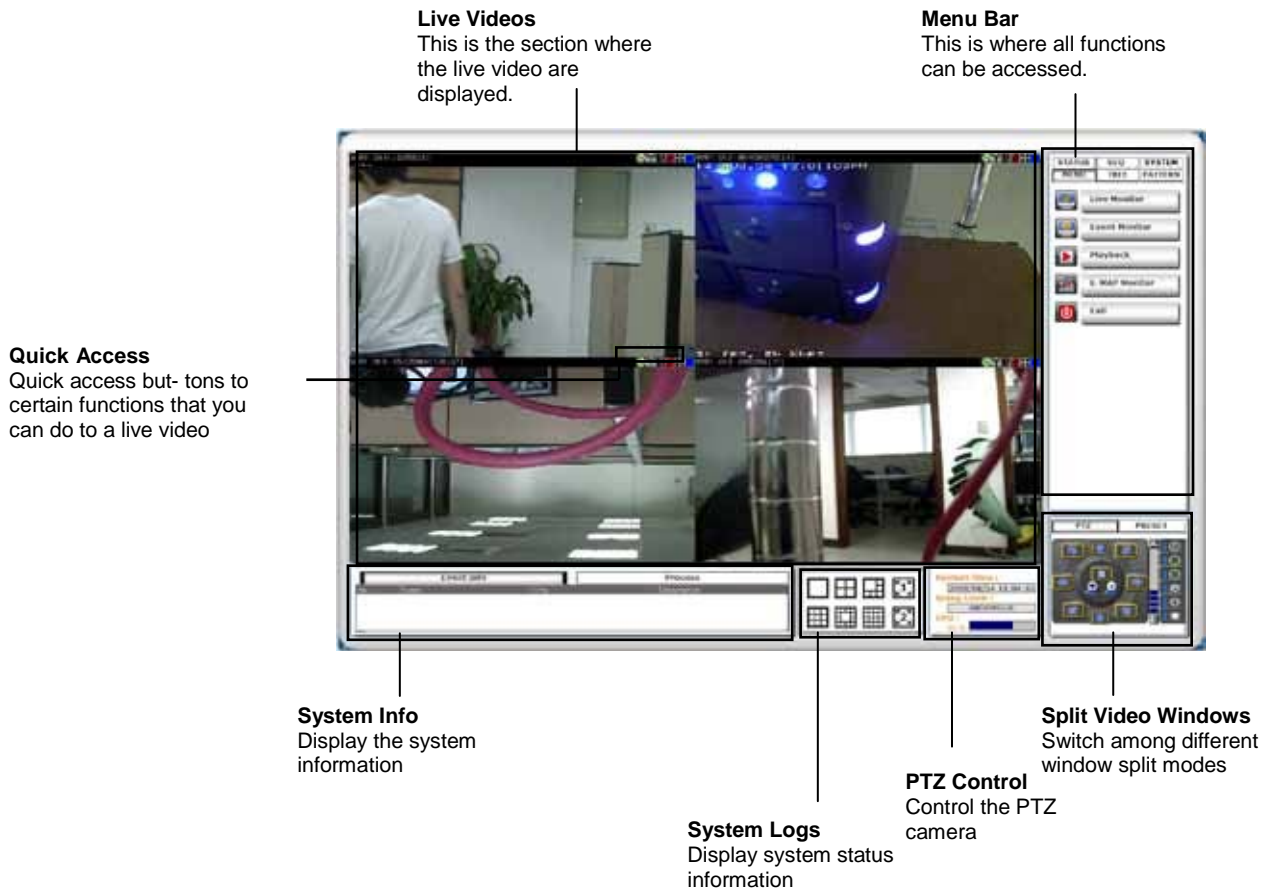
The program automatically creates a shortcut icon on your desktop after it's successfully installed. Simply double-click the icon to launch the program.



\* You should run the "Setup Wizard" before launching the CMS software. The Setup Wizard is a separate program which you can launch it the same way you launch the CMS software (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 NVR network video recorder.

# 3

## User Interface Overview



### 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 navigation and auto pan can also be accessed here

### System Info

It provides information of current system time, which 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**

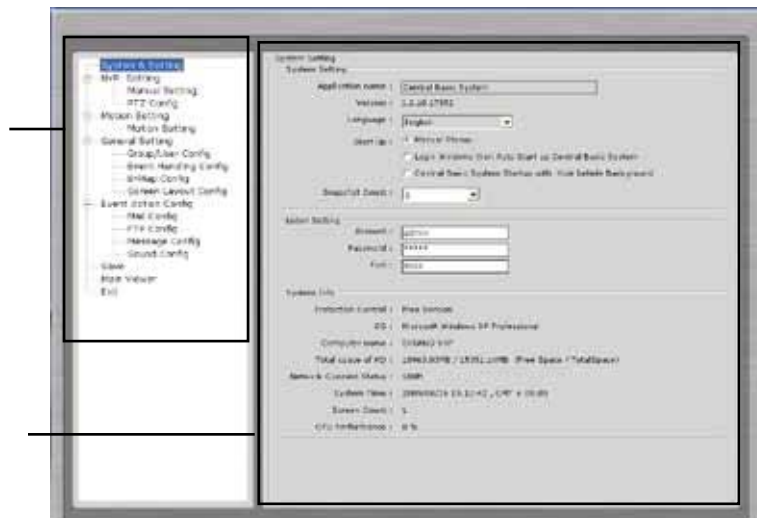
Each video window comes with quick access buttons which allows you to quickly take certain actions to the video you are viewing.

# 4


## Using the Setup Wizard

**Menu options**  
Lists all the menu options available in the Setup Wizard.

**Configuration Window**  
Displays configuration parameters of the selected menu option.



### 4.1 Switching between Live View Monitor and Configuration Wizard

The Live View Monitor will run in full screen mode. For switching to the Configuration Wizard, please first minimize the Live Monitor. You can do this by pressing “Windows” + “D” key on the keyboard for doing this. And then right click on the  system tray icon for invoking the Configuration Wizard.

## 4.2 It's Necessary to Use the Wizard

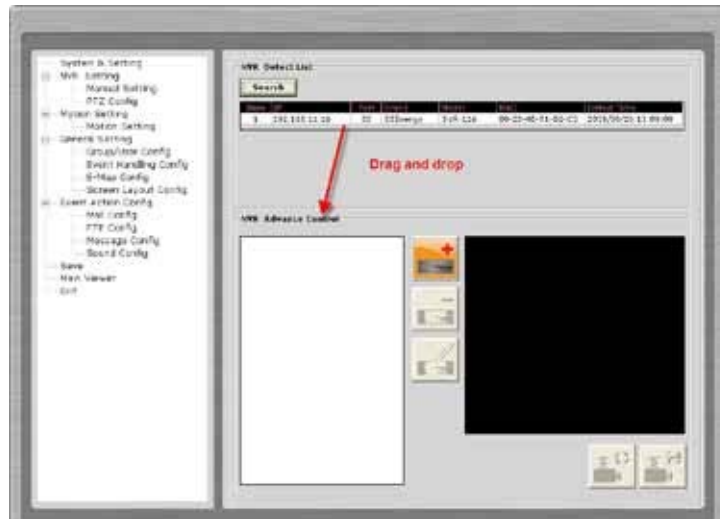
The majority of the settings of the CMS software rely on its Setup Wizard. It's necessary that you run the wizard prior to using the CMS software.

With the Setup Wizard, you are able to:

- Add/Remove/Edit one or more NVR and CamPro Professional Server (Software 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

# 5

## Add NVR or CamPro Professional Server



### 5.1 Connect the Program with NVR

The main purpose of the 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.

### 5.2 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 NVRs that are placed on your local network.





### 5.3 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.

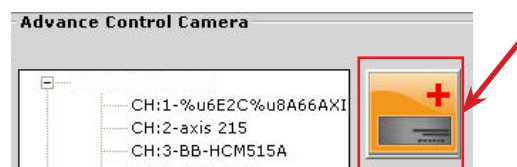


You will then be prompted with its username and password which you need to enter accordingly to complete the action.



### Add NVR Manually with Setup Wizard

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

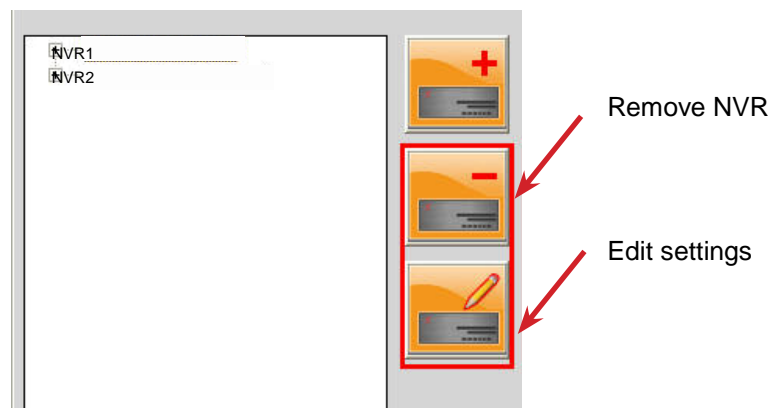


You will be asked for the information shown below before successfully adding the NVR to the program.



## 5.4 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.



# 6

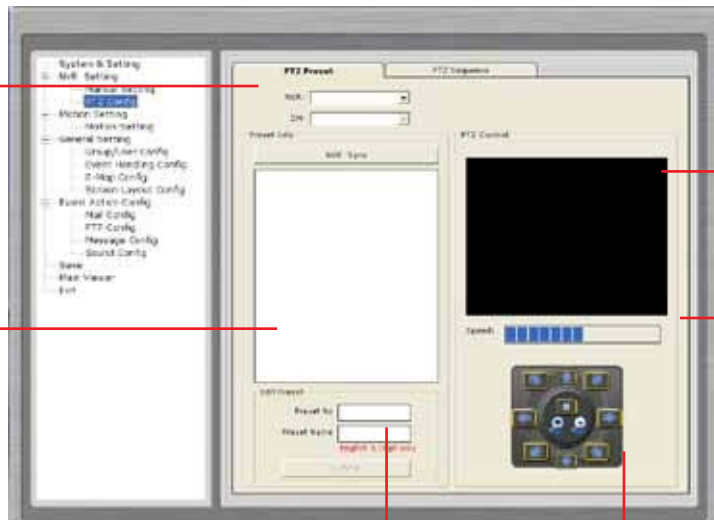
## PTZ Configuration

**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 Preview**

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**

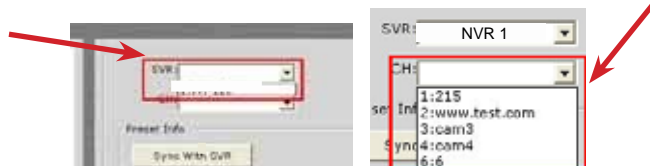
Use this panel to define a new preset point or make change to an existing one

### 6.1 Synchronize or Add New PTZ Preset Points

You can synchronize PTZ settings from all cameras connected to NVR-116 on the network or you can create and add new PTZ preset points to those cameras through the Setup Wizard.

Simply select a 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 camera 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

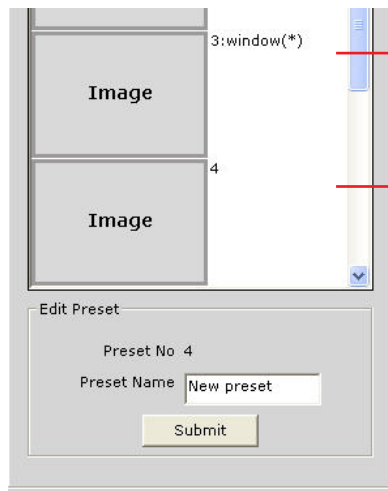
**PTZ Speed Control**

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

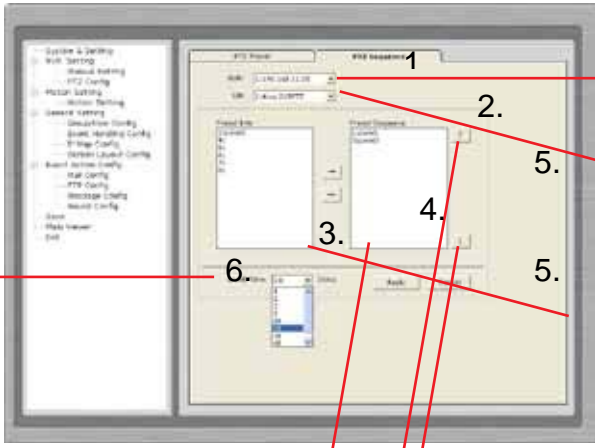
Slot that has not been configured with a PTZ preset point

## 6.2 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



**Set Dwell Time**  
Finally set the dwell time for sequencing view among each point

**Select an NVR first**  
Select an NVR from the drop down menu first

**Select an PTZ Camera**  
Select a PTZ camera to configure PTZ sequence

**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

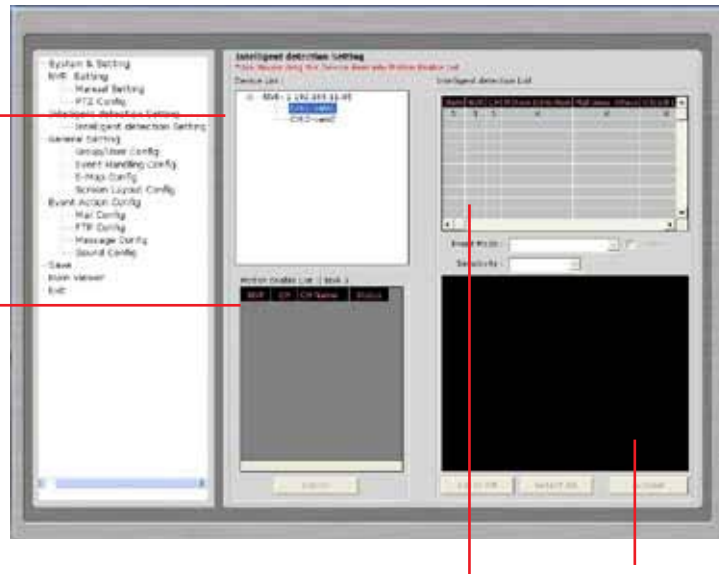
**Select Preset Points**  
The previously configured preset points will be listed on the left

# 7

## Intelligent Detection Setting

**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

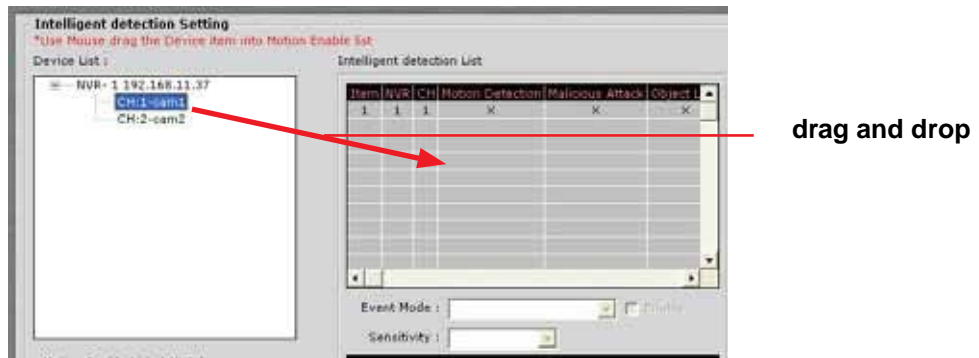
**Video Preview**  
Video preview of the selected camera from the above list

### 7.1 Intelligent Detection Functions

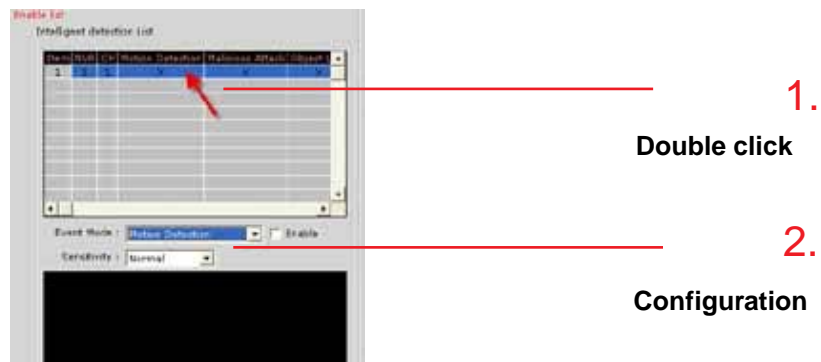
The program can be configured with multiple intelligent detection functions which can then be used to alert users when detecting something abnormal in the scene. The functions are as below

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

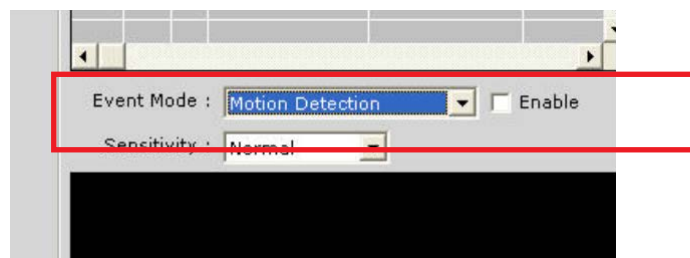
To enable and configure one of the intelligent detection functions for one or more cameras, click and drag the camera from the “Device List” onto the “Intelligent Detection List”.



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

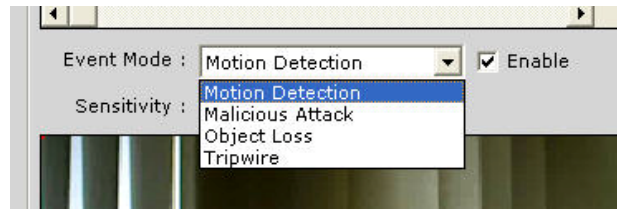


Finally, select the desired intelligent detection function from the “Event Mode” drop-down and make sure “Enable” is ticked:

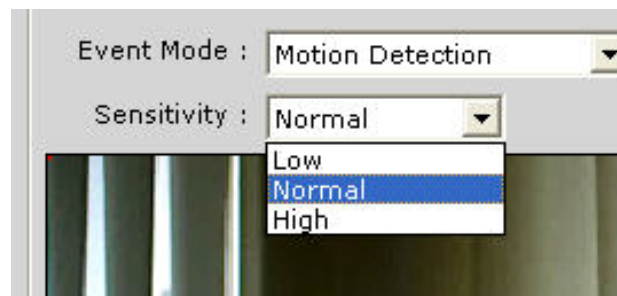


## 7.2 Configuring Motion Detection

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



Next, select the desired sensitivity for motion detection:





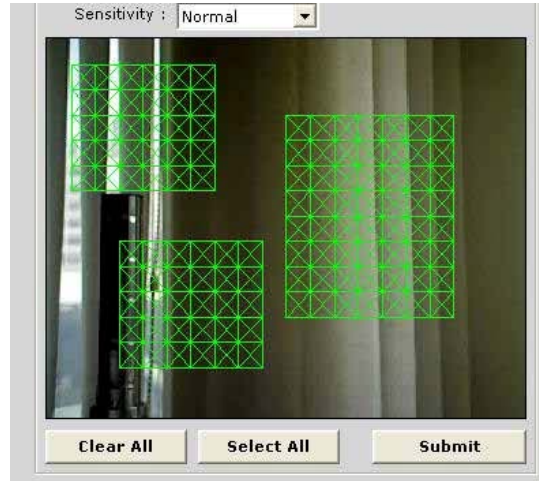
By default, the program does not have any area configured for motion detection; you can quickly click on “Select All” to enable the whole area for motion detection. You can always click on “Clear All” at anytime to start over:



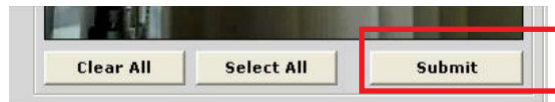
To configure a particular area for motion detection, simply click and hold down the mouse left button and move diagonally to select a desired area. You can do it repetitively to configure multiple areas for motion detection:



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



Finally, click “Submit” to save the configuration:



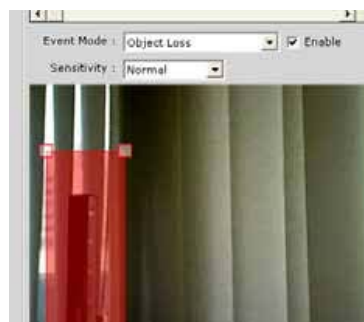
### 7.3 Configuring Malicious Attack

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 functions, simply select “Malicious Attack” from the “Event Mode” drop-down menu and click “Submit”:



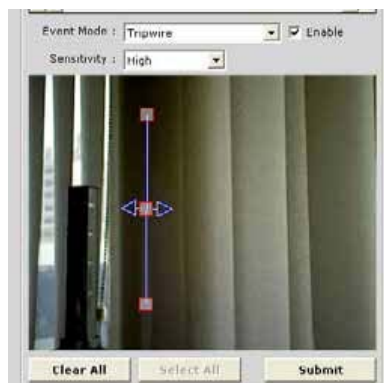
### 7.4 Configuring Object Loss

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 diagonally 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:

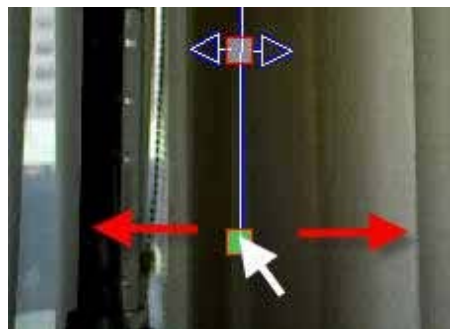


## 7.5 Configuring Tripwire

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 configured 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.



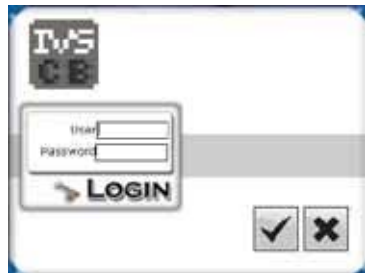
# 8

## Users and Groups

### 8.1 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".

## 8.2 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.

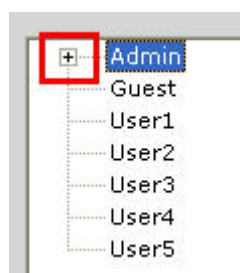


\* The “Username”, “Password” and “Confirm Password” fields are required when creating a new user account. The rest of the fields are optional.

\* 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 a 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



Remove a user

Edit setting of an existing user account

### 8.3 Edit Group Privilege

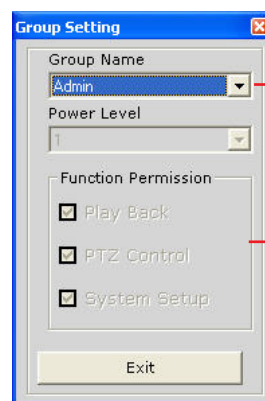
To edit access privilege of a particular user group, simply select a group first then click the “Edit Group” button.



Edit privilege of a group

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.



Select a group

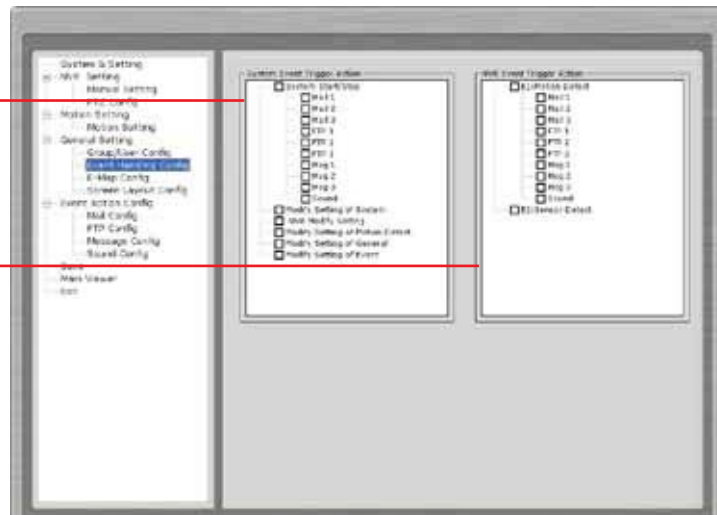
Select functions to grant access to

# 9

## Event Handling

General event conditions

NVR-specific event conditions



### 9.1 Event Handling Configuration

Here you can define what constitutes an event with pre-defined conditions and what actions to be taken when these conditions are met. The conditions are divided into two categories:

#### General event conditions

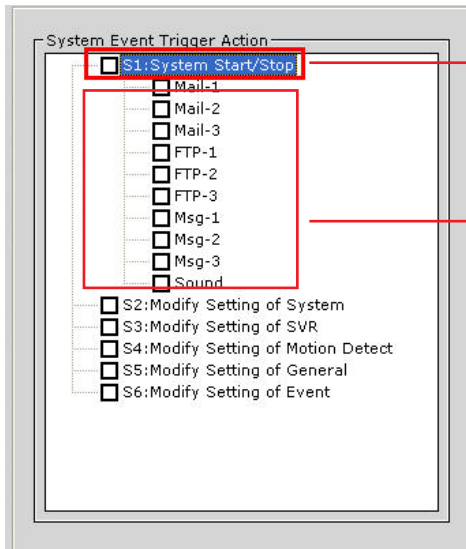
Conditions such as settings being altered

#### 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.

# 10

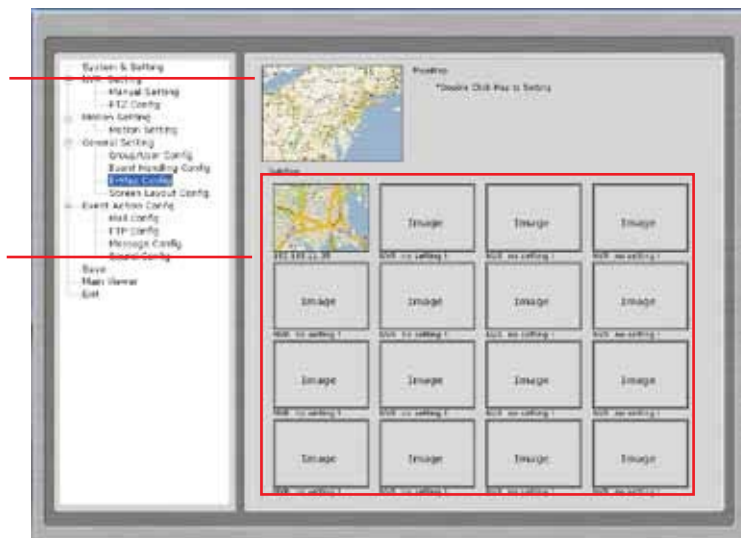
## Configuring E-Map

### 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



### 10.1 The E-Map

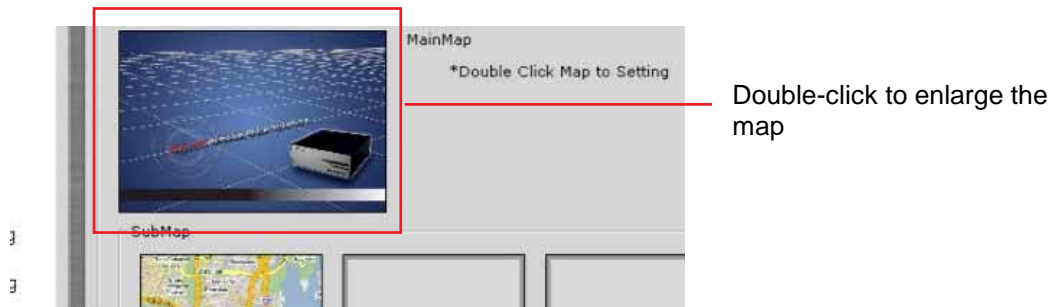
The program provides two-layered e-map which the top layer displays the location of all NVRs and the second layer (sub-map) displays locations of all cameras connected to one NVR.

\* 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.

## 10.2 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.



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.



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.

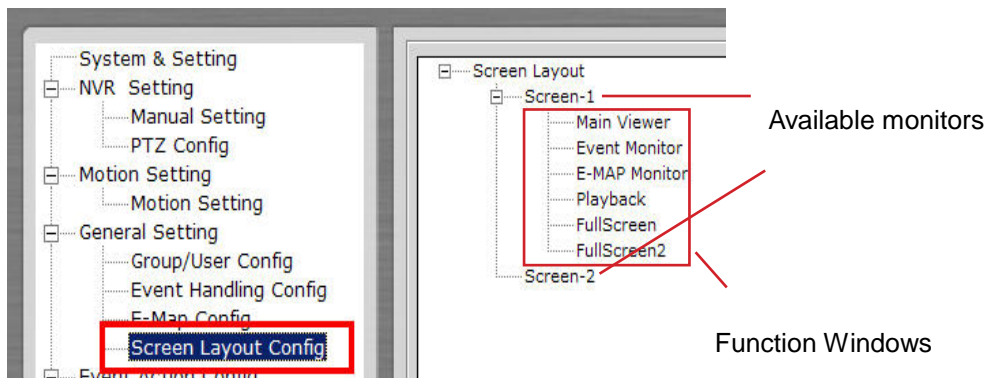
Save settings



\* Use the same method described above to configure submaps for each NVR.

# 11

## Setup Multiple Monitors



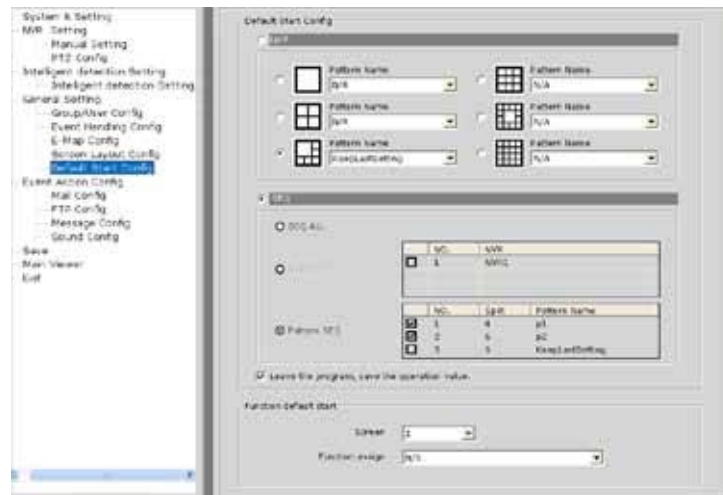
If you have multiple monitors configured in the PC, the CMS setup wizard can automatically detect such configuration and displays the available monitors. You can find that in the setup wizard under “General Setting” → “Screen Layout Config”. You should then see the available monitors on the right (Screen-1, Screen-2...etc).

By default, all the function windows are set to display on Screen-1. You can then drag the desired function window and drop it to the monitor (ex. Screen-2) you wish it to be displayed on.



# 12

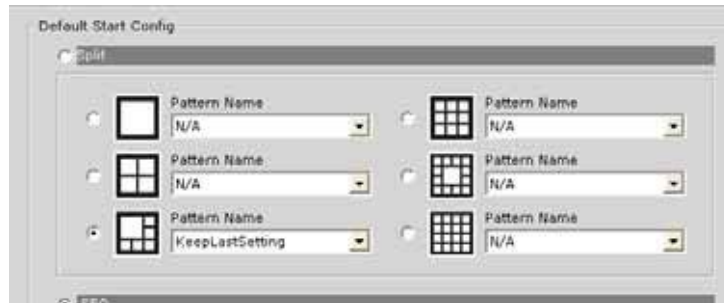
## Default Start Config



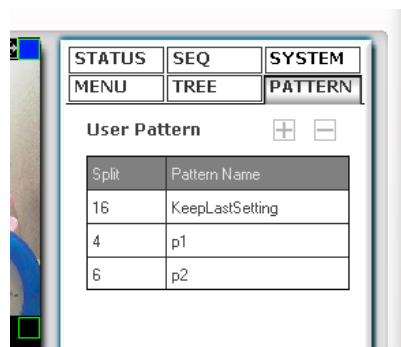
This is a function that allows you to keep the same viewing layout pattern every time the program starts up. The followings can be saved for next startup:

- Viewing layout (split screen)
  - Use the last layout before the program is closed
  - Use one of the “patterns” defined in the main program
- Start sequence viewing by default
- Start the program with particular function pages (if multiple monitors are present)

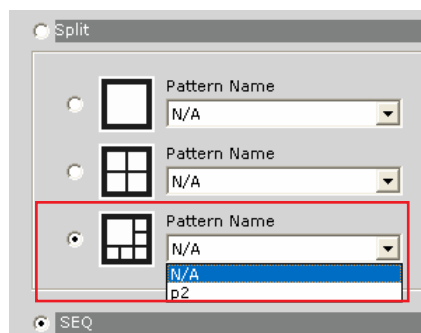
You can configure the program to start with a particular viewing mode (split screen). Simply make a selection under the “Split” section:



You can leave the drop-down menu as is it does not contain any selection by default. Once you start the main program and add view “patterns” like below:

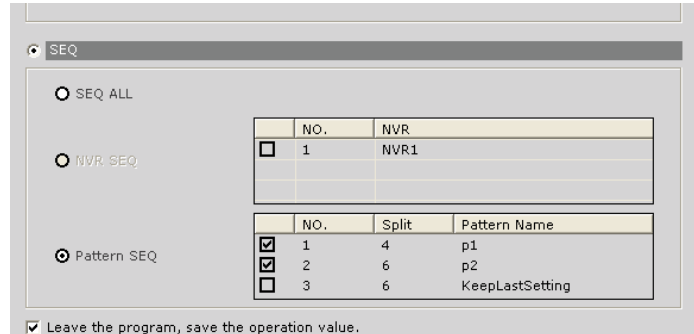


Exit the main program and go back to the config wizard. The patterns you created should be available in the corresponding drop-down menu under the “Split” section:



If you didn't make any selection from the drop-down menu, the main program will automatically keep the last split mode before the program is closed and use it for the next startup.

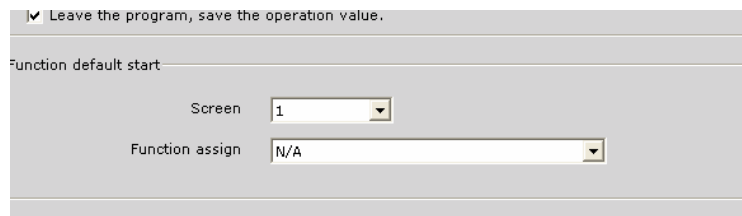
You are also able to start sequence viewing by default as soon as the main program starts up. To do so, make the selection to sequence all channels, between NVRs, or between patterns:



The screenshot shows a configuration window titled "SEQ" with three radio button options: "SEQ ALL", "NVR SEQ", and "Pattern SEQ". The "Pattern SEQ" option is selected. Below these options are two tables. The first table has columns "NO." and "NVR" and contains one row with "1" and "NVR1". The second table has columns "NO.", "Split", and "Pattern Name" and contains three rows: "1", "4", "p1"; "2", "6", "p2"; and "3", "6", "KeepLastSetting". Checkmarks are present in the "NO." column of the second table. At the bottom, there is a checked checkbox labeled "Leave the program, save the operation value."

- \* Please make sure multiple NVRs are added to the program or the "NVR SEQ" option will be unavailable
- \* Please make sure "patterns" have created in the main program or the "Patter SEQ" option will be unavailable

You can also configure a particular function page to start by default on a particular monitor by making your selection under the "Function Default Start" section:

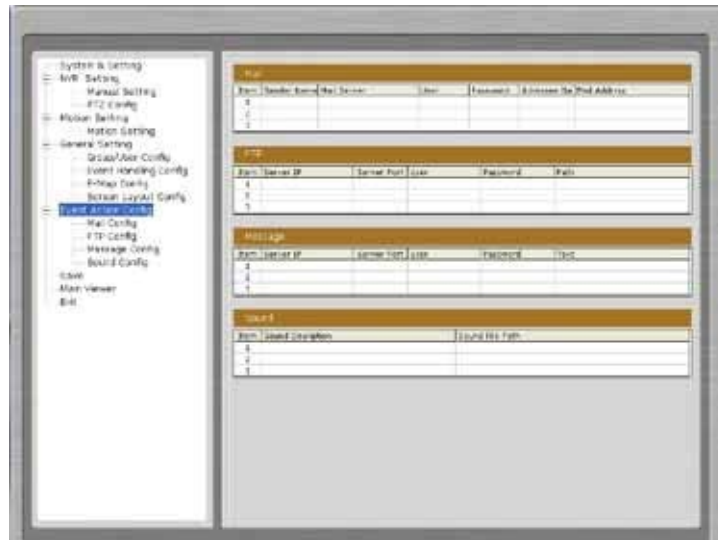


The screenshot shows a configuration section titled "Function default start". It contains two dropdown menus. The first is labeled "Screen" and has "1" selected. The second is labeled "Function assign" and has "N/A" selected. At the top of the section, there is a checked checkbox labeled "Leave the program, save the operation value."



# 13

## Event Server



### 13.1 Event Servers Are Event Actions

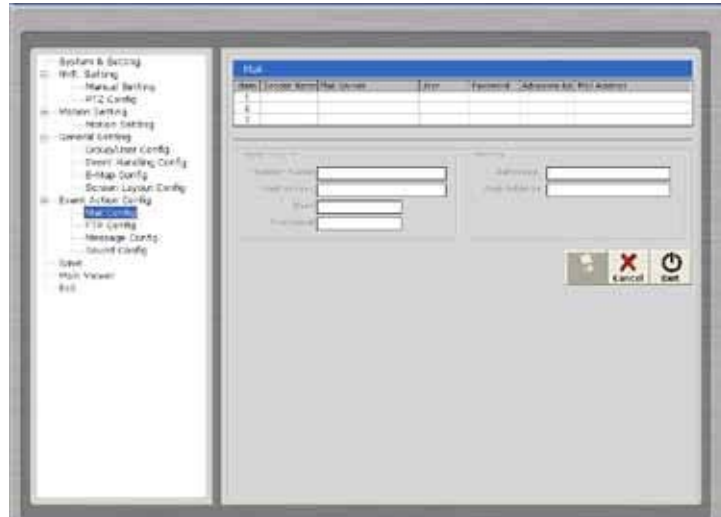
The program provides four different event servers that can be used when events are triggered.

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

You can add up to three for each server 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.

## 13.2 Configure Mail Server for Events



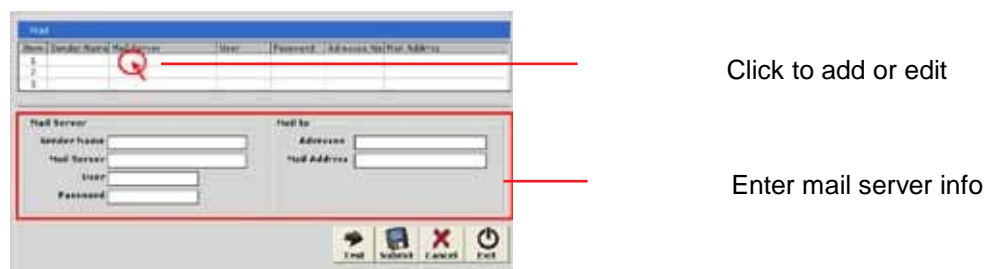
You can configure up to three mail servers in which you can select later and use them for different event trigger conditions.

When configuring a mail server, it's essential that you provide the following information:

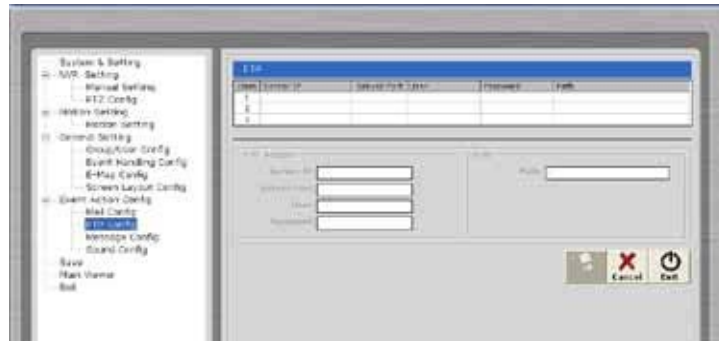
- Mail server address (IP or FQDN domain name)
- Username and password for the mail server (if required)
- Recipient's e-mail address

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

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.



## 13.3 Configure FTP Server for Events



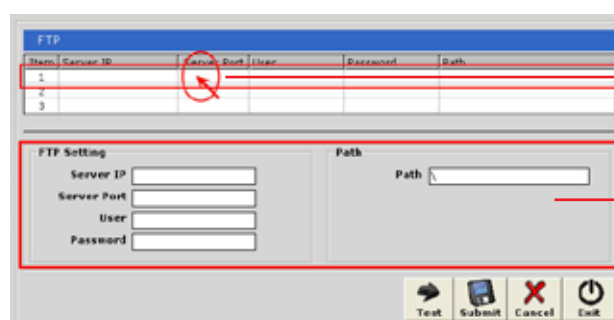
You can configure up to three FTP servers in which you can select later and use them for different event trigger conditions.

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 available.

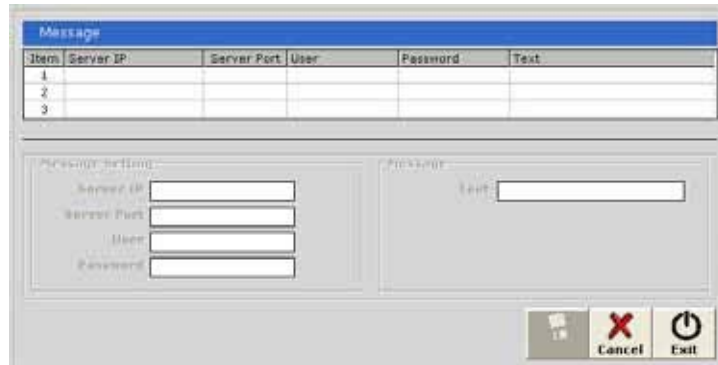
Enter the FTP server information and click “Submit” to save the settings. You may click “Test” to verify the settings prior to saving the configurations.



Click to add or edit

Enter FTP server info

## 13.4 Configure Message Server for Events



Item	Server IP	Server Port	User	Password	Text
1					
2					
3					

Message Setting

Server IP:

Server Port:

User:

Password:

Message

Text:

Cancel Exit

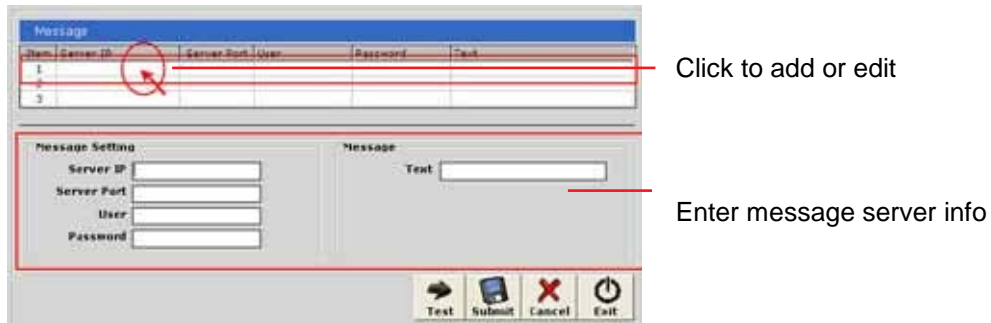
You can configure up to three message servers in which you can select later and use them for different event trigger conditions.

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 available. Enter the message server information and click "Submit" to save the settings.

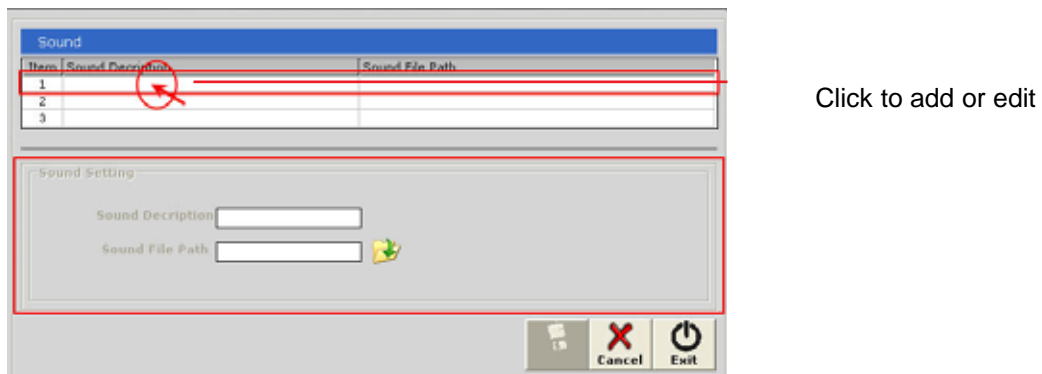
You may click “Test” to verify the settings prior to saving the configurations.



### 13.5 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 available.

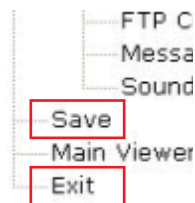


Click on the “folder” icon to locate the sound file. You may select a sound file that is only in the WAV file format.

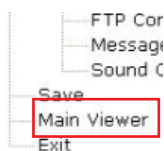


## 13.6 Accessing the Main Program

Now that you have finished configuring the main 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.



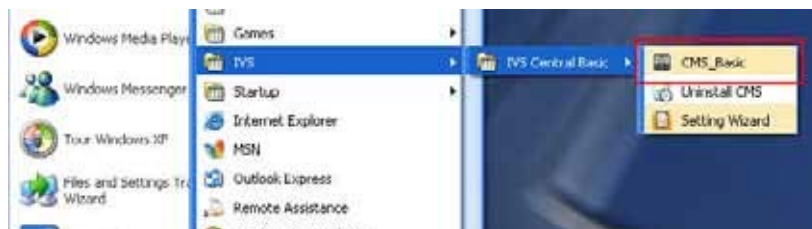
To access the main program, simply click on “Main Viewer” to exit the Setup Wizard and it will be open the main program automatically.



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 Central Basic” → “CMS Basic”



# 14

## Using the Main Program



### 14.1 Working with the Live Video Page

This page basically provides you the ability to view, and manage the video streams of each channel.

The program provides certain functions which helps users to monitor effectively.

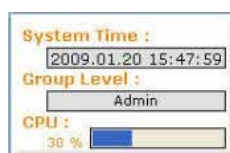
- Video Function Bar



- View Window Switcher



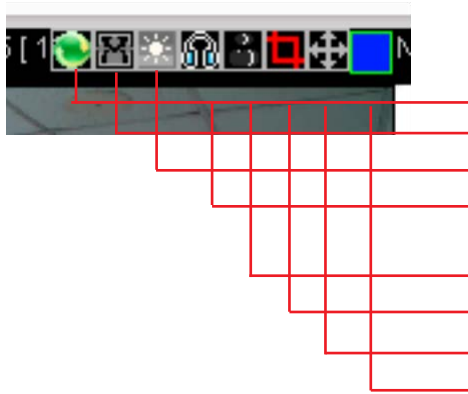
- System Information



## 14.2 Video Function Bar

The function bar is available for each video window.

The function bar provides the following functions:



- Reconnect video
- Original video ratio
- Image enhancement
- Turn on/off audio
- Motion Detection Status Turn on/off motion display Take snapshot
- PTZ control indicator
- Camera status

T

### Reconnect video

If you find the video is streamed at a lower frame rate than it should or the video is simply lost, you can click this button to re-initiate the connection with the camera and receive the stream again.

### Turn on/off audio

If the camera supports audio function, you can click this button to receive audio from the camera.

This function is turned off by default and you can only receive audio from one channel at a time.

### Original Video Ratio

The program adjusts its window size according to the size and display ratio of the monitor. By default, videos are configured to fill up their video windows and may not be displayed in its original ratio. Click this button will set the video to be displayed at its original display ratio.

### Image Enhancement



This function improves the visibility of the video under low light conditions:






### Motion Detection Status

This icon serves the function to display whether motion detection has been configured for this channel.

- If it's not configured, the icon is grayed out 
- If it's configured, it will be in light grey 

### Turn on/off Motion Display

Once a channel is configured with motion detection, click the same icon allows you to turn on motion display which adds highlights on moving objects in the video. The icon will show in red when this function is turned on. 

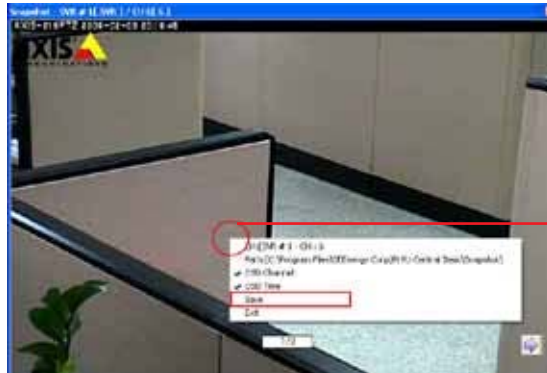
### Take a Snapshot

The function allows you to take snapshots of the live video and save them on your local computer.

Simply click on the icon and the snapshot of the video will be displayed in a pop-up window.



Right-click anywhere on the pop-up window will give you the option to save the snapshot.



right-click

\* The snapshot is automatically saved in a pre-defined folder under the directory where the program is installed.

### PTZ Control Indicator

You are able to control one PTZ camera at a time and this icon tells users which camera is currently selected for PTZ action.

The video window will also be highlighted with blue color to indicate it's currently being selected.



PTZ icon shown in red meaning this is a PTZ camera, or it would be grayed out.  
\* If the icon indicates in red: Mouse-over-video PTZ is enabled.

highlighted with blue color



PTZ control indicator displays in green:  
digital PTZ is enabled  
\* Digital PTZ function is only available for the "non-PTZ types of cameras)

### Using PTZ Control Panel

Once a video is selected for PTZ action (**right-click on a video to select**), you are able to do the PTZ with the PTZ control panel,



### Use Mouse-over-video PTZ

Or you can simply move the mouse onto the video, an arrow and the crosshair should be displayed. Simply right-click on the video to pan and tilt the camera. Use the mouse scroll button to scroll down to zoom in and scroll up to zoom out.



right-click to pan and tilt, use mouse scroll button to zoom in/ out

### Drag and Drop to Relocate Videos

On the live view page, you can simply drag the video to re-arrange its location or switch location with another video.



Drag a video and drop it to a new location



Drag a video and switch place with another video

### 14.3 View Window Switcher

You can use this function to switch between different view patterns and set up how videos are displayed on the screen.



### 14.4 Support Two Full Screen View

The program supports two full screen views if there are more than one monitors connected to the PC. You can view up to 16 live video on each full screen with configurable view patterns.



The first full screen displays videos in full screen with its current view pattern layout (if it's displaying videos in a 6 split window view, the same displays in full screen)



The second full screen displays videos in full screen in a 16 split window by default. You can change the layout by right-click anywhere on the screen and make selection from the drop-down menu.

## 14.5 Side Menu Bar

You can access all functions of the program from the side menu bar. Some can be displayed onto different monitors if you enabled this function in the Setup Wizard.

A list of the functions available from the side menu:

- Live Monitor
- Event Monitor
- Playback
- E-Map Monitor
- NVR and Camera Status
- Camera Tree List
- Sequence View
- Create patterns for different split view
- Service Mode
- Check Program Version
- Change Display Language



## 14.6 Camera Tree List

You can retrieve a list of the cameras and NVRs from the side menu bar. Simply click on the “TREE” menu to access this function.



By default, only the NVRs are listed. You can double-click on any of them to retrieve the camera list of that NVR.

You can then drag an NVR from the list and drop it onto the live video area, in which all cameras' videos will be displayed.

You can also drag one camera from the list and drop it onto any video window to display video from that camera.



Drag and drop an NVR



Drag and drop a camera

## 14.7 Sequence View

This is a useful tool which you can simply setup the program to display videos from certain or all cameras and the program will automatically switch views for you. You can also set up the sequence interval and decide how long you would like each video to stay on the screen.

SEQ Mode

1 Video     9 Video  
 4 Video     13 Video  
 6 Video     16 Video

10 (Sec)    Start

Select how videos are splitted on the live view area

Set sequence interval

SEQ contents

SEQ ALL  
 SVR SEQ  
 Pattern SEQ

ID	SVR
<input type="checkbox"/> 1	svr-116
<input type="checkbox"/> 2	SVR-116 -- 2

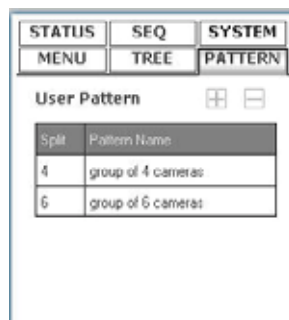
Choose to sequence all cameras or selected ones only

- \* The "Pattern SEQ" will not become available until you create "patterns" under the "PATTERN" menu
- \* The "Pattern SEQ" will not become available until you create more than one pattern under the "PATTERN" menu

## 14.8 Live View Pattern Groups

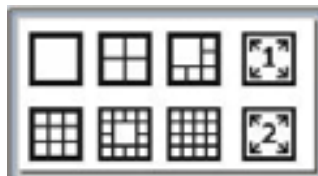
You can create multiple profiles for different live view split layouts. This is an extreme useful function in larger environments where you have many cameras in place and multiple cameras setup for each area.

After the “patterns” are created, you can head back to the “SEQ” menu and enable the “Pattern SEQ” feature. This will ask the program to display videos from the “pattern” groups in sequence.



To configure view pattern groups and set it for pattern sequence view:

1. Select a view layout first

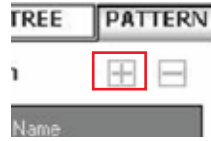


2. Then, select cameras from the camera tree list

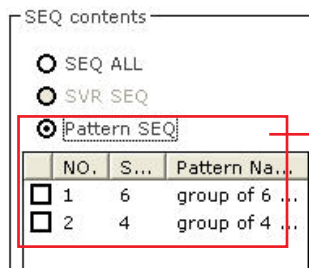


Drag and drop videos on the screen to arrange their locations as you desire.

3. Click the “+” sign under the “PATTERN” menu to add it



4. Go back to the “SEQ” menu and select “Pattern Seq” and the patterns should be available.



Select the ones for sequence viewing



# 15

## Event Monitor



\* This page can be displayed on another monitor

The Event Monitor is an advance live video monitor tool that combines functions of

- Single live video view from camera that's triggered with events
- Channel configuration information
- Event log, search, playback
- E-Map displays cameras' locations which were triggered with events



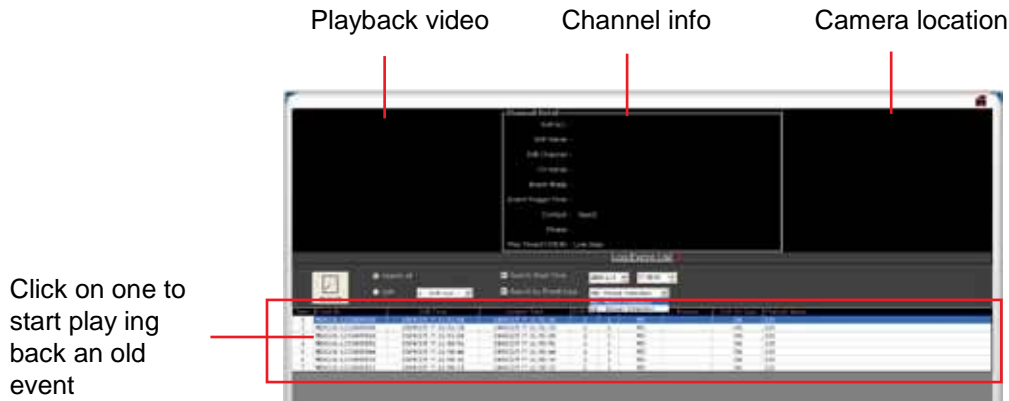
Video from the camera that was triggered with

Detail information of the camera, such as channel number, which NVR it's connected to...

The location of the camera will be displayed on the E-Map

## 15.1 Playback Events from Event Monitor

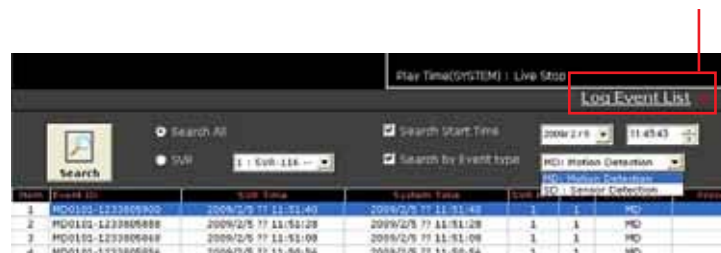
The program will log continuously when new events are triggered. Simply click on one to start playing back the video. Its corresponding configuration and location will also be displayed accordingly.



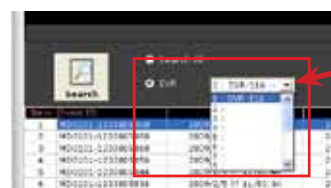
## 15.2 Filter and Search Events

While the event logs keep stacking up the screen, it's difficult to look for a particular event for playback. You can then use the search function and filter the search result by either search from an event start time, search by event type, or both.

Double-click to open the search dialog



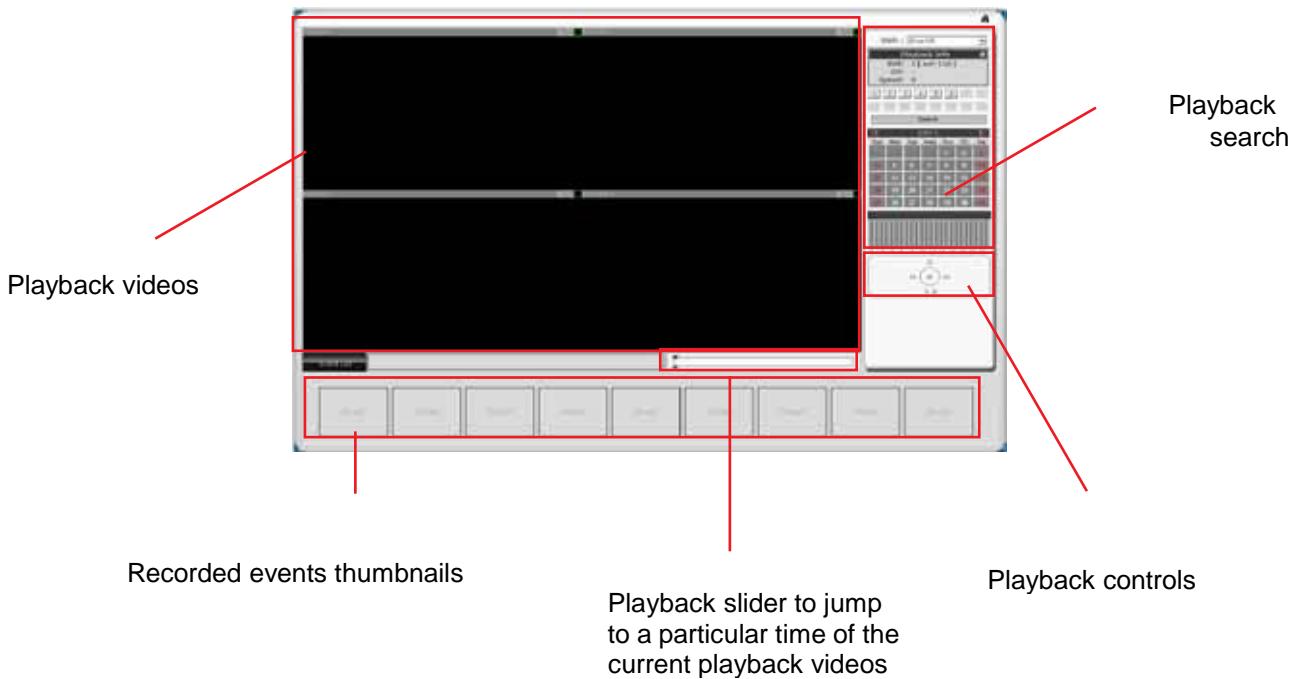
You can also narrow the search results by performing search to a particular NVR.



\* The event trigger interval is set at 10 seconds

# 16

## Playback

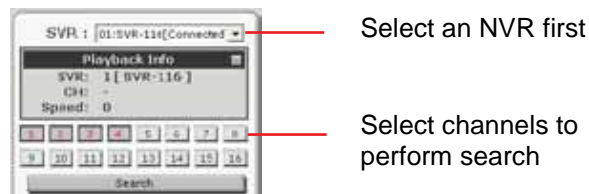


\* This page can be displayed on another monitor

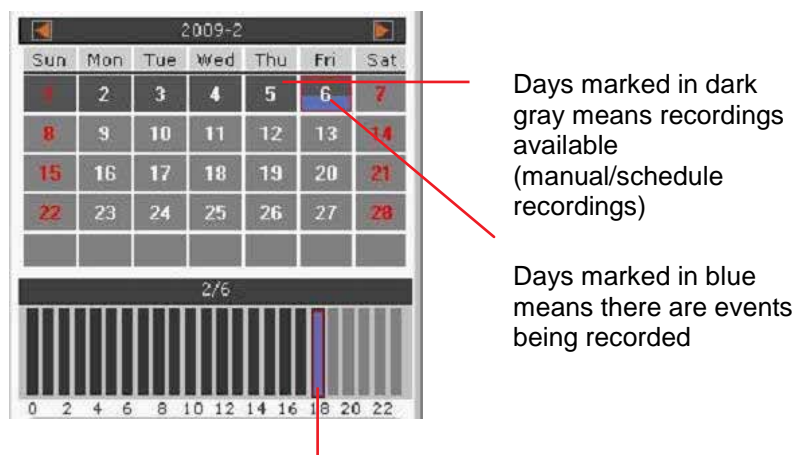
The program supports 4-channel synchronous playback in a quad view layout. Search results that include events will be marked in blue on the calendar and their corresponding event thumbnails will be displayed at the bottom to reduce the search time and effort

## 16.1 Searching for Playback Videos

To start looking for playback videos, simply select an NVR from the drop-down menu first and select which channels to look for playbacks.



Search results will then be displayed on the calendar indicating which days have recordings available.



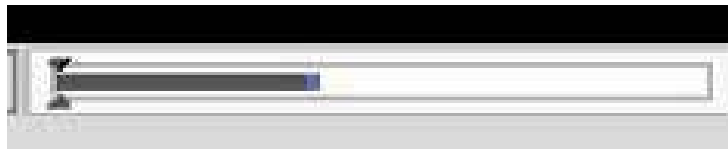
Click on a day will shows what hours of that day recordings were performed. Click on a particular hour to start playing back videos.

If you click on an hour which event recordings were performed, the program will display the thumbnails of the first frame from each trigger at the bottom.



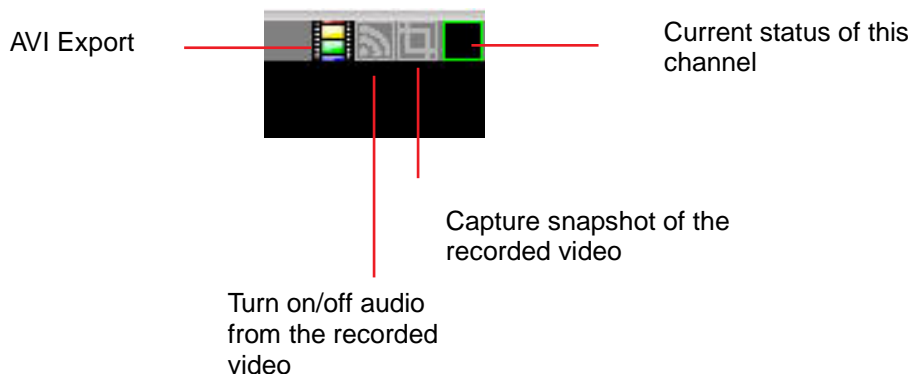
This is useful for users to help them quickly find the footage that's meaningful to them instead of fast-forwarding a few times.

You can also use the time bar and go directly to a particular start time.



## 16.2 Capture Snapshots of a Playback Video

This is the same function that is available in the live view page. Each playback video window comes with a function bar at the upper-right hand corner.



## 16.3 AVI Export

You can export the recorded videos to AVI files and save them onto a local hard disk. Simply click on the “AVI Export” icon while a video is being played back. Click it again to stop the process.

- *All exported videos are automatically saved in the “AVI” folder under the program installation directory.  
“Ex.: C:\Program Files\IVS\IVS CMS Basic\AVI”*
- *The program allows a maximum of one hour of video per channel to be exported*

# 17

## E-Map Monitor



The E-Map provide a simple overview of where events are happening. This allows users to only pay attention to what's meaningful to them.

This function comes with two layers of maps where the first layers represents locations of each NVR.

This is normally referred as the main map which a map with overview of a larger scale area should be used.

Once there's an event triggered from a particular NVR, the location of the NVR will be circled in red to notify users an event has been triggered.

The video and event trigger type are also displayed on the map.



Double-click on the red dot (the location of the NVR) will take you to the sub map where the locations of all the cameras within will be displayed.

The camera of which the event is triggered from will be circled in red to tell the user the location of the event in a more detail manner.



The sub map provides the PIP (Picture-in-Picture) view which the main map is embedded in the sub map so that users can still know if there are events being triggered from other NVRs at the same time.



Double-click to go back to main map

Simply double-clicking the embedded main map to go back to the main map view.



# 18

## Service Mode

If you are using a PC that is not dedicated to run this program only (working with some other programs at the same time), you can turn on the service mode, which can be accessed from the side menu bar under the “**sYsTeM**” menu, select “**service Mode**”.



This will minimize the program to the Windows system tray



The function to detect new NVR and event trigger notification will continue to work in the background.

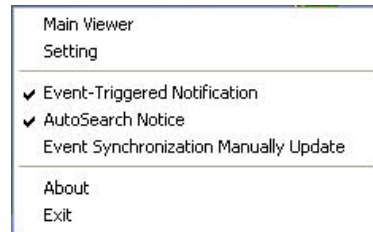
You will get notification from the tray if the program has detected a new NVR has been placed on the network.



A small video will also be popping out from the tray to notify you that an abnormal motion has been detected.



Right-click on the program tray icon gets you other functions



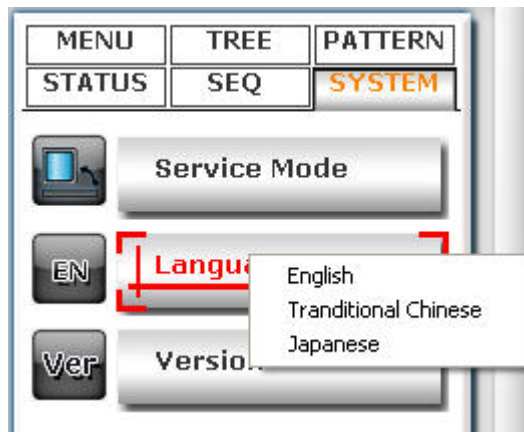
- Maximize the program
- Close the main program and open the Setup Wizard
- Turn on/off event notification (on by default)
- Turn on/off NVR Smart Search (on by default)
- Switch to synchronize events manually (off by default)
- About the program

# 19

## Exit the Program

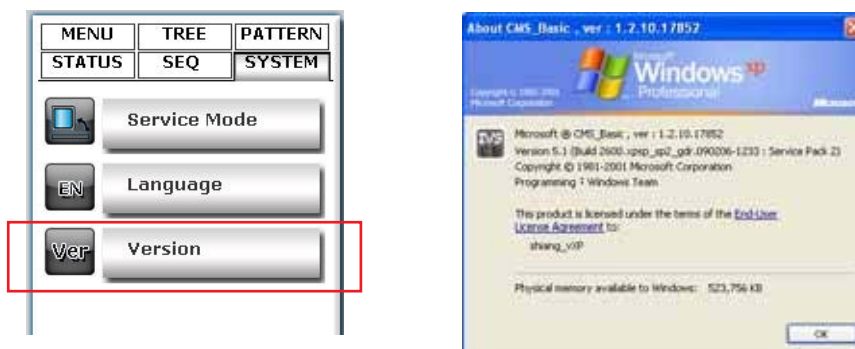
### 19.1 Change Program Display Language

The program provides multiple languages user interface. To change the display language, go to the side menu and select “sYsTeM” → “language” and select a desired language from the drop-down menu.



#### Check Program Version

To check the program’s version, go to “SYSTEM” → “Version”.



#### Check Camera and NVR status

On the live view page, each camera’s current status is displayed in the upper-right hand corner of the video window





You can, however, obtain status of all NVRs and the cameras from the side menu under "STATUS"

MENU	TREE	PATTERN	
STATUS	SEQ	SYSTEM	
<b>SVR Status</b>			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
<b>Channel Status (SVR: 1)</b>			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; margin-right: 5px;"></span> Network Disconnection</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; margin-right: 5px;"></span> Network connection</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; margin-right: 5px;"></span> Recording</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> Event Trigger</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span> Connecting</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; margin-right: 5px;"></span> Video Loss</li> </ul>			

Status definition