Air Live®
Powered by OvisLink Corp.

CamPro Professional

Professional Intelligent Video Surveillance Software

User's Manual

www.airlive.com

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1 Overview

1.1 Introduction

The CamPro Professional is AirLive's intelligent video surveillance recording software that is designed to meet most demands for professional installations. The Professional version greatly enhances the video analysis functions that can be applied to diverse surveillance scenarios. Bases on client/server architecture, CamPro Professional also offers remote management, which means you can install it in your server room and access the system anywhere.

With the bundled CMS software, you can quickly build-up central managed surveillance structure for franchise stores and central-branch office networks. Moreover, the CMS software also supports AirLive's hardware NVR family.

CamPro Professional supports not only AirLive IP camera, but also cameras from most of the main stream brands. In an installation project where a hybrid environment occurs, CamPro Professional can easy help you to integrate most of those existing IP cameras. Even projects with CCTV cameras, you can still use our VS-100 for integrating them into CamPro Professional.

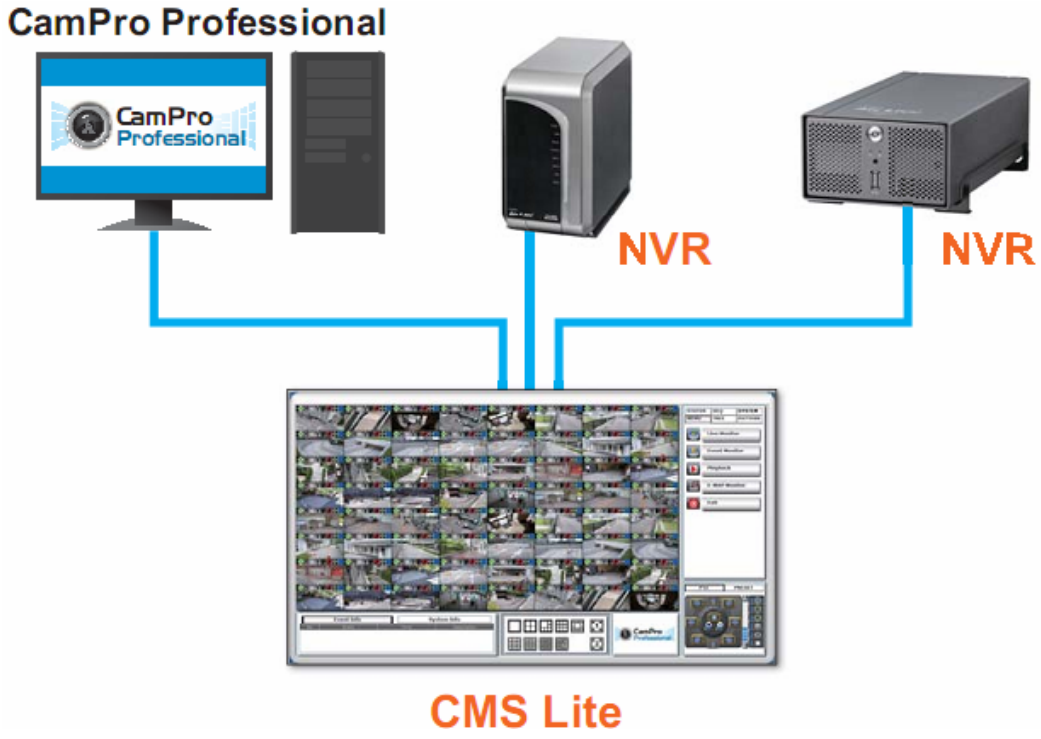
1.2 Product Feature

Intelligent Video Analysis

- Tempering Detection
- Object Loss Detection
- Foreign Object Detection
- Tripwire Detection
- Object Counting
- Face Detection
- Image Enhancement

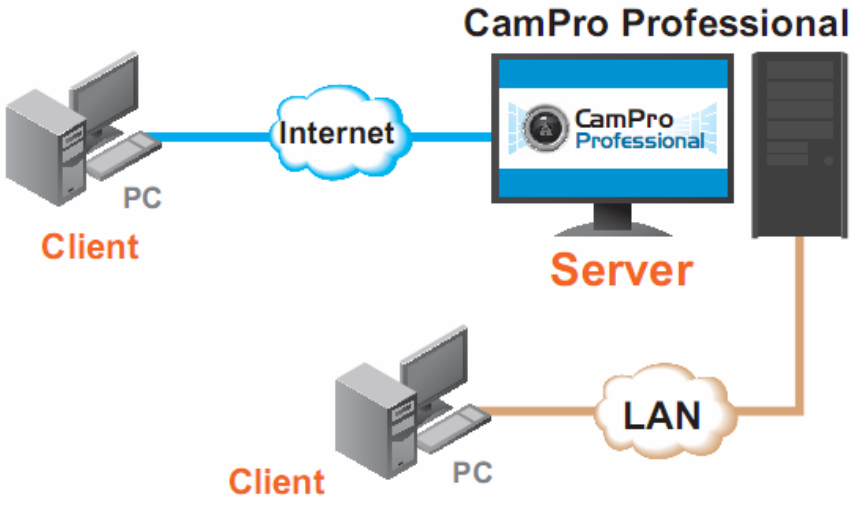
CMS Software

The bundled CMS software can support both CamPro Professional and NVR. It adds scalability to the existing NVR and also provides advance functions. It can support up to 16 NVRs, including CamPro Profession software NVR, and 256 channels totally.



Client-Server Architecture

The Client-Server Architecture allows you to configure your CamPro Professional and view the videos from other computers in your local network or through the Internet. Up to 9 clients can be supported simultaneously.



Large Camera Support List

CamPro Professional also supports more than 25 brands of IP cameras in the main stream market. Even for old CCTV systems, you can just use our VS-100 as the video encoder and integrate those analog cameras to the IP networks.

1.3 Minimum System Requirements

Software requirement:

- OS: Windows 2000(SP4), Windows XP, Windows 2003, Windows 7

Hardware requirement:

- CPU: Intel Core 2 Duo or above
- RAM: Minimum 1 GB, 2GB or above is recommended
- HDD: SATA 200GB or above is recommended
- Display card: Independent display card suggested.
- Ethernet interface: 10/100Mb Ethernet card or above
- At last one available USB port for USB Key

Note: Please make sure your display DPI setting is set to default at 96DPI. To set DPI value, right-click on desktop, choose “Settings”→“Advanced”→ “General”

2 Installation

2.1 Package Content

You can find the following items in the package:

- Installation CD:
  The CD includes the programs and documents.
- USB Key:
  The USB Key is burned with the software license. For activating the CamPro Professional, please remember to plug the Key to the machine.
- This Quick Installation Guide (QIG)
  This document for guiding you installs the system.

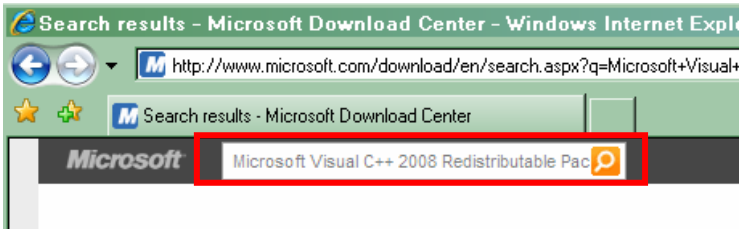
If any of the above is missing, please contact your dealer immediately.

2.2 Before you Install

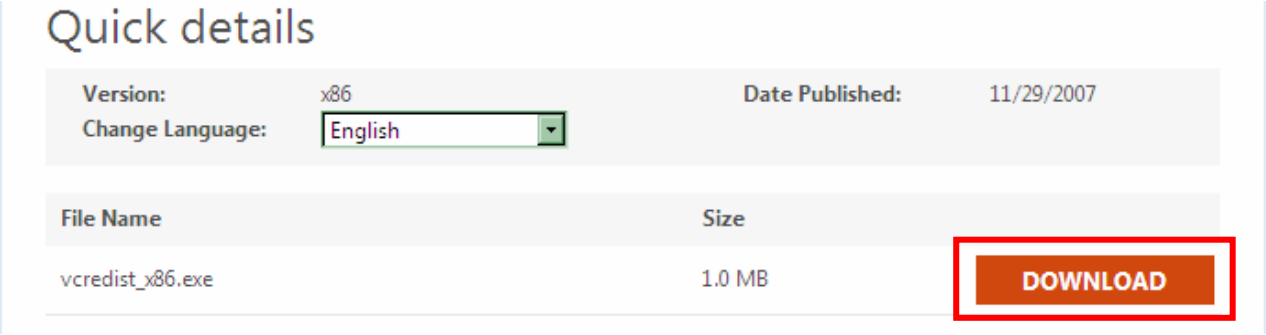
For running CamPro Professional on your machine, you need to install some additional library. Please first check if you have installed “Microsoft Visual C++ 2008 Redistributable Package”. If not, please follow the steps below for installing the additional library:

1. Open your browser and go to Microsoft Download Center:

2. Search for the “Microsoft Visual C++ 2008 Redistributable Package”.



3. Then select the one for your operation system and download it. If you can not sure which package should you install, please contact with the reseller of your machine.



4. After downloading the package, please follow the instruction to install the package.

2.3 Software Installation (WindowXP)

1. Put the installation CD into your CD drive, and the Auto Run window will show up.

The items will be explained as below:

- Install CamPro Professional (Full):
  Please click on this item if you want to install both server and client program on your PC. If your Operation System is Vista or Windows7, please see 2.4, for further instruction to install the program.
- Install CamPro Professional (Client Only):
  If you have another server in the machine room and want to use this PC to connect to the server, please select this installation. This will install the client applications only. If your Operation System is Vista or Windows7, please go to the CD's sub folder and install the program as administrator.
- Install Central Management Software (CMS Lite):
  The CMS Lite is a separate program for managing distributed CamPro Professional or NVR. If you want to install the CMS Lite, please choose this item. If your Operation System is Vista or Windows7, please go to the CD's sub folder and

install the program as administrator.

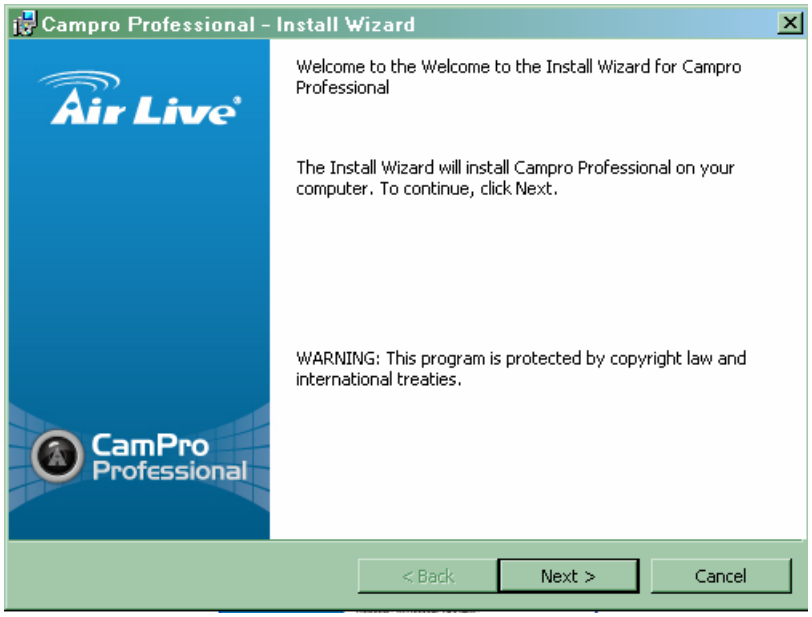
- Install Driver & Utility:
  Click on this link for open the utility folder and you can find the NVR Media Player under this folder.
- Quick Start Guide:
  Open the sub folder that the QSG is located.
- User's Manual:
  Open the sub folder that the user's manuals of CamPro Professional and CMS Lite are located.
- Acrobat Reader:
  Click on this item for installing the Acrobat Reader.
- Browser CD:
  Click on this item for further browsing this CD.

2. Below will show the full installation process for illuminating. Please select "Install CamPro Professional (Full)".

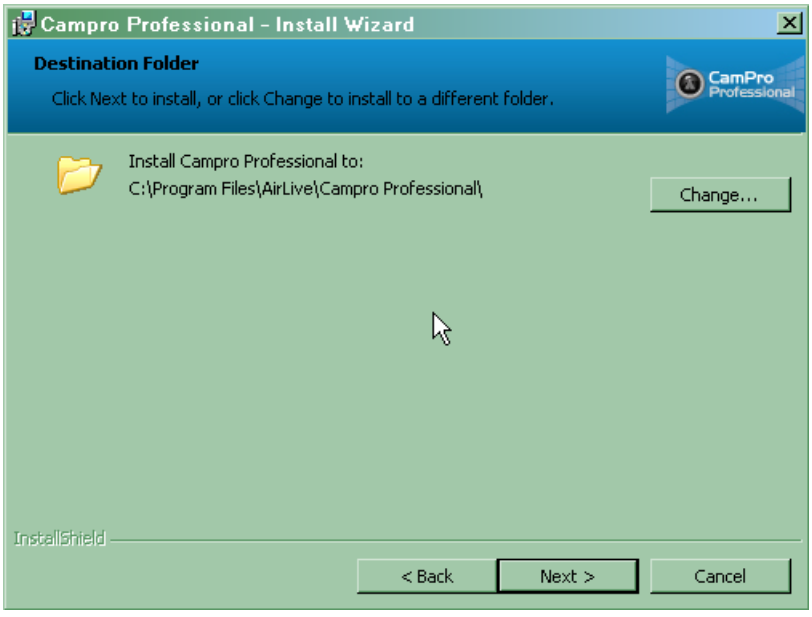
3. If the Auto Run window does not show up, please open the software folder and double click on the setup.exe for starting the installation. If your operation system is Windows Vista or 7, please see 2.4 Software Installation (Window Vista/7).

4. The installation program will prepare to install the program.

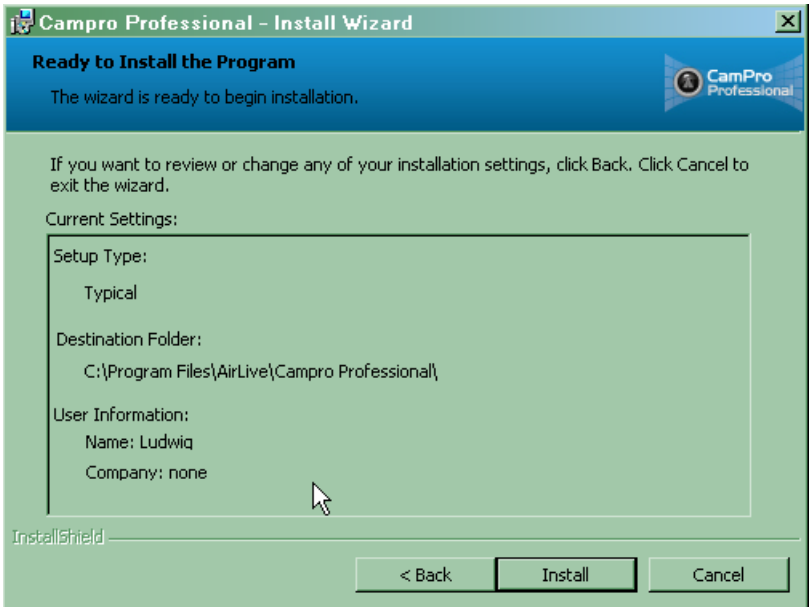
5. Click on “Next” to continue.



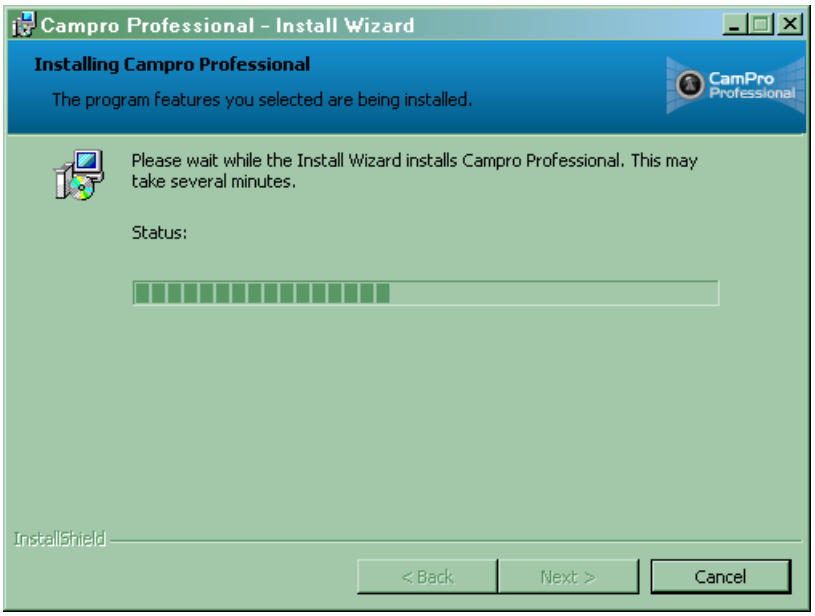
6. Click “Next” to accept the default installation directory, or click “Change” to in- stall it in a directory of your choice.



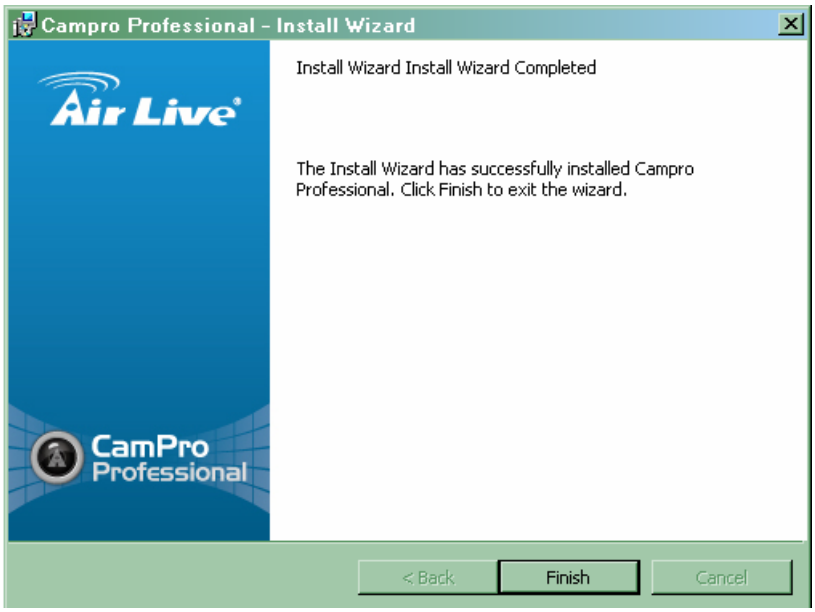
7. Click “Next” again to confirm your setting.



8. The installation will then begin.



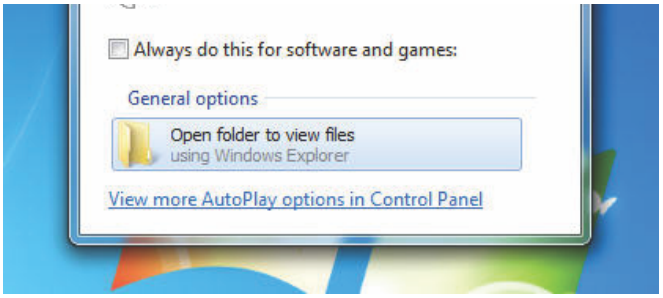
9. Simply click “Finish” to exit the installation when it’s done.



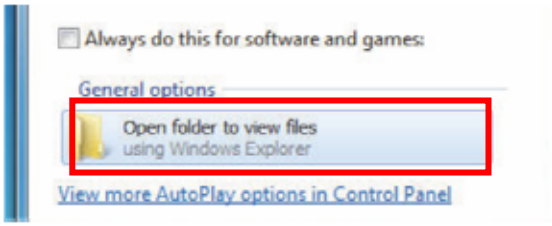
Note: For Windows Vista/7 installation, please make sure the software is installed with “Administrator” privilege. To do so, right-click on the “Setup.exe” file and select “Run as Administrator” option from the drop-down menu.

2.4 Software Installation (Window Vista/7)

1. Insert the CD in the CD-ROM drive and the “Autoplay” dialog should be displayed automatically (as shown below):

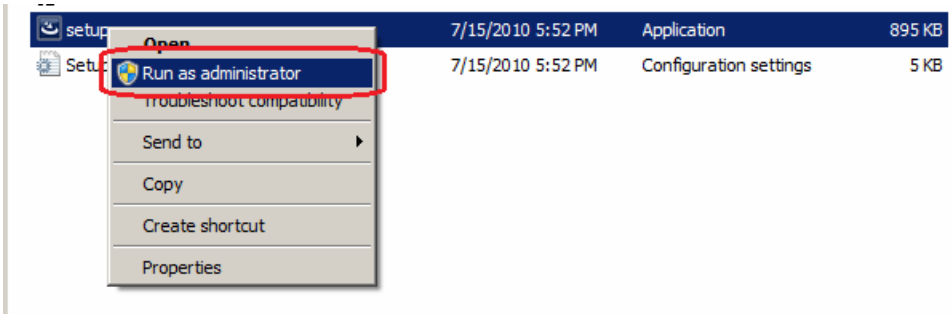


2. Click on “Open folder to view files” and the windows explorer should come up and display the CD contents:



3. Go to the “Program” folder.

4. Right-click on the “Setup.exe” file and select “Run as administrator” option from the pull-down menu.

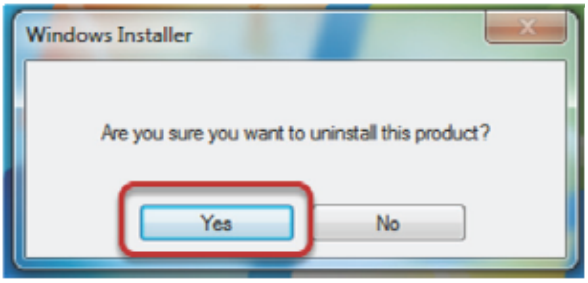


5. Then the program will begin to install.

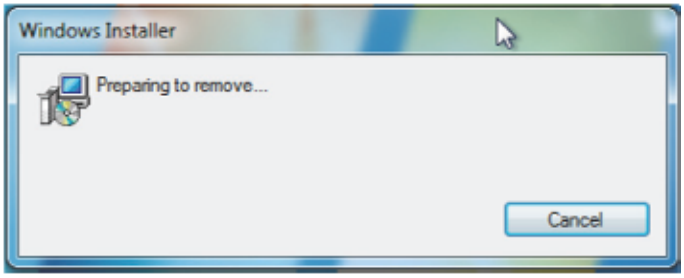
2.5 Uninstall the Program

1. Go to the “Start” menu and “All Programs” >> “AirLive” >> “CamPro Professional” >> “Uninstall CamPro Professional”.

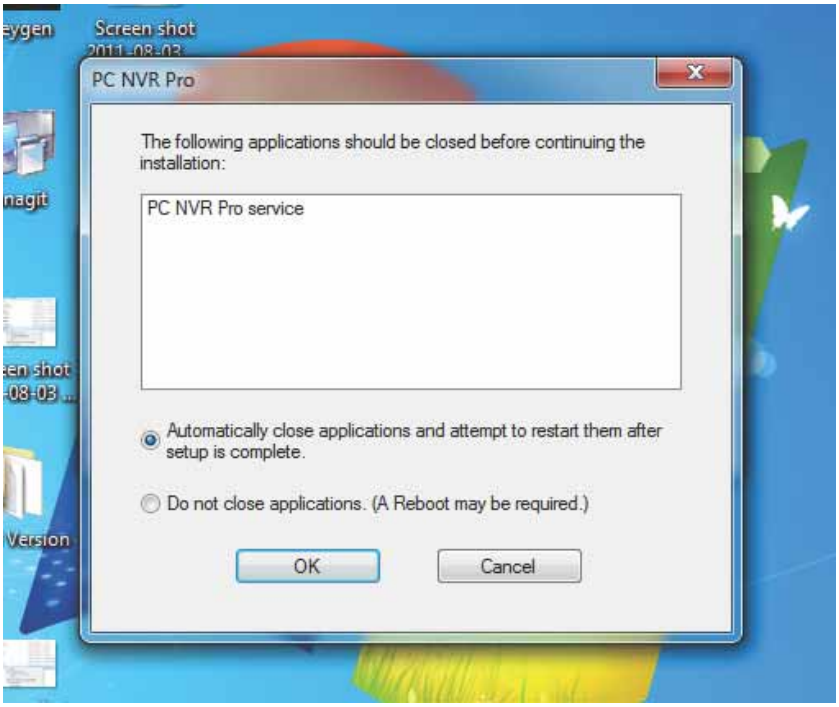
2. Click “Yes” to confirm the action.



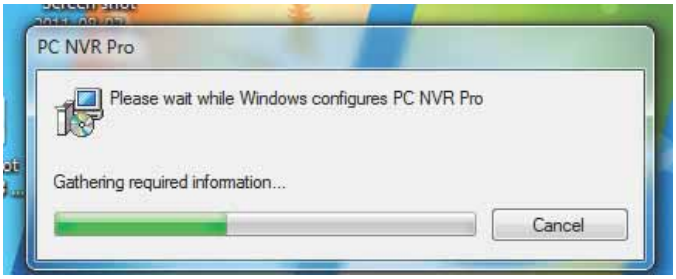
3. You should be prompted that the Windows Installer is preparing to remove the program.



4. You will be prompted with a warning message, simply click “OK” and accept the defaults.



5. The un-installation will continue.



2.6 Install the USB Key

The software license is protected by the bundle USB key. If you have the key, please plug it to your PC for activating CamPro Professional. Without the key presented, you can only run this program in demo mode.

How many IP cameras you could add to the CamPro Professional depends on the license burn into the key.

2.7 Upgrade the License

When the software (channel) license is not enough for new coming IP camera, you need to purchase new licenses for those new IP cameras. Please contact with you reseller for buying the additional license. Or you can also send mail to campro@airlive.com for buying the additional license.

After you purchase the new licenses, you will receive a license file. Please follow the steps below for importing the new licenses.

1. Start the Config Wizard via the desktop icon.
2. Click on the Upgrade Button in the on the Config Wizard.

3. Then the dialogue box will pop up. Please choose and import the license file you received. After importing the license, your CamPro Professional now can add the new coming IP camera.

2.8 Desktop Icons

After Installing the CamPro Professional, you can find the shortcut icons on your desktop. Or you can also find the shortcut under Start → Programs → AirLive → CamPro Professional. There will also be three icons on your desktop:

The “Config-Wizard”: It’s the configuration utility that helps users quickly configure the necessaries (such as adding cameras, PTZ set- tings, and various function settings). Please use this program for configuring the CamPro Professional before you initiating the program.

Use this program to control the service running on your server. Once you launch this program, it will stay in the system tray. You can right click on the icon to check the status of the service or start/stop the service.

The “Monitor”: Use this program to access the CamPro Professional server. It can be run on the very same machine the CamPro Professional is installed, and it will be accessing the “local machine” to view the cameras’ live videos. It can be installed on a different machine, and simply run it to access the remote server with its public IP address. If you want to install the client only, please select “Install CamPro Professional (Client Only)” under the installation window.

And you will see the Media Player under Start → Programs → AirLive → CamPro Professional.

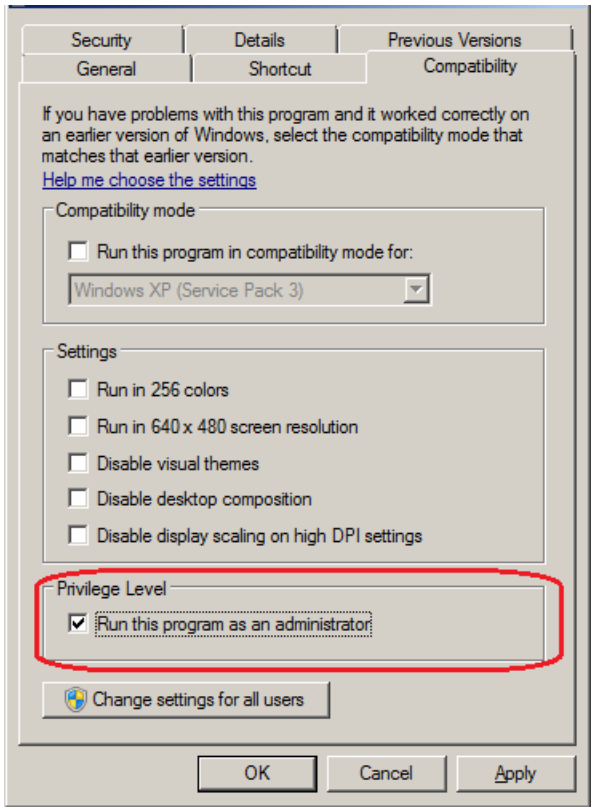
The “Media-Player”: The NVR Server has its own database which is used to store the recorded videos (media) in its proprietary database file format. The media player can be used to play the database file as well as the AVI videos that are exported by the software. This can illuminate the hassles for users to install a third-party player software (or codec) in order to playback the recorded media.

2.9 Run the Program (Windows XP)

Click on the icon of CamPro Express Monitor on the desktop. Or you might find the short cut in the “Start → Program File → AirLive → CamPro Express 64”.

2.10 Run the Program (Windows Vista/7)

1. Right-click on the application shortcut from the desktop and choose “Properties”.
2. Go to the “Compatibility” tab and check “Run this program as an administrator:

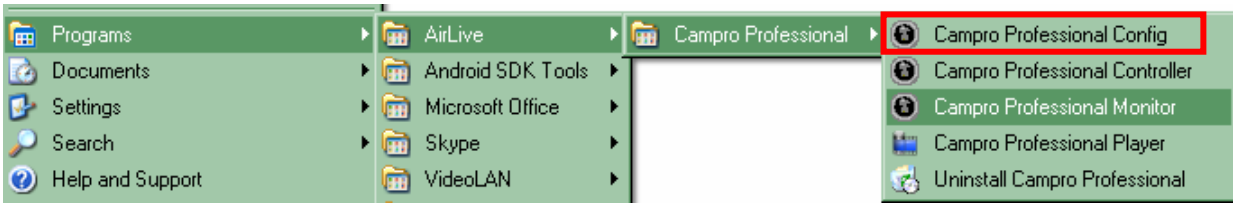


2.11 Getting Start with CamPro Professional

Upon fresh install, the software contains no configuration profile, which, the soft- ware's service can not be initiated as no configuration has been performed to the software yet.

To get started, start the "Config-wizard" from the desktop shortcut:

Or access it from the "Start" menu; the path should be as below:



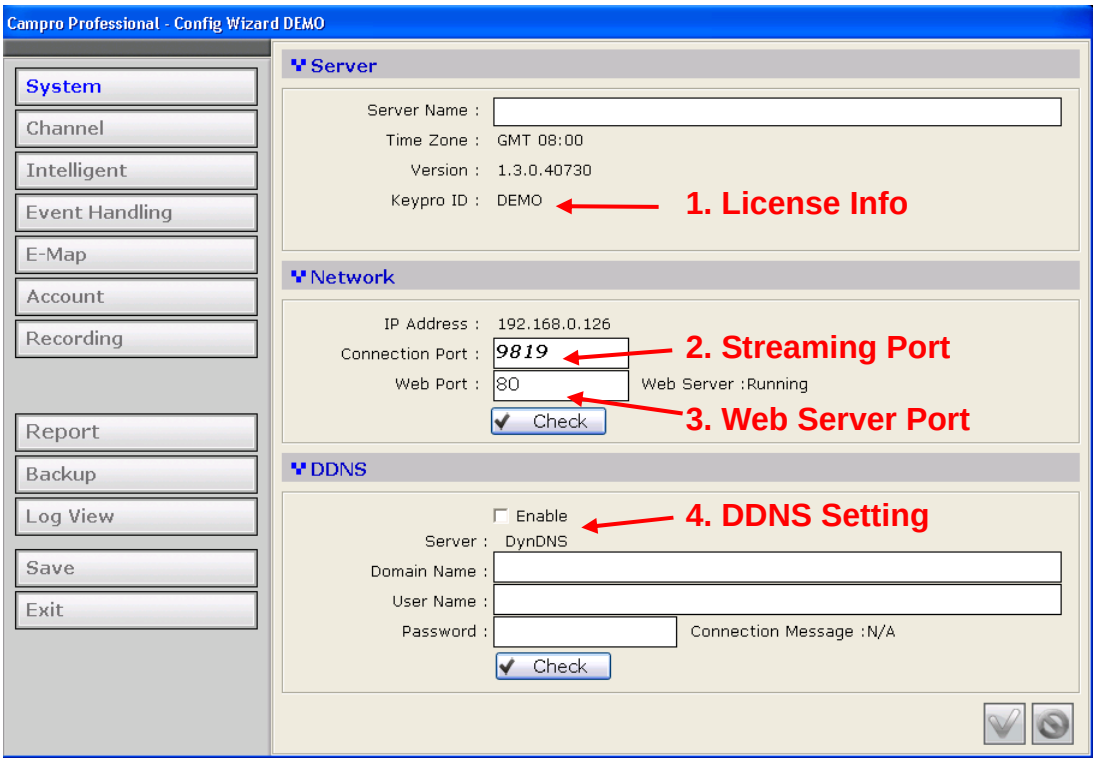
For the software's service to be properly initiated, make any changes to the settings through the Config Wizard then save it and exit the program. Restart the Config Wizard and the software's service should be initiated.

3 Configuration

3.1 Using the Configuration Wizard

1. Upon the start of the Config Wizard, you should be prompted with the login screen like below. By default, no username and password is required for login. Simply click the “Login” icon highlighted below to log in.

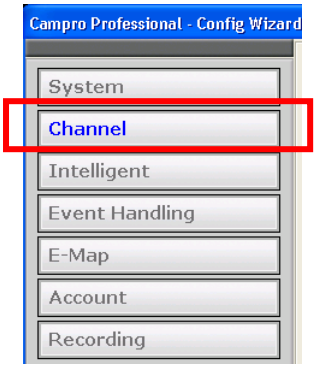
2. You should be prompted with the System page in the Config Wizard like below.

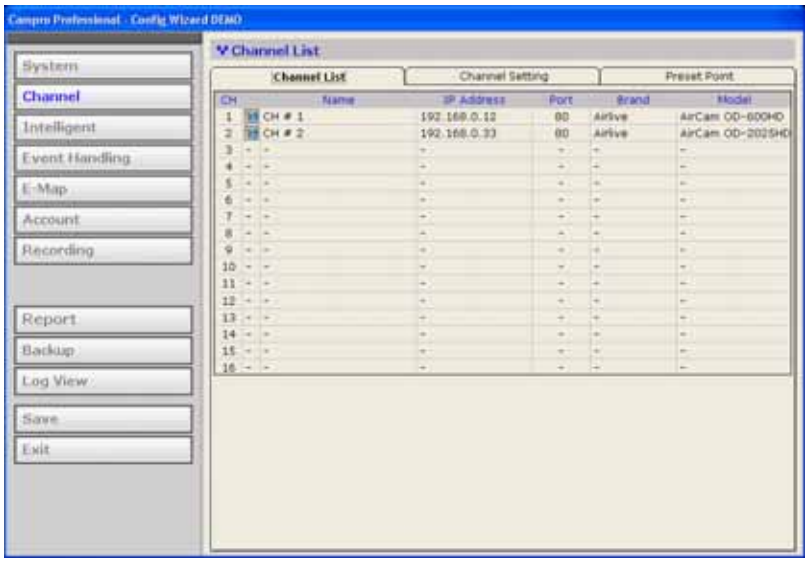


3.2 Adding IP Cameras

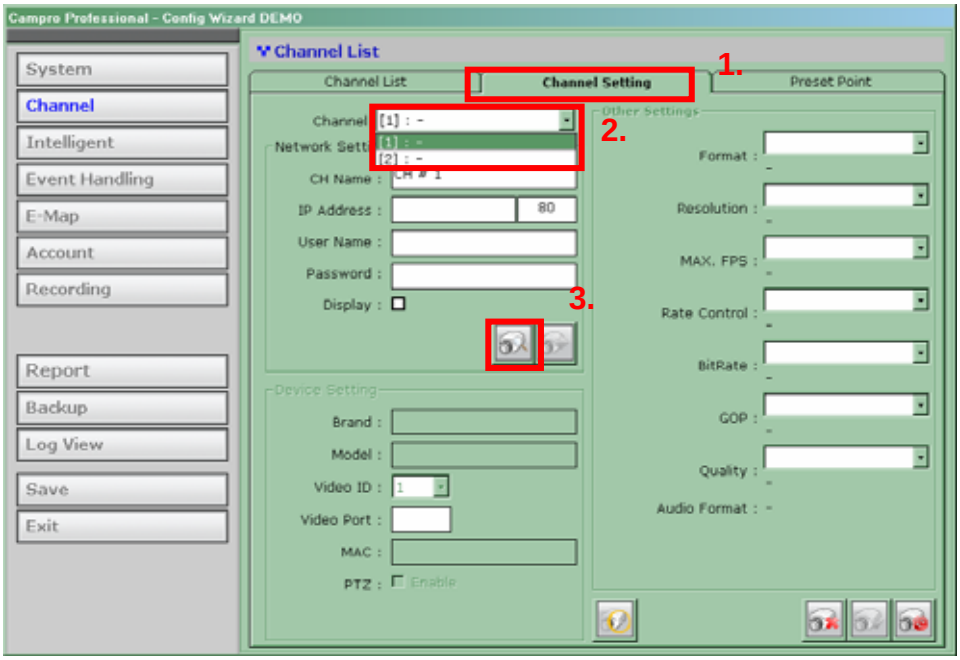
To add cameras using the configuration wizard, go to “Channel” from the menu on the left.

1. The “Channel List” page should be display which is an overview page that displays a list of cameras currently added to the software.



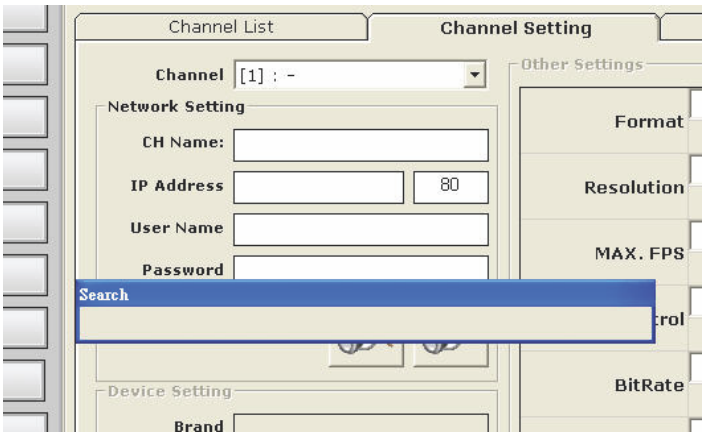


2. To add a new camera, click on the “Channel Setting” tab and select an available channel from the “Channel” drop-down menu, and then click on “Search” to begin:

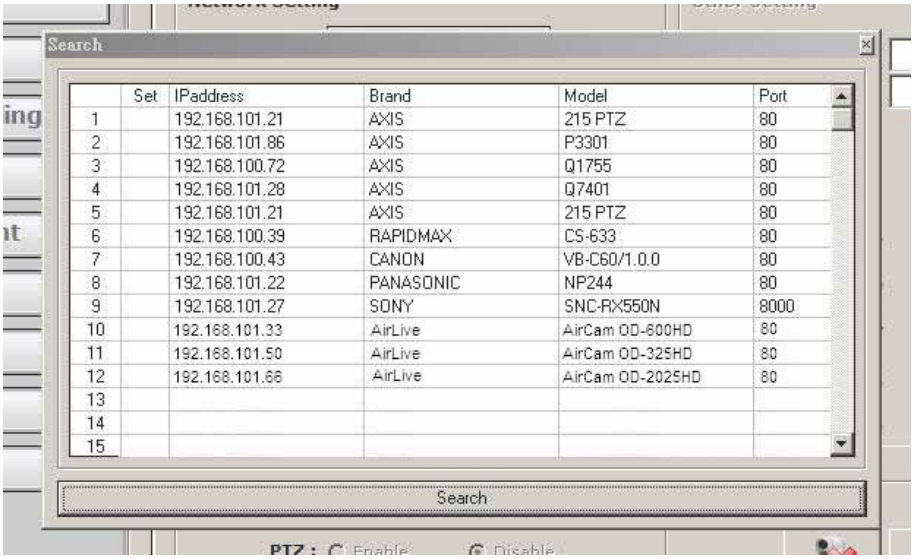


Note: The “Search” function only works when the cameras are installed in the same subnet as the PC the NVR software is installed.

3. The program will perform a search and locate the cameras available within the same subnet:

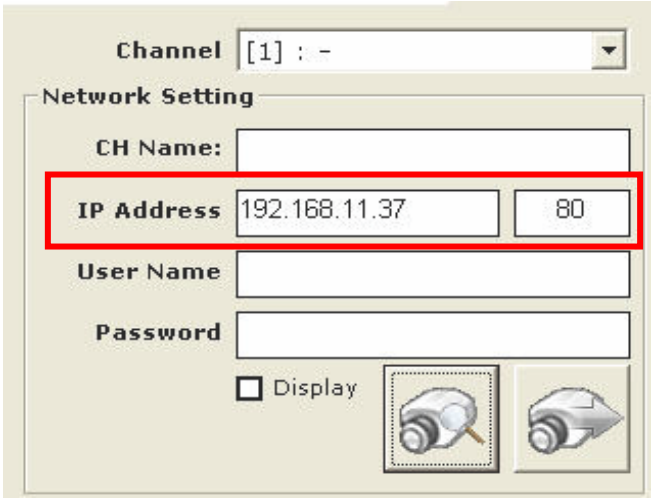


4. A new dialog should be prompted and displays a list of available cameras:

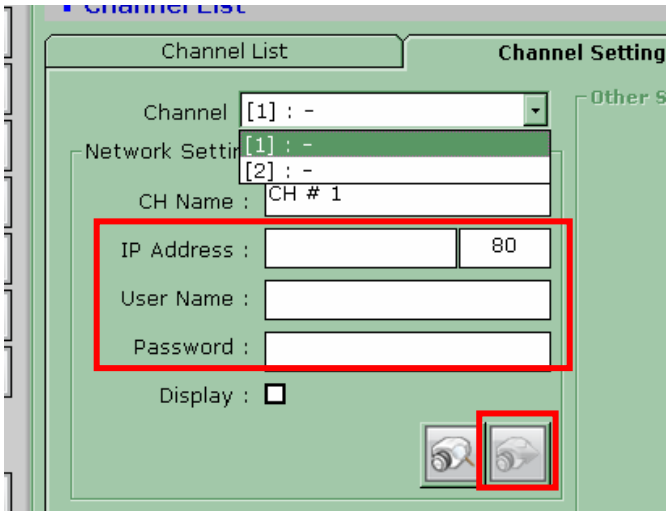


	Set	IPaddress	Brand	Model	Port
1		192.168.101.21	AXIS	215 PTZ	80
2		192.168.101.86	AXIS	P3301	80
3		192.168.100.72	AXIS	Q1755	80
4		192.168.101.28	AXIS	Q7401	80
5		192.168.101.21	AXIS	215 PTZ	80
6		192.168.100.39	RAPIDMAX	CS-633	80
7		192.168.100.43	CANON	VB-C60/1.0.0	80
8		192.168.101.22	PANASONIC	NP244	80
9		192.168.101.27	SONY	SNC-RX550N	8000
10		192.168.101.33	AirLive	AirCam OD-600HD	80
11		192.168.101.50	AirLive	AirCam OD-325HD	80
12		192.168.101.66	AirLive	AirCam OD-2025HD	80
13					
14					
15					

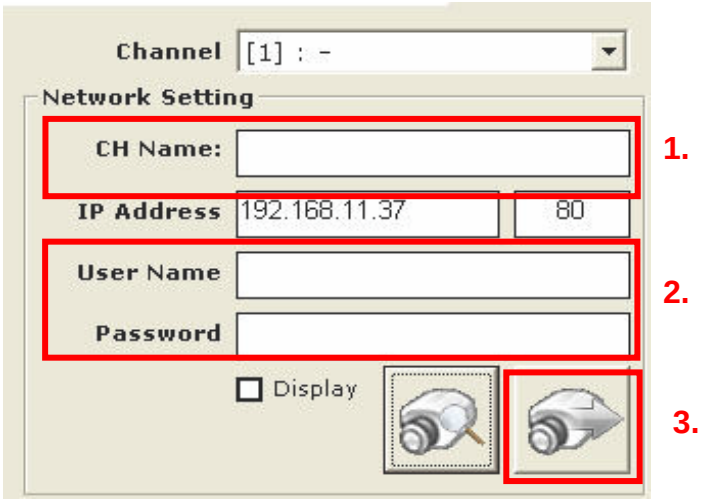
5. Double-click on a camera from the list and it should direct you back to the “Channel Setting” page. The camera’s IP address and HTTP port should be automatically filled in the “Network Setting section:



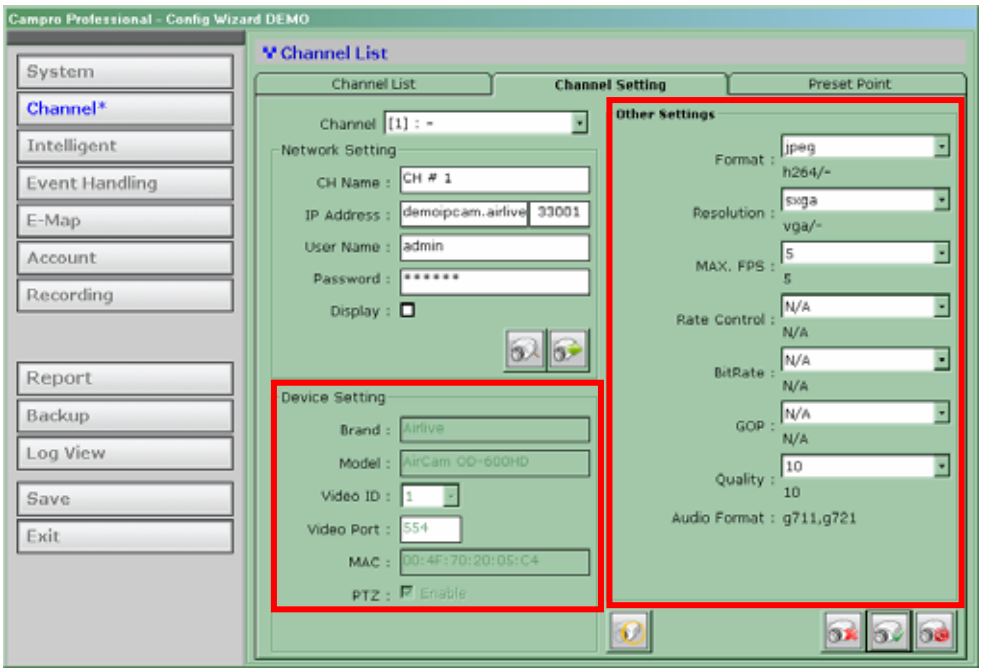
6. For cameras located in different subnet (but within the same local network), enter its private IP, HTTP port, user- name and password manually and click “Detect”.



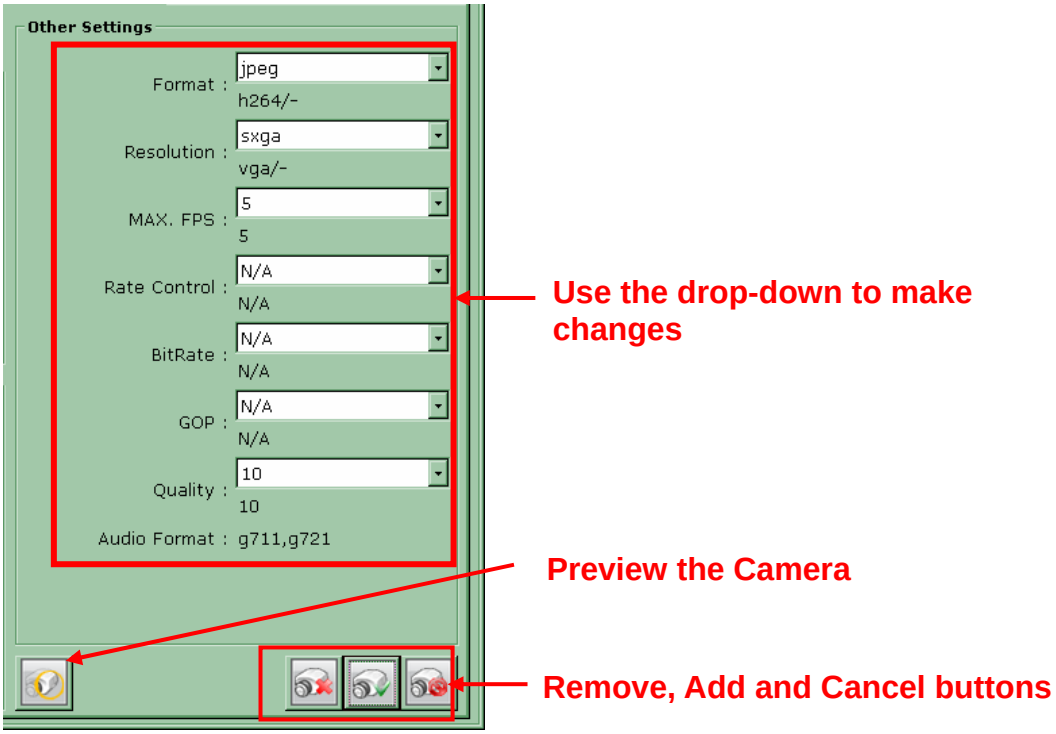
7. Fill in the camera's username and password (must be the root privilege account) in the corresponding fields shown below and click "Detect":



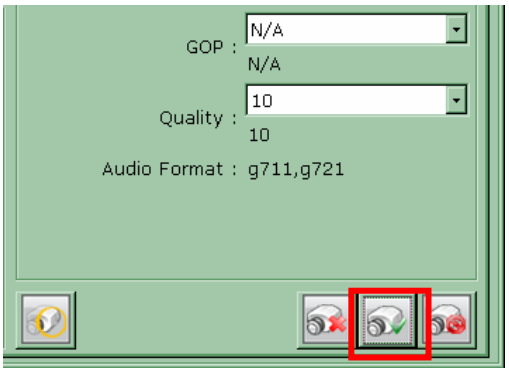
8. Upon a successful detection, the camera's information and its current settings should be detected: (as shown below)



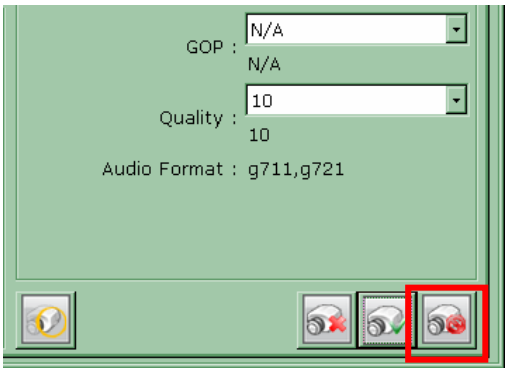
9. The settings shown in the “Other Setting” section can be changed by using either the available drop-down menu or by clicking the corresponding cell box:



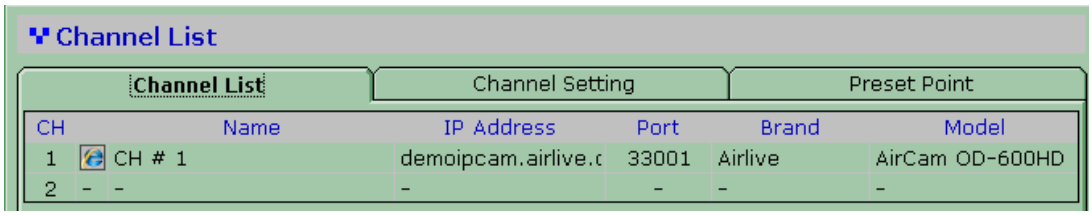
10. Click the “Add Camera” button to confirm the settings and you should be directed back to the “Channel List” page:



11. You can click the “Cancel” button to cancel the configuration and you should be directed back to the “Channel List” page:

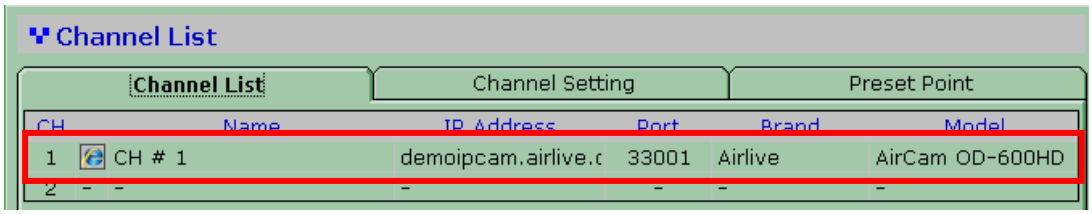


12. You should now see a list of cameras you’ve been added to the software from the “Channel List” page:

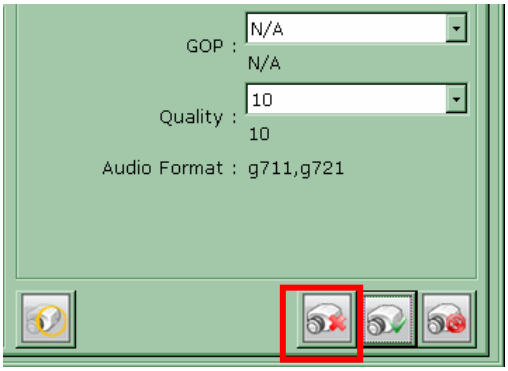


3.3 Remove the Camera

1. To remove a camera, simply click on a camera from the list under the “Channel List” page, it should direct you to the “Channel Setting” page:



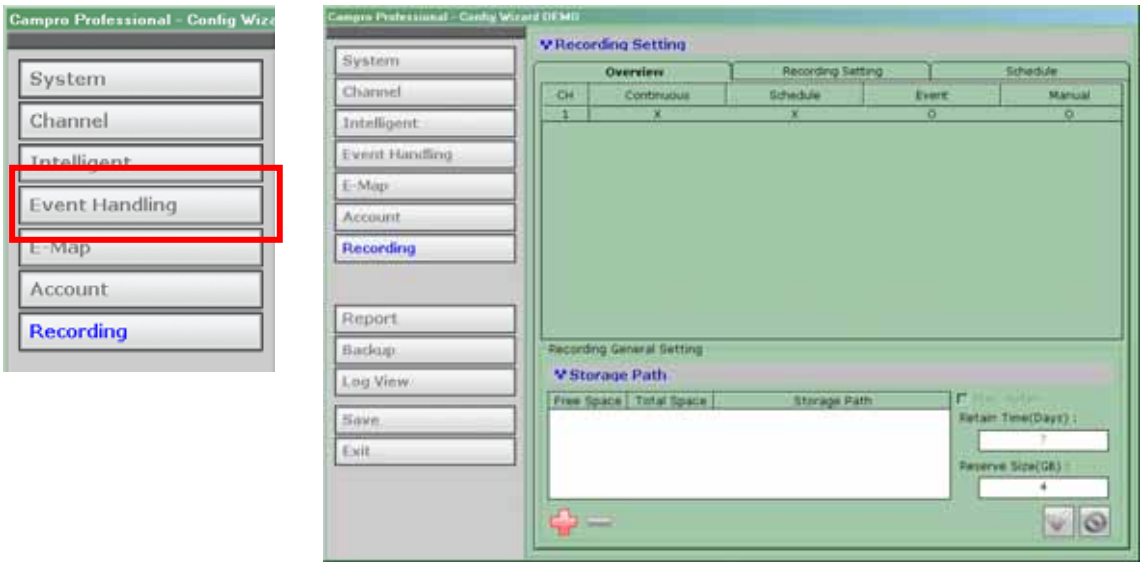
2. And all settings of the camera you just clicked on will be displayed. Click on the “Remove camera” button to remove the camera:



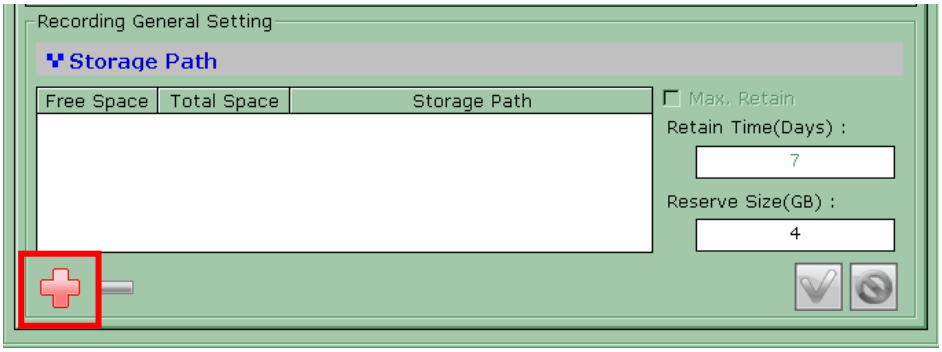
3.4 Recording the Video

The recording configuration page allows users to configure the followings:

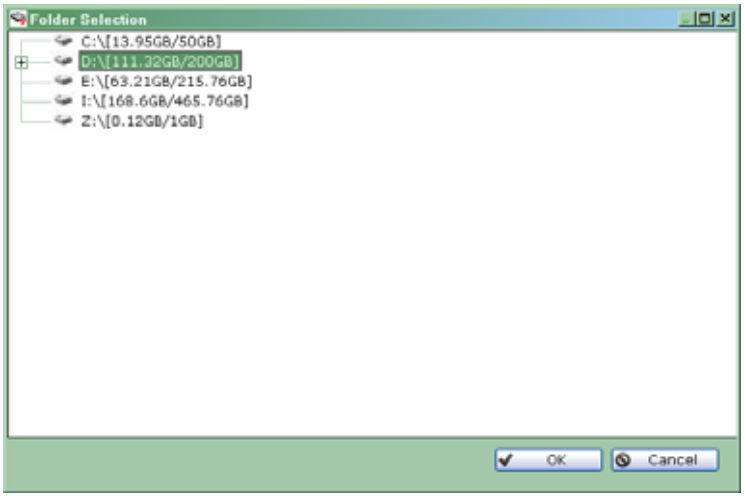
- Quickly enable/disable certain types of recording
- Recording storage path
- Recording frame rate of each recording type on each channel
- Pre-alarm/Post-alarm time
- Schedule recording



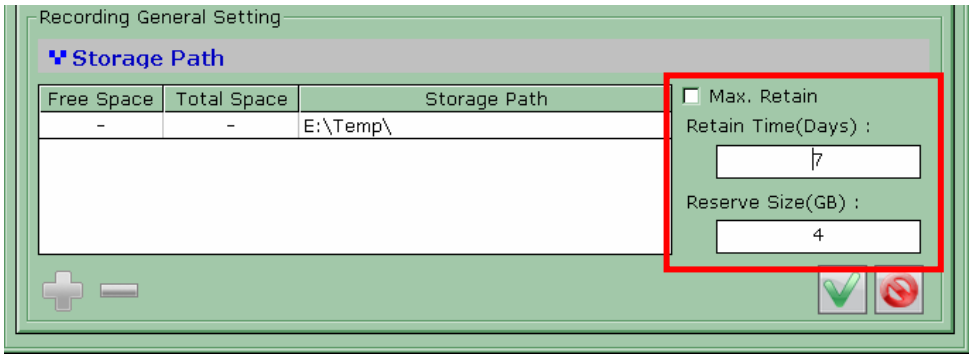
1. You should first be prompted with the overview page that displays the current recording configurations of each channel and the storage path. To add a new storage path, click on the “Add” button (as shown below):



2. A new dialog should be prompted which you can select a new path to store the recording data:



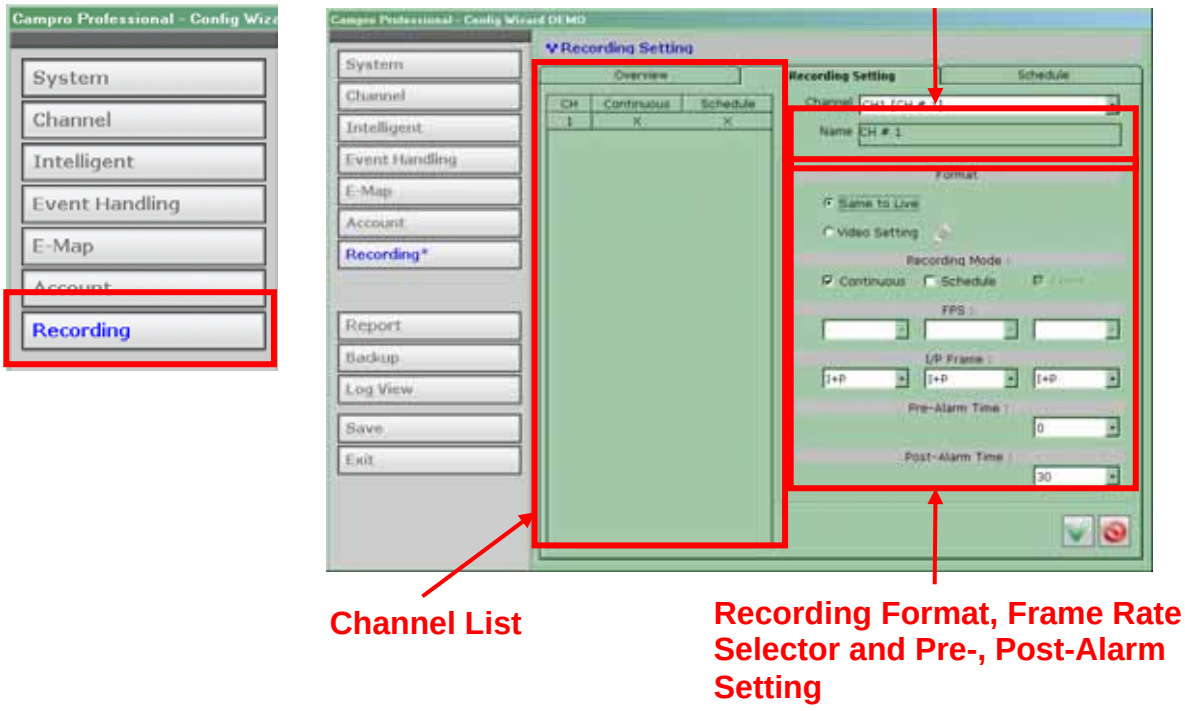
3. You can also configure the software to always keep the previous number of days of recording data if you wish to do so:



3.5 Recording Detailed

You can configure the detail recording settings in the “Recording Setting” page. In this page, you can configure the followings:

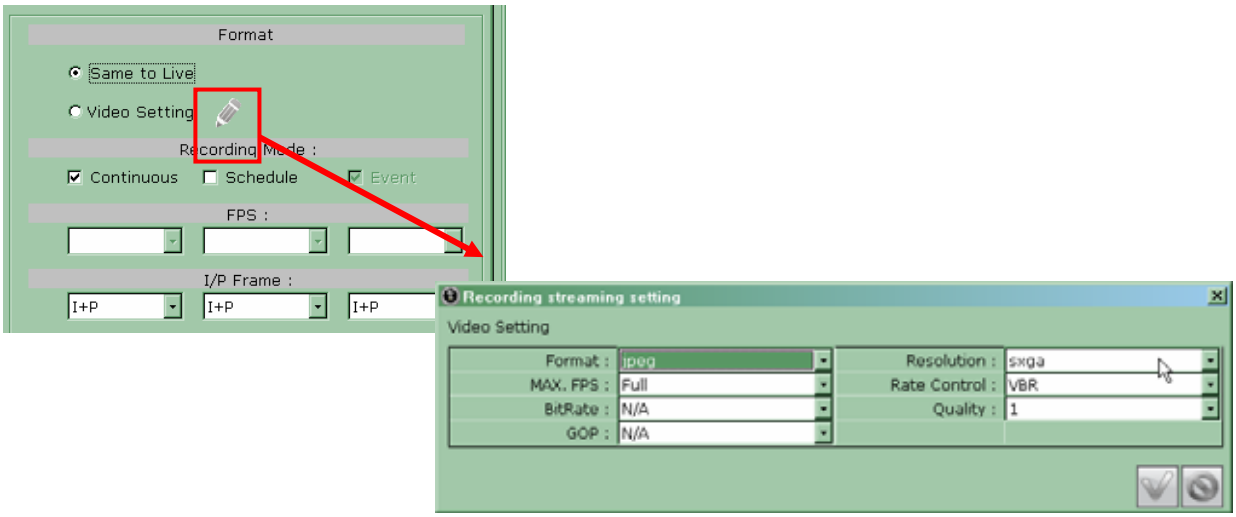
- Enable/disable recording types
- Recording frame rate
- Pre-Alarm/post-alarm time



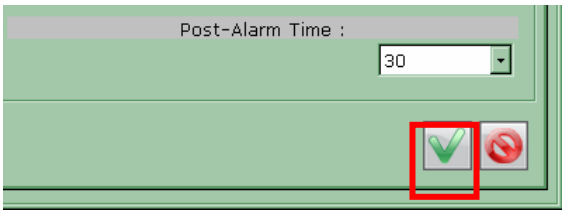
1. For making the program record video, first click on the desired channel on the list.

2. Then you need to select the video format. If “Same to Live” is selected, the video compression format of the recorded clips will be the same with the Live View setting.

3. For some installation, it may request higher quality to recorded video. And he can choose “Video Setting” for further selecting the desired format.

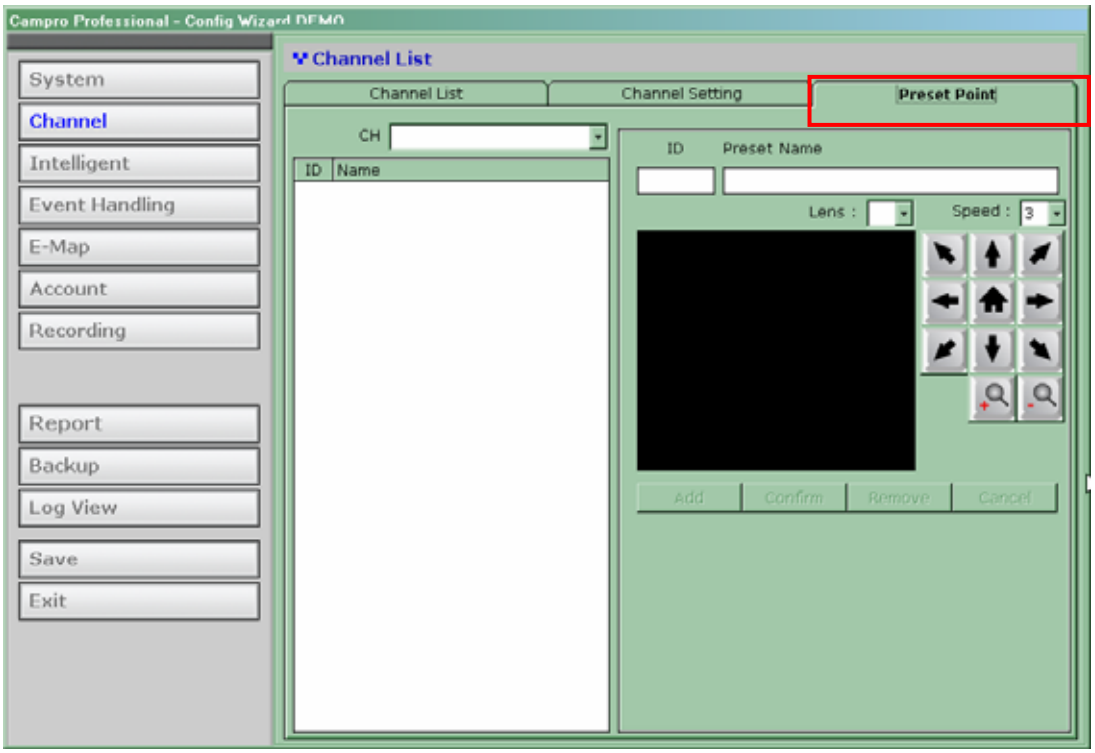


4. Click on “Save” for saving the configuration.

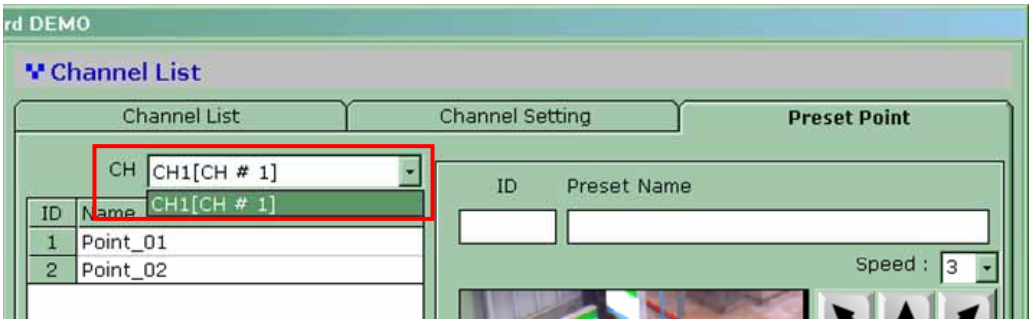


3.6 PTZ Setting

After adding cameras to the software, all the PTZ cameras will be available in the “PTZ Setting” page (Channel >> PTZ Setting)

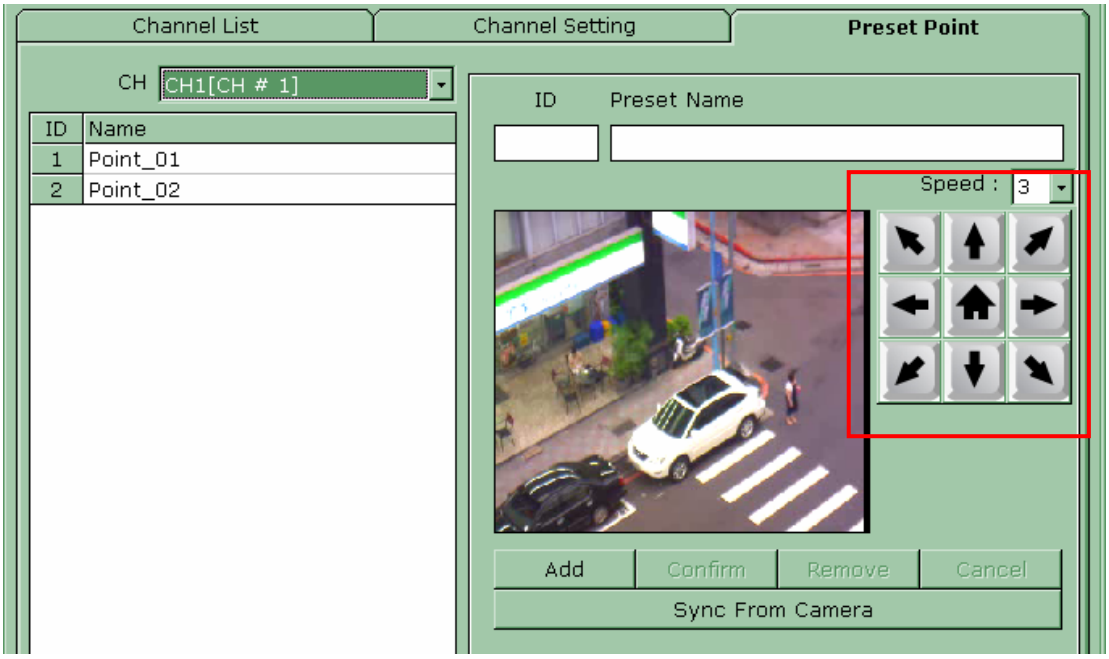


1. Only PTZ cameras will be listed in the “Channel” drop-down menu: (as shown below)

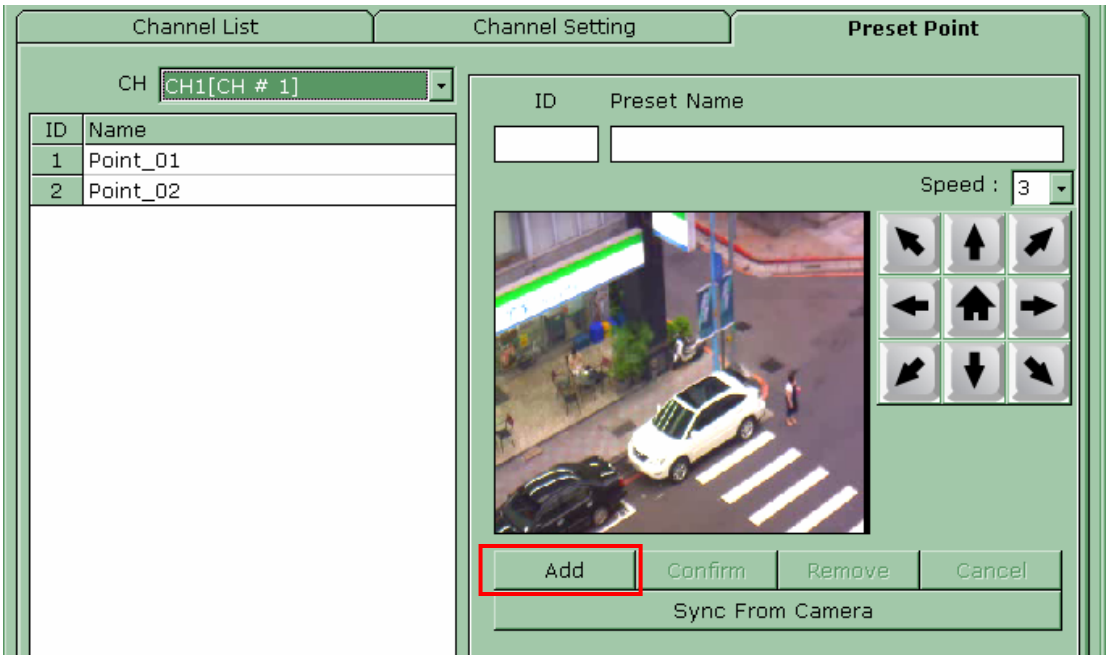


2. The live video of the selected IP camera should then be displayed in the lower-right hand corner:

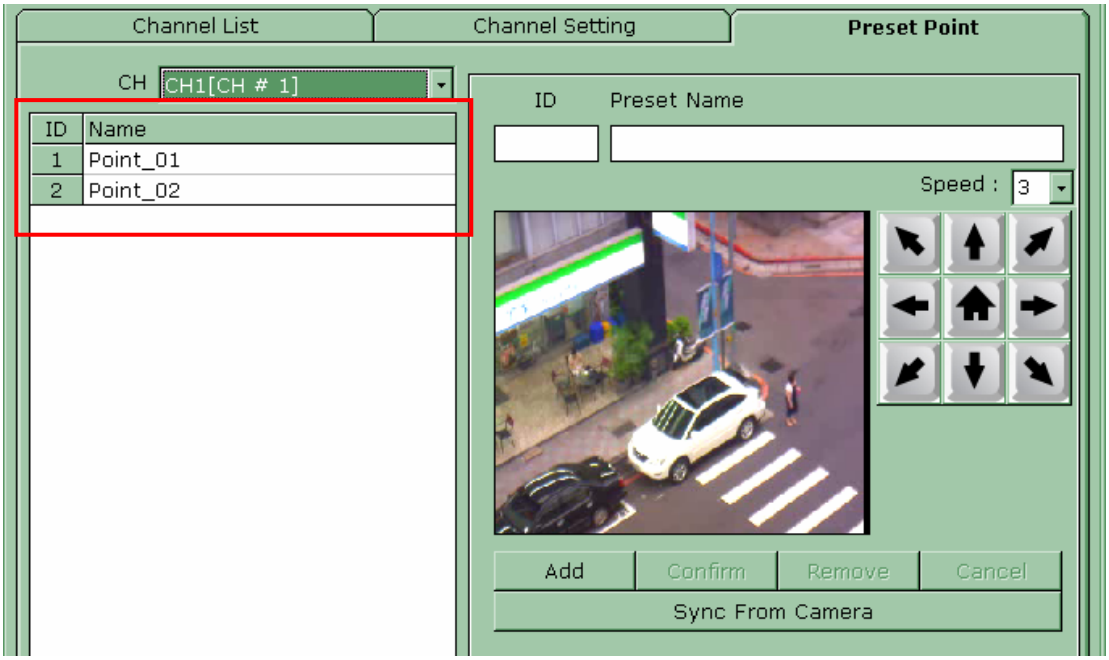
3. Use the on-screen PTZ panel to move the view point and select PTZ movement speed from the “Speed” drop-down to determine the distance of each movement:



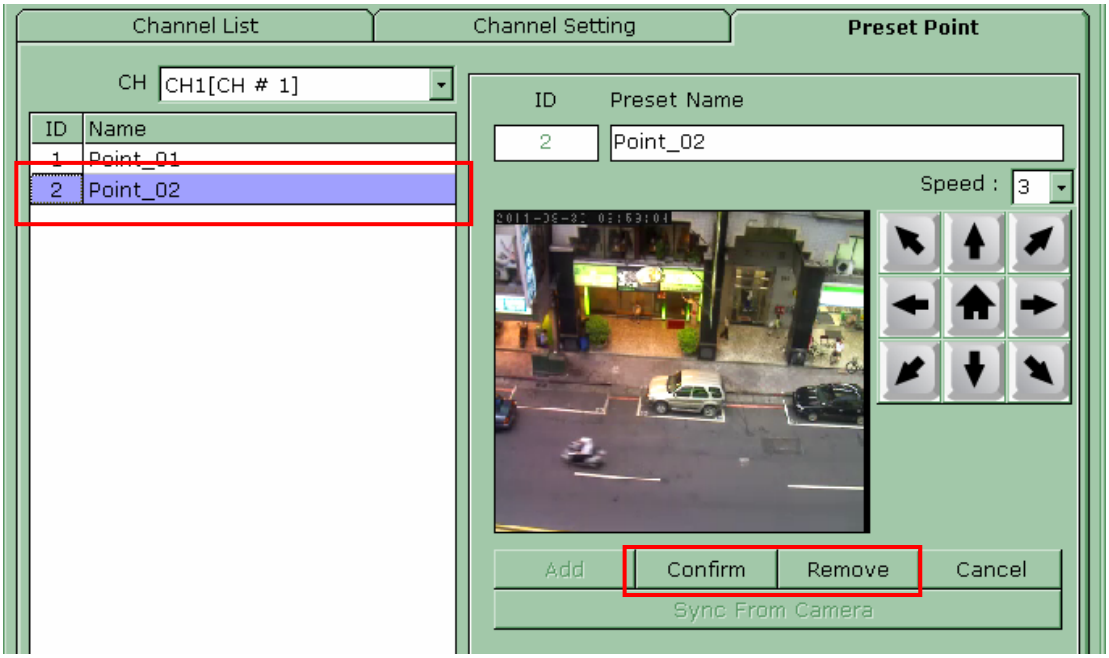
4. Next, type in a name in the “Preset Name” field to name the preset point and click “Add” to finish:



5. The preset point will then be added and will be available in the “Preset Points List” (as shown below)



6. To modify the preset point, click to highlight the preset point, use the PTZ panel to move the lens to desired position, and then click on Confirm button. Or you can also click on the “Remove” to remove button the preset point:

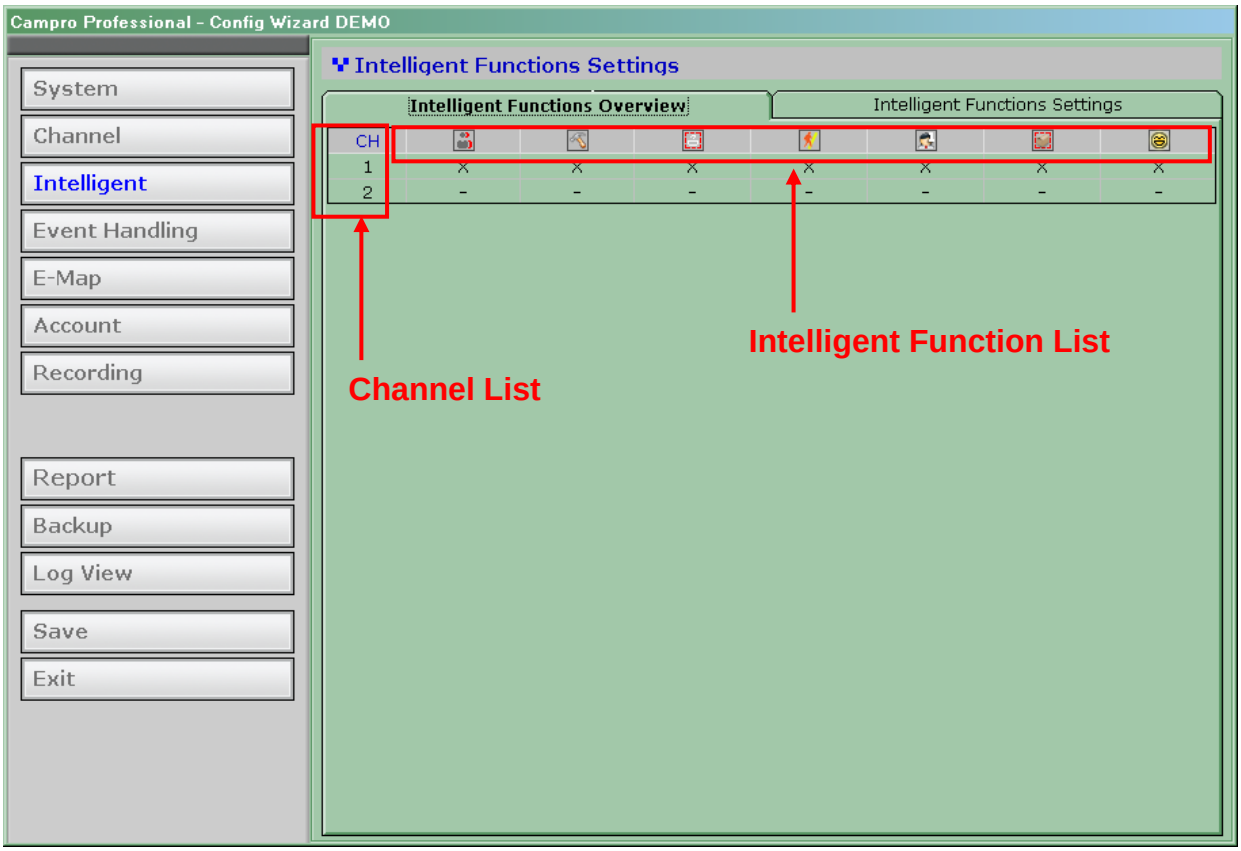


4 Intelligent Setting

4.1 Overview

The software has built-in various intelligent video analytic features which need to be configured and enabled in the configuration wizard. The configuration page can be accessed in the configuration wizard under “Intelligent” from the menu on the left. You should be greeted with an overview list when first access this page.

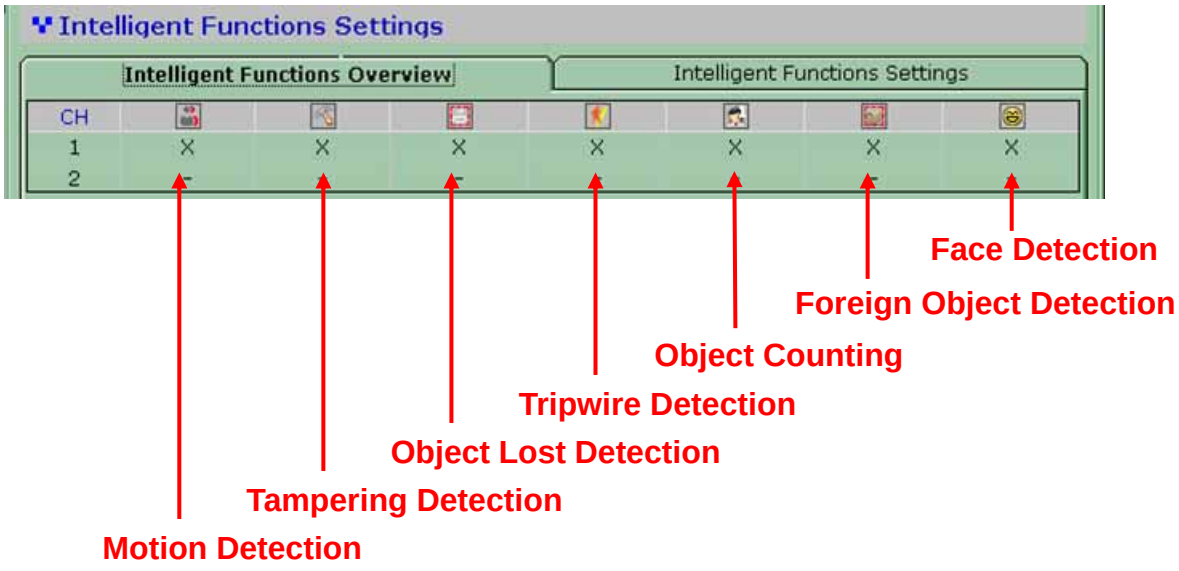
The overview provides the overall configuration status of each intelligent function on the available channels.



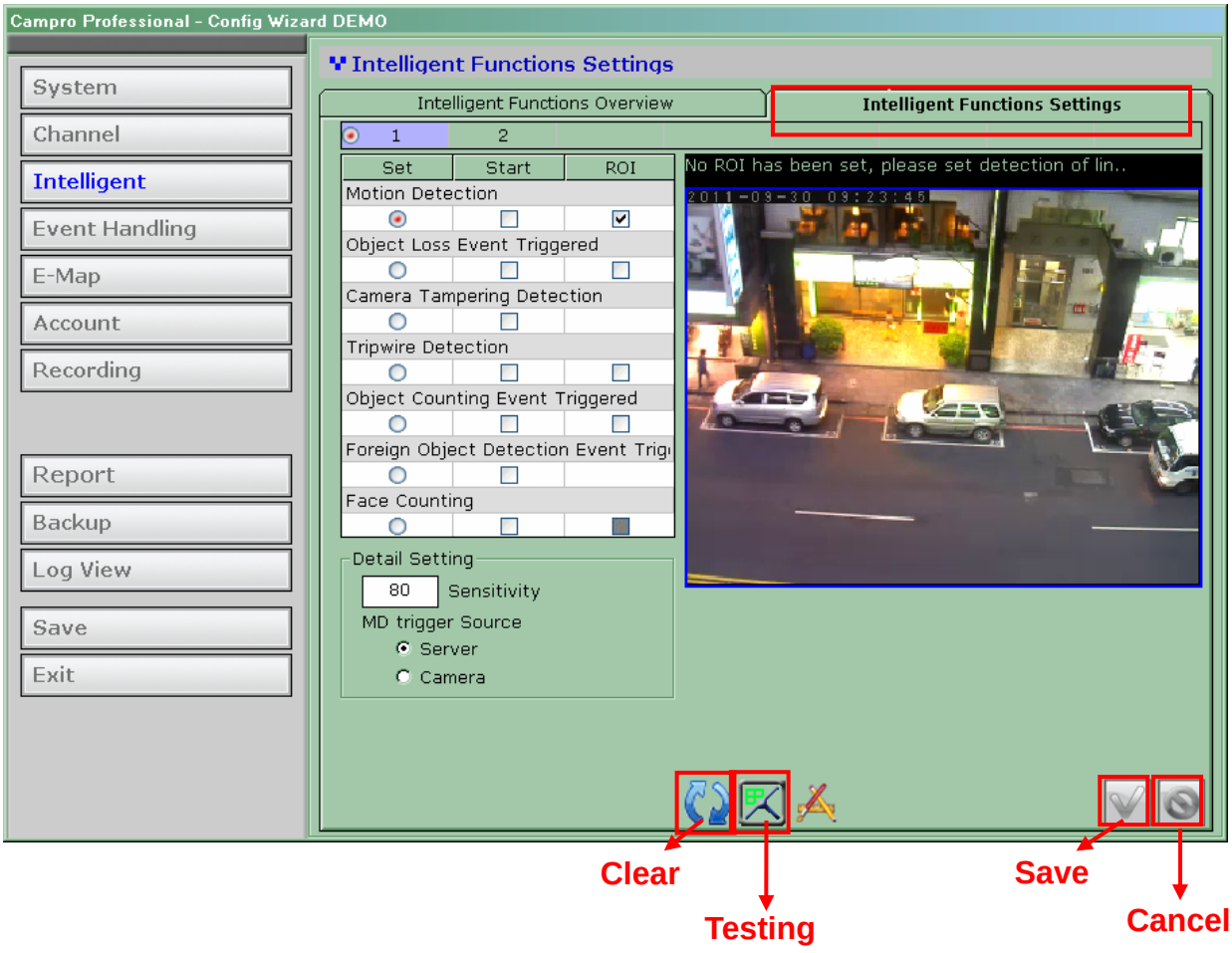
Only the channels that have been configured with cameras (regardless if they are online or not) would have the “X” or O” mark.

X: Disabled **O**: Enabled

Intelligent Function List:

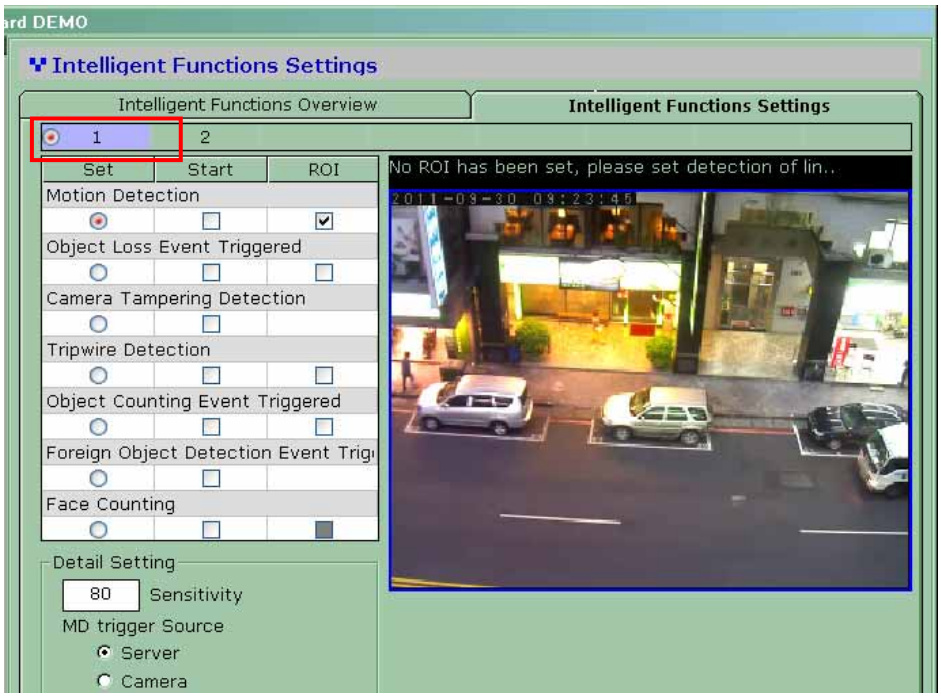


To configure the detail settings of each intelligent function, click on the “Intelligent Setting” tab to access the detail configurations:

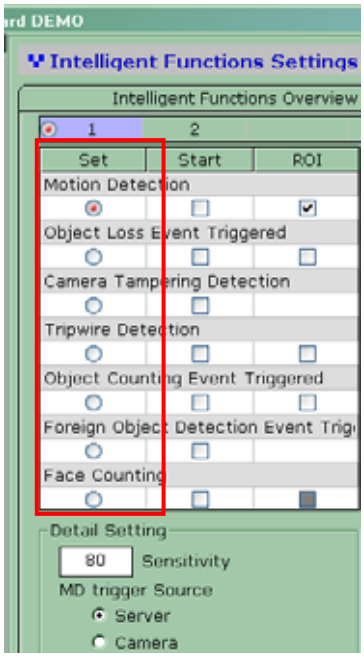


4.2 Motion Detection

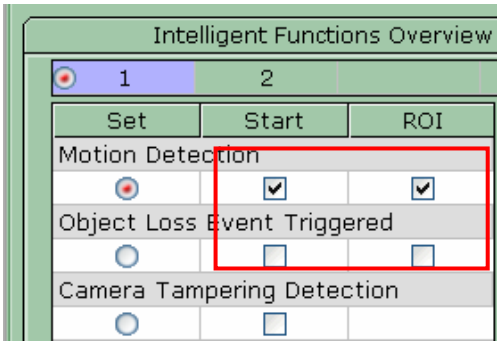
To start configuring the Motion Detection settings, select a channel first, and its video should be displayed in the lower-right hand corner:



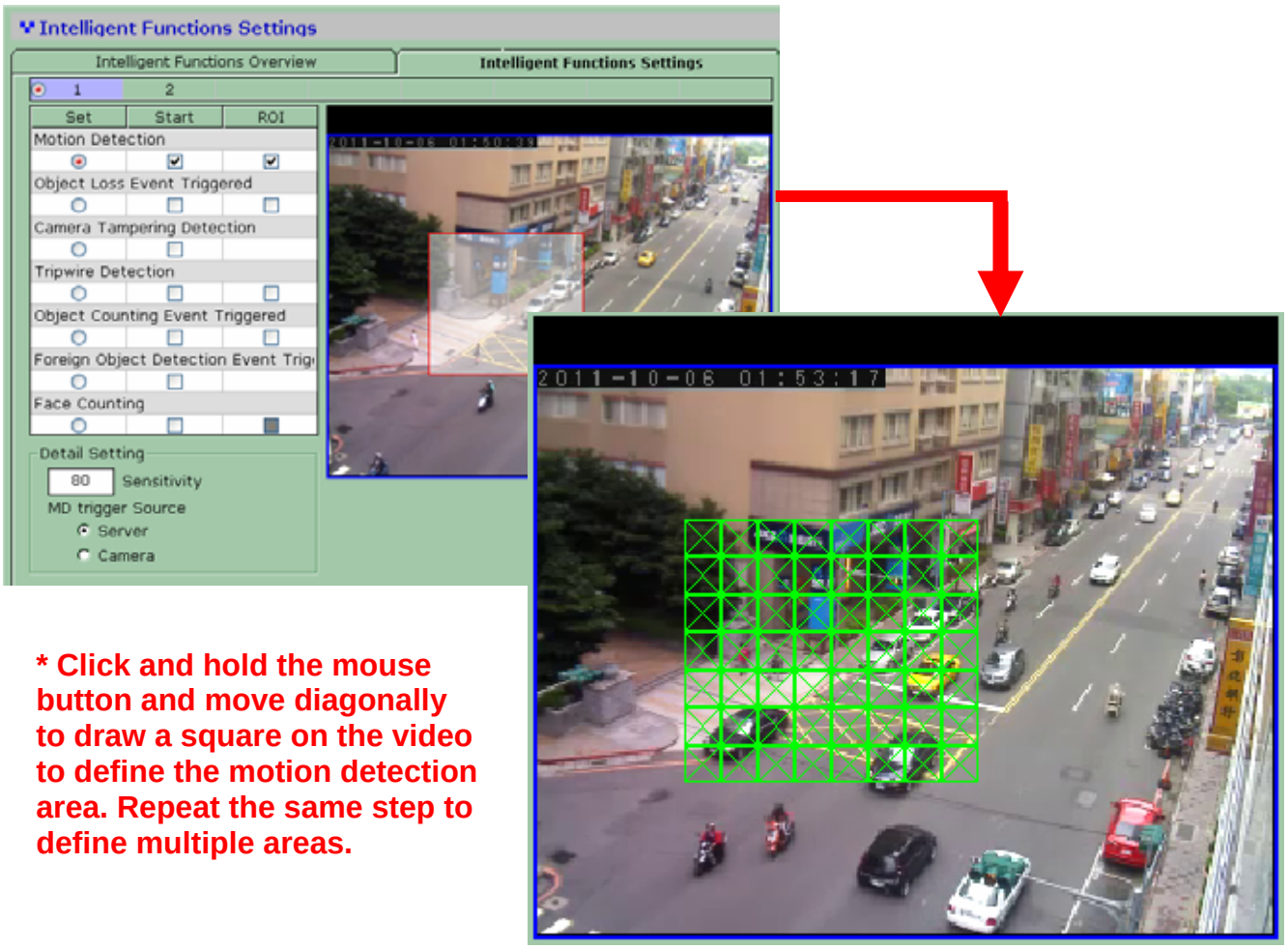
Next, click on an intelligent function you wish to configure from the list:



Check “Start” and ROI”



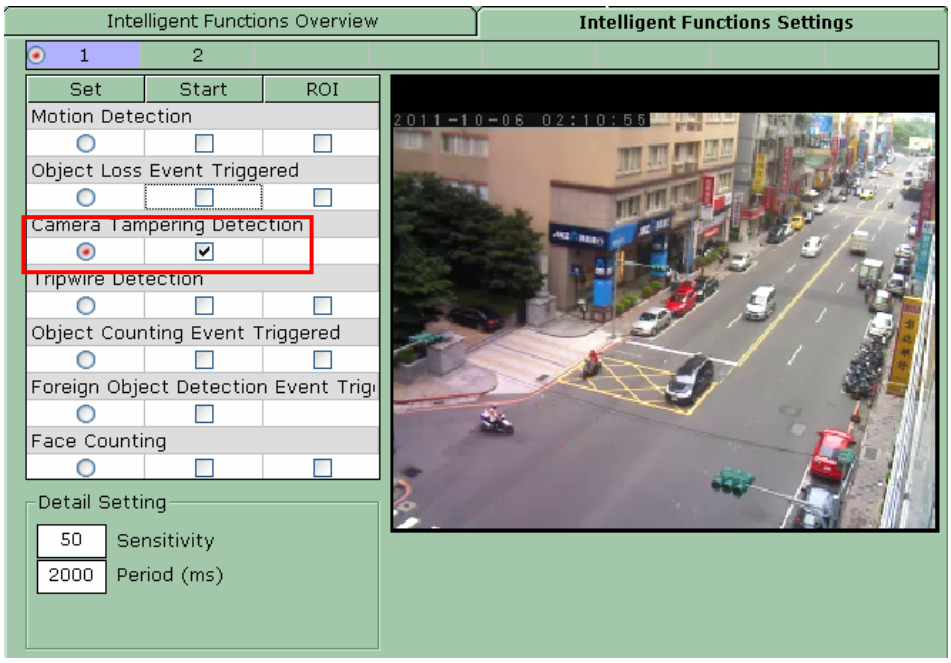
By that, take motion detection as an example, it means that the motion area that you set on the video will be highlighted: (as shown below)



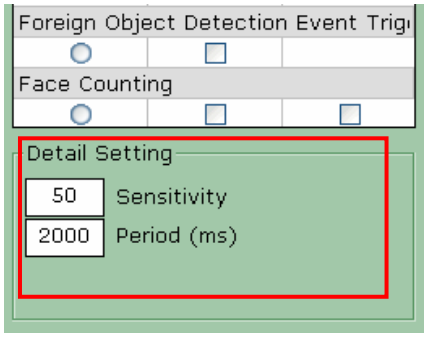
*** Click and hold the mouse button and move diagonally to draw a square on the video to define the motion detection area. Repeat the same step to define multiple areas.**

4.3 Tampering Detection

For tamper detection, simply enable the function in the configuration wizard.



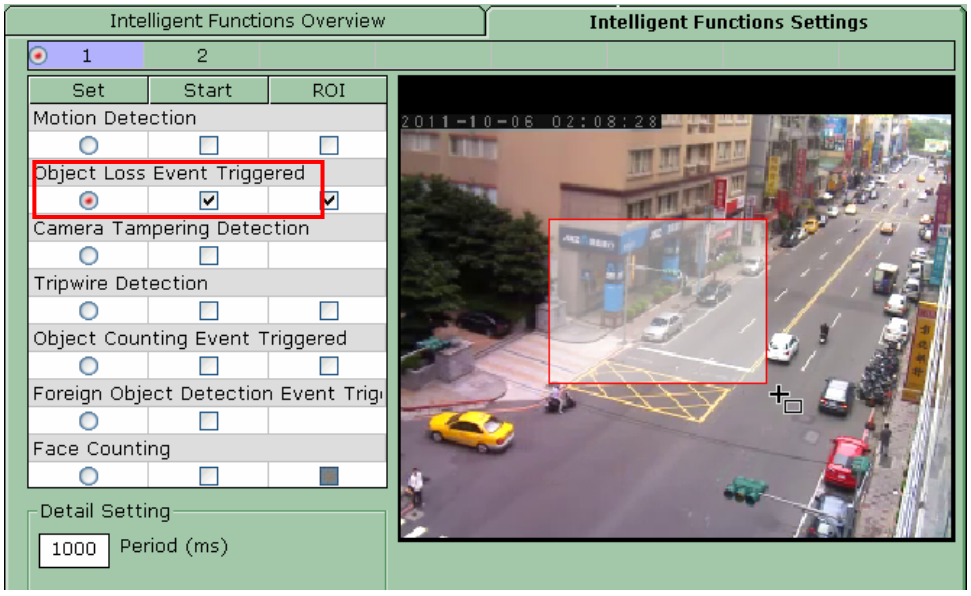
You can define the detection sensitivity by entering a number between 0 ~ 999 in the “Sensitivity” field, and the detection interval by entering a number between 0 ~ 9999 in the “Period (ms) field:



4.4 Object Loss Detection

This function provides an alarm when an item is removed from its last location. Detection can be defined to immediately alarm when an object is removed/stolen.

To configure “Object Loss”, click on it from the list on the left first and make sure “Start” is checked. Follow the same step desired in the previous page to define an area (or select an object) in the video for object loss detection:



Click the button to apply settings of the current page or the button to clear the previously defined area and start over.

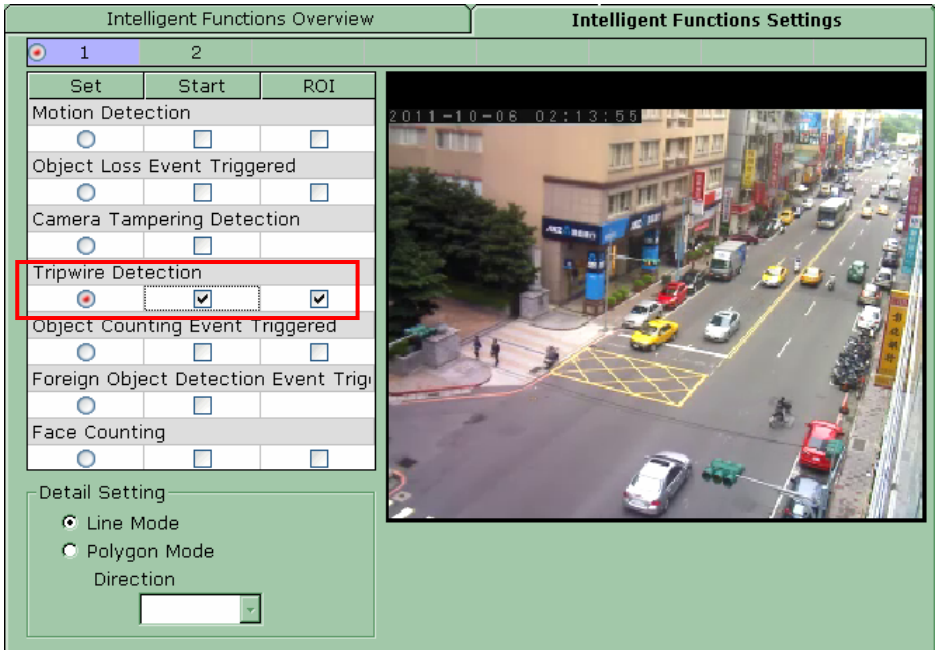
Next, define the detection interval by entering a number between 0 ~ 999999 in the “Period (ms)” field:

4.5 Tripwire Detection

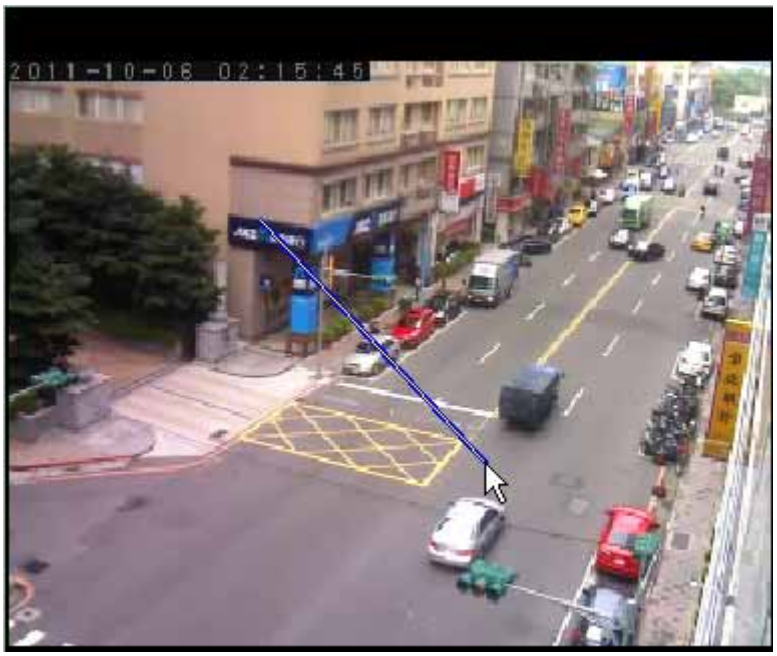
This function provides an alarm when a person or vehicle breaches a demarcation line of separation. Detection can be configured to prohibit any crossover or to allow movement in a single direction.

Tripwire detection ignores movement in parallel to specified lines and only alerts if the lines are crossed.

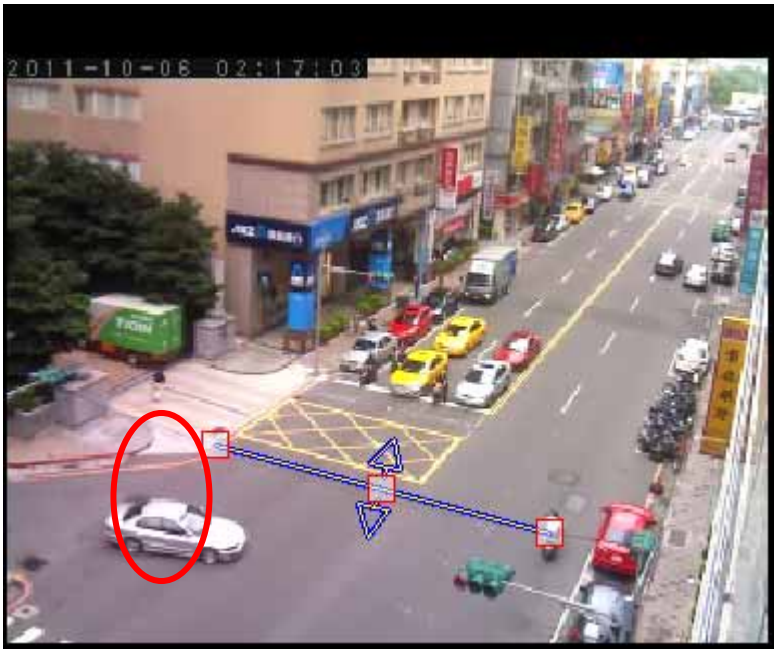
The tripwire feature allows the definition of more than one line per scene and multiple segments per single line.



To define a line of separation, click and hold the mouse button and drag the mouse to a desired direction to draw a line on the video:

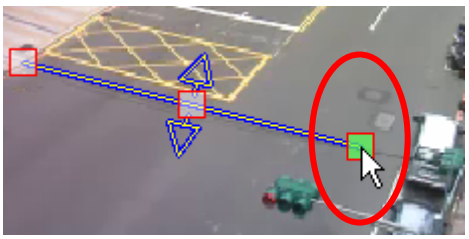


Next, define the detection direction. To do so, hover the mouse cursor to the gray cell box in the middle of the line:



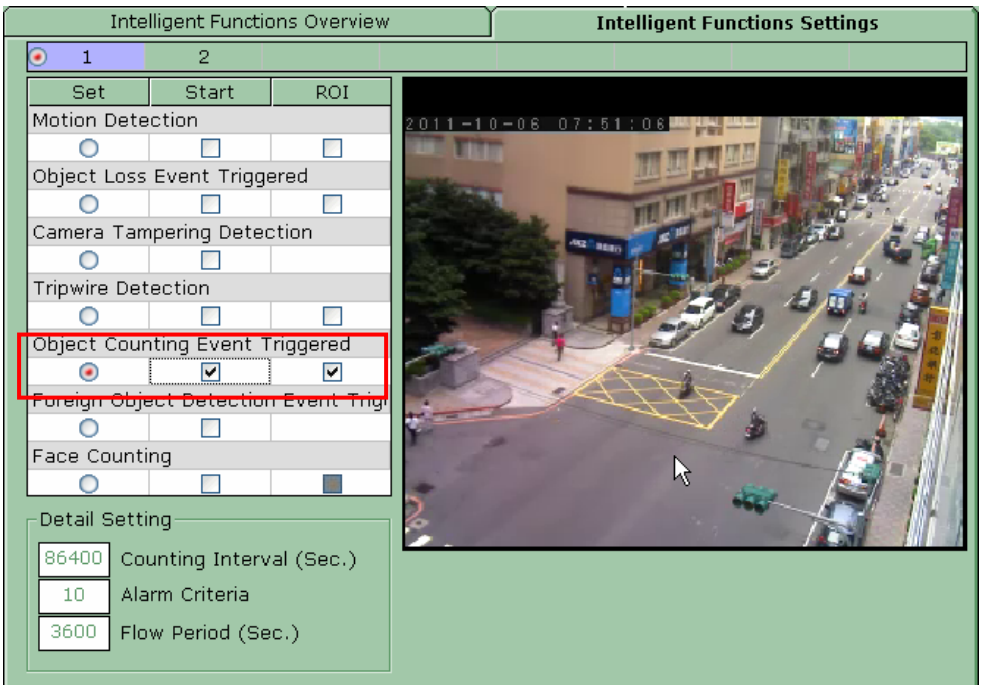
Click on the cell box to change detection to one direction only. Continue doing so will change detection to the other direction. Click it again to change back to bi- directional detection.

To re-arrange the location of the line, hover the mouse to the tip end of the line (like shown below). Once you see the cell box turns green, hold down the mouse left button and drag it to a new location. Do the same to the other tip end to completely re-arrange the line's location:



4.6 Object Counting

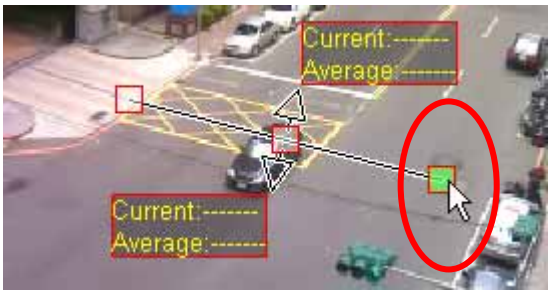
Object counting works similar to the tripwire function except it adds the calculation function to the object that is crossing the line. The detection ignores movement in parallel to specified line and only alerts if the line is crossed. The detection allows the definition of only one line per scene.



To define a line of separation, click and hold the mouse button and drag the mouse to a desired direction to draw a line on the video:

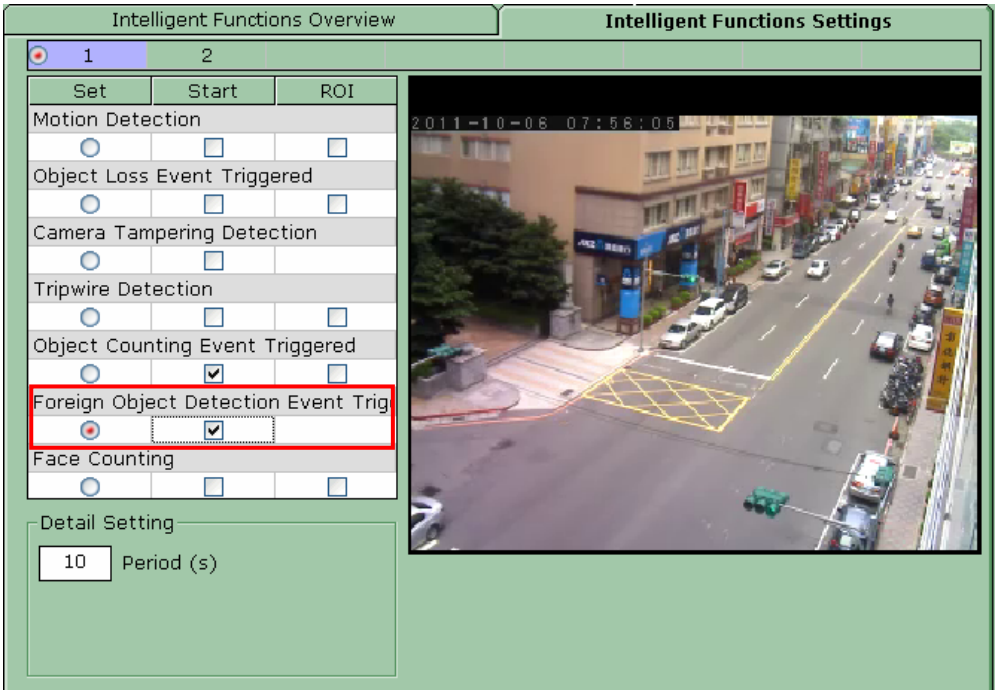
Next, define the detection direction. To do so, hover the mouse cursor to the gray cell box in the middle of the line:

To re-arrange the location of the line, hover the mouse to the tip end of the line (like shown below). Once you see the cell box turns green, hold down the mouse left button and drag it to a new location. Do the same to the other tip end to completely re-arrange the line's location:

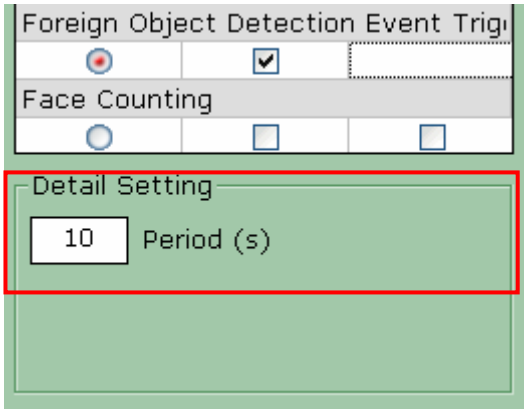


4.7 Foreign Object Detection

It's a function similar to loitering where software continuously detects the act of remaining in a particular public place for a protracted time. Once the function is set to enable, it detect the whole region in the scene.

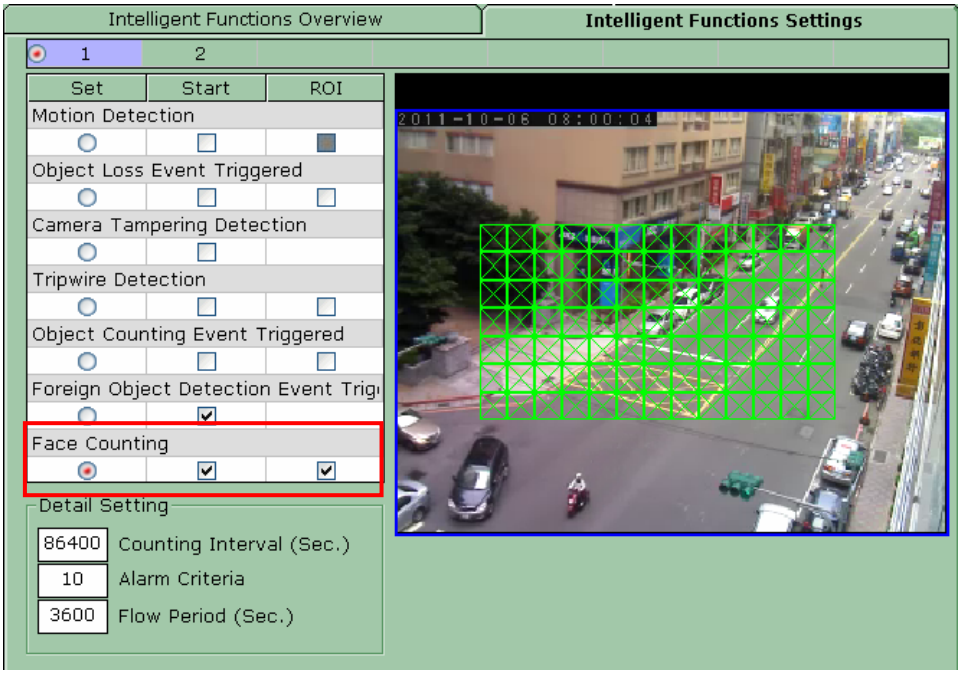


Next, define the detection interval by entering a number between 0 ~ 99999 in the “Period (ms)” field:



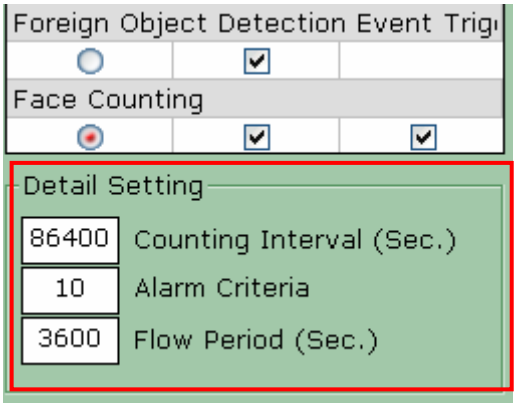
4.8 Face Detection

To configure this function, define a detection zone in the scene by clicking and holding the mouse then move diagonally on the video



Alarm criteria is the number of counts during the counting interval will be treated as one event trigger.

Flow Period: The software outputs count (the “AVG” value) on the live video during the “Flow Period”; if it’s 3600 seconds, the software calculates how many counts during the last 3600 seconds.



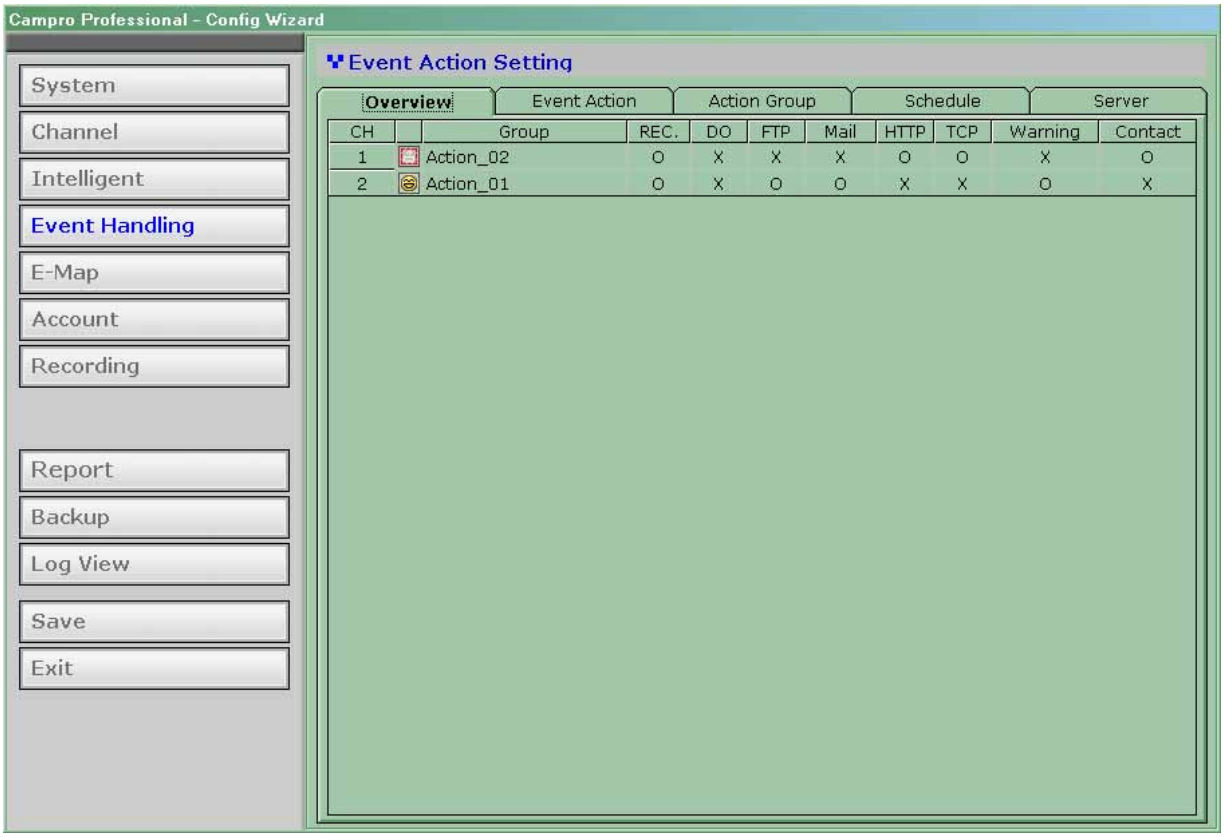
Switch to live view in the monitor program and once a face is detected, it will be highlighted with a green rectangle like shown below. And the counting statistic is displayed in the lower-right hand corner on the video.

5 Event Handling

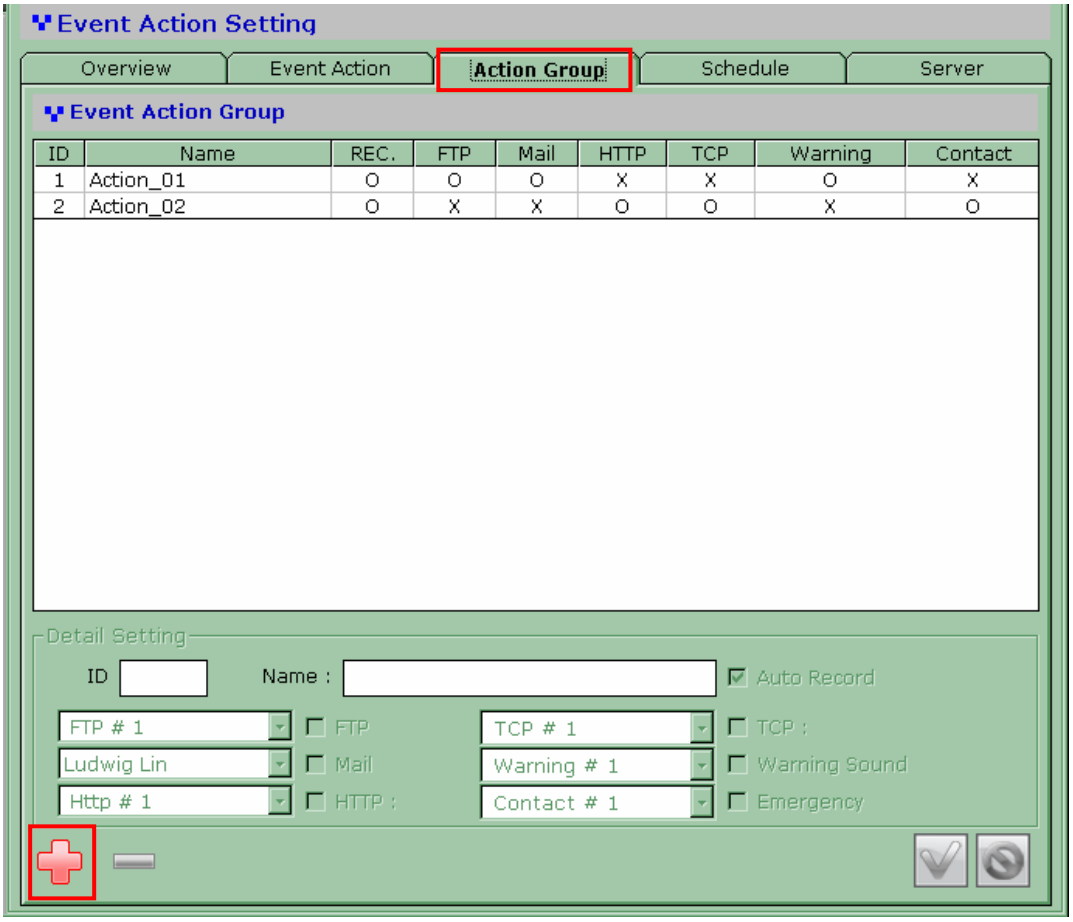
5.1 Overview

The software can receive different types of events and respond to certain actions such as performing recording, send warnings to various event servers or FTP an event image...etc.

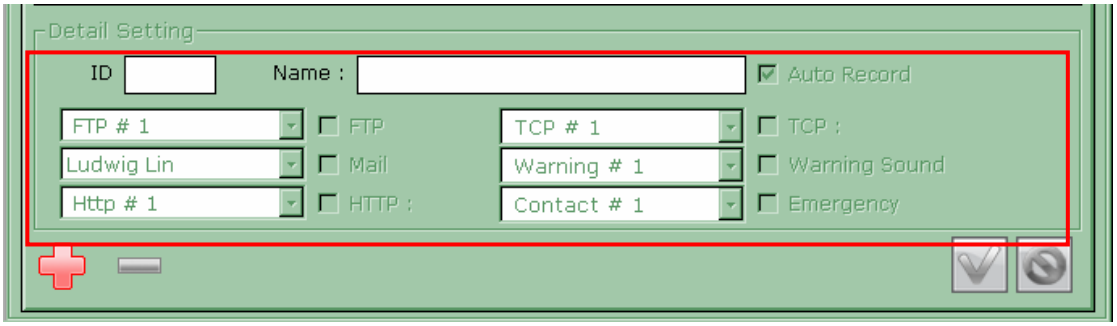
Users can also create an “action group” and apply it to a certain type of event on a particular channel.



To create an event action group, go to the “Action Group” tab and click the “+” button to begin:



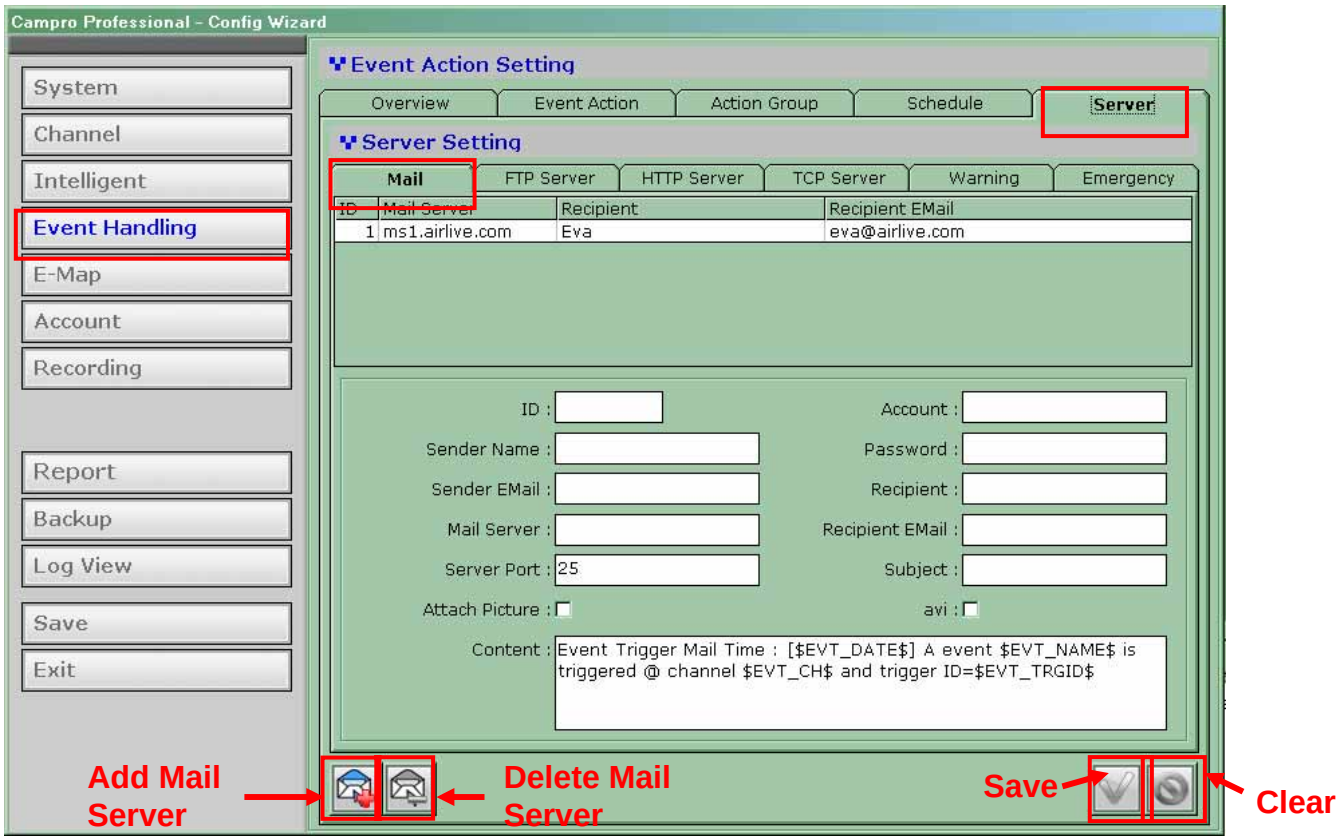
Noticing a new event action group has been added but the “Detail Setting” section is not available for configuration yet:



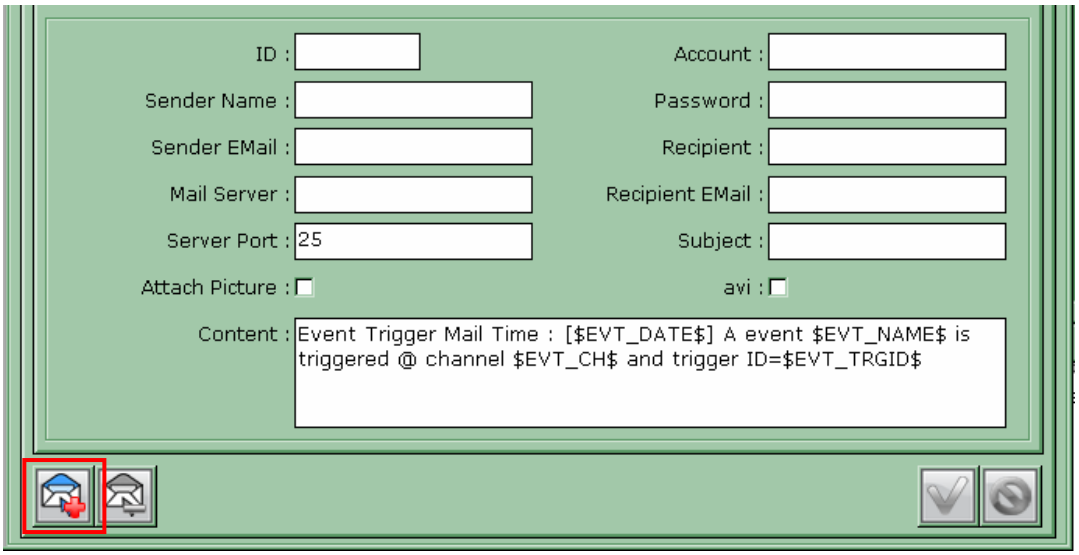
By default, all the event servers are grayed out as none has been added to the software yet. Settings of these event servers will be described below.

5.2 Mail server

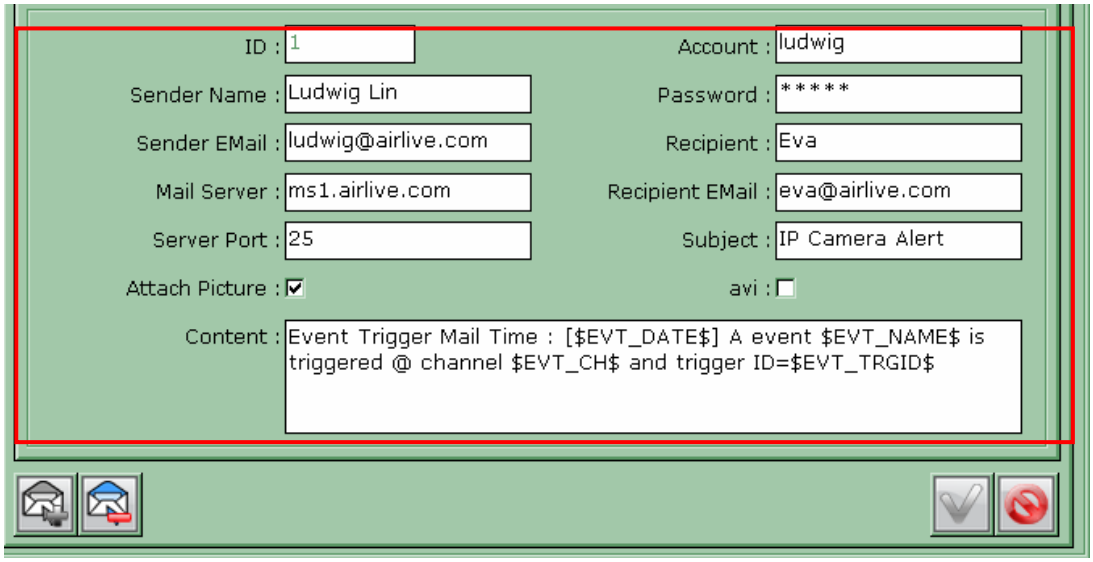
Mail servers are used to send warning emails with pre-defined text content to designated recipient when events are triggered.



To add a new mail server, click on the “Add” button at the bottom:



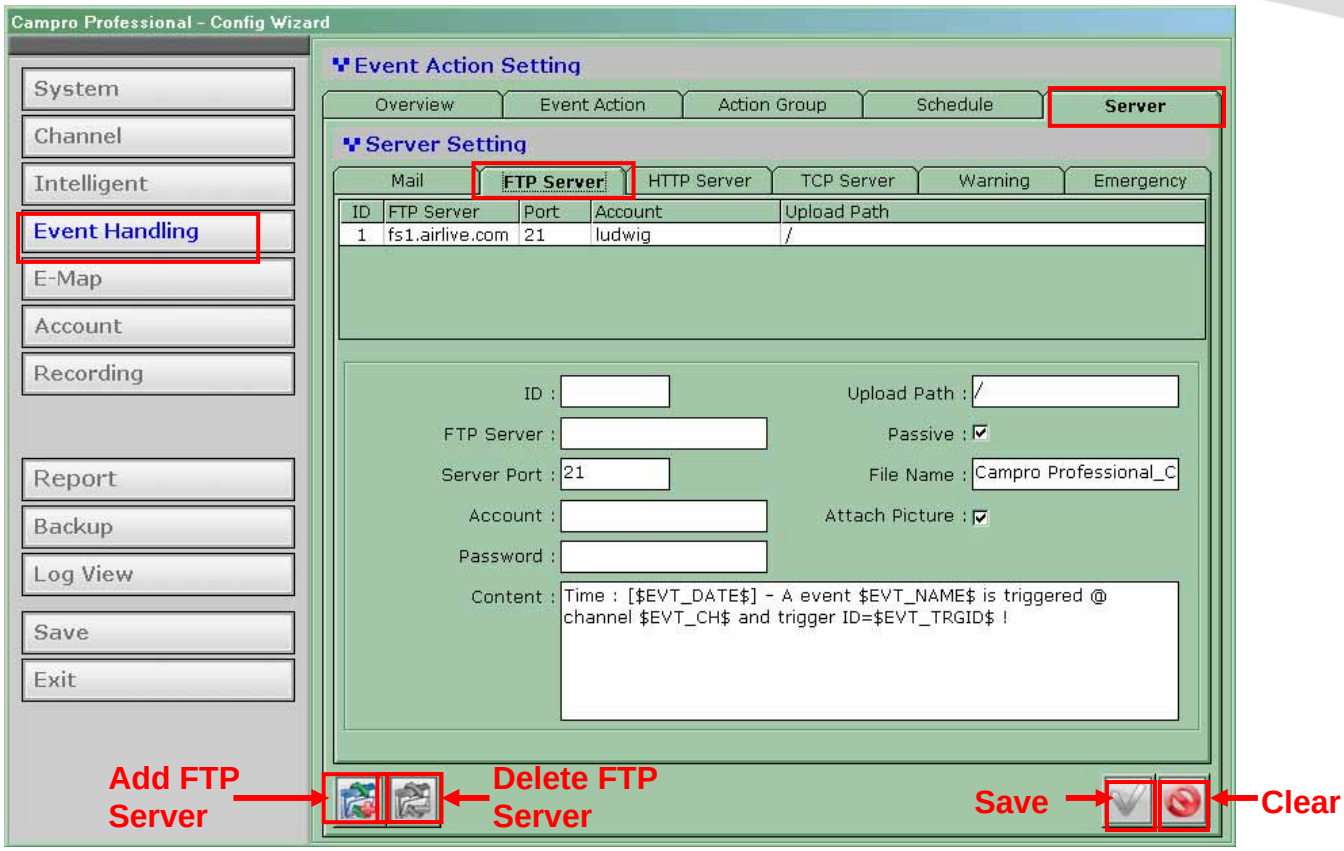
Next, fill in the empty fields as below:



Note: Enter a valid public IP address or FQDN (Fully Qualified Domain Name) in the “Mail Server” field

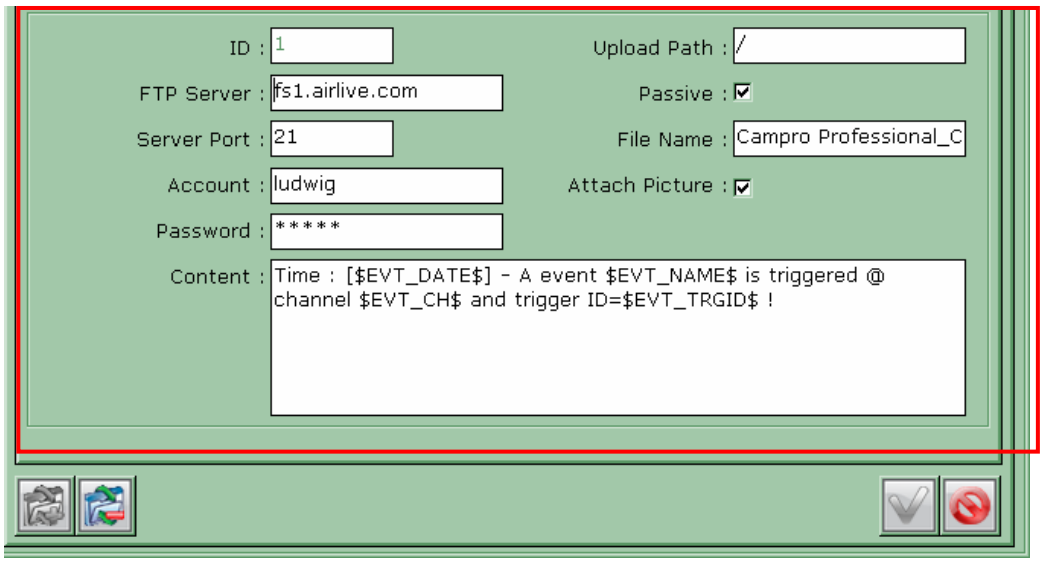
5.3 FTP Server

FTP servers are used to send warning with pre-defined text content or camera snapshot to designated FTP servers when events are triggered.



Click “Add” button at the bottom to add a new FTP server:

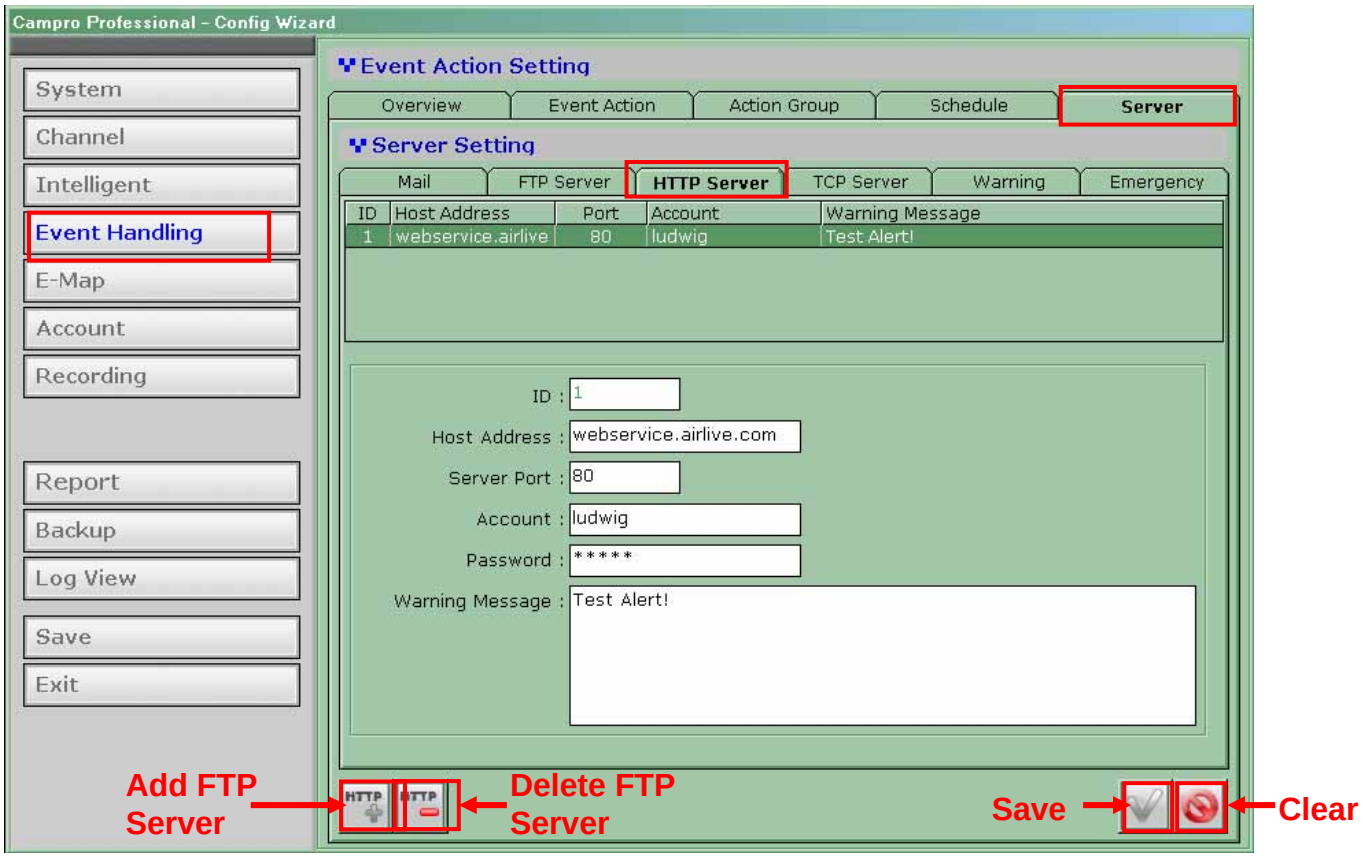
Fill in the empty fields as illustrated below:



Note: By default, the software uploads files to the top-level directory of the FTP server. Enter the folder name after the "\" in the "Upload Path" field if you would like to software to upload to a specific folder.

5.4 HTTP Server

HTTP servers are used to send warning with pre-defined text content or camera snapshot to designated HTTP servers when events are triggered.

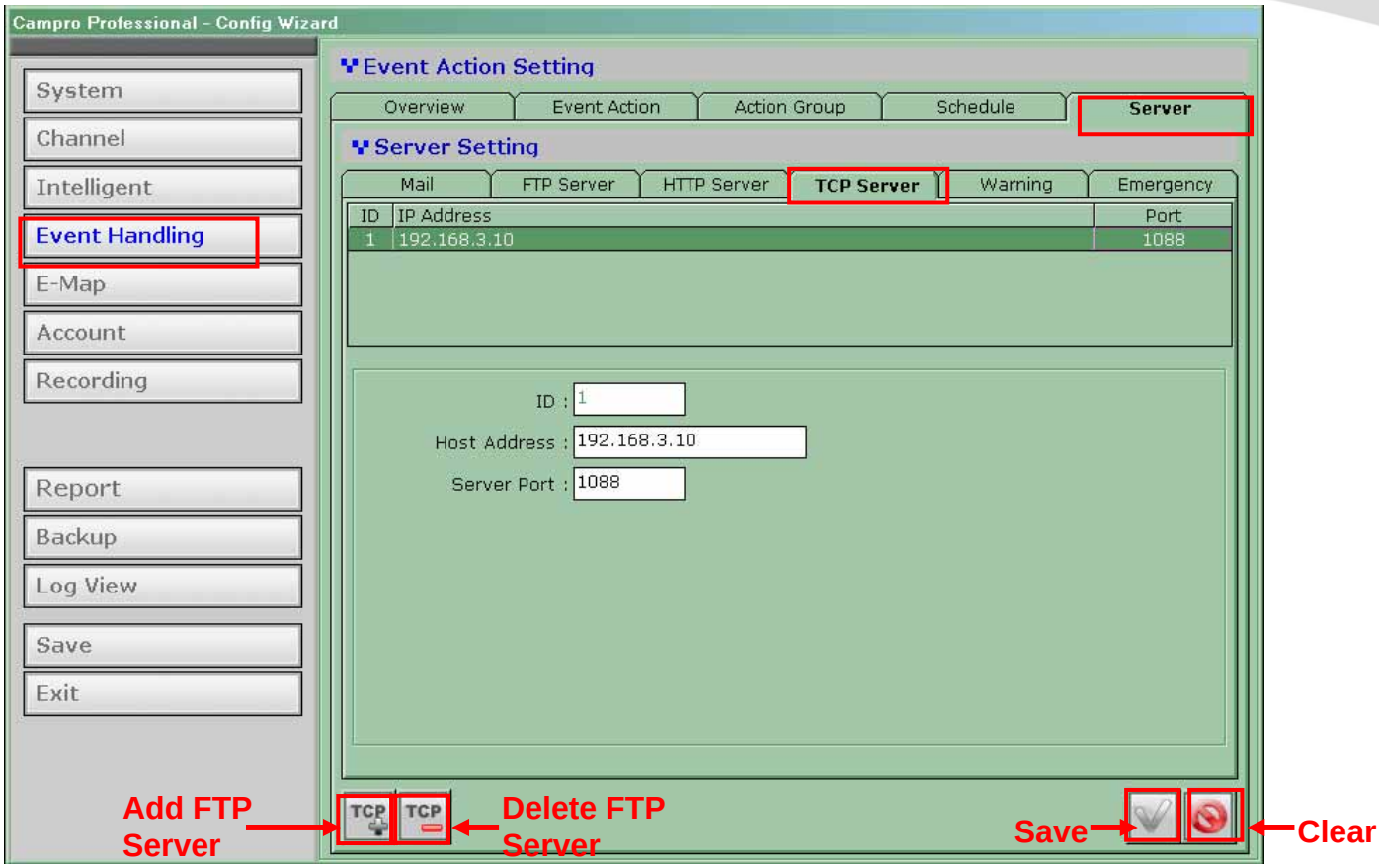


Click "Add" button at the bottom to add a new HTTP server:

Fill in the empty fields as illustrated below:

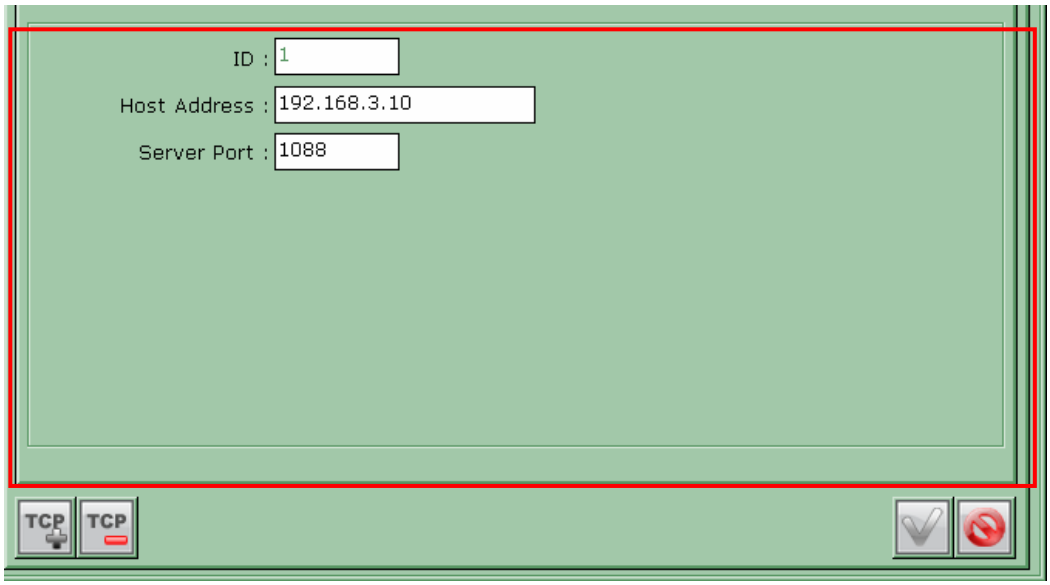
5.5 TCP Server

TCP servers are used to send warning with pre-defined text content to designated TCP servers when events are triggered.



Click “Add” button at the bottom to add a new TCP server:

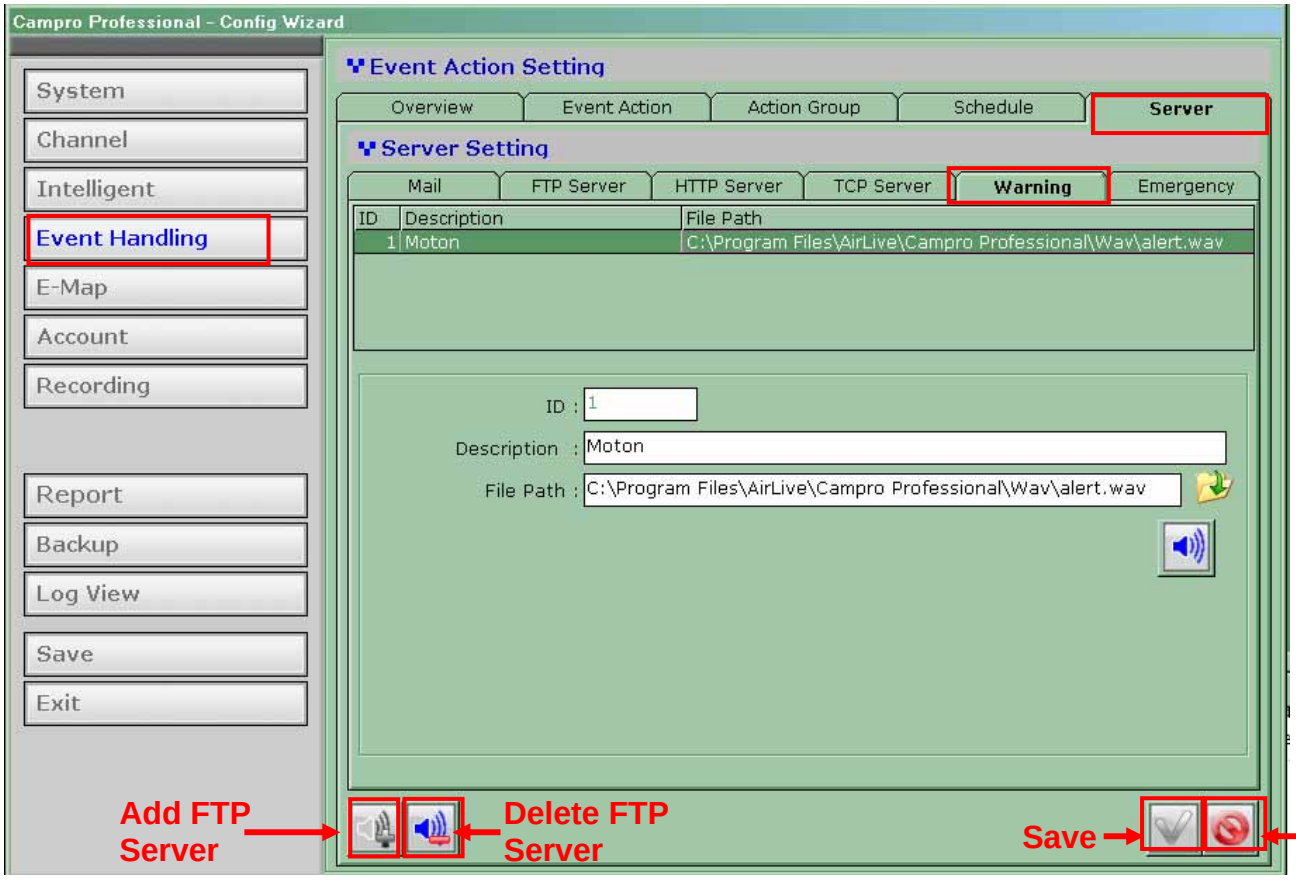
Fill in the empty fields as illustrated below:



Note: Enter a valid public IP address in the “Host Address” field

5.6 Warning Sound

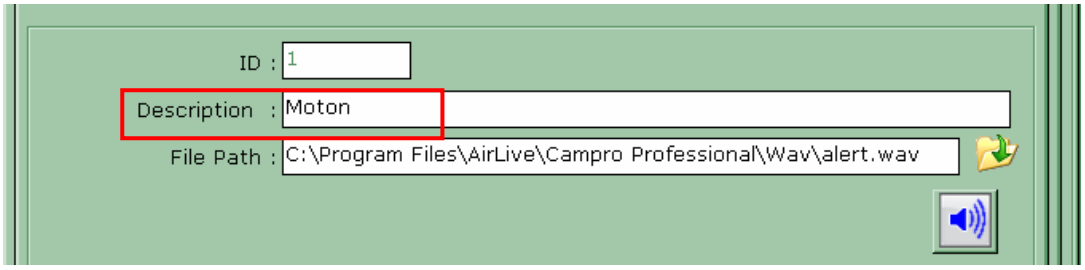
Users can set up sound files in the software and have the software play them when events are triggered. Different warning sounds can be used for different types of triggered events.



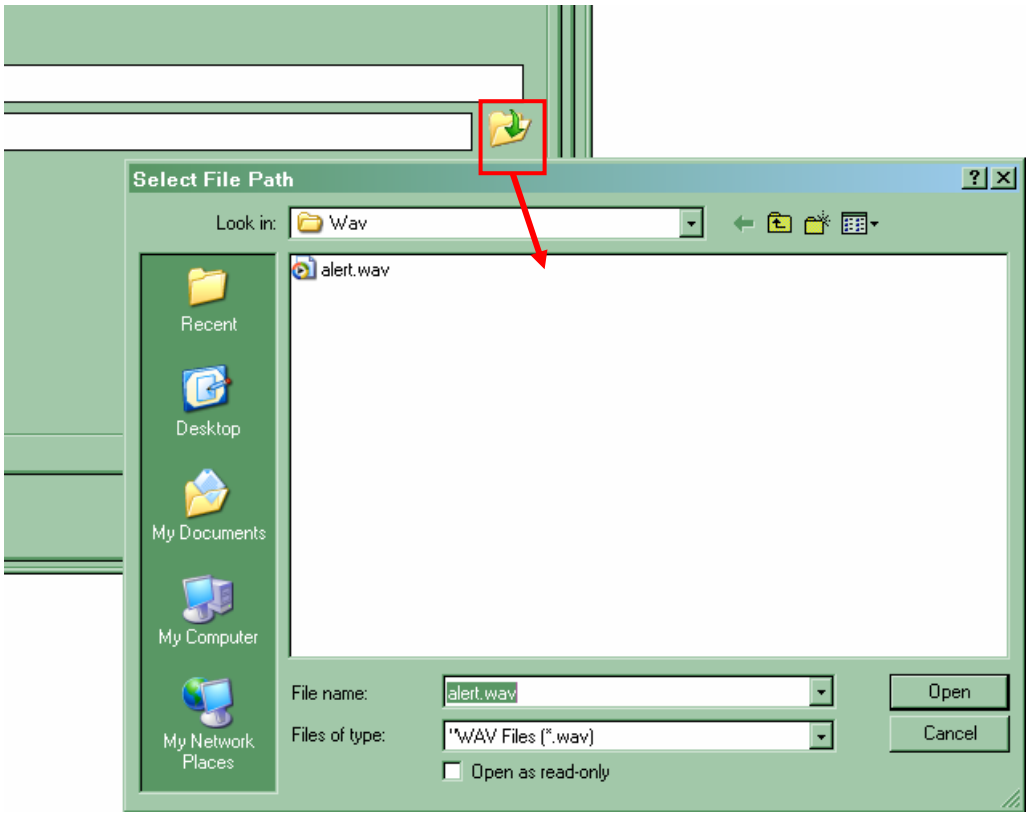
Note: Only .Wav file is supported

To Configure, click the “Add” button:

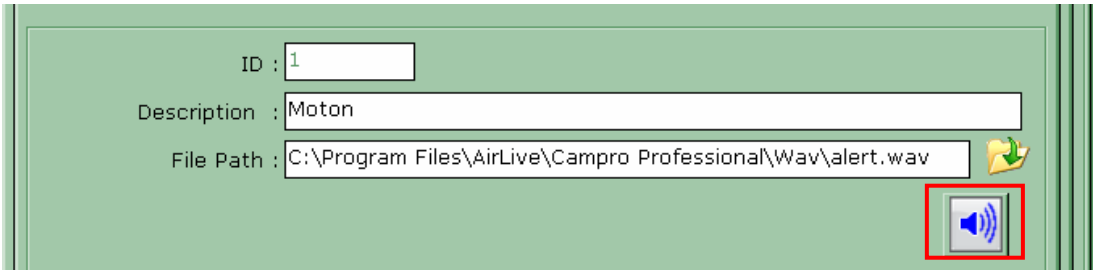
Put in a description for the warning sound in the “Description” field (as shown below):



Click on the “folder” icon to locate the sound file:

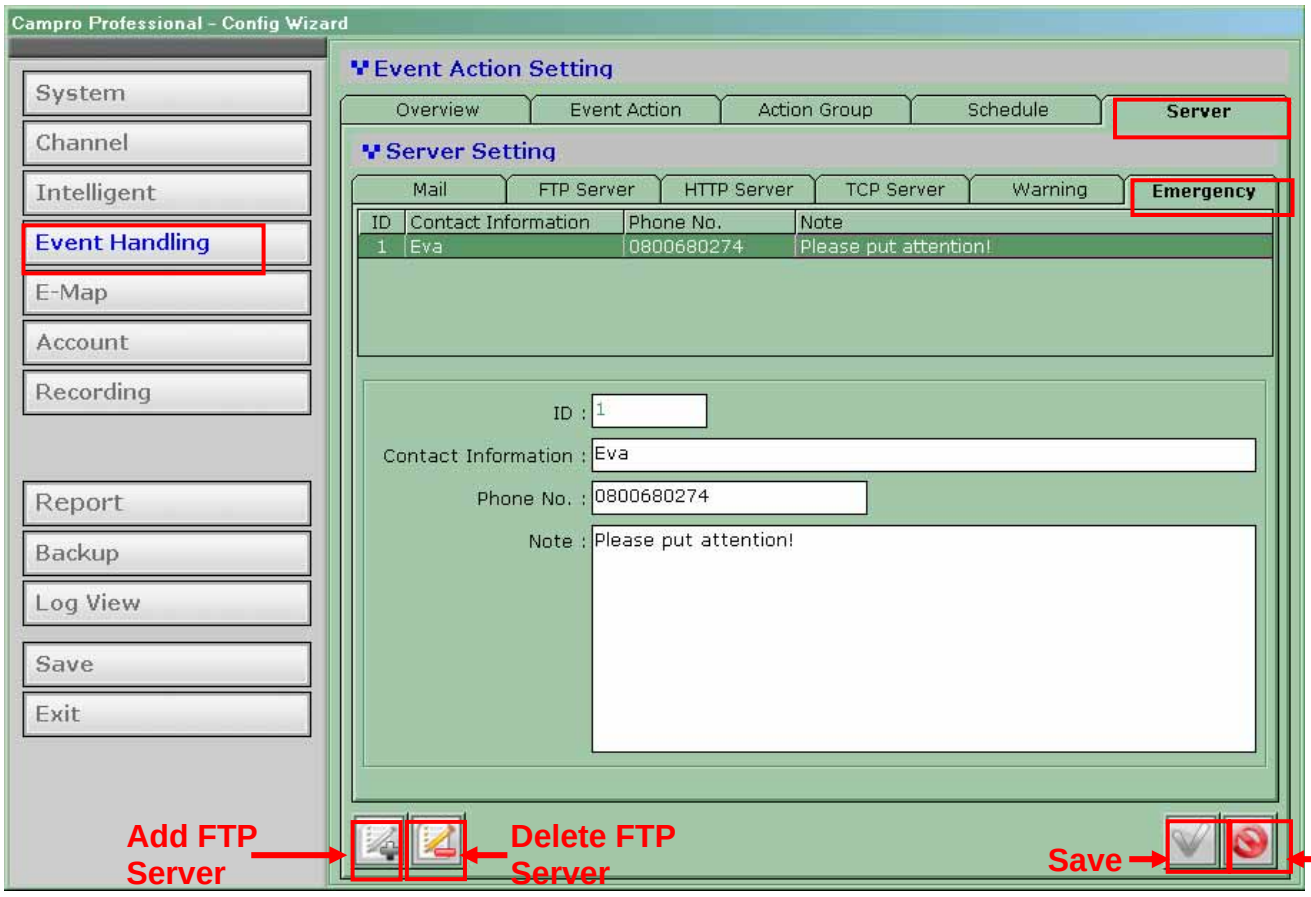


You can preview the sound before applying the new configuration by clicking on the "Speaker" button:



5.7 Emergency

This allows users to create emergency contact information.

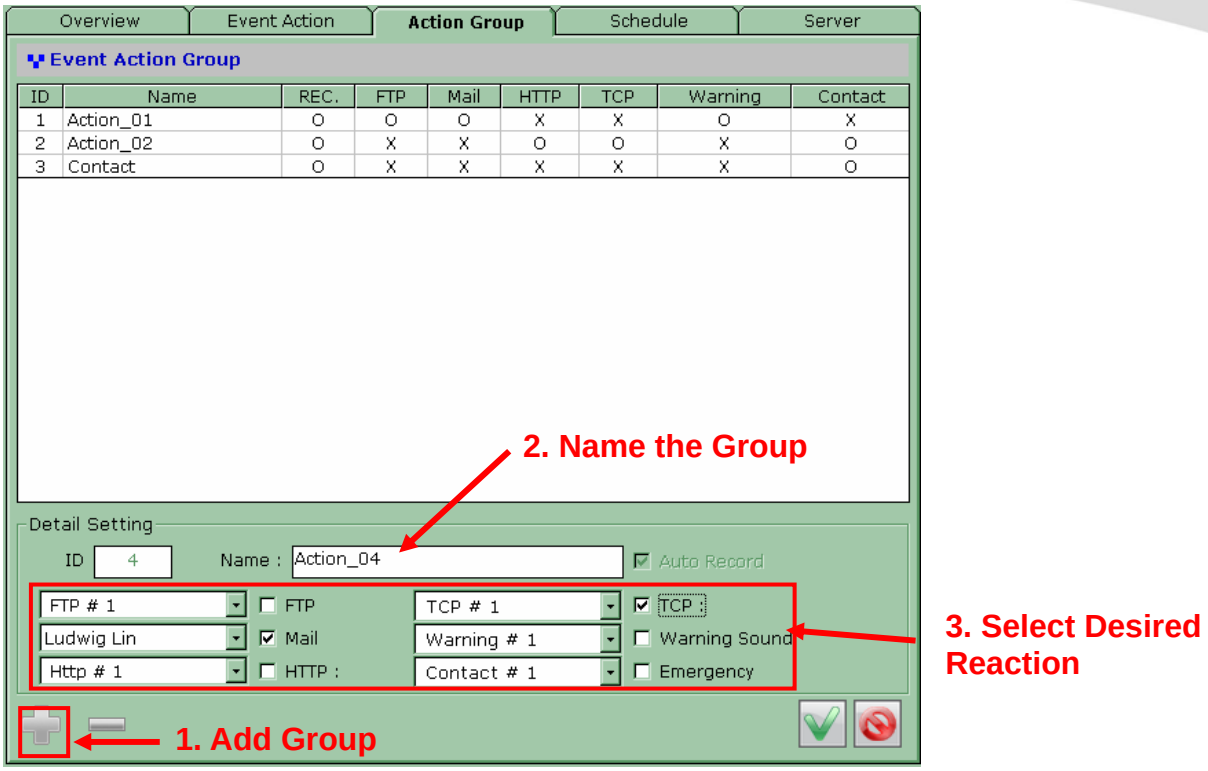


To add information, click “Add” button:

Fill in the empty field with desired information:

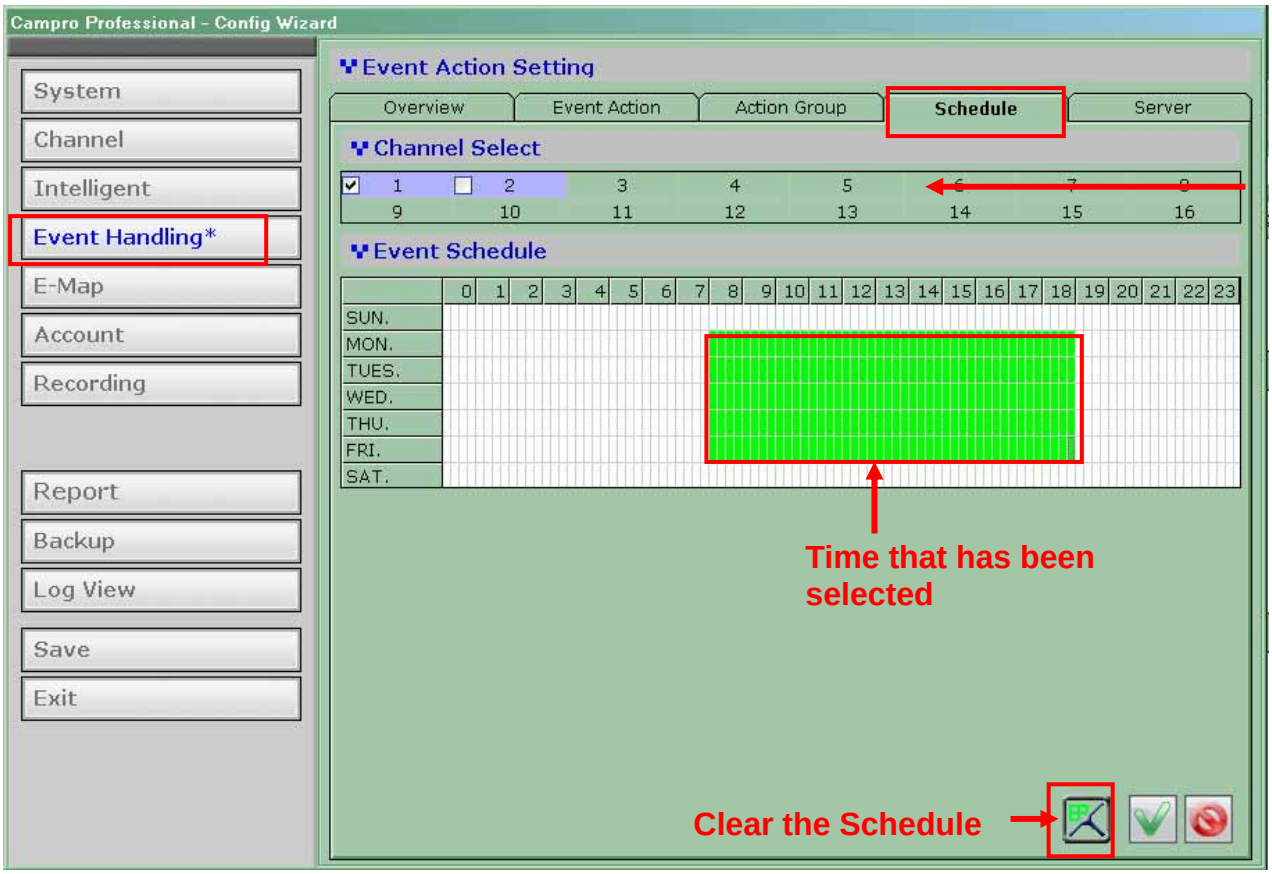
5.8 Action Group

Once you have all the event servers configured, you can go back to the “Action Group” tab and finish the “Detail Setting” section by selecting the desired event servers for a particular event action group:

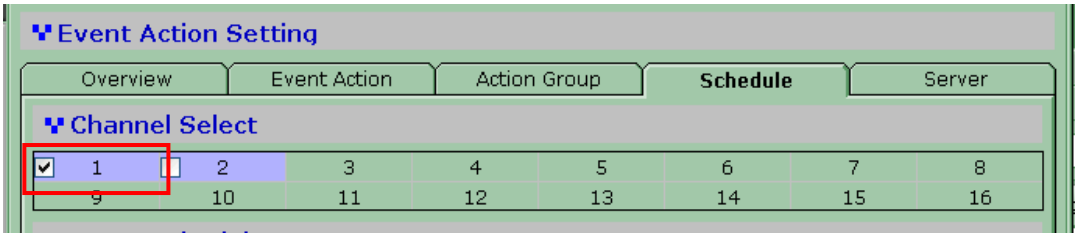


5.9 Event Schedule

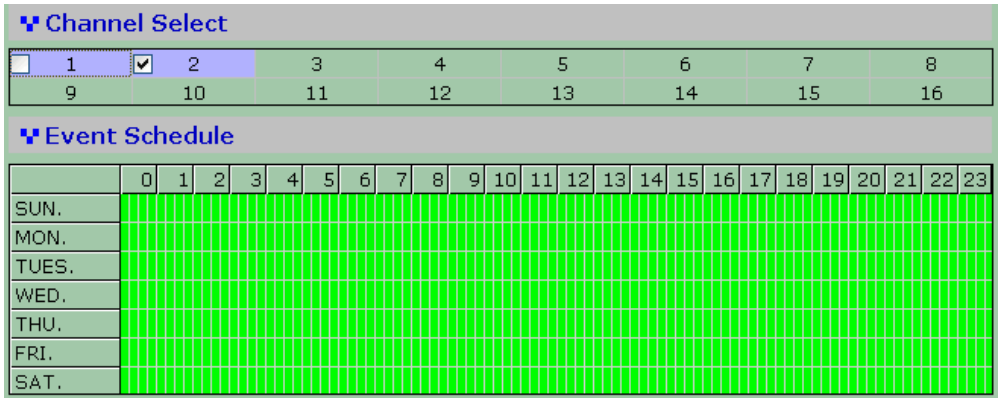
The software provides users the ability to set one schedule per channel and only events triggered during the defined schedule will be treated as events and the con- figured event actions will be triggered.



To configure an event schedule for a particular channel, select one from the top (only the ones available will a checkbox next to the channel number):

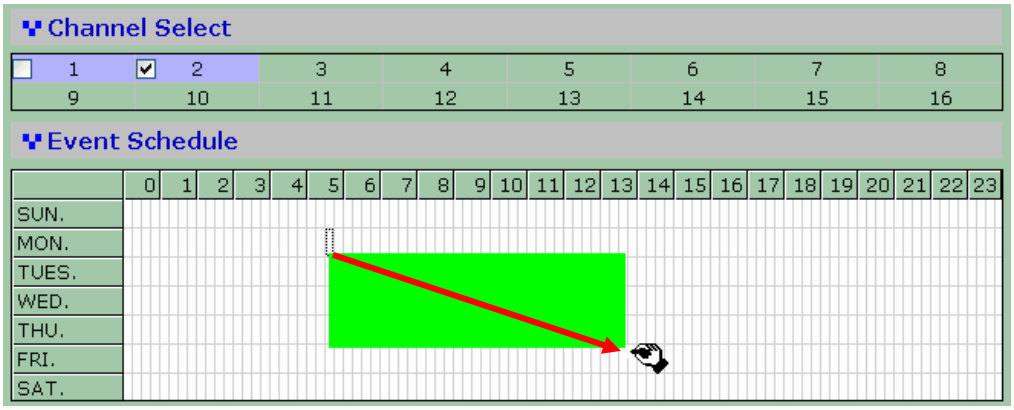


By default, the schedule is set in full:

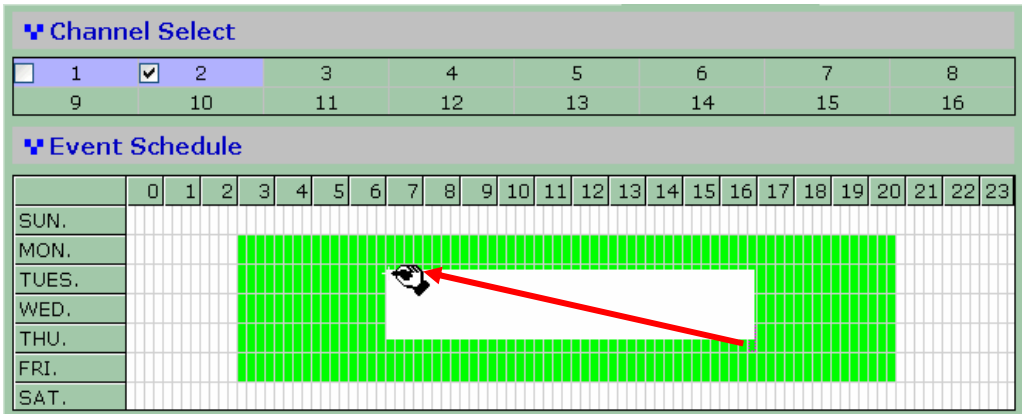


To quickly clear the default setting, click on the “Clear” button:

Click and hold the mouse then move the house cursor from left to right (horizontally or diagonally) to define (add) new hours or days for event trigger:



Click and hold the mouse then move it from right to left (horizontally or diagonally) will erase the previously added hours/days

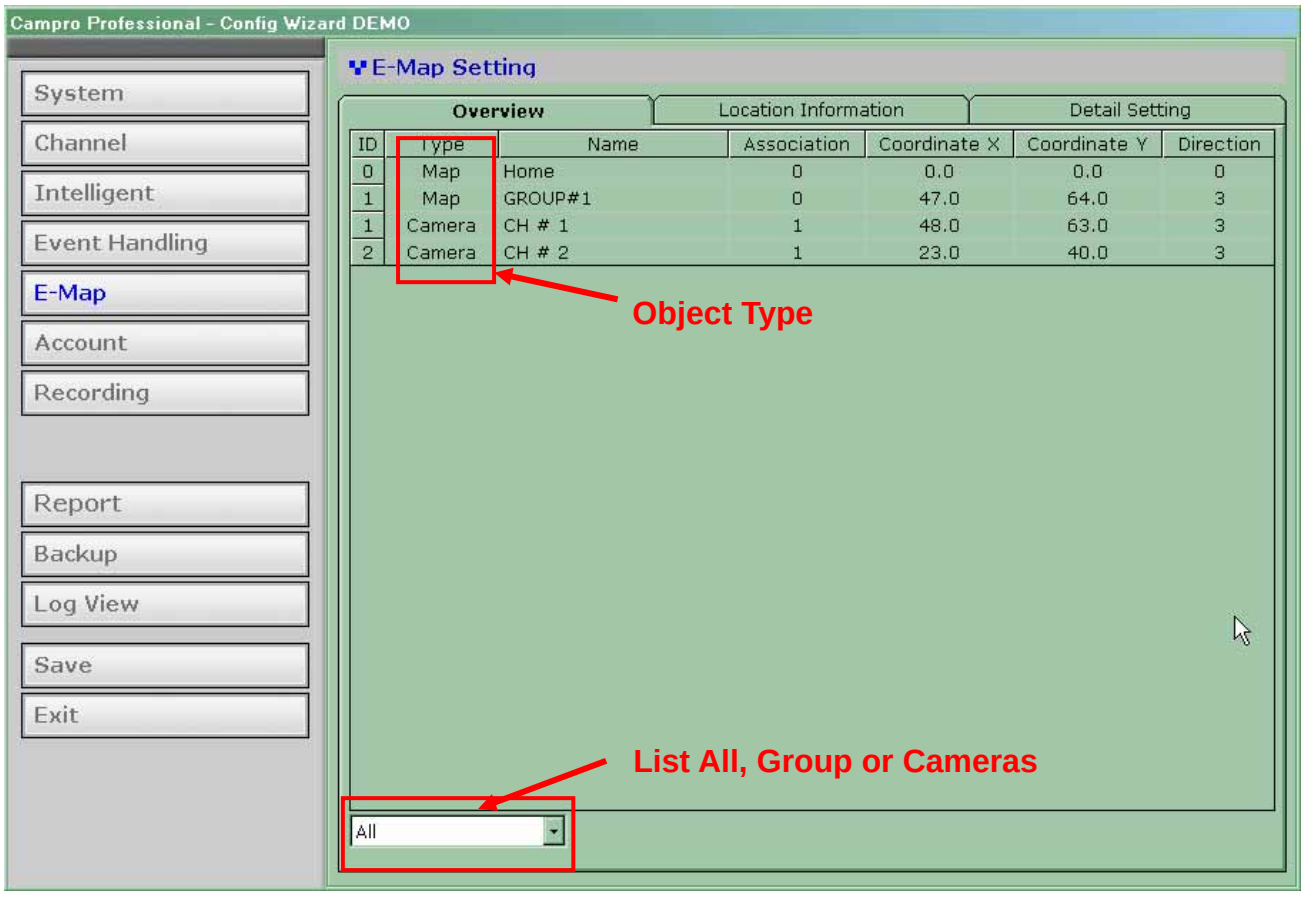


6 E-Map

6.1 Overview

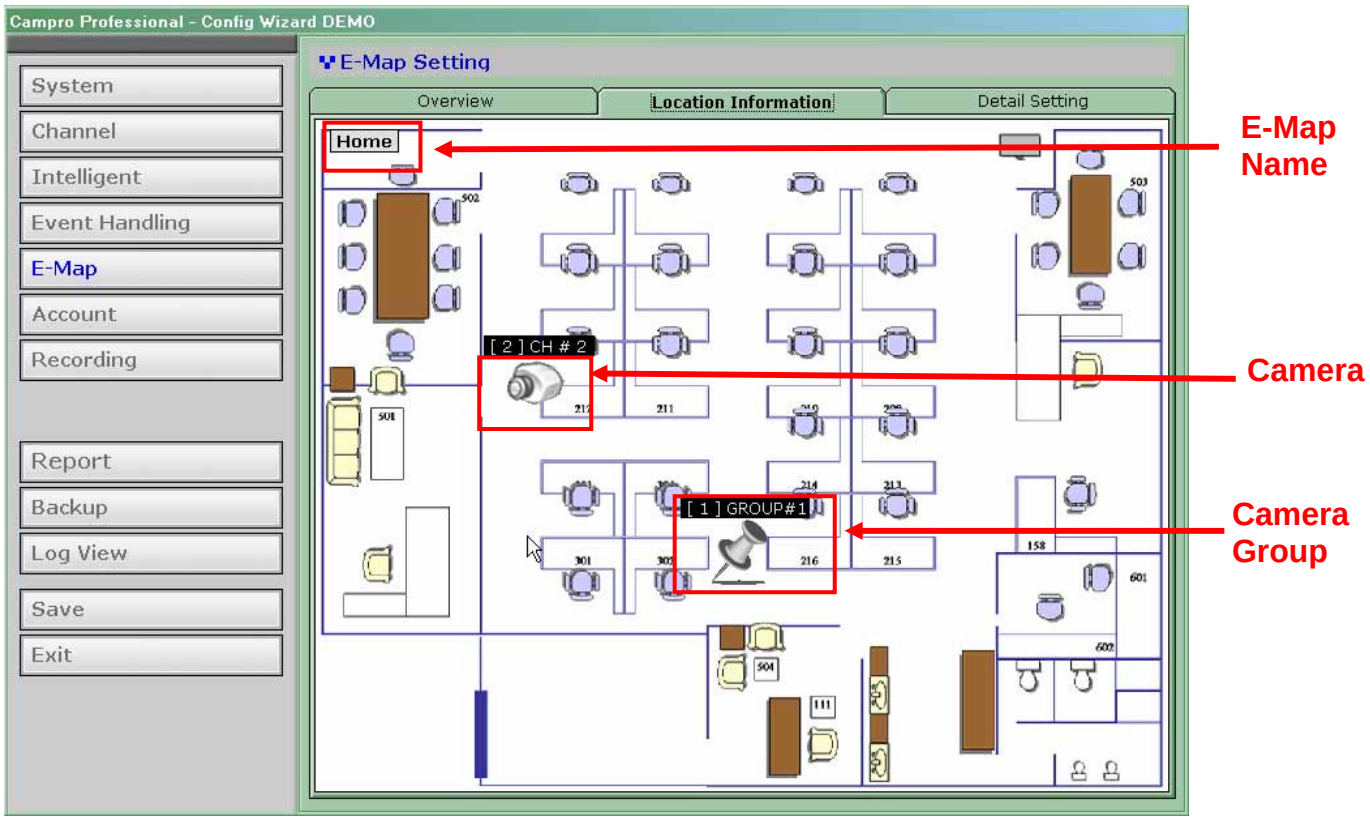
The software provides E-Map function in a multiple layered structure. Users can place cameras on one map and create a “group” that contains those cameras, and then place the camera “group” on a different map. Users can also create an additional group that contains multiple camera groups and place the new group onto a different map.

When accessing the “E-Map” configuration page in the wizard, you should be prompted with the “Overview” page first:

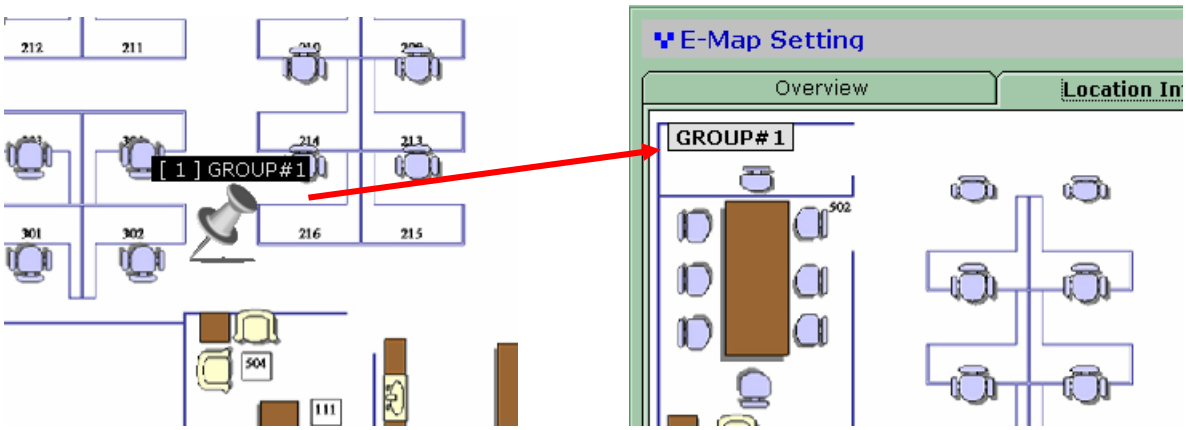


6.2 Location Setting

This page is an overview page based on the final E-Map settings. It displays all E-Maps and the positions of each camera (or camera group).



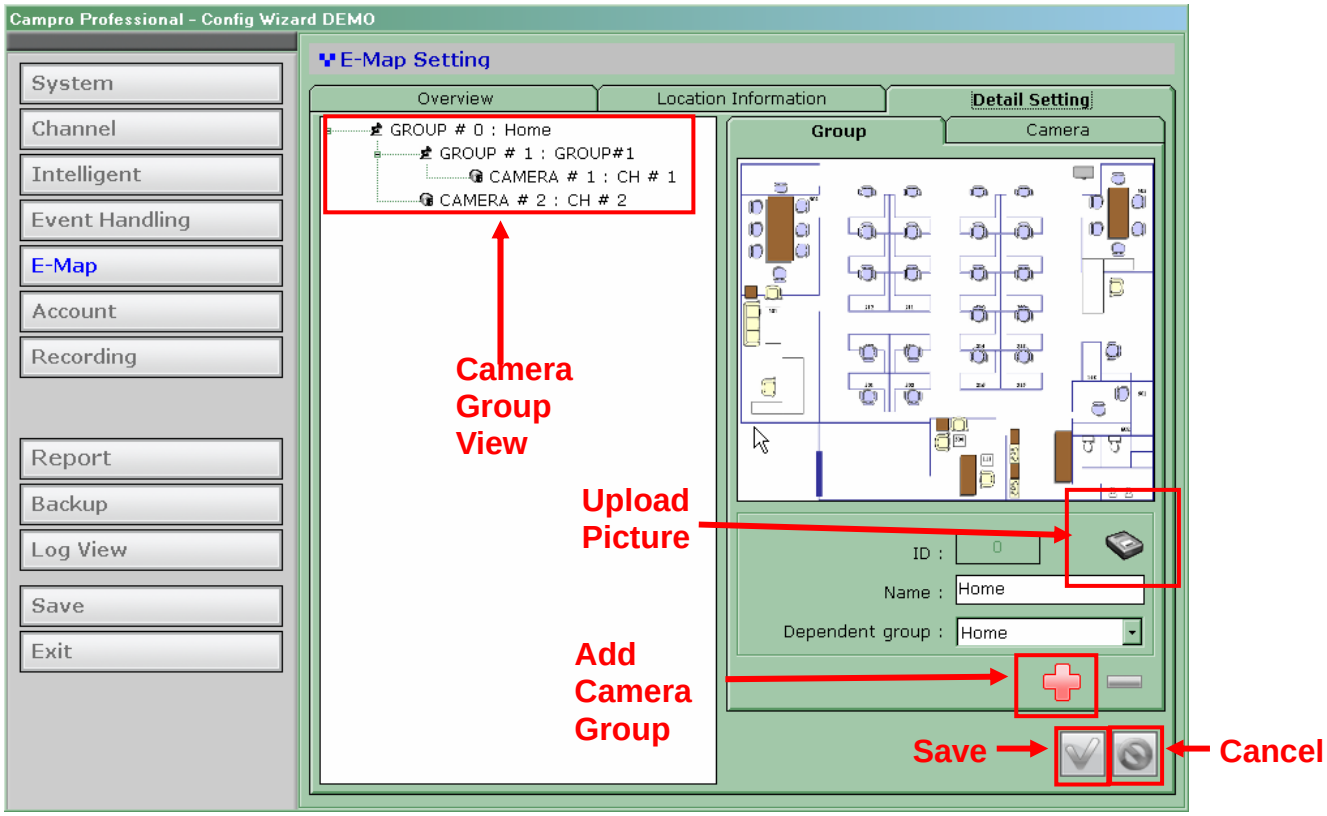
Double-click on a “camera group” (ex. Group 1) icon will direct you to the E-Map that represents camera group 1 and displays the positions of each camera (or cam- era group) in camera group 1.



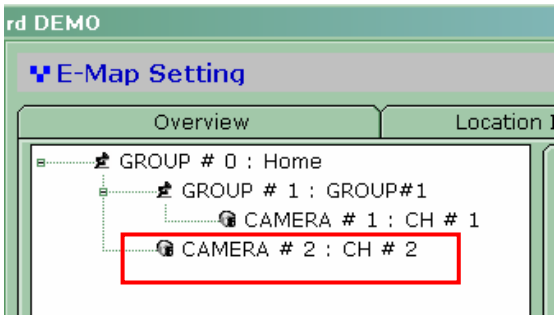
To go back to the previous layer, simply double-click anywhere on the map in the current layer.

6.3 Detail Setting

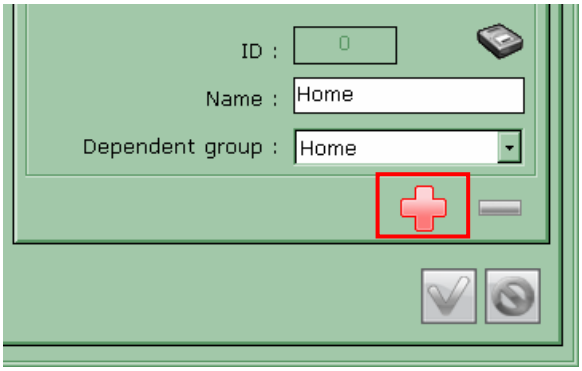
A camera can be quickly placed to a new camera group (a group that's on the same layer) on the fly in detail setting. To do so, simply click and drag a camera icon then drop it onto a camera group icon:



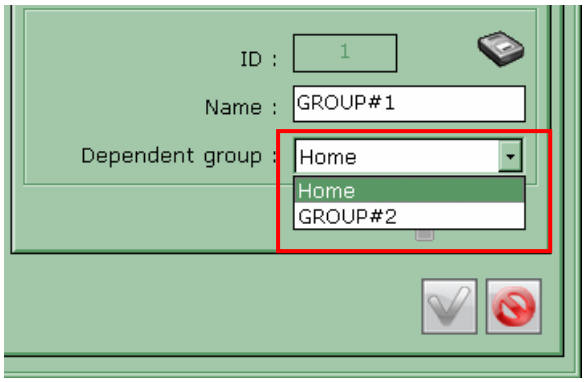
By default, all the cameras should be listed in the tree-view list on the left (as shown below). All cameras should be listed under the "Home" group (or Group#1):



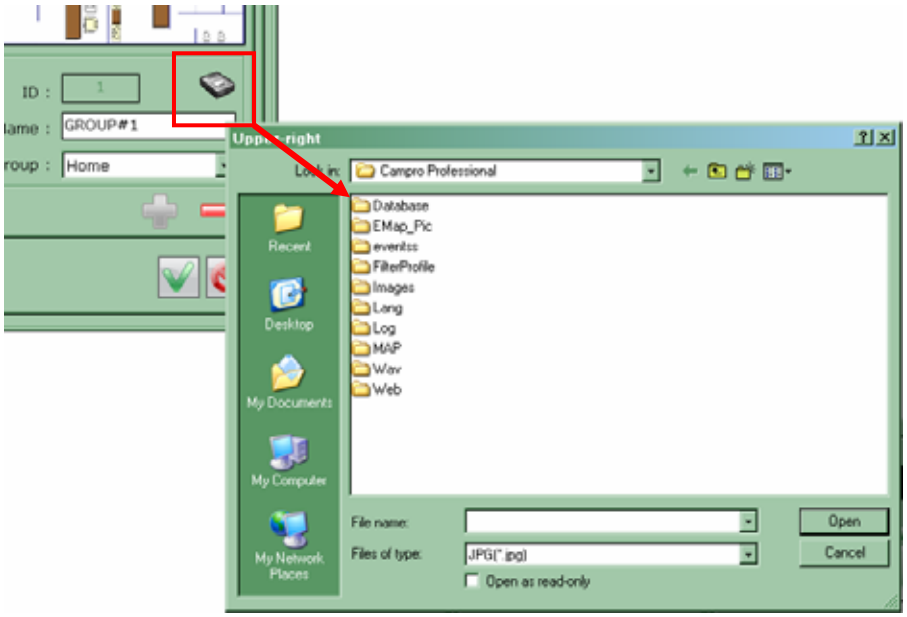
To create a new group, click on the “Add new group” button as shown below:



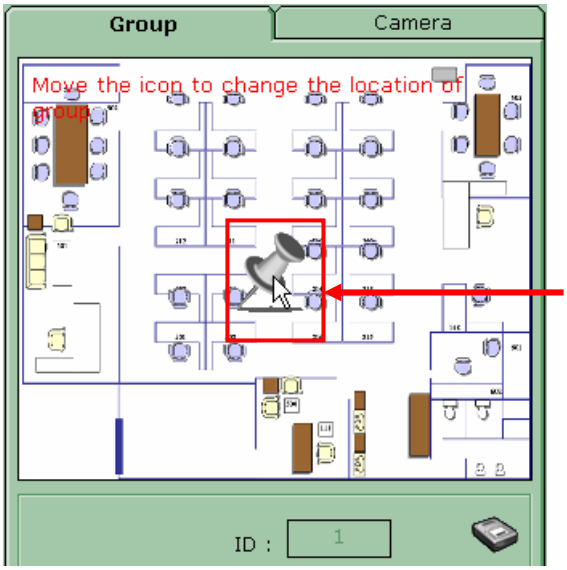
The next available group ID and group name should be automatically filled in to the corresponding fields. If you’d like to configure this group as a sub group of another group, choose the main group from the “Dependent” drop-down menu:



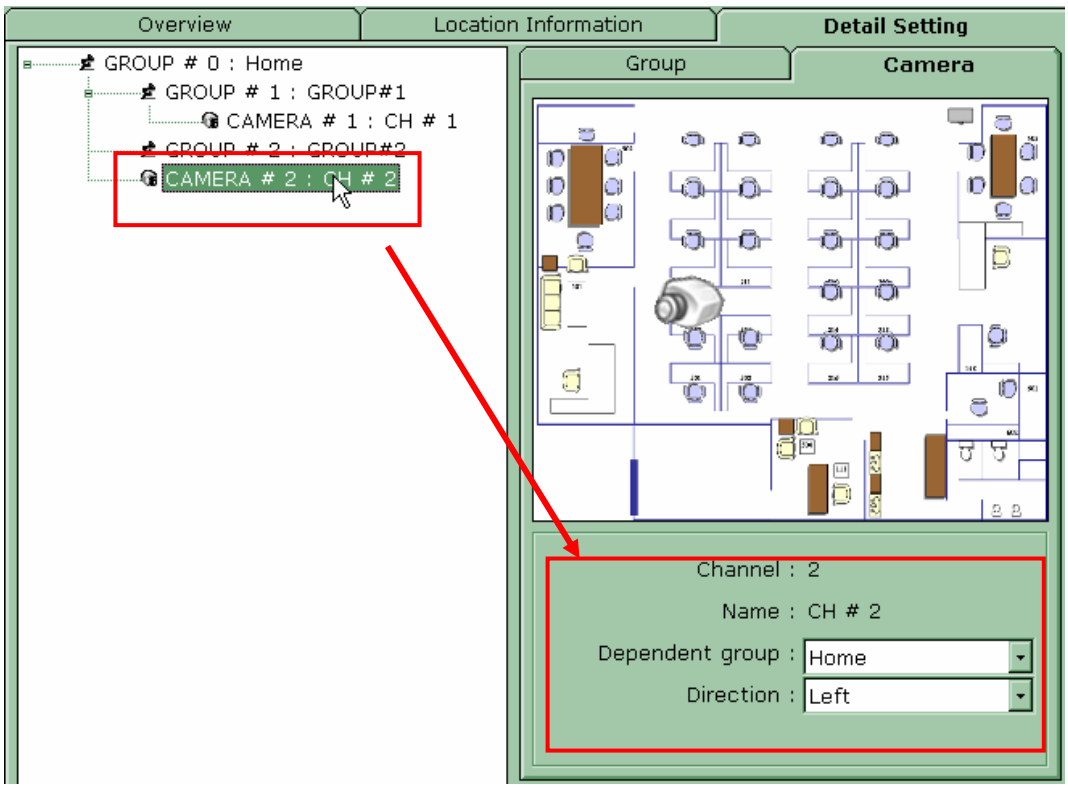
To change the map image, click on the icon (as shown below) to do so:



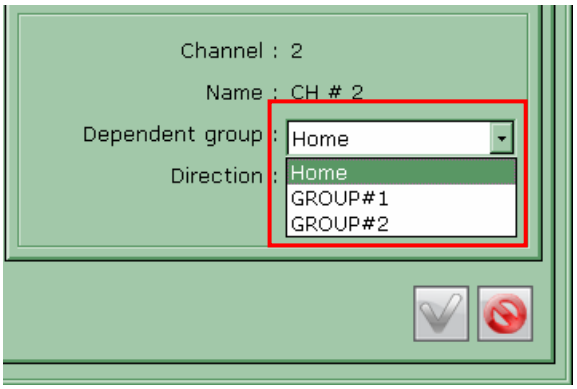
Finally, click on the “camera group” icon and hold the mouse then drag the icon to the desired position on the map to determine its new position.



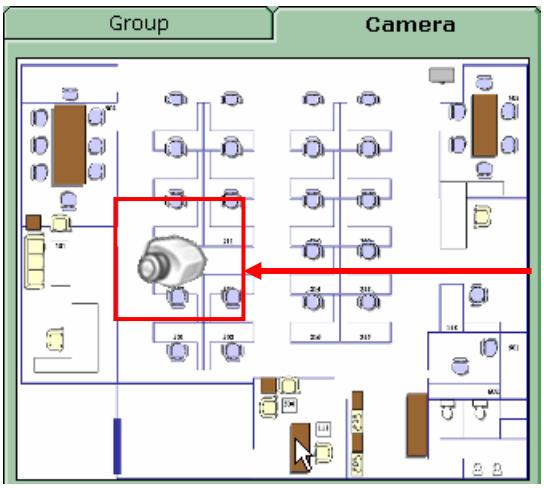
Similar to the instructions described from page 51 ~ 53, except you click on the camera from the list on the left this time. The “Channel” and “Name” fields will be automatically filled.



Simply select a desired camera group this camera will belong to from the “Dependent” drop-down menu:

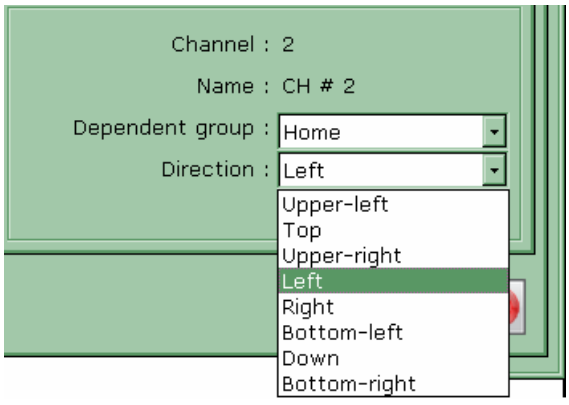


Click and drag the camera icon to determine its new position:



Move the icon on the map to determine its position

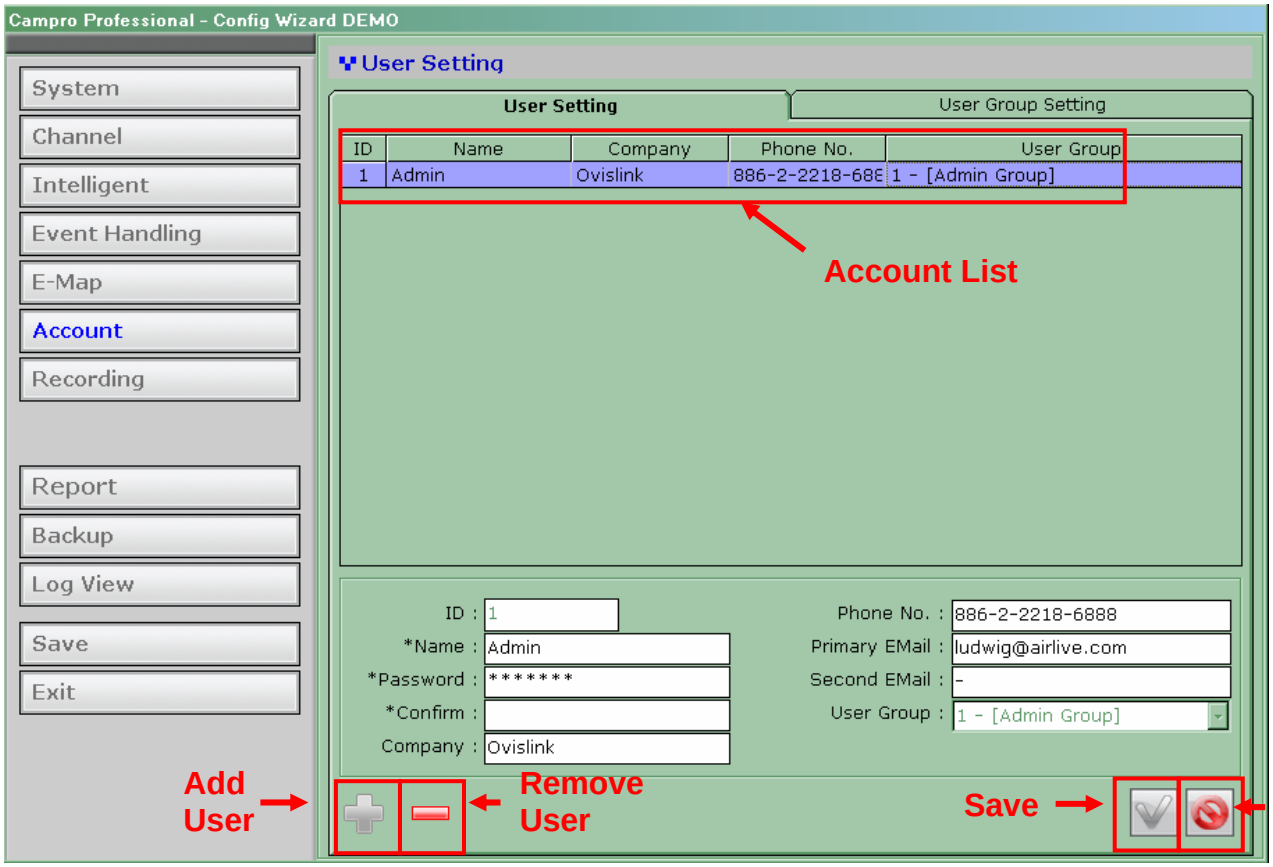
You can also change the camera’s pointing direction on the map from the “Direction” drop-down menu nested on its actual setup in the real world environment:



7 User Account

7.1 Overview

The software provides the option to allow users to set different access privileges and they can be assigned to different user groups. Users can then create multiple user accounts and assigned them to different user groups to determine the access privilege of each user account.



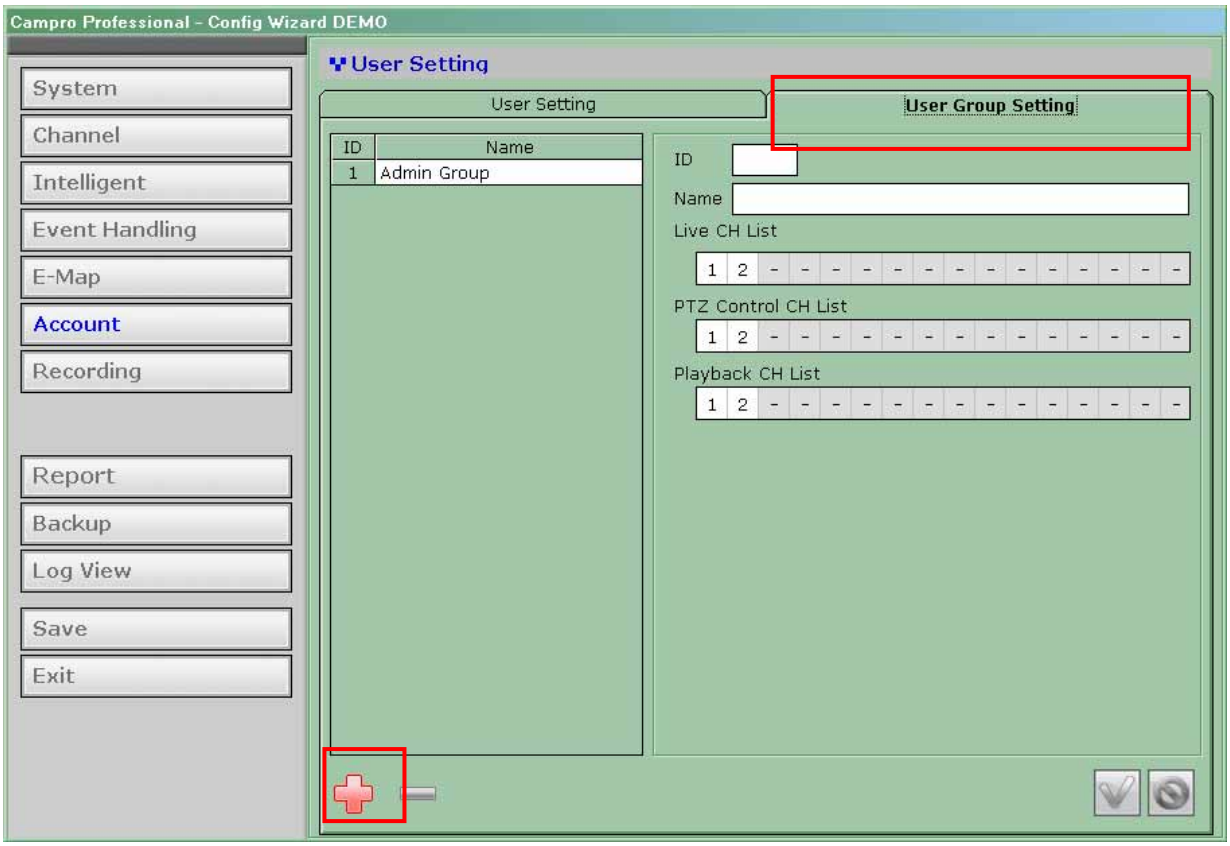
Note: By default, the software does not have any user account/user group created. It's strongly recommended that you create a user account to prevent unauthorized access to the software.

Note: Please do not create an additional user group account that has less access privilege and assign the only user account to that group. You will be asked to log in next time you start the software which you will then only have limited access.

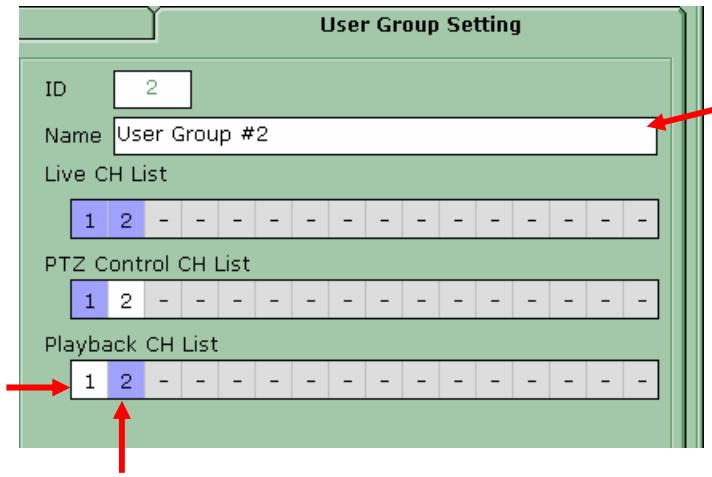
Note: You can not create a user account until you create a user group (the first user group will be the "Admin" group)

7.2 User Group

To create a new user group account, click on the “User Group Setting” tab and click on the “Add Group” button at the bottom:



You will then be able to assign access privileges to the new group. You may also change the name of the group if you wish:



Group name

A particular function of a particular channel that has not been granted for access

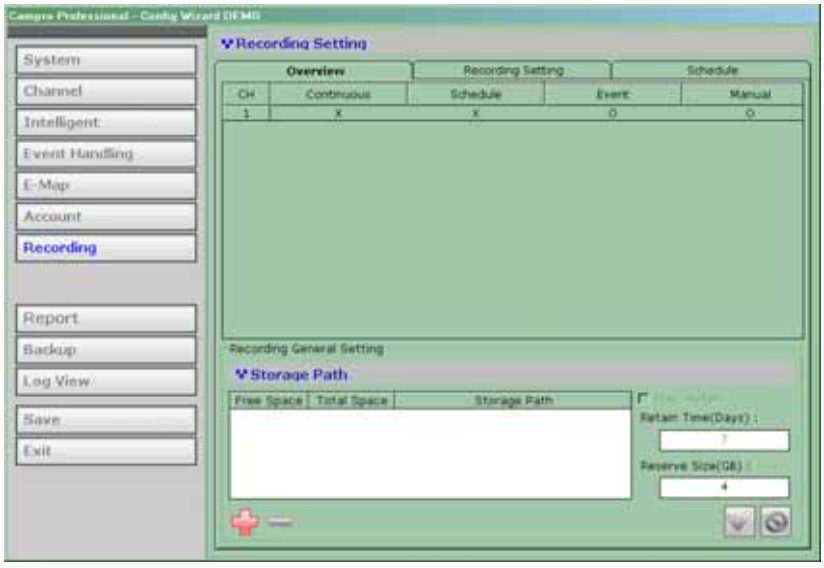
A particular function of a particular channel that has been granted for access

8 Recording

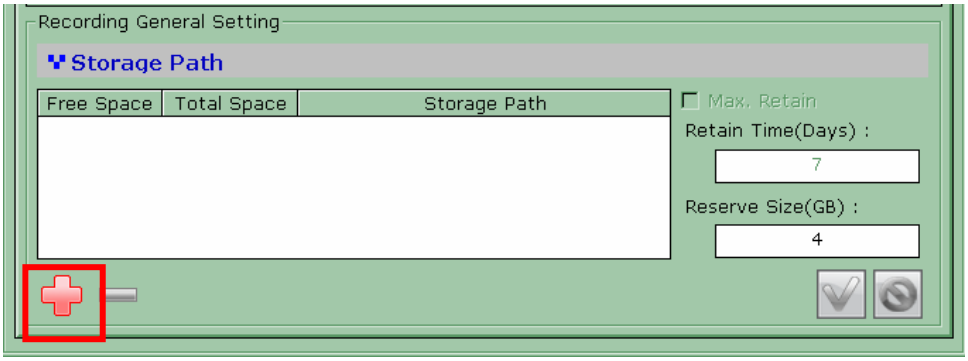
8.1 Recording

The recording configuration page allows users to configure the followings:

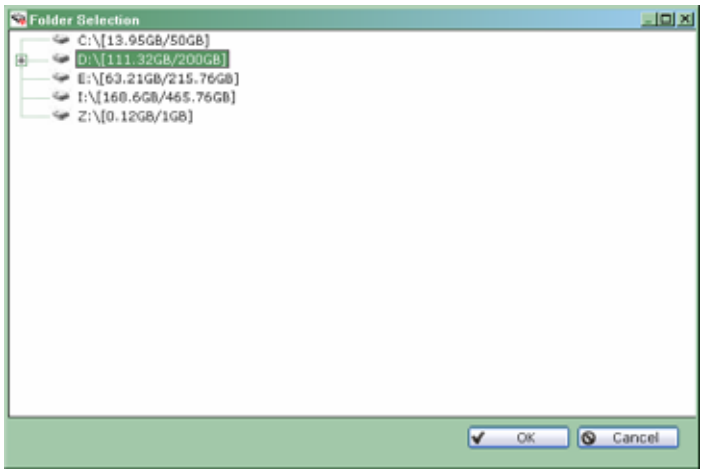
- Quickly enable/disable certain types of recording
- Recording storage path
- Recording frame rate of each recording type on each channel
- Pre-alarm/Post-alarm time
- Schedule recording



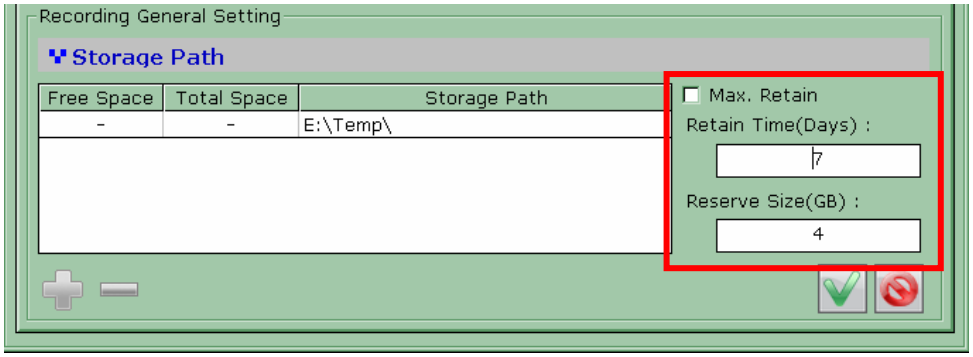
1. You should first be prompted with the overview page that displays the current recording configurations of each channel and the storage path. To add a new storage path, click on the “Add” button (as shown below):



2. A new dialog should be prompted which you can select a new path to store the recording data:



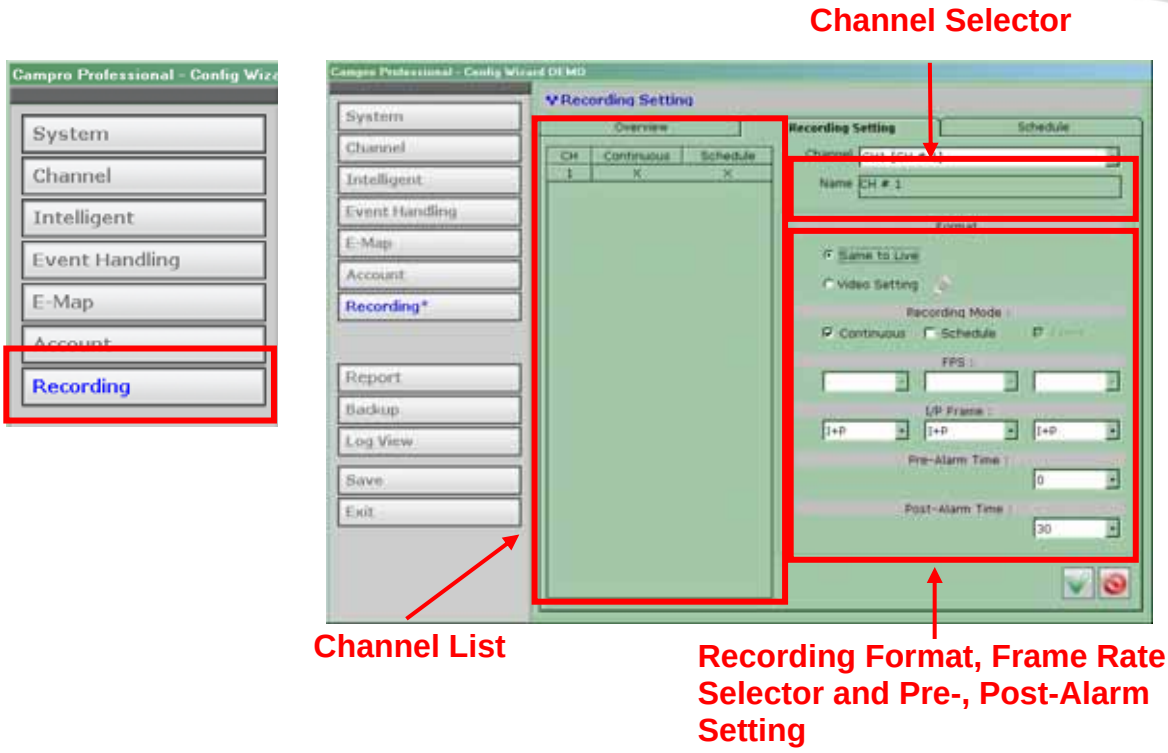
3. You can also configure the software to always keep the previous number of days of recording data if you wish to do so:



8.2 Recording Detailed

You can configure the detail recording settings in the “Recording Setting” page. In this page, you can configure the followings:

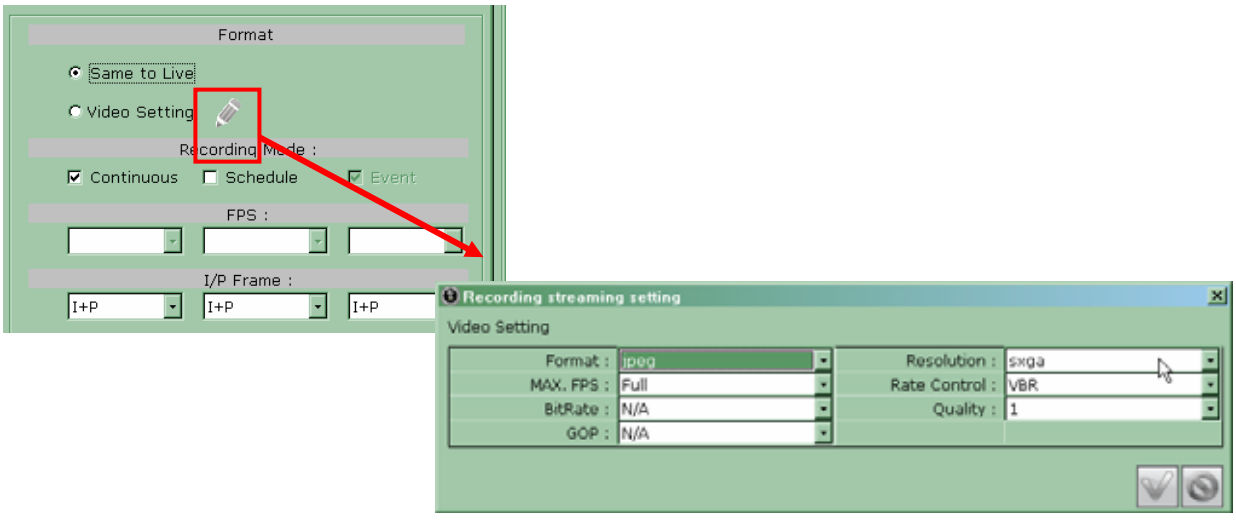
- Enable/disable recording types
- Recording frame rate
- Pre-Alarm/post-alarm time



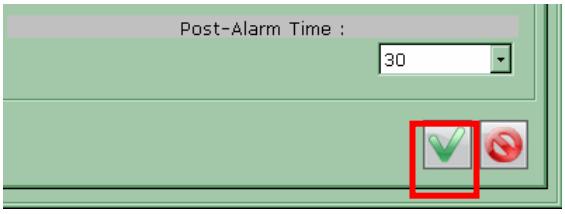
1. For making the program record video, first click on the desired channel on the list.

2. Then you need to select the video format. If “Same to Live” is selected, the video compression format of the recorded clips will be the same with the Live View setting.

3. For some installation, it may request higher quality to recorded video. And he can choose “Video Setting” for further selecting the desired format.

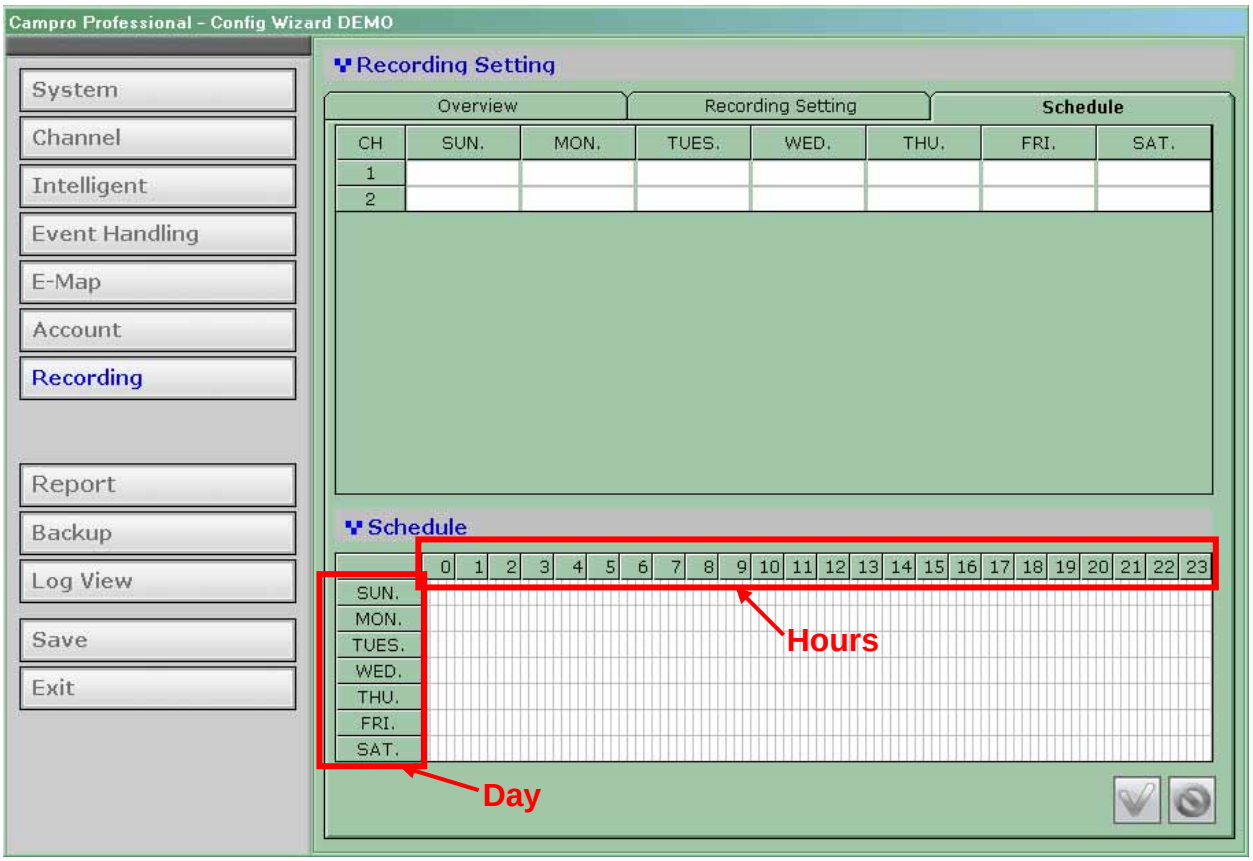


4. Click on “Save” for saving the configuration.

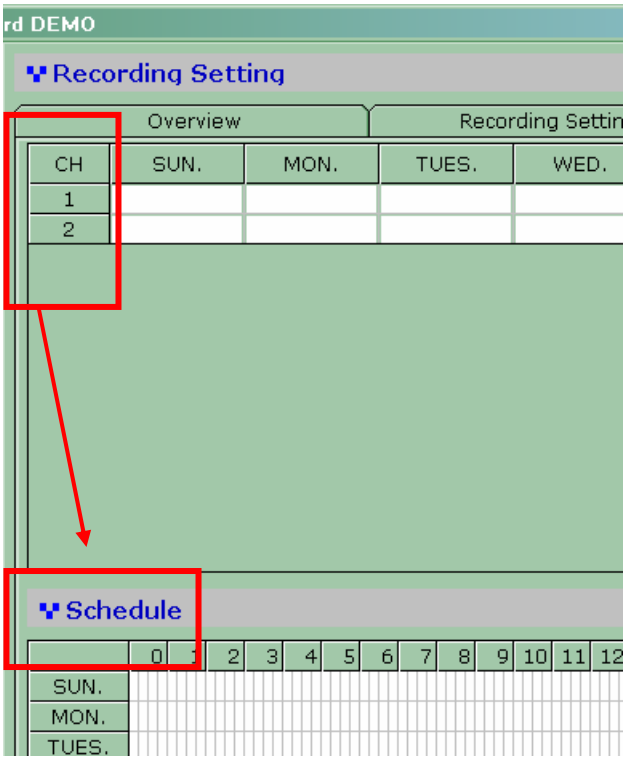


8.3 Recording Schedule

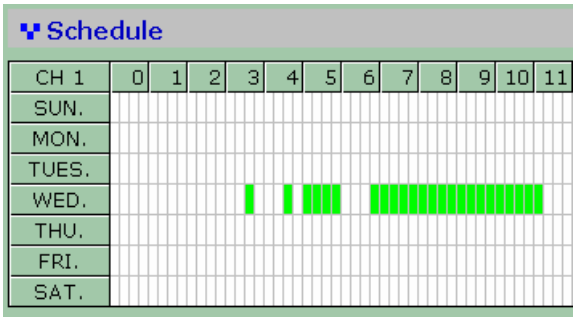
Schedule recording allows users to set the software start and stop recording automatically within the scheduled time frame:



To configure schedule recording for a particular channel, click on one of the channel from the “CH” column in the upper-left hand corner. Then you can edit the recording schedule of the selected channel in the “Schedule” section:



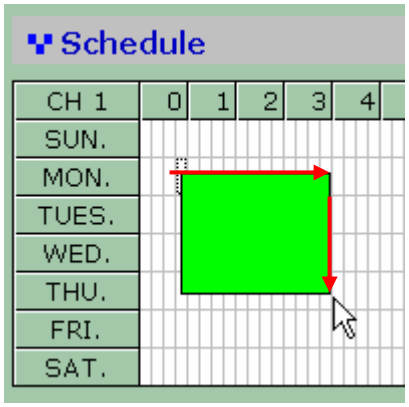
Next, click on the cell boxes on the schedule table to configure the desired recording time. Selected cell boxes will be marked in green which means recording will be started at that particular time of that particular day:



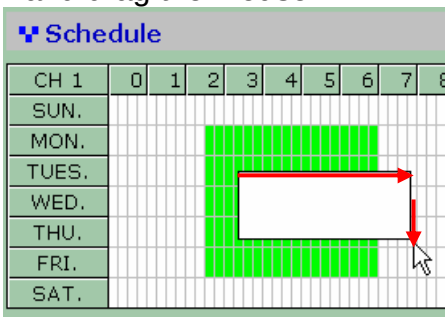
Note: Each cell box represent 15 minutes.

To set the software to record in consecutive hours on a particular day, click on a cell box (as the starting point) and hold the mouse then move it horizontally. Release the mouse when you are done.

To set the software to record on consecutive days during a particular hour, click on a cell box (as the starting point) and hold the mouse then move it vertically. Release the mouse when you are done.



To clear the schedule, left click and drag the mouse.



9 Backup

9.1 Overview

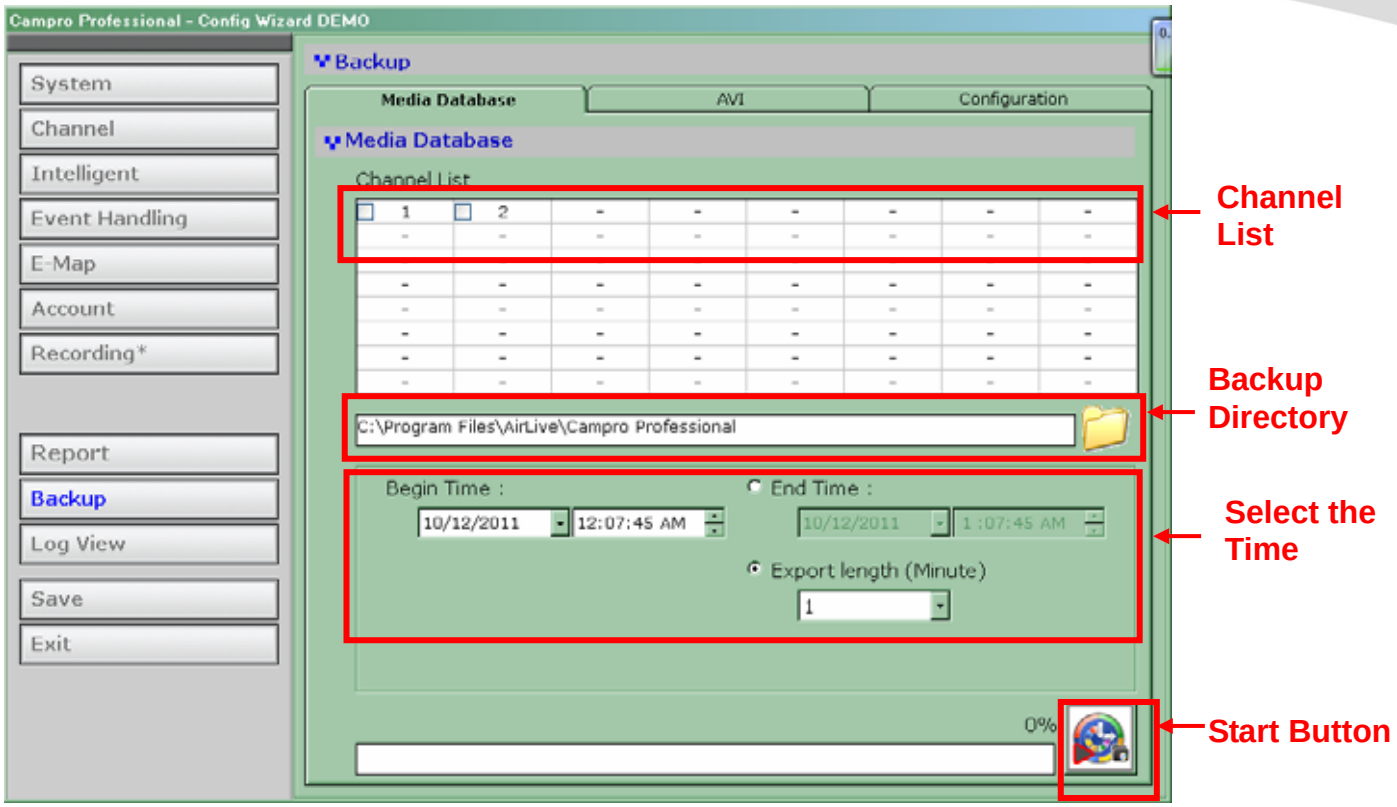
The software provides the backup function which can back up the followings:

- Media database: Recorded data in the database format
- AVI export: Recorded data exported to AVI file format
- Configuration: The configuration files of the software

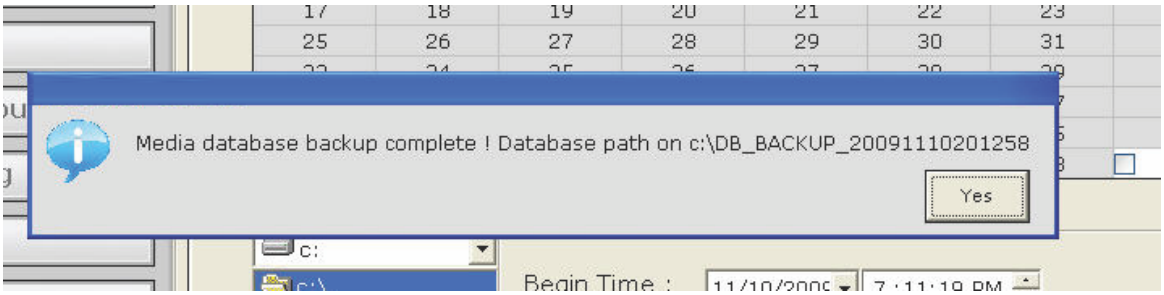
9.2 Media Database Backup

To backup the media database, follow the procedures below:

- Select channels from the “Channel List” to back their media database
- Change or accept the default backup directory
- Set the “Begin Time
- Set the “End Time” or select the “Export length”
- Click to begin the backup process

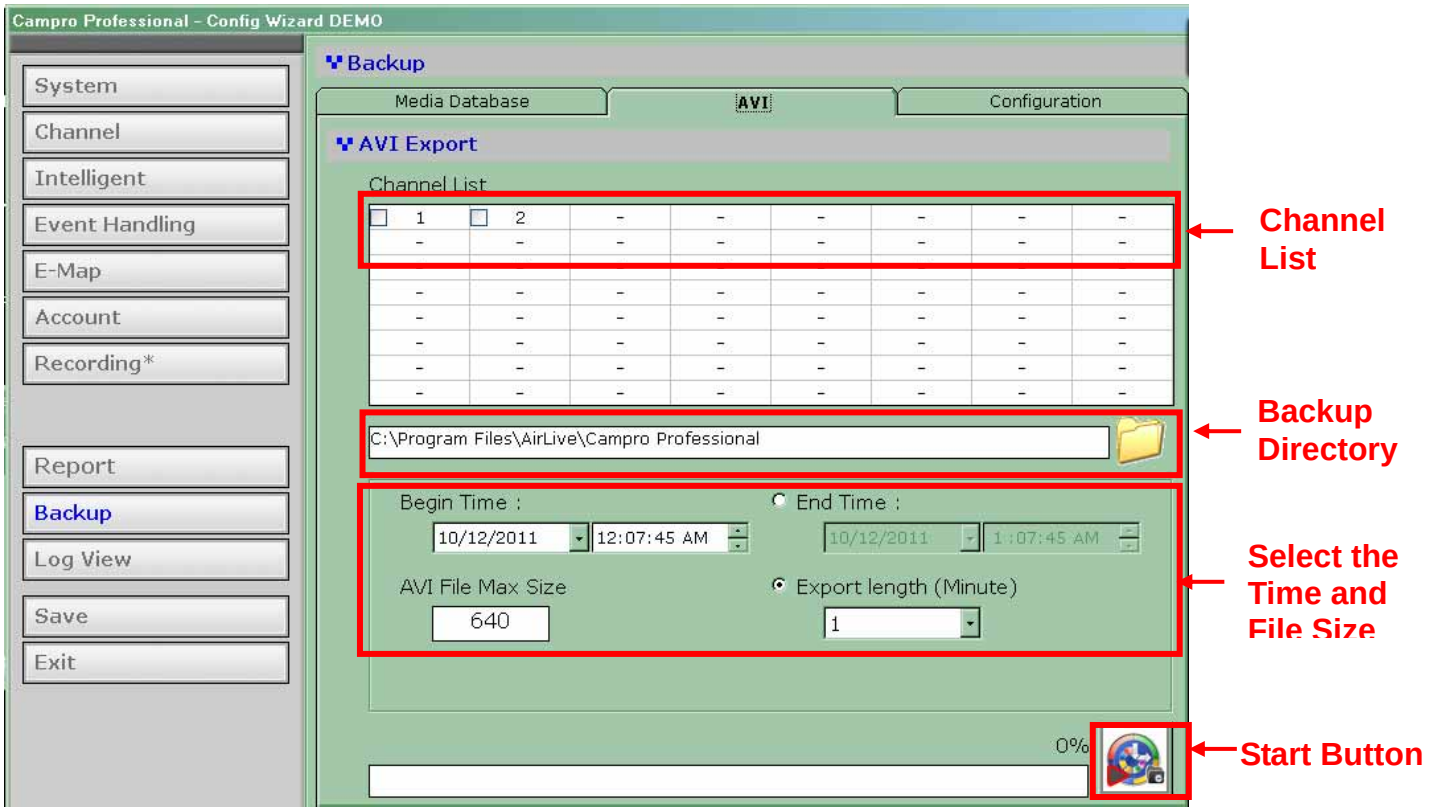


You should be notified once the process completes. The stored file name and the storage directory should also be displayed:



9.3 AVI Export

The software provides the function to allow users to backup the recorded file of one or more channels and export them as AVI file format. The file can then be played by the bundled media player.

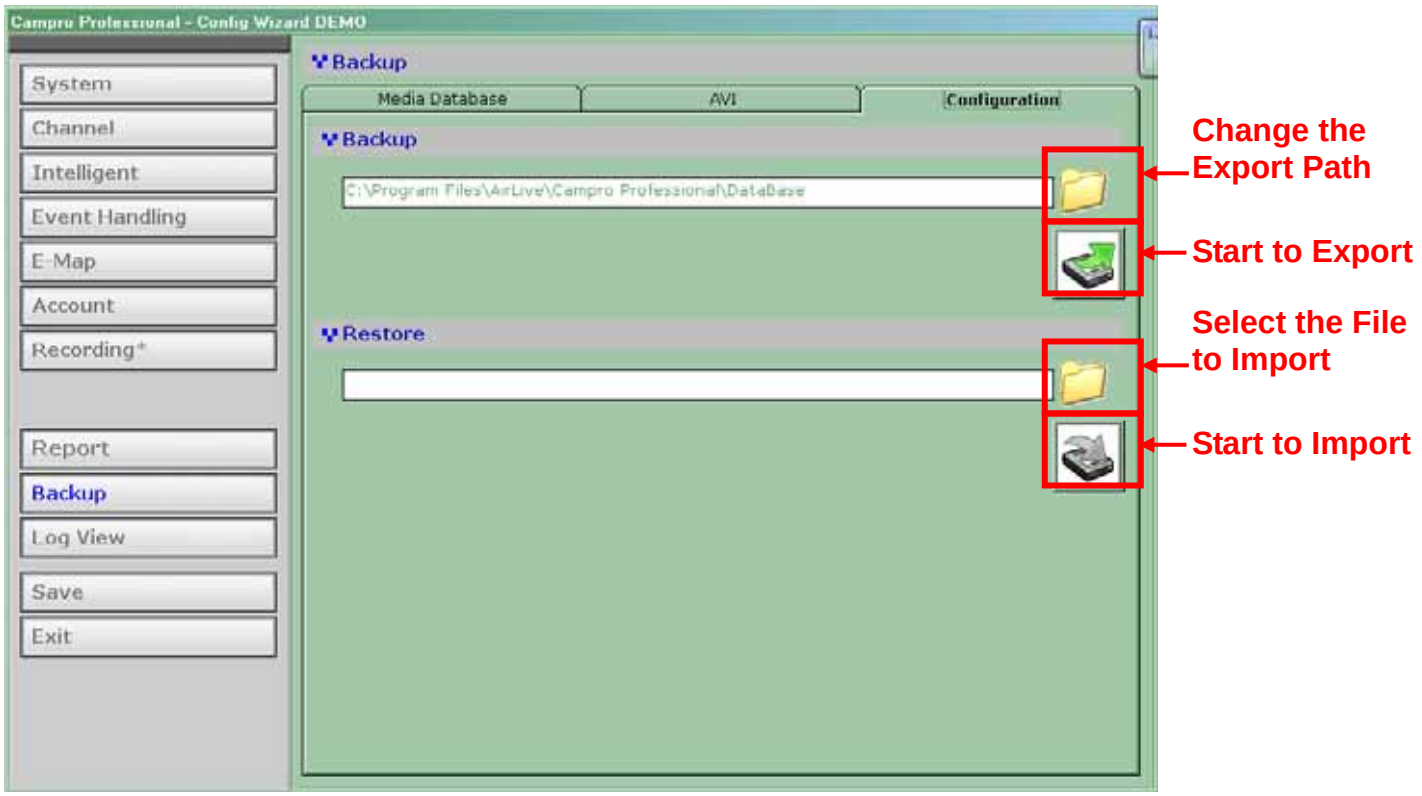


To export the recorded video to AVI, follow the procedures below:

- Select channels from the “Channel List” for AVI export
- Set the “Begin Time
- Set the “End Time” or select the “Duration time”
- Click to begin the backup process

9.4 Configuration Backup

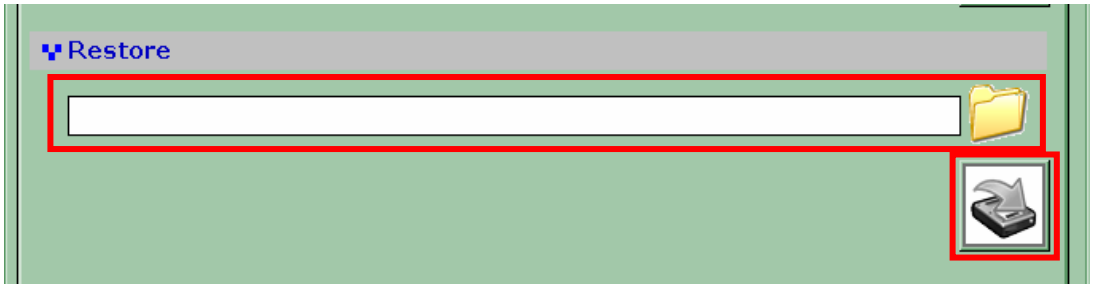
In the “Configuration” page, you can backup the current settings or restore a previously saved configuration file.



To backup the configuration file, select a folder of where you would like the configuration file to be saved to and click “Backup”:

You should be notified once the backup is completed successfully.

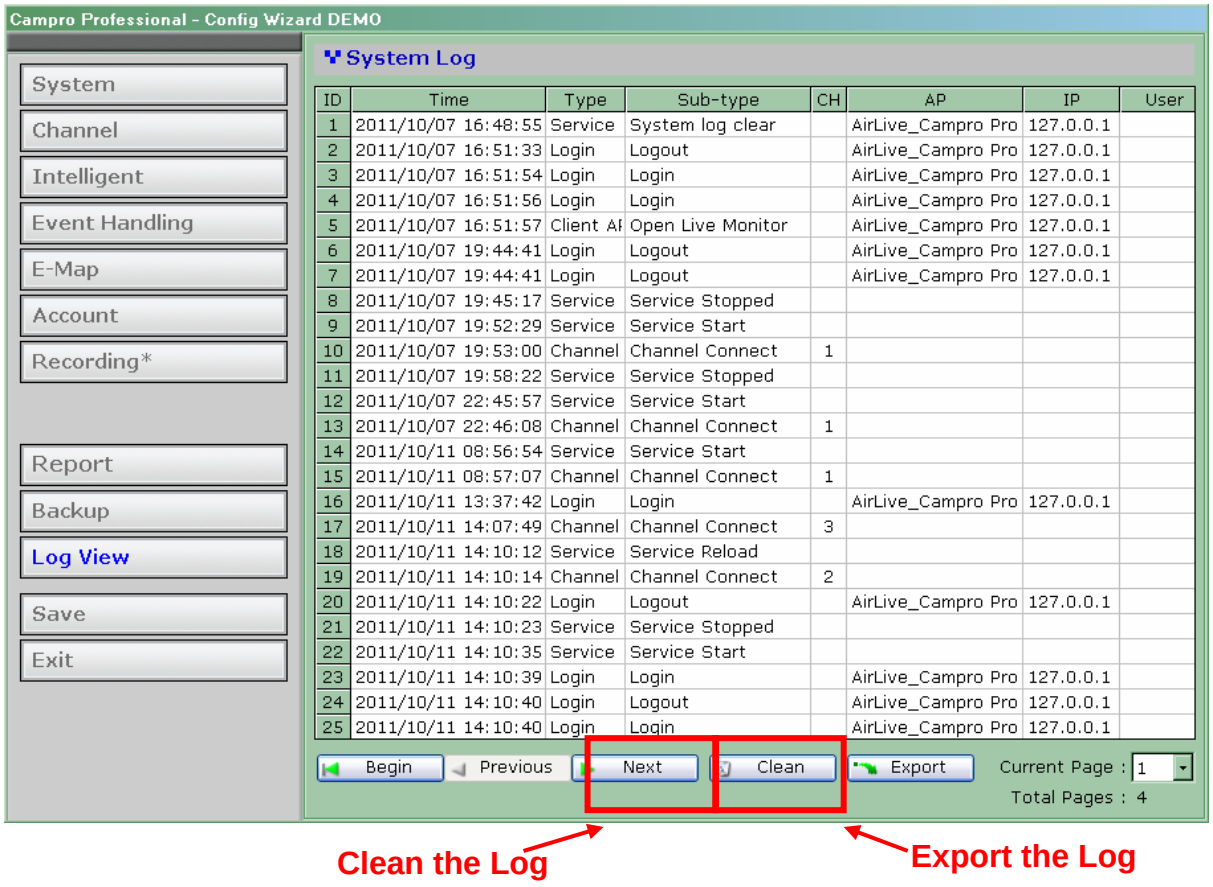
To restore a previously saved configuration file to the system, locate the file first and then click “Restore”:



You should be prompted to confirm the restore process.

10 Log View

The software provides a detailed log which records what has been done and who has done what to the software:



Click “Export” to export the log file to text file. You should be prompted once it’s exported successfully.

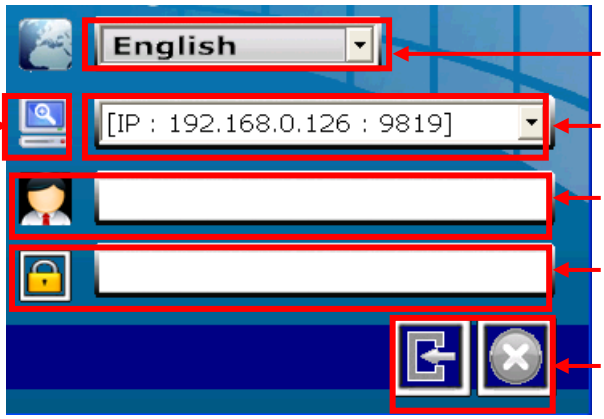
11 Client Viewer

11.1 Login Window

Client Viewer is the program that connects to the CamPro server and performs certain functions to it. Once the client viewer is started, you should be prompted with the login screen.

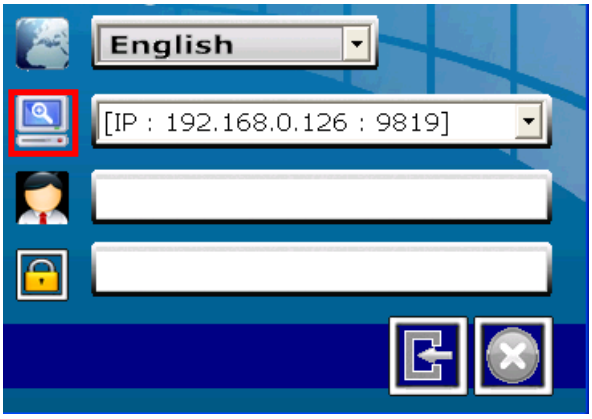
The login screen provides the following options:

- Connect to a PC NVR Pro server (local or remote)
- Display language
- Login username and password

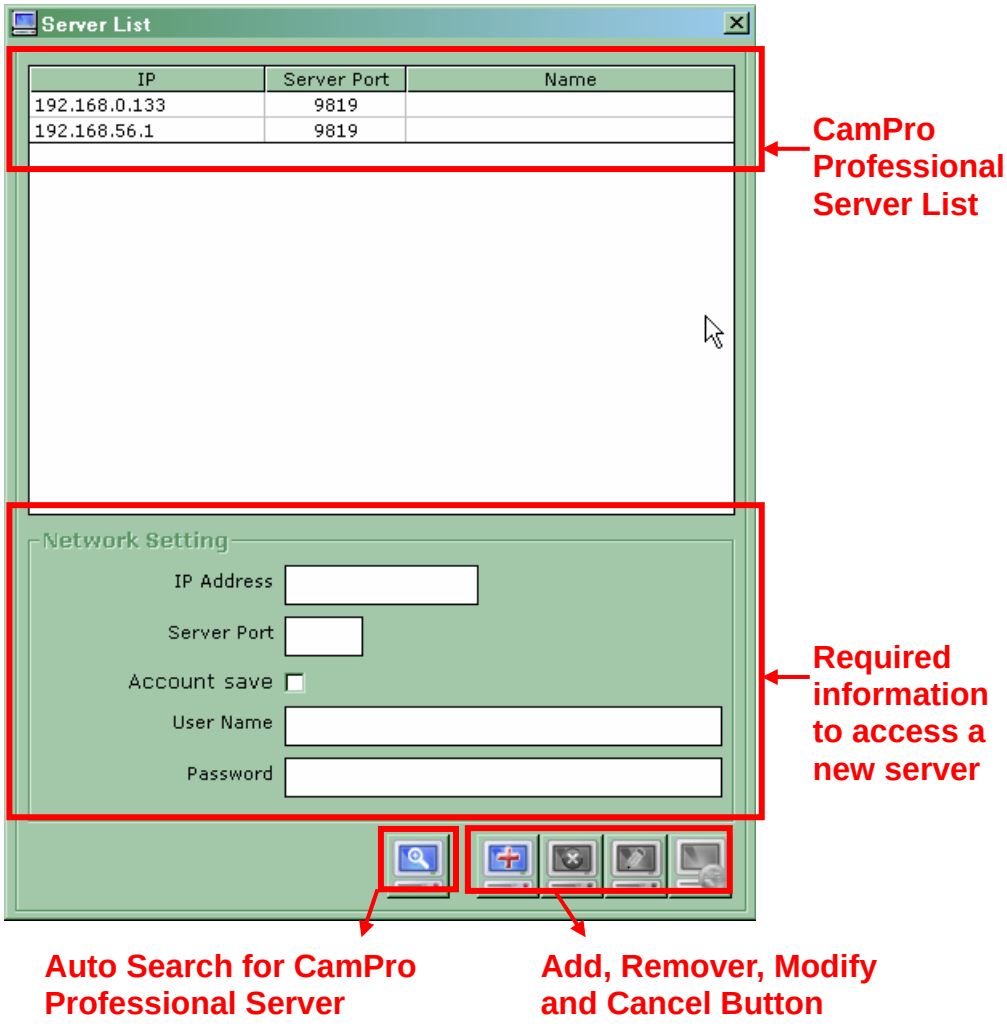


11.2 Add Server

You can select available servers from the drop-down menu at the login screen or you can click on the icon highlighted below to add new servers.

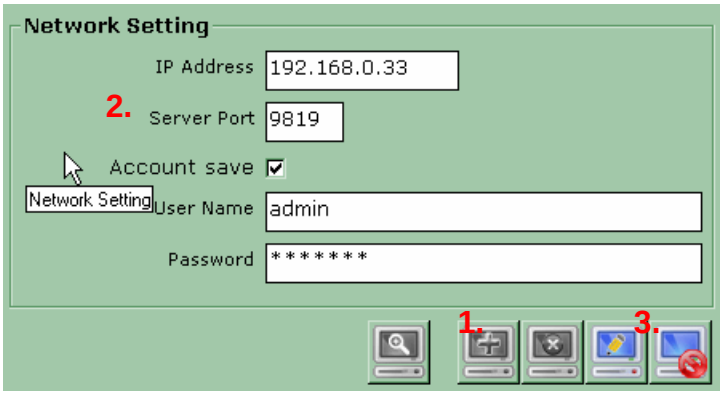


The server list dialog should be displayed as shown below:



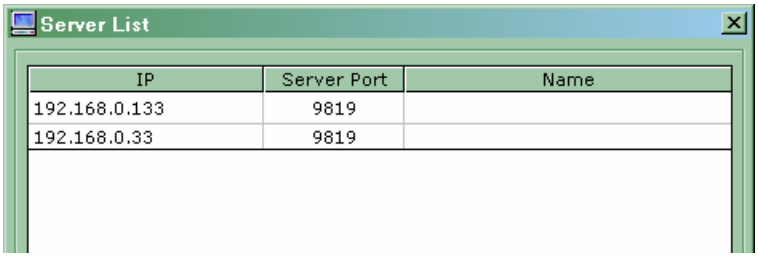
Add Server manually

To add a new server manually, first to click on “Add” button, then enter the corresponding information in all fields on the “Server List” dialog. Click “Modify” button for saving the setting:

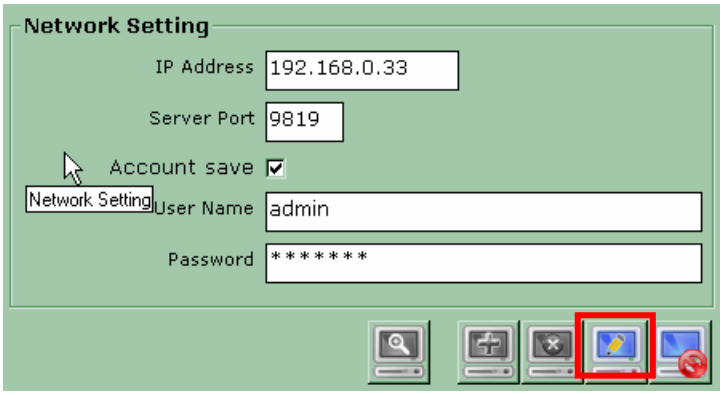


Note: The “server port” is the port that’s used for video streaming.

The new server will then be added and you should find it on the server list:

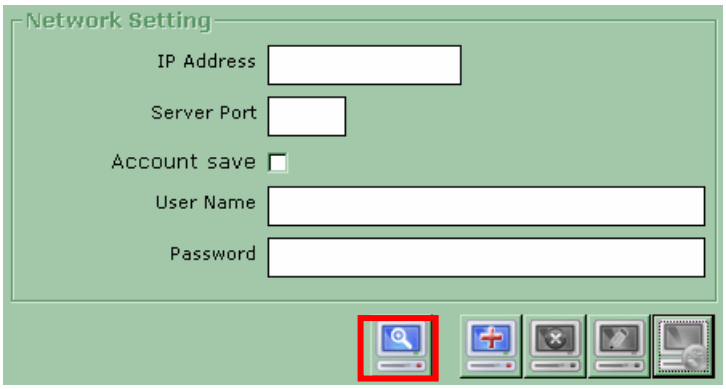


To change its settings, click on it from the server list and click the “Modify” button:

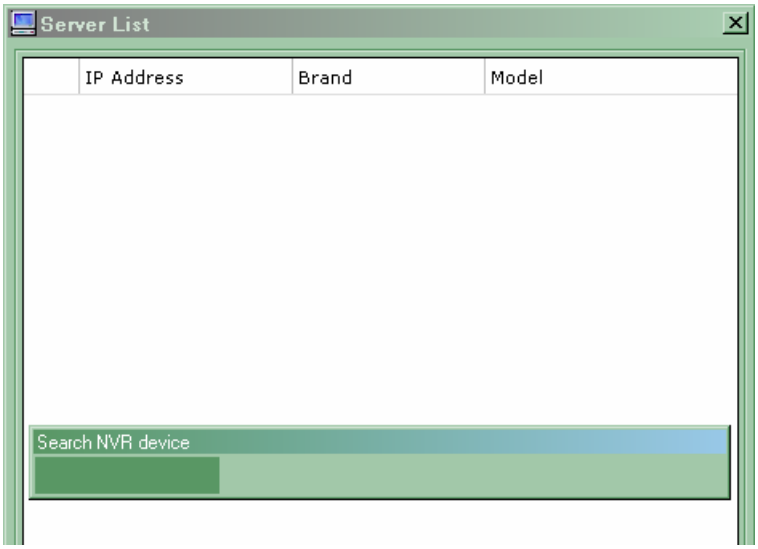


Add Server Automatically

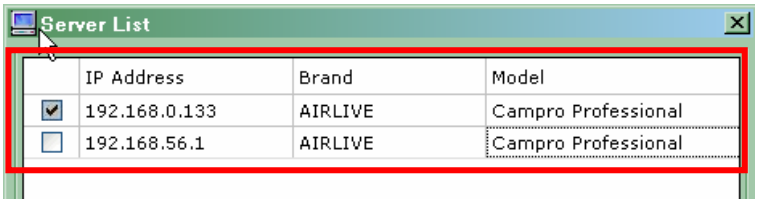
You can also perform an auto search and the software should be able to find servers that are available on the same subnet:



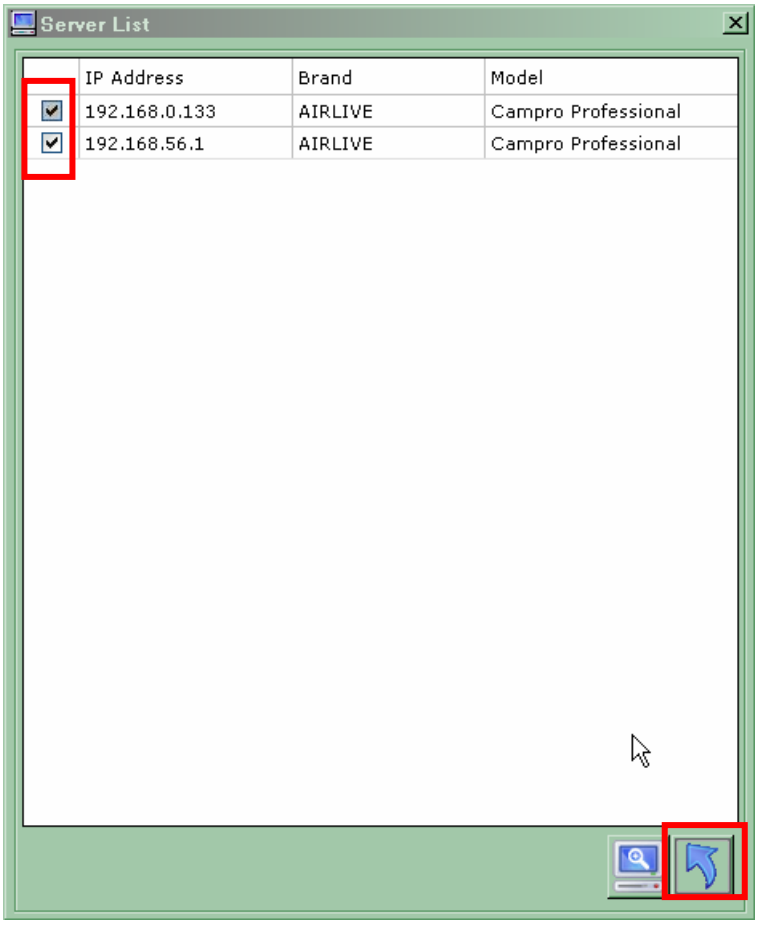
A new dialog should be prompted and displays the search progress:



New servers that are found should be listed in the list on the top

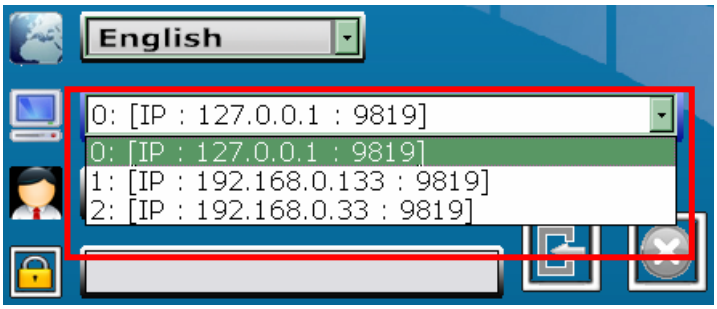


Check the check box before the desired server, and then click on the button, it should direct you back to the previous dialog and you should find it listed on the server list:



Or you can click on button for searching again.

The newly added server would be listed in the drop-down menu at the login screen next time you log in:



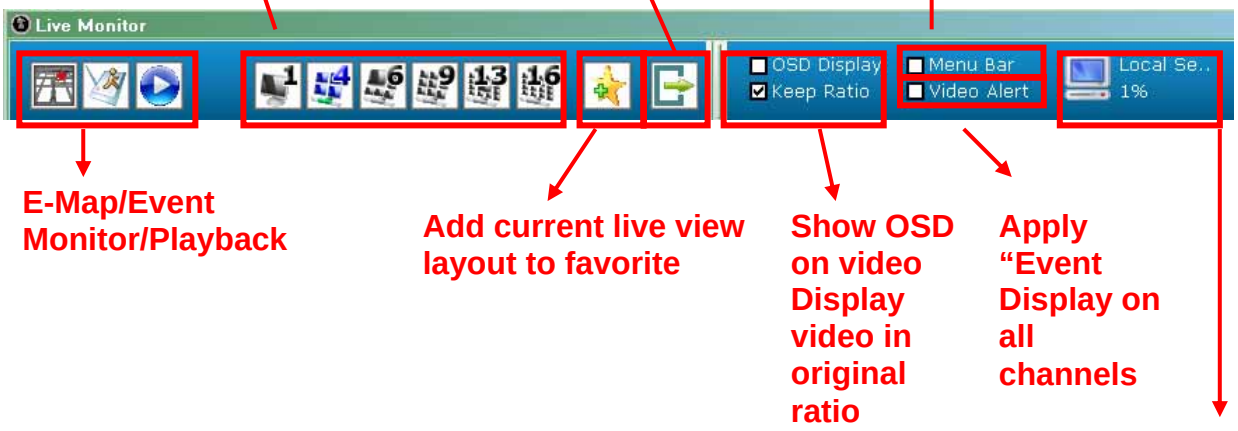
12 Live View

12.1 Overview

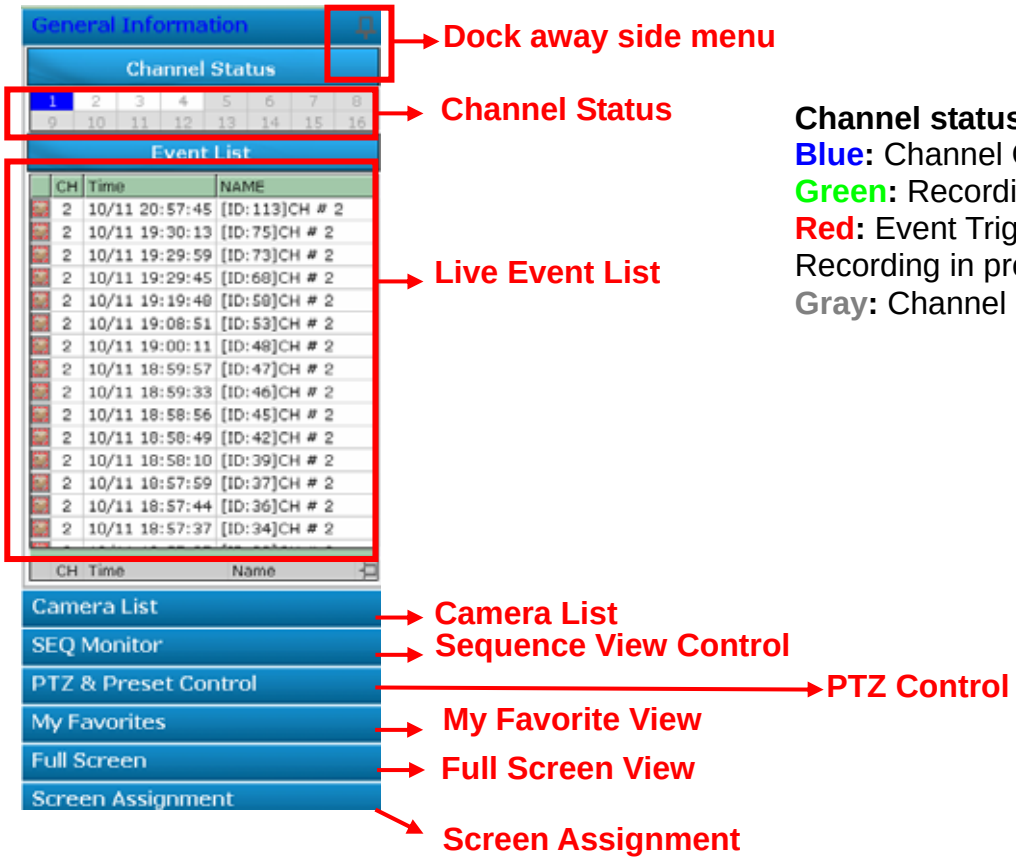
The software basically provides the following functions for the live view:

- Change screen layout (views in various numbers of split screen)
- Show OSD and sequence viewing
- Display videos in their original ratio
- Server and channel status
- Audio
- Snapshot of live videos
- On-screen event warning
- PTZ and Digital PTZ controls
- Manual recording
- Image enhancement

Top Menu Bar

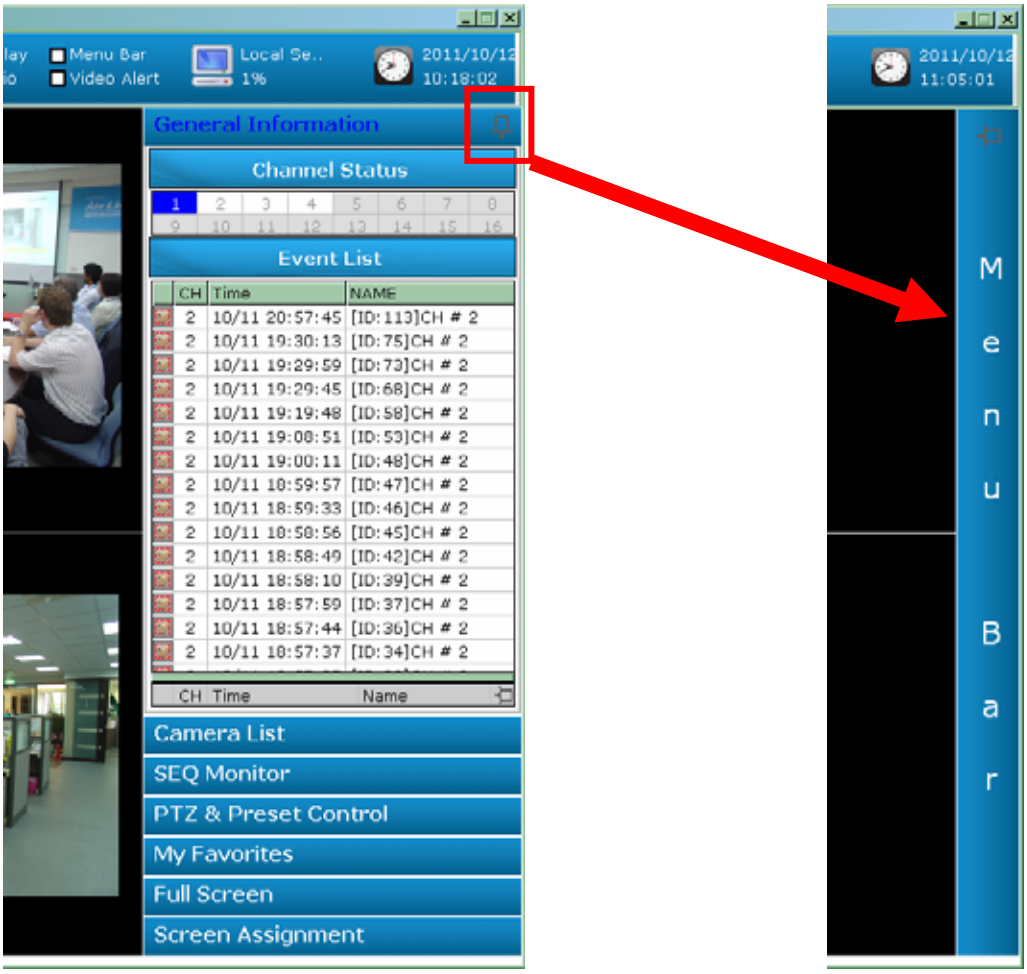


Side Manu



Channel status:
Blue: Channel Online
Green: Recording in process
Red: Event Trigger and Event Recording in process
Gray: Channel Offline

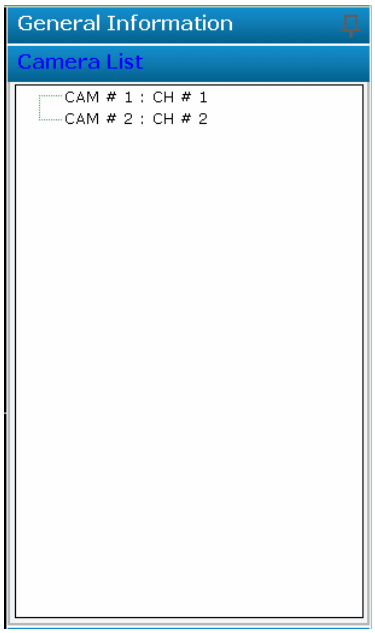
Despite of full screen mode, the side menu can be “docked away” to allow maximum viewing space:



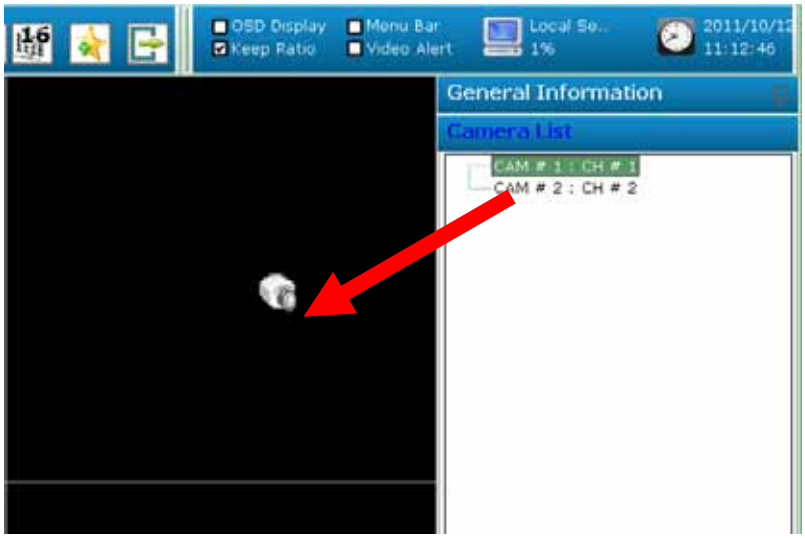
12.2 Adjust Viewing Layout

The software offers various viewing layouts which allow users to determine how many videos can be displayed at once. Users can select from the available split window options on the top to changes the viewing layout:

Once the layout is determined, users can quickly decide which channel they would like to view by selecting cameras from the “Camera List” which is available from the side menu:

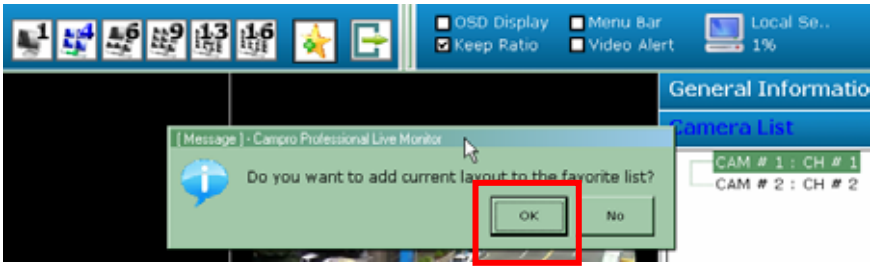


Simply click and drag a camera from the list and drop it onto a desired video window on the left:

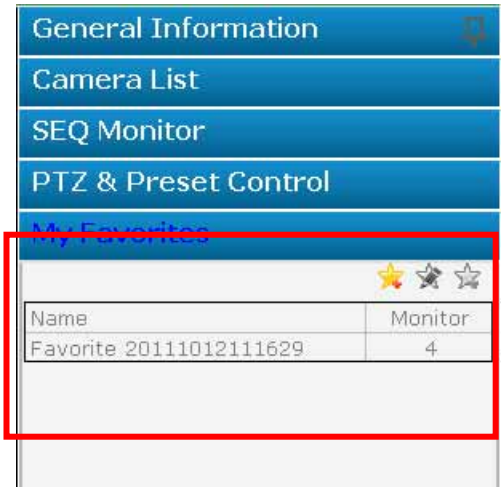


Once you have finish placing the desired cameras on the chosen layout, you can click on the “Add Favorite” button to save the layout as a profile:

Click “Yes” to confirm:

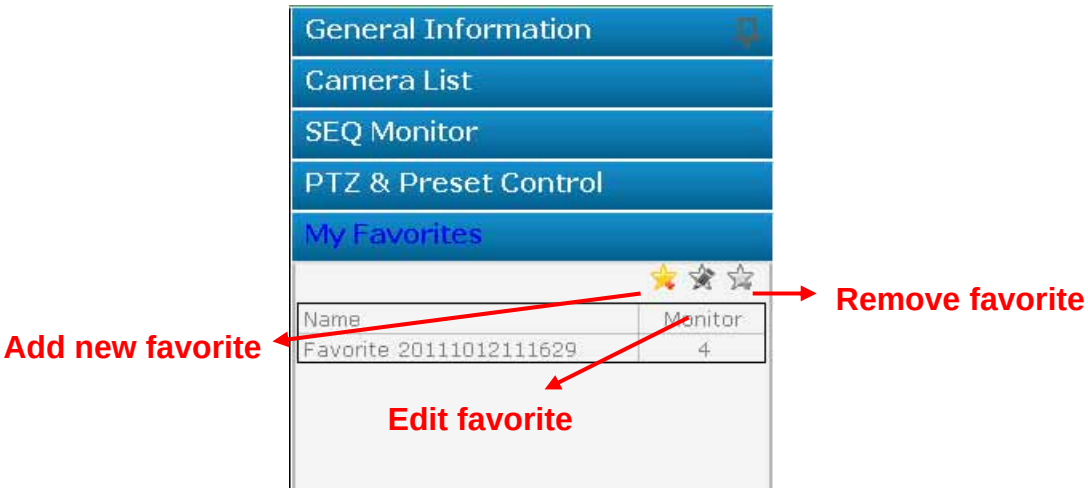


You can find all the “Favorites” from the side menu under “My Favorites”:



With “My Favorites” menu, you can also:

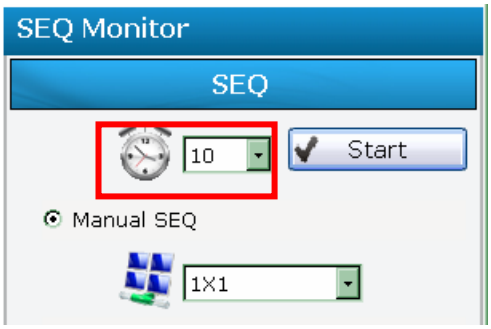
- Add new favorites
- Edit settings of existing favorites
- Remove existing favorites



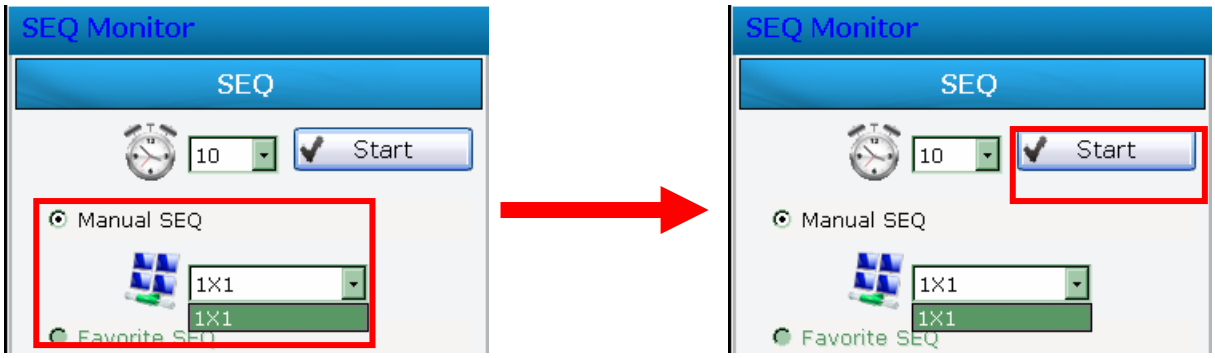
12.3 Sequence Monitor

SEQ (Sequence) Monitor is a function that displays videos of the selected channels (or favorites) and they are switched automatically with definable interval. The SEQ Monitor can be accessed from the side menu under “SEQ Monitor”:

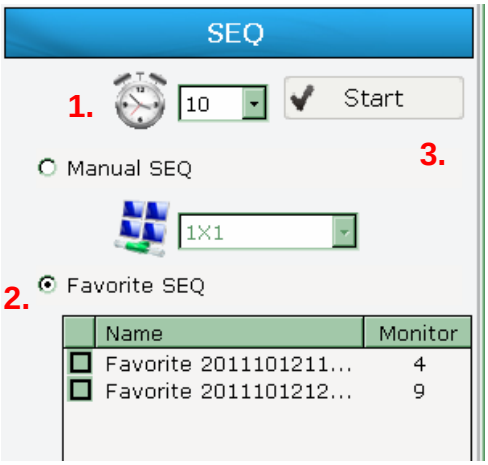
To configure the software to automatically sequence the videos of the selected channels, decide the sequence interval first from the drop-down menu (as shown below):



Next, choose how many channels you would like to view at once by choosing an option from the drop-down menu under “Manual SEQ”, and then click “Start”: (Options are given depends on the number of channels available in the software)



Other than viewing the channels you manually selected in sequence automatically, the software can also be configured to sequence the “My Favorites”. Simply check the ones you like from the “Favorite SEQ” list and click “Start”:



12.4 Full Screen

The software can detect the number of monitors are currently installed on the PC and display different function pages or live videos onto those monitors. The software supports up to 5 monitors and live videos can be assigned to be displayed onto all 5 monitors in full screen.

The software is capable of displaying up to 16 live videos on each monitor when in full screen.

To enter full screen,

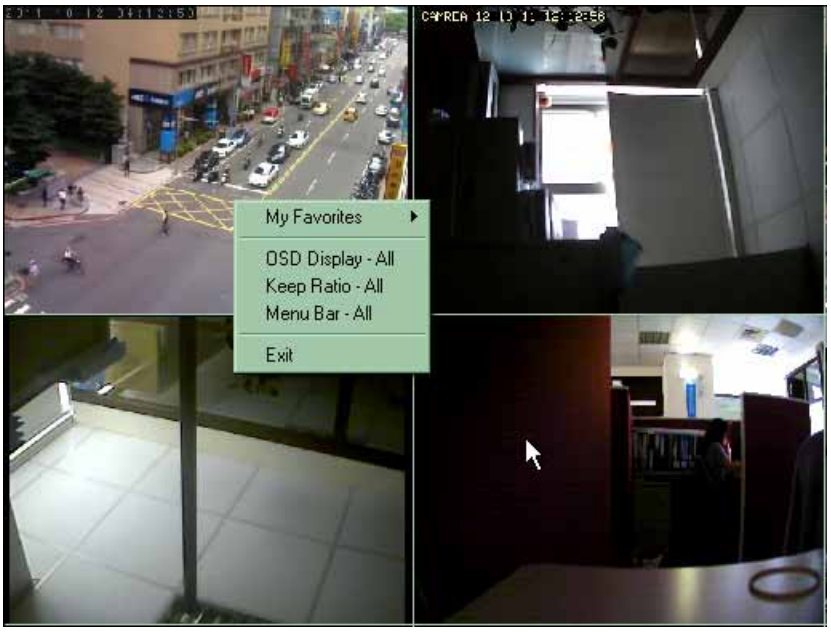
1. Select the screen layout from the top bar
2. Choose the channels in camera list from the side menu and drop them onto the live view area
3. Click “Full Screen” from the side menu
4. Choose the monitor to go full screen

Note: Windows OS assigns an “ID” number for each monitor installed on the PC; the NVR software uses the same ID number for displaying videos in full screen or different function pages.

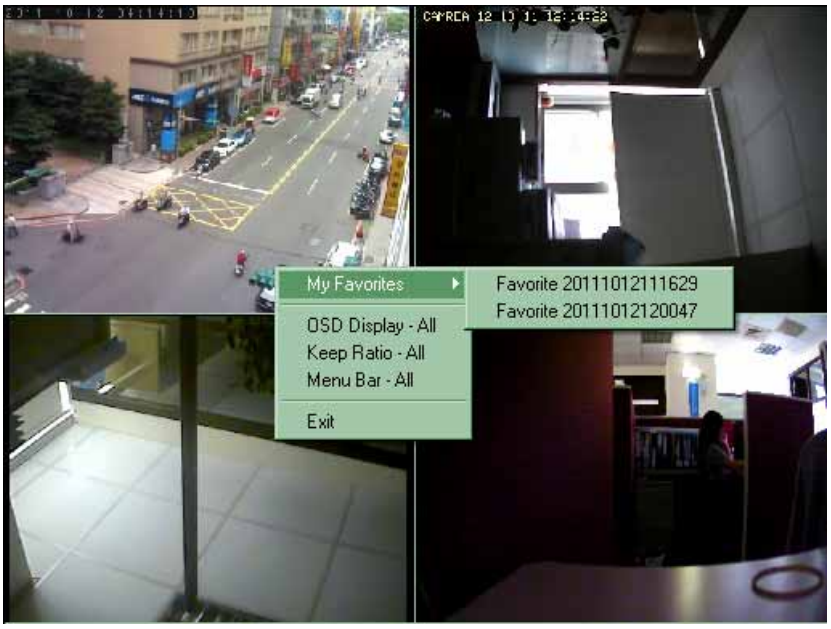
There are various functions provided when in full screen for maximum flexibility and convenience. You can:

- Switch among different “My Favorite”
- Enable/disable display of OSD
- View all videos in their original ratio
- Turn on/off video window control bar (more details about this function on page

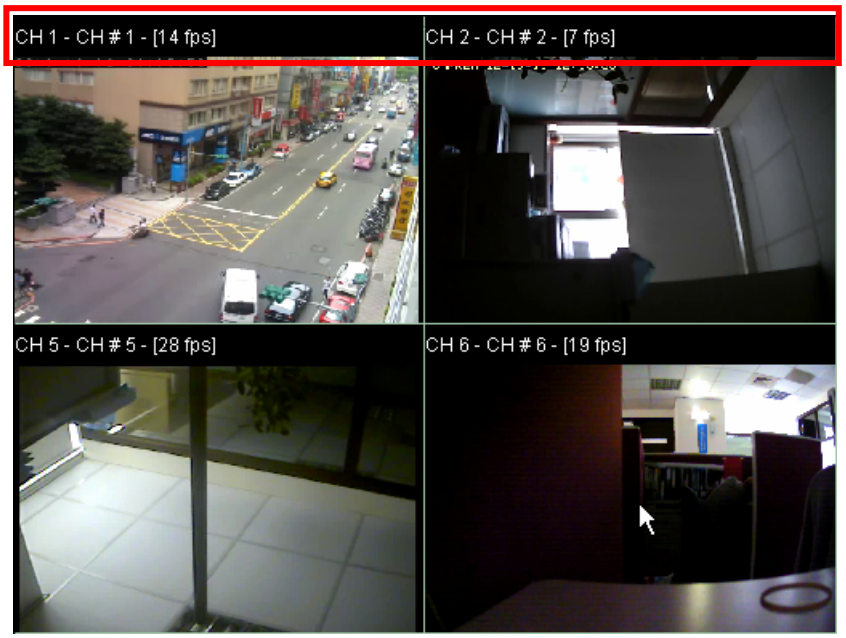
To access these functions, right-click anywhere on the screen when in full screen:



Switch among different “My Favorite” by right-clicking anywhere on the full screen, and go to “Favorite”. Select a “Favorite” from the pull-down menu:



If “Show OSD” is clicked, OSDs will be displayed on all videos, which display the channel number and their current frame rate:



If “Keep Ratio” is clicked, all videos will be displayed in their original ratio:

To turn on the video window control bar, right-click anywhere on the full screen and click “Menu Show”, and then hover the mouse onto any video window:

12.5 Screen Assign

As mentioned in the previous page that the software can display either live videos in full screen or different function pages on up to 5 monitors, users can configure which monitor displays which function page.

To do so:

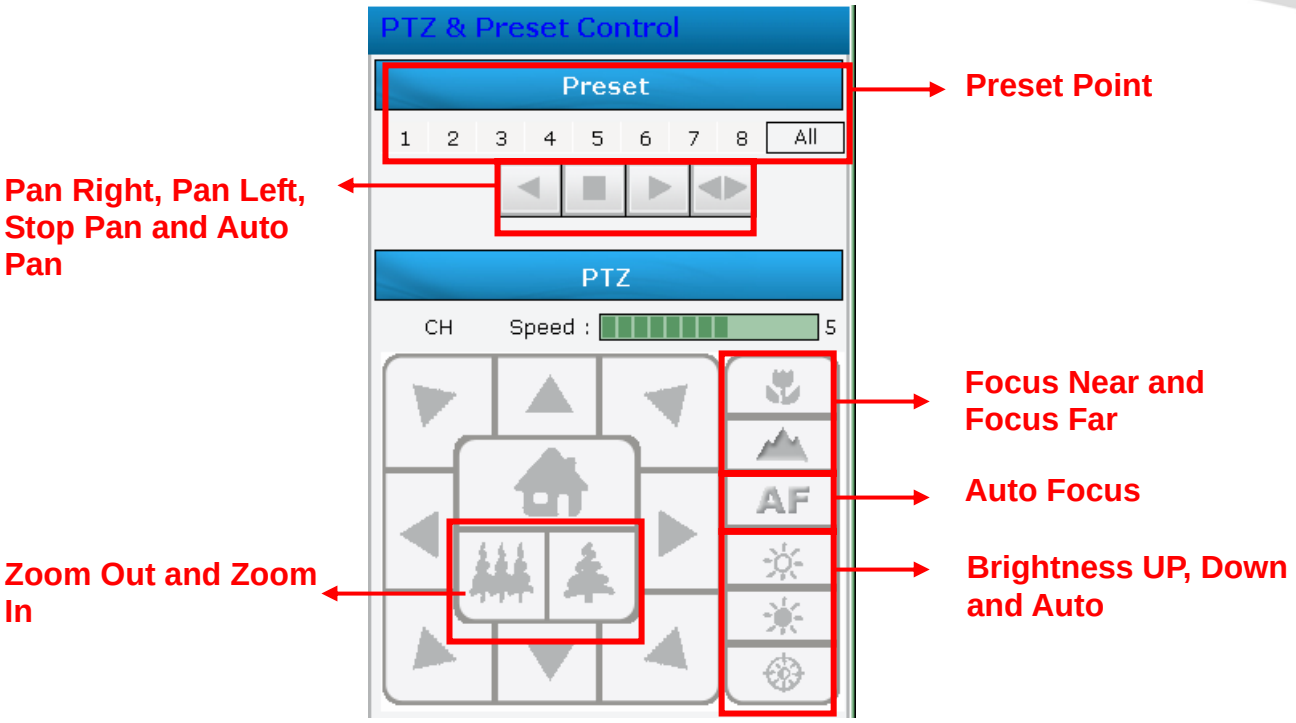
1. Click “Screen Assign” from the side menu
2. Assign monitors based on its ID number in the drop-down menu for the listed function pages
3. Access the function pages from the top bar

3.

12.6 PTZ & Preset Control

The software comes with various controls for PTZ cameras. They are provided in the virtual PTZ panel from the side menu. The controls include:

- Pan, tilt, zoom and PTZ speed adjustment
- Preset points (total 8) monitor, go to preset “Home” point and preset sequence viewing
- Pan right, pan left, and auto pan
- Manual focus adjustment and auto-focus
- Manual brightness adjustment and auto brightness



The software also offers a more intuitive way to control PTZ cameras with the "mouse-over-video" PTZ controls. That is, users can click (right-click) on the video to pan and tilt view points, and to use the mouse scroll button to zoom in/out.

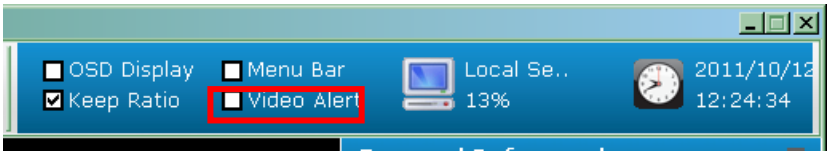
This feature is only available for PTZ cameras and you can tell it is available when the "red cross" and "red arrow" are shown on the video:

Note: The closer the red arrow is to the Red Cross, the lower the PTZ speed will be applied

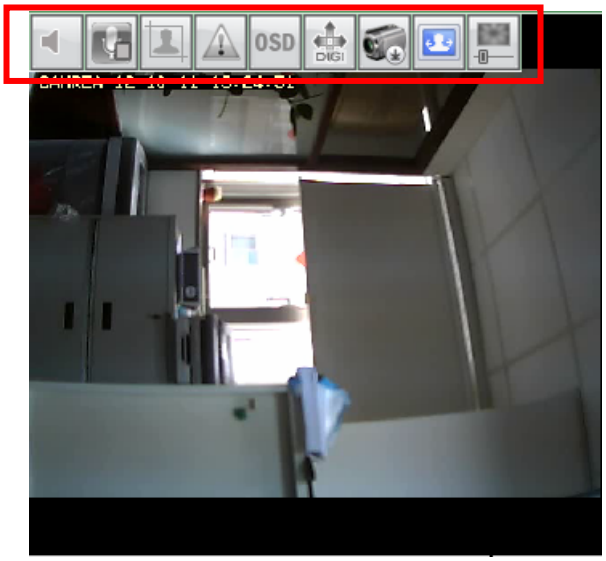
Note: For "non-PTZ" comer- as, the software provides the "digital PTZ" function which is mentioned in page.

12.7 Video Window Control Bar

The software provides a “quick access” to certain functions for live videos with a “mouse-over-video” control bar. This function is turned off by default and can be turned on from the top bar (as shown below):



Once enabled, hover the mouse onto any video window and the control bar should appear on top of the video window:



The control bar provides the following functions:

1. Turn on/off audio
2. Audio post
3. Snapshot
4. Display warning on video when an event is triggered (On-Video Event Display)
5. Display OSD
6. Digital PTZ
7. Start/stop manual recording
8. Keep ratio
9. Image enhancement

Audio

If a camera does not support the audio function, a pop-up message will be displayed when the audio button is clicked. This is to notify the user that this channel does not support the audio function.

Snapshot

When this button is click, the software takes a snapshot of the video. A new dialog should appear and display the snapshot of the video:

Event Display

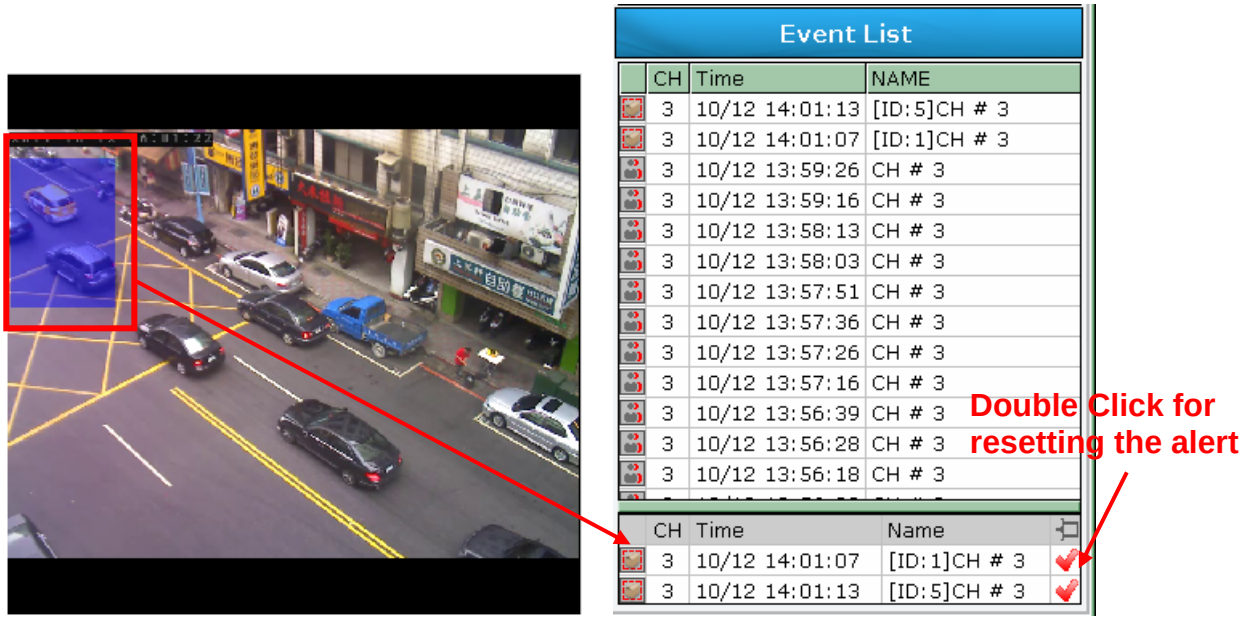
The event display is a function that helps users quickly identify when there are events going on one or more channels. The movement in the video will be marked with small green cubes:

Note: Event must be enabled and configured in the “Config Wizard” before this function can work properly. Please see chap 4 for further information about Intelligent Setting.

Note: You can also enable “Event Display” on all channels by checking “Video Alert” from the top bar.

Certain types of events will be displayed under different section at the bottom of the event display list. They are:

1. Camera Tampering Detection
2. Object Loss Detection
3. Foreign Object Detection

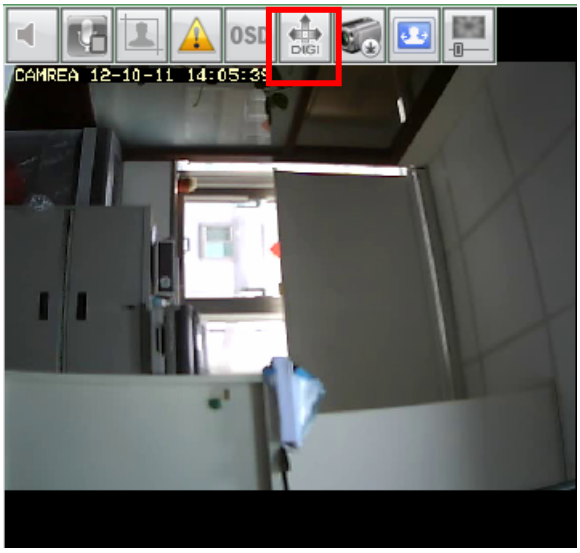


The reason for this is that the software needs the users to manually acknowledge the events detection for the detection to be reset and start detection over again. Without users manually acknowledging the detection, the warning would stay on the screen in case the users are not in front of the monitor and can then be reminded when they return.

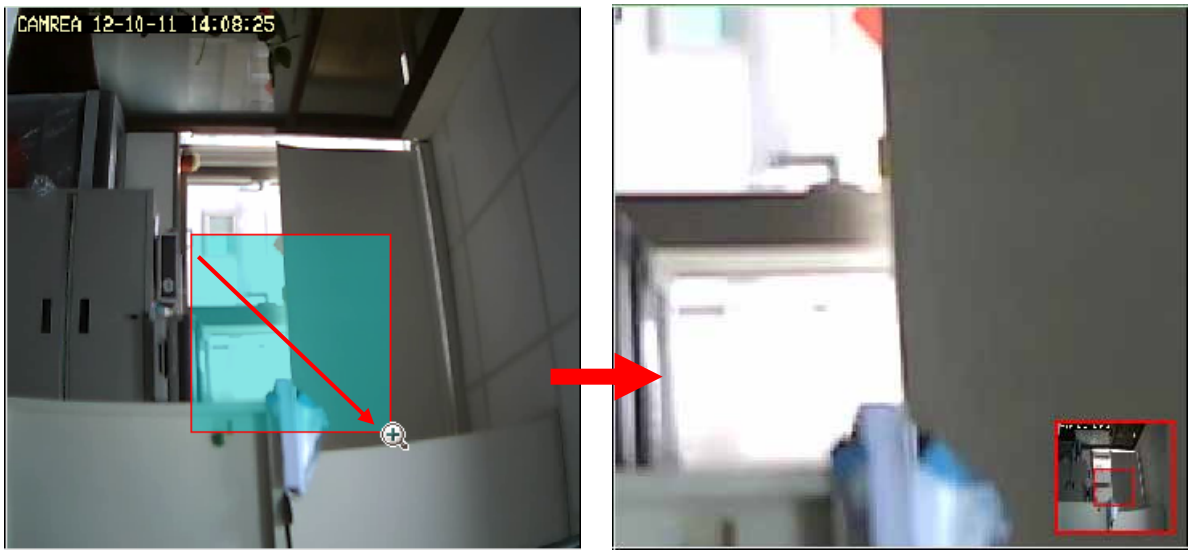
To acknowledge the detection, simply double-click on the red check mark and then the detection would be reset.

Digital PTZ

To use digital PTZ, enable the function from the video window control bar first:



The mouse cursor should turn into a magnifier when you hover the mouse onto one of the video windows. Click and drag diagonally on an area you would like to zoom in:

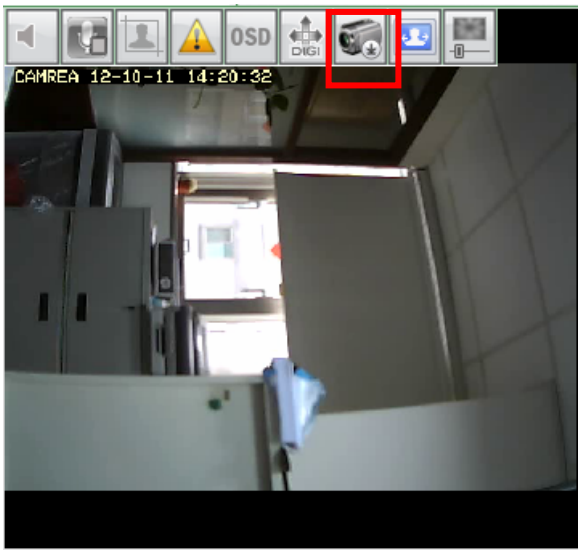


Note: Once the video is zoomed in, the mouse cursor will turn into the icon which you can click and drag to move within the zoomed area.

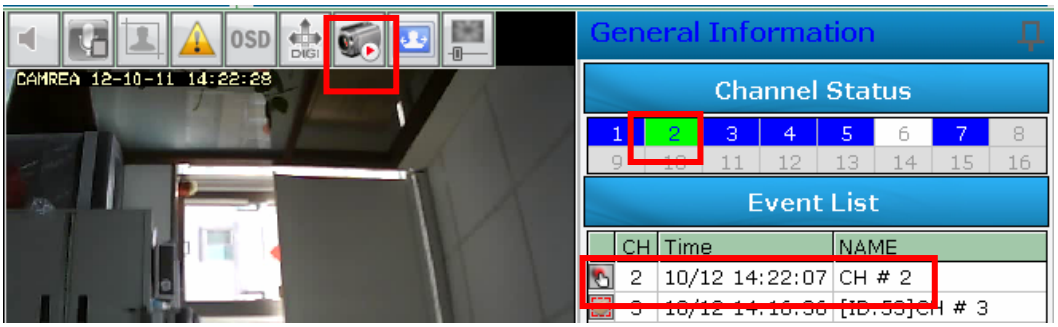
Note: Use the scroll button on the mouse to zoom in further or zoom out. Right click on the video to exit the digital PTZ mode.

Manual Recording

You can quickly start manual recording from the video window control bar when seeing something abnormal from the live video. Click the same button to stop:



Once the manual recording starts. You can find the corresponding changes in the UI in “Channel Status” and “Event List” from the side menu.



Channels marked in green means “manual recording” is currently in progress.

Image Enhancement

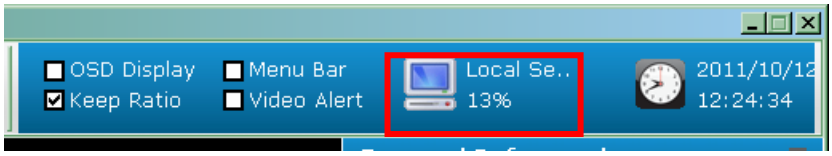
This function is aimed to improve the interpretability or perception of information in images for human viewers. Simply enable this function from the video window control bar to see the difference:

Off

On

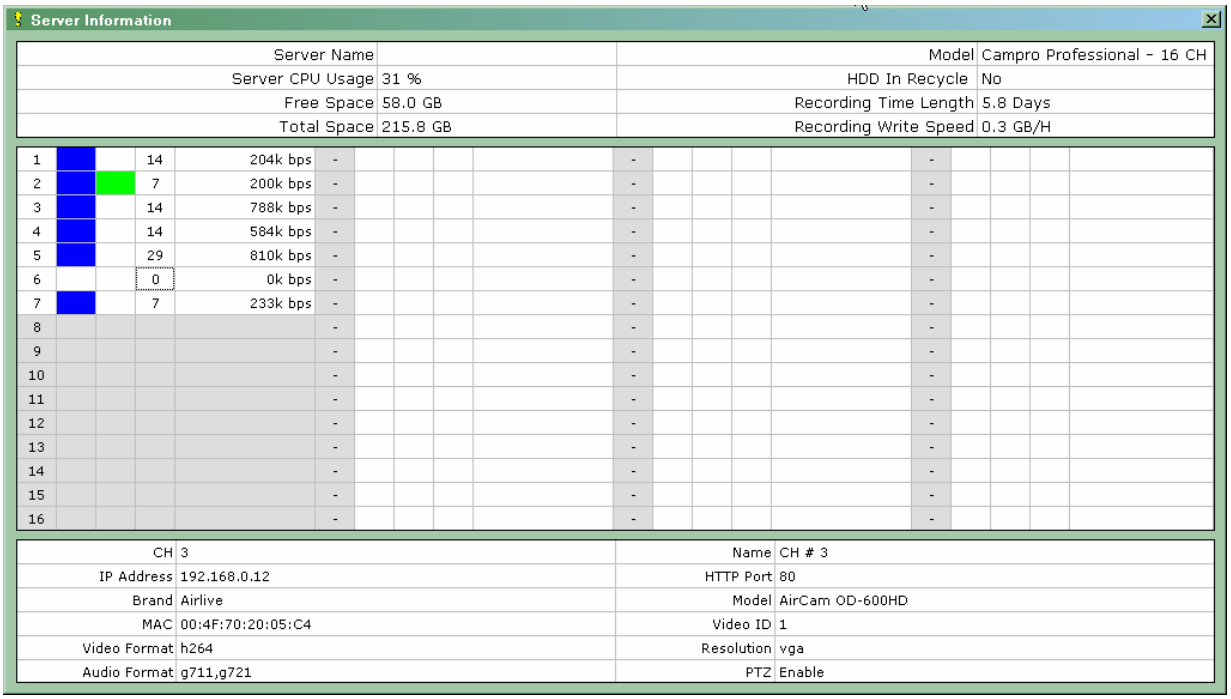
12.8 Server & Channel Status

You can obtain the detail information about the server and the current status of each channel by clicking “Local Service” from the top bar:



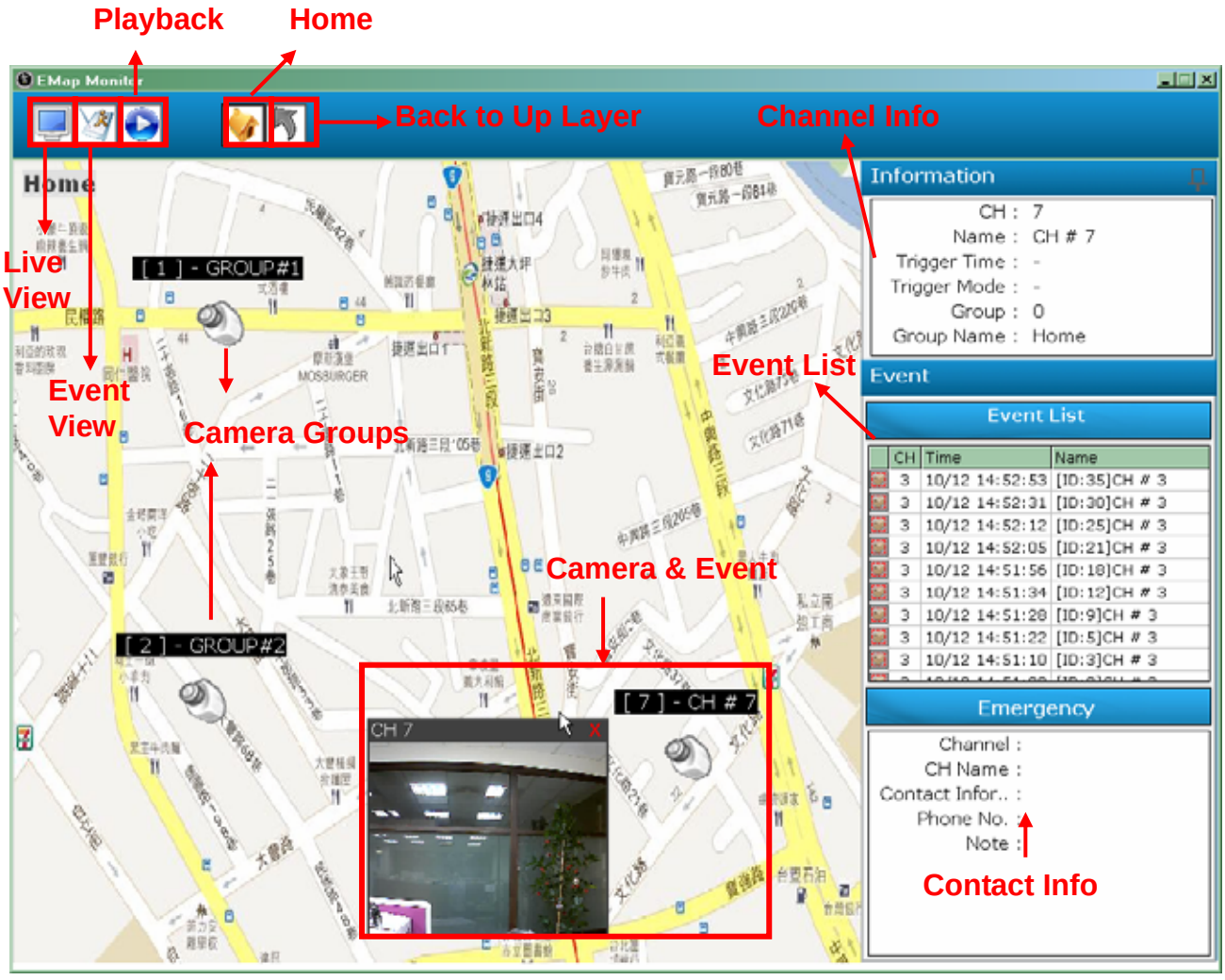
It opens up a new dialog which displays detail information of the followings:

- Server CPU usage
- Total Bandwidth consumption
- HDD usage and recycle status
- Channel number and name
- Channel IP address
- Channel Status (Connected/Disconnected/Recording...etc)
- BitRate consumed by each channel
- Current frame rate of each channel

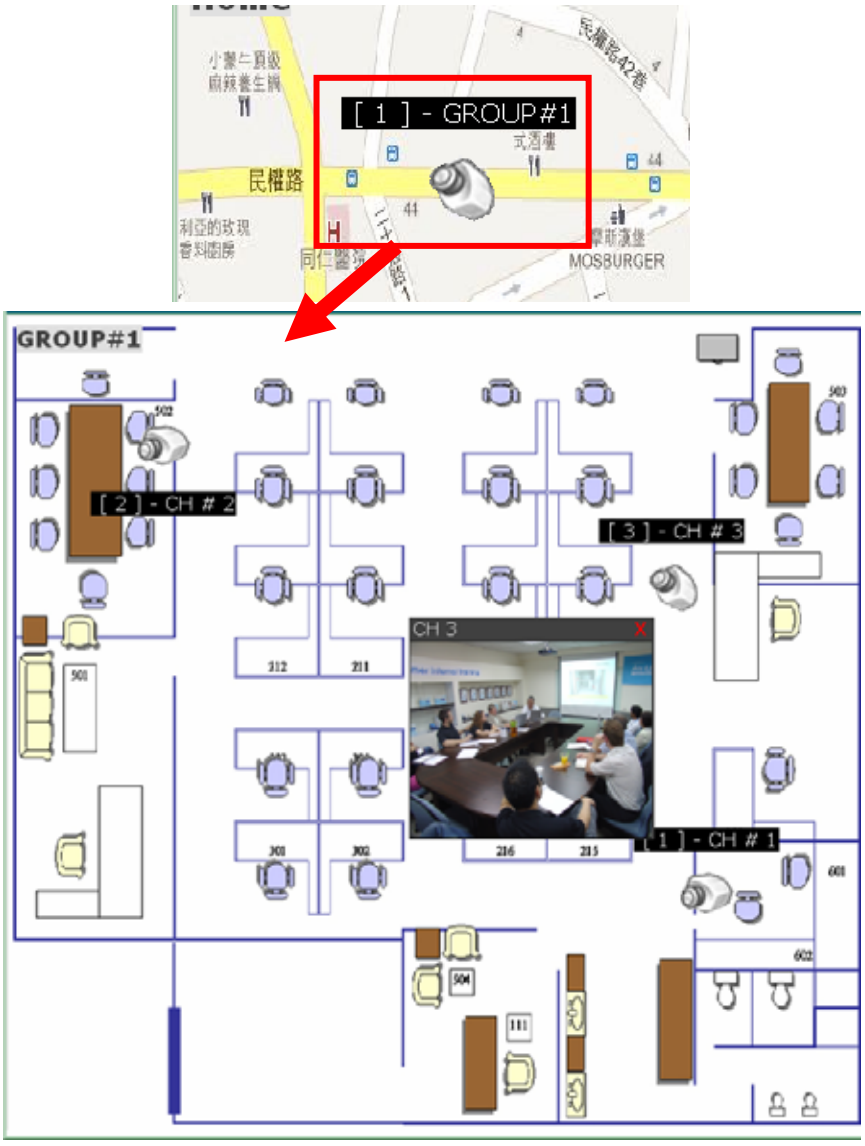

Server Information
Server Name
Server CPU Usage 31 %
Free Space 58.0 GB
Total Space 215.8 GB
Model Campro Professional - 16 CH
HDD In Recycle No
Recording Time Length 5.8 Days
Recording Write Speed 0.3 GB/H
1 14 204k bps
2 7 200k bps
3 14 788k bps
4 14 584k bps
5 29 810k bps
6 0 0k bps
7 7 233k bps
CH 3
IP Address 192.168.0.12
Brand Airlive
MAC 00:4F:70:20:05:C4
Video Format h264
Audio Format g711,g721
Name CH # 3
HTTP Port 80
Model AirCam OD-600HD
Video ID 1
Resolution vga
PTZ Enable

13 E-Map Monitor

E-Map Monitor provides monitoring with instant event notifications with the geographical information of each camera (and camera group). Small-sized video of a channel will be shown on the map during a trigger of an event.



The E-Map Monitor displays the top layer of e-map by defaults. Double-click on the camera group icon to go down a layer and enter the e-map of the camera group.

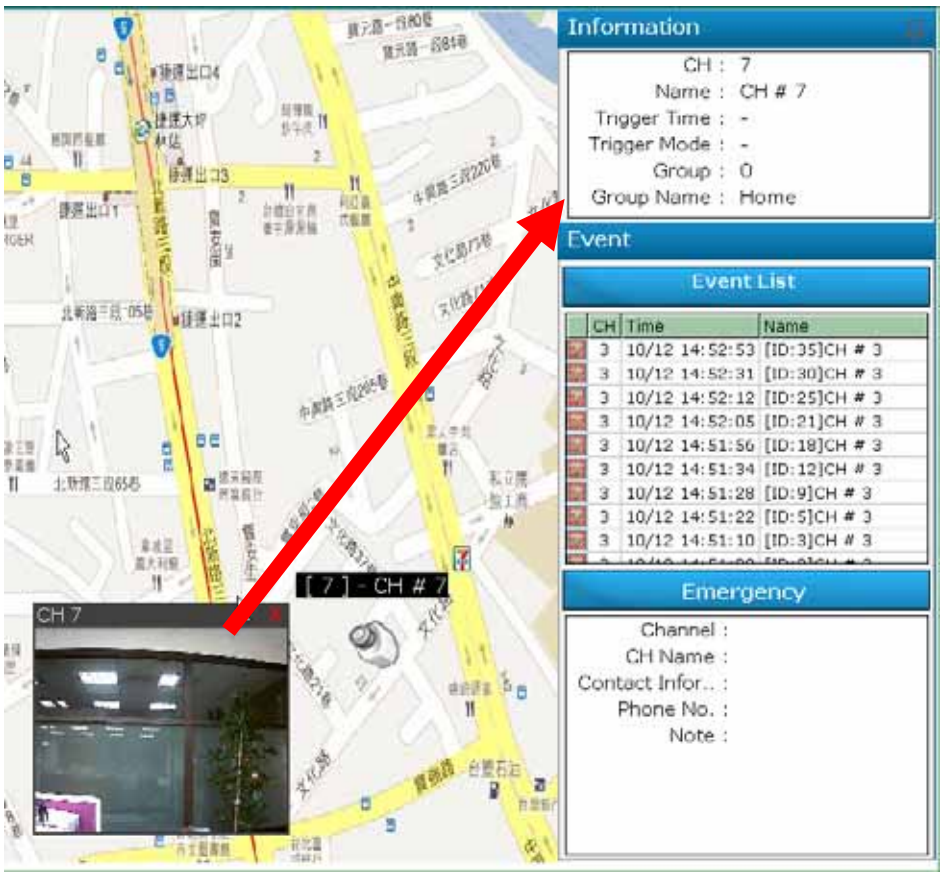


Note: Press on the “Home” button to go back the “Home” layer or the “Previous” button for previous layer.

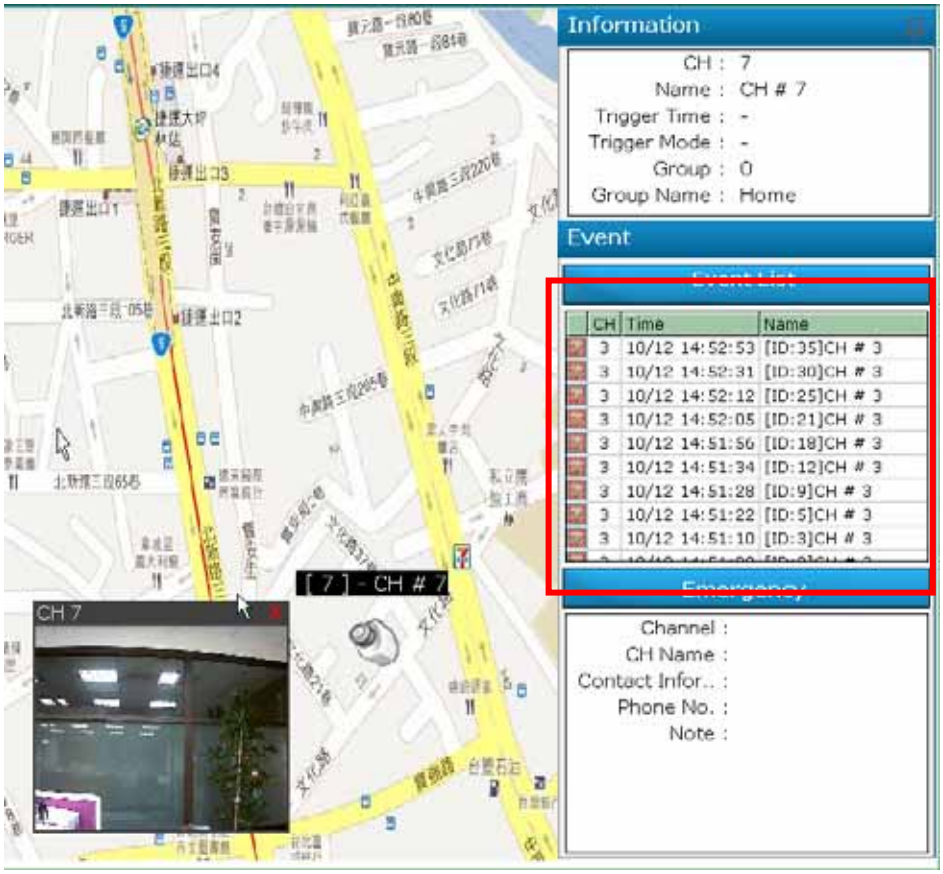
When there is an event going on, the camera icon (or the camera group icon) will be surrounded with red square flashes on the map:

Double-click on the “camera group” icon will direct you to the emap of that camera group
Double-click on the “camera” icon” will display the small-sized video of that channel.

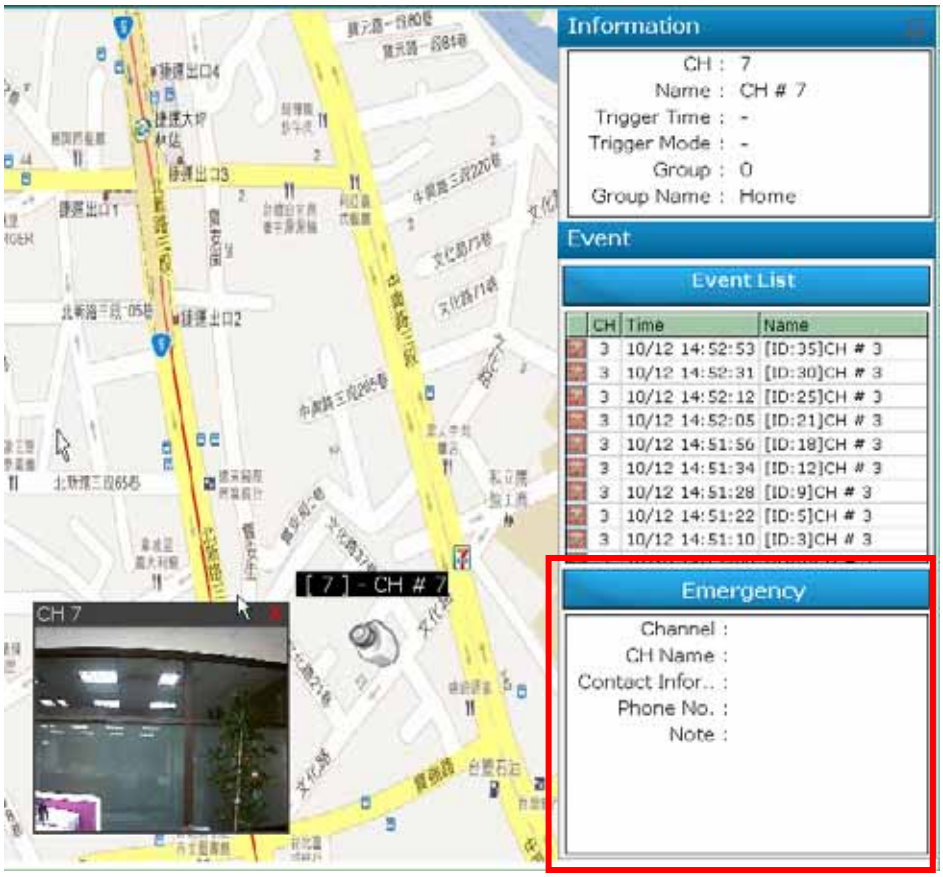
Once the “camera” icon is clicked, its channel information and event trigger information will be displayed on the side bar:



The triggered events will be listed on the side bar:



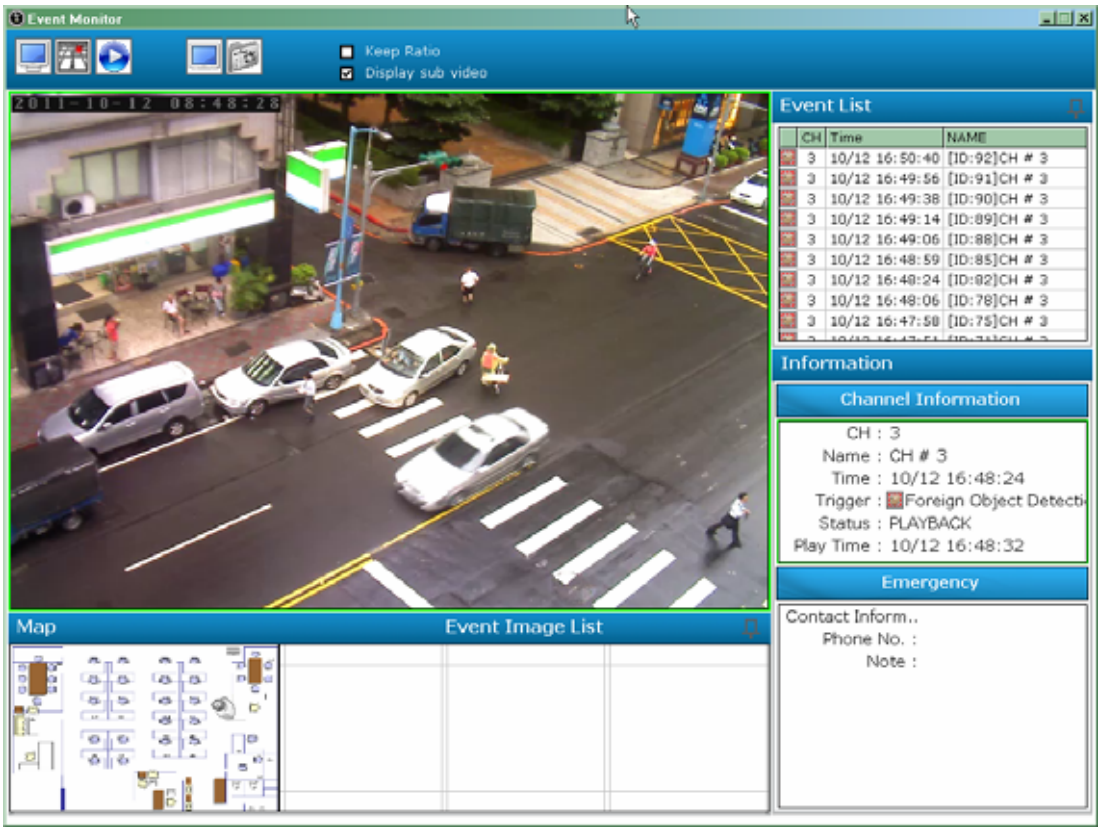
The contact info of the channel will also be displayed on the side bar if this has been configured in the “Config Wizard”:


Information
CH : 7
Name : CH # 7
Trigger Time : -
Trigger Mode : -
Group : 0
Group Name : Home
Event
Event List
CH Time Name
3 10/12 14:52:53 [ID:35]CH # 3
3 10/12 14:52:31 [ID:30]CH # 3
3 10/12 14:52:12 [ID:25]CH # 3
3 10/12 14:52:05 [ID:21]CH # 3
3 10/12 14:51:56 [ID:18]CH # 3
3 10/12 14:51:34 [ID:12]CH # 3
3 10/12 14:51:28 [ID:9]CH # 3
3 10/12 14:51:22 [ID:5]CH # 3
3 10/12 14:51:10 [ID:3]CH # 3
Emergency
Channel :
CH Name :
Contact Infor.. :
Phone No. :
Note :
[7] - CH # 7
CH 7

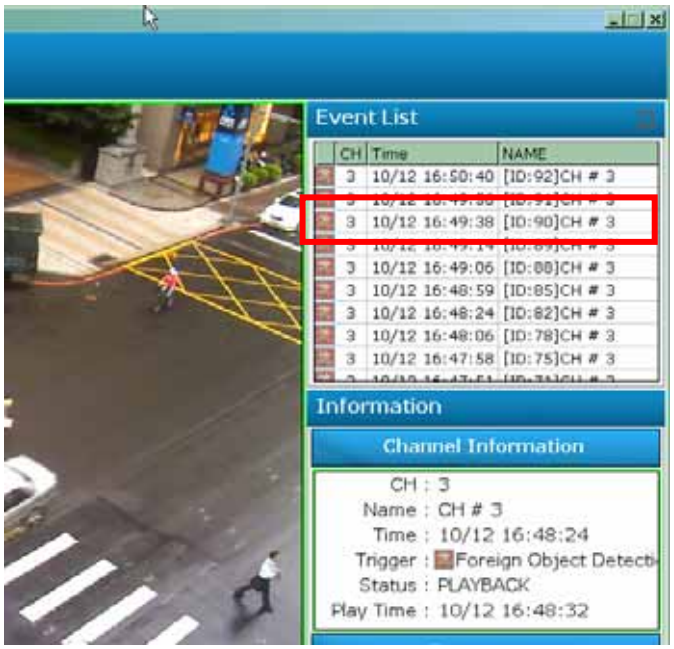
14 Event Monitor

14.1 Live Event Monitor

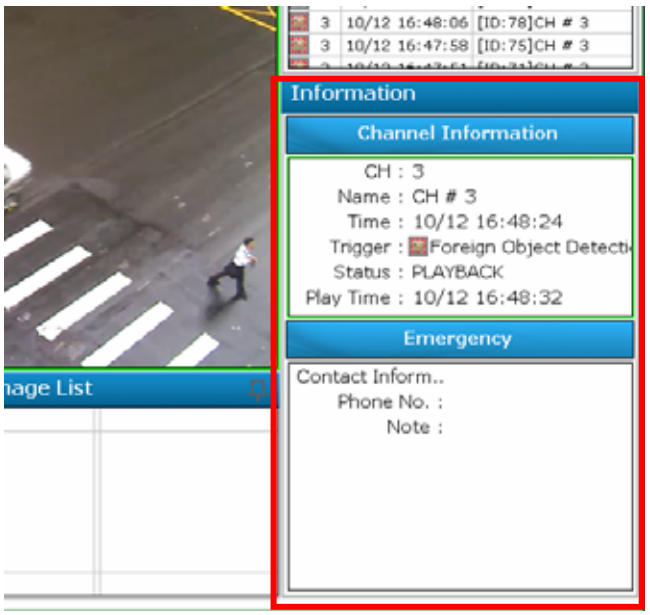
Event Monitor is a function that plays back “event only” videos. It’s a convenient tool that allows users to play through a list of event recordings that are happening at the moment:



Events will be listed on the side bar and clicking on any one of them will instantly play back the recording:



The channel information and contact information of that particular channel will also be displayed on the side bar:

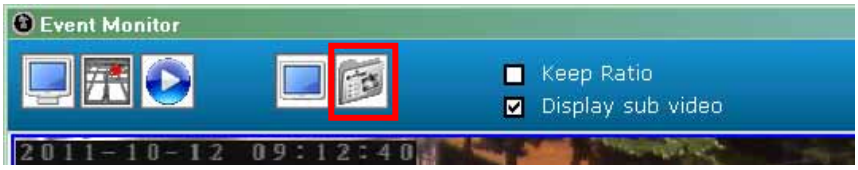


The software also displays thumbnail images of the most recent events. The images get replaced whenever there are new events coming in:

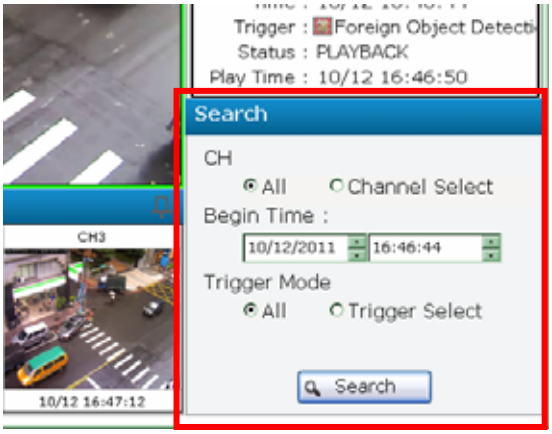
The mini-sized E-Map available at the lower-left hand corner displays the location of the camera:

14.2 History Event Monitor

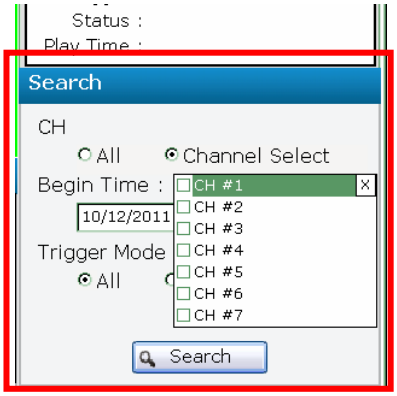
By default, the Event Monitor page displays “live” events which, events listed on the side bar gets refreshed automatically whenever new events are triggered. If you want to access the older events without going to the Playback page, you can access the “History Events” from the top bar in Event Monitor page:



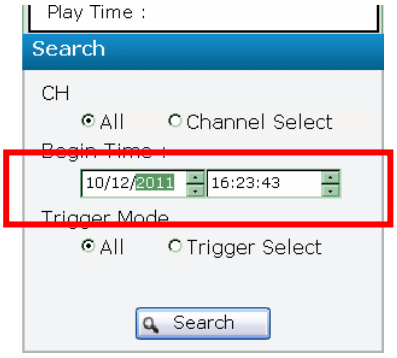
The History Event page should be displayed with the similar user interface with only the difference of letting users to “search” the older events. The search function is available at the lower-right hand corner on the side bar:



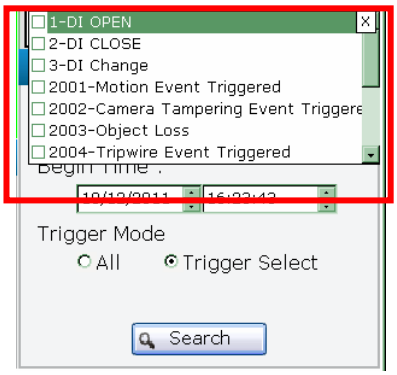
To perform search, select which channels to perform search on by choosing either “ALL” or “SELECT”, which gives you a drop-down menu to select channels:



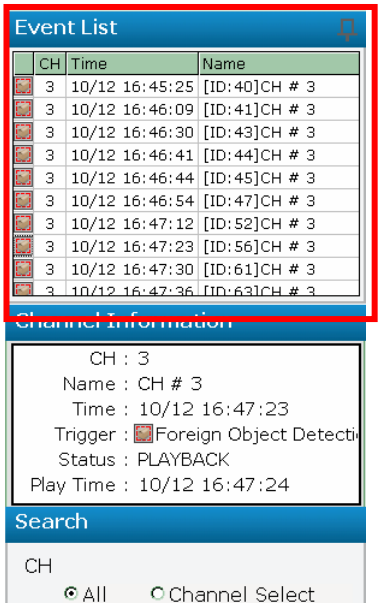
Then determine a start time:



Finally, you can either search all events or set up a filter to search a particular type of event only:



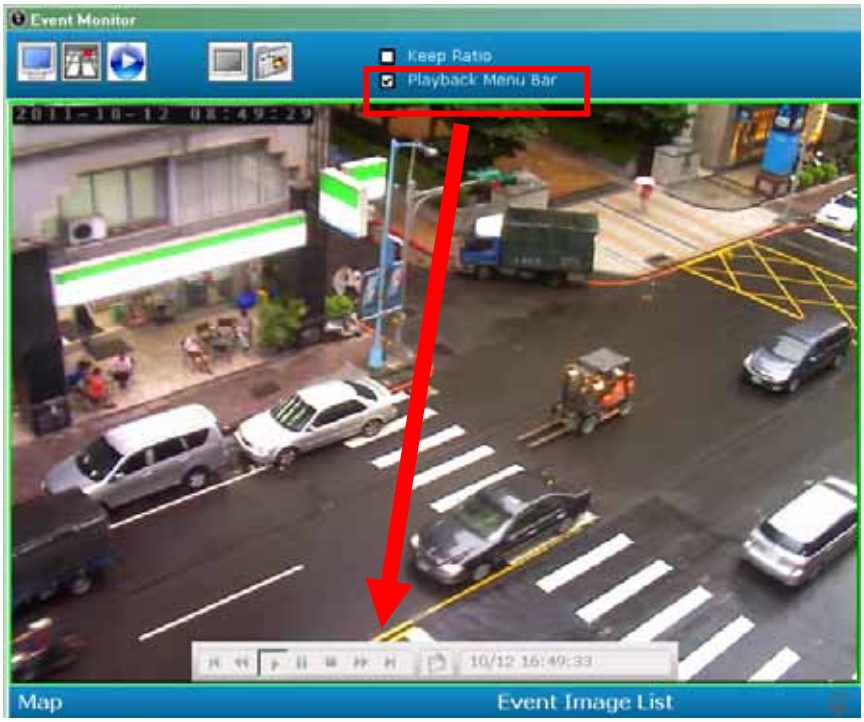
Results will then be listed. Simply click on to start playback:



Playback should then start and the corresponding channel information and camera's geographical information would also be displayed accordingly:

The "Event Image List" at the bottom would display the thumbnail images of the events with the time that is the closest to the event trigger time of the channel that was just selected for playback

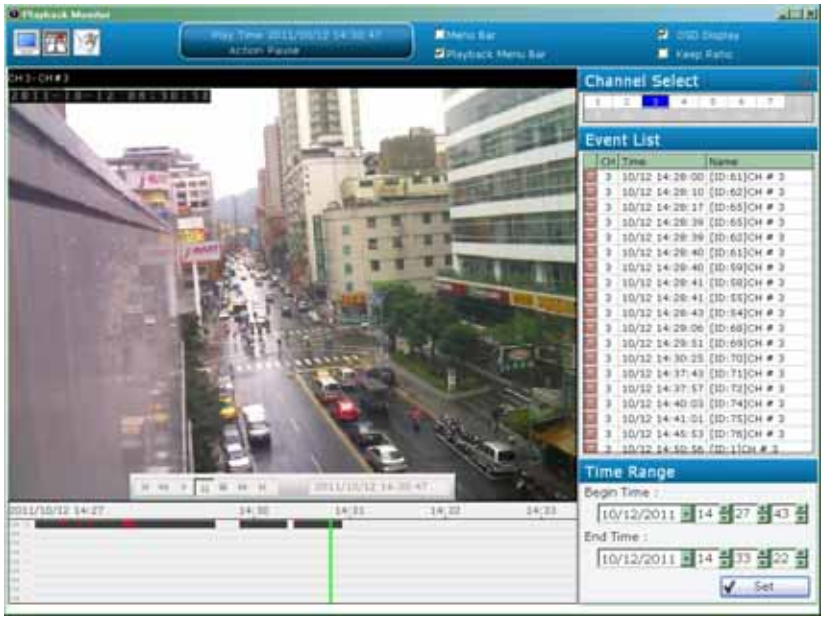
For control of the playback, check “Playback Control Bar” from the top and it should appear in the playback video window:



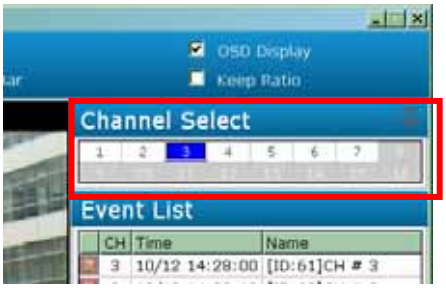
15 Playback

Playback provides functions to allow users to playback all recording data of all channels while offering additional features to assist users to find what they are looking within the shortest period of time and to enhance the playback experience. These features are:

- Display all available recording data at the bottom and display “event only” recordings of the selected channels on the side bar
- Capture screenshot
- Digital PTZ
- Image Enhancement

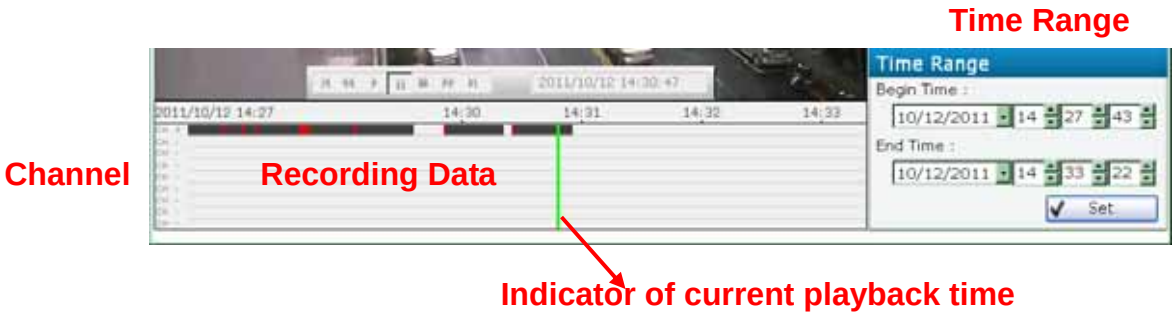


To start search recordings, simply select desired channels from the channel list at the upper-right hand corner:



As soon as the channels are selected, their recording data should be display in the bottom bar as well as the side bar (If there are event recordings):

About the time bar at the bottom:



Recording Data:

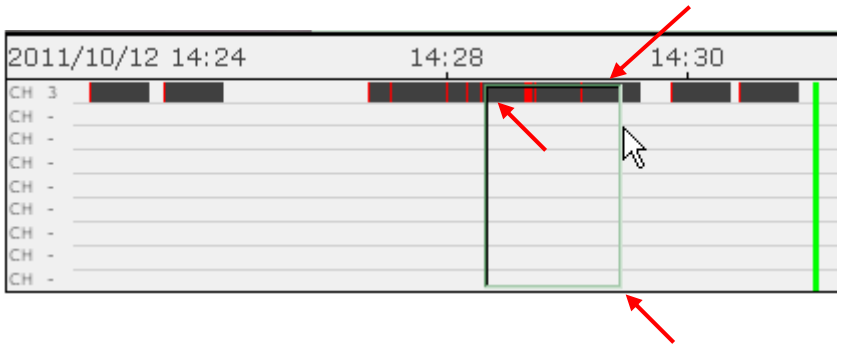
Areas that are marked in dark gray: regular recording data

Areas that are marked in red: event recording data

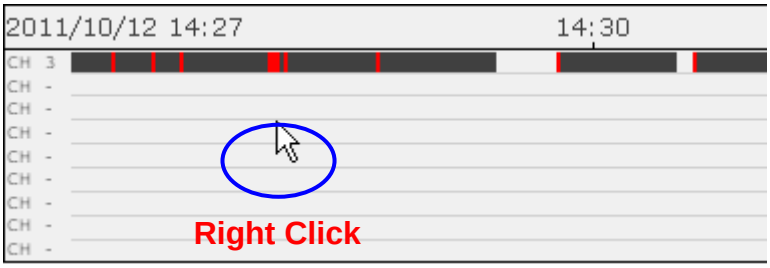
Green Playback indicator: indicating the progress of the playback

The time bar displays all recording data from the oldest to the latest. You can then ask the software to display a portion of the recording data by selecting on the time bar. Simply click and hold the mouse, then drag it horizontally to select:

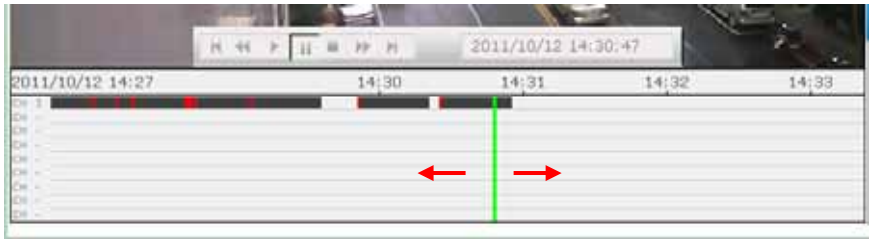
It will then zooms in and display the recording data of that portion. The begin time and end time would also change accordingly.



To go back up a level, simply “right-click” anywhere on the time bar:

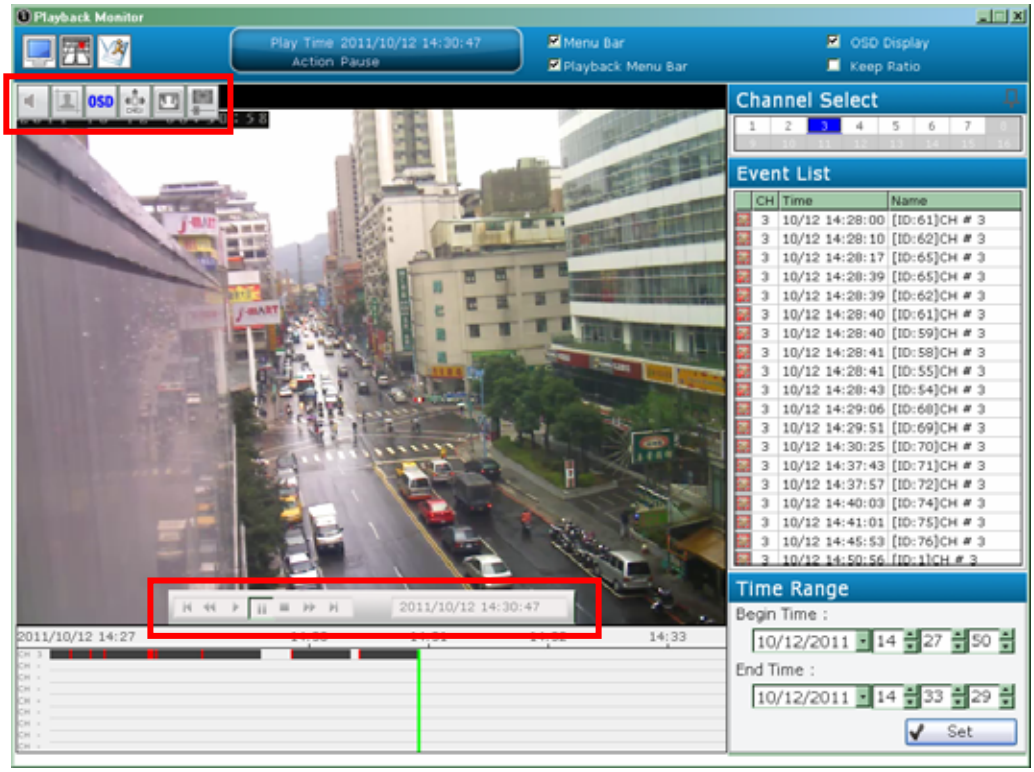


You can click and drag the green indicator horizontally to jump to a specific play time:

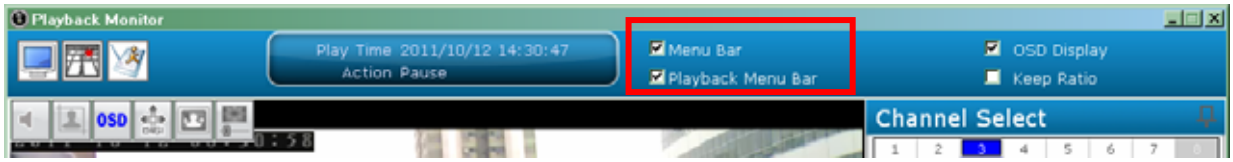


The playback also provides control bars with the following features:

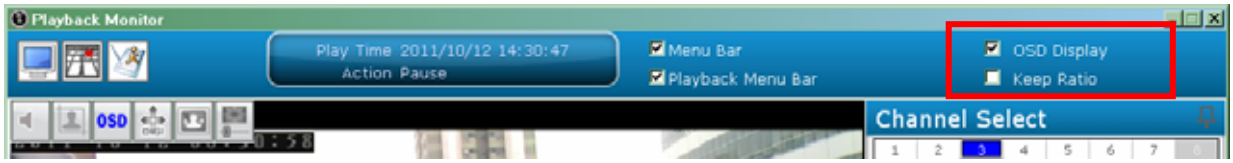
- Playback Control Bar: Single step back/rewind/play/stop/pause/fast forward/single step forward videos
- Playback Video Window Control Bar: Turn on/off audio/snapshot/display OSD/digital PTZ/keep video ratio/image enhancement



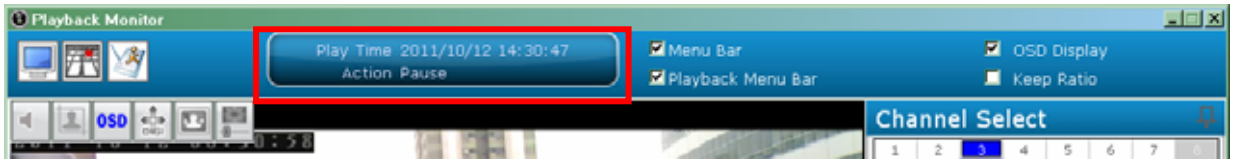
By default, these two control bars are hidden but can be enabled from the top bar:



You can also set to have all playback videos to be displayed in their original aspect ratio and display OSD by checking the options from the top bar:

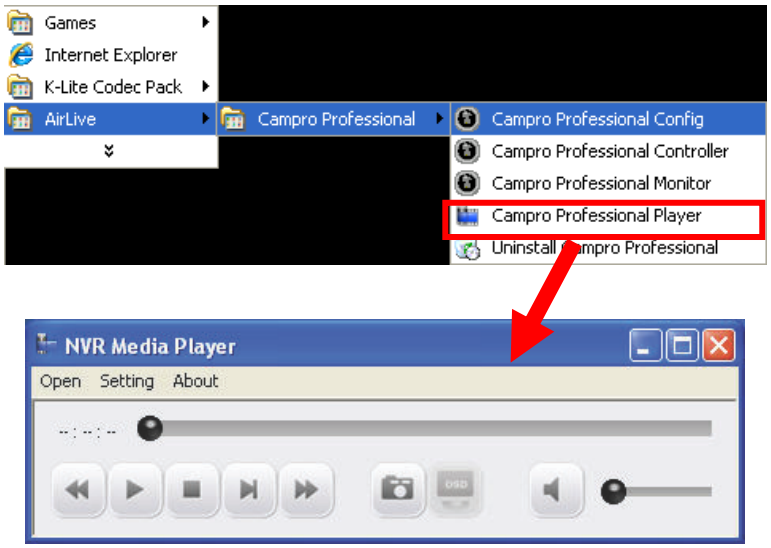


The green indicator in the time bar at the button indicates the progress of the play- back and which portion is being played back. You can find the exact playback time from the top bar:



16 Media Player

The software comes with a player program which plays the recording files that are in their original database file format or in the AVI file format that were exported by the software. You can find the software shortcut under “Start → Programs → AirLive → CamPro Professional”:



16.1 Play the exported AVI file

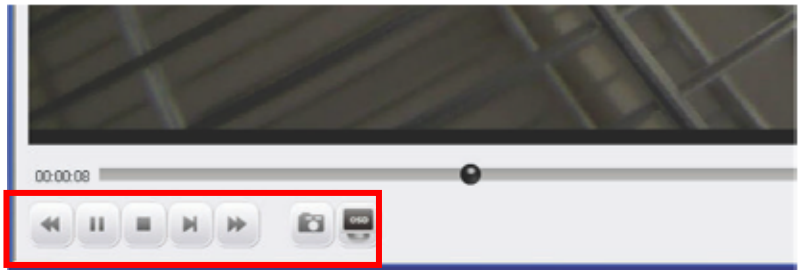
To playback the exported AVI file, go to “Open” >> “AVI File” from the top menu:

A new dialog will be displayed asking you to locate the AVI file. Go to C:\Program Files\<installed path>\AVI as it’s the default directory of where the exported AVI files are saved:

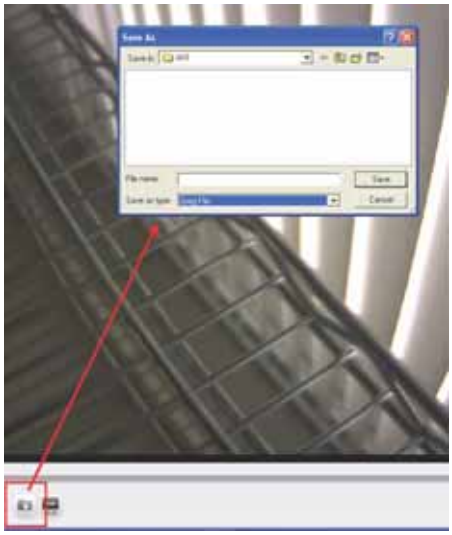
The playback should begin and the video should be played back in its original resolution by default:

Move the indicator horizontally to jump back and forth to a specific time:

Use the control buttons at the bottom to play/stop/pause/rewind/fast forward the video



You can click on the “Snapshot” button at the bottom to take a snapshot of the video:

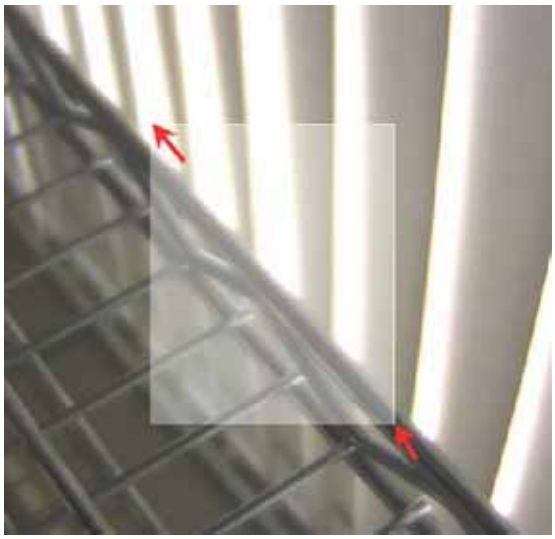


Note: The snapshots can only be saved in “JPEG” format.

Click on the “OSD” button at the bottom displays the OSD on the video:

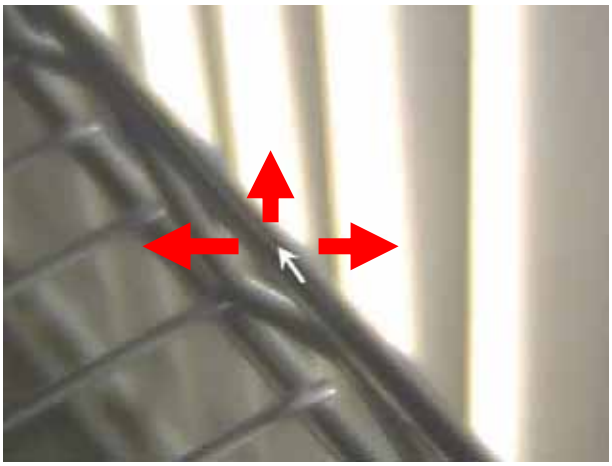
Note: The OSD displays in the upper-left hand corner by default. More settings can be done to it such as font size/color and display position.

The player also supports the digital function. Simply use the scroll button to zoom in/out. You can also click and hold the house then drag diagonally to select a particular area to zoom in.



Draw a square on the video to zoom in a particular area

Once the video is zoomed in, click and hold the mouse button then move the mouse to move the zoomed area:

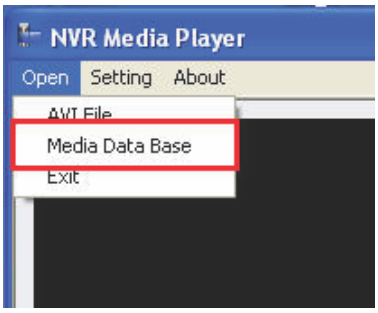


Click and hold the mouse button then move the mouse to move the zoomed in area

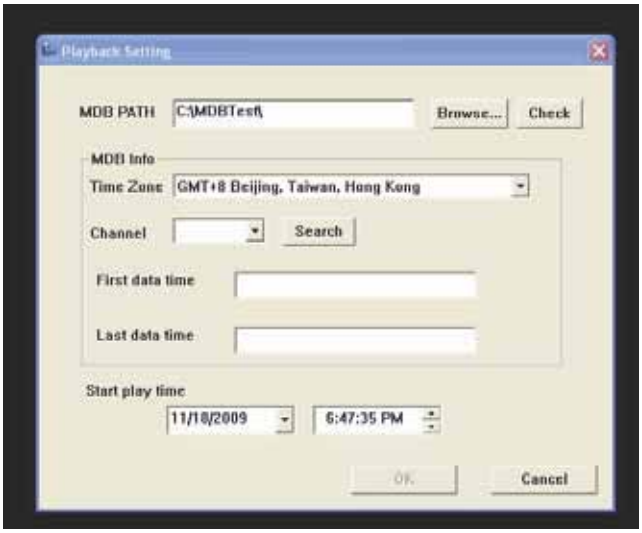
To exit digital PTZ mode, simply right-click anywhere on the video.

16.2 Play the database file

To play the media database file, simply go to “Open” >> “Media Data Base” from the top menu:



A dialog shown like below should be displayed:



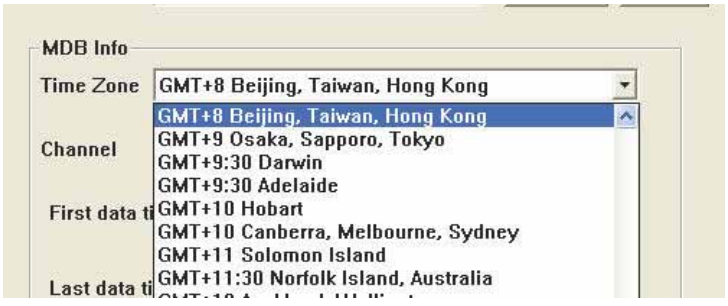
The default MDB path should be displayed. If you have altered the database storage path in the Config Wizard, click “Browse” to locate the new path:

A new dialog should be displayed to allow you to locate the directory of where the database files are stored:

After the directory is selected, click on “Check”:

A pop-up message should be displayed once the database is successfully located (as shown below):

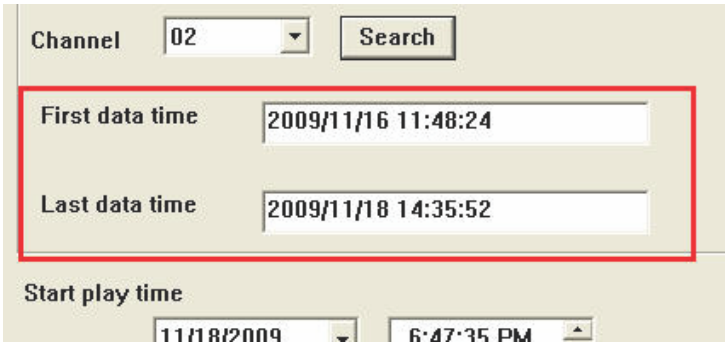
Next, select a desired time zone from the drop-down menu:



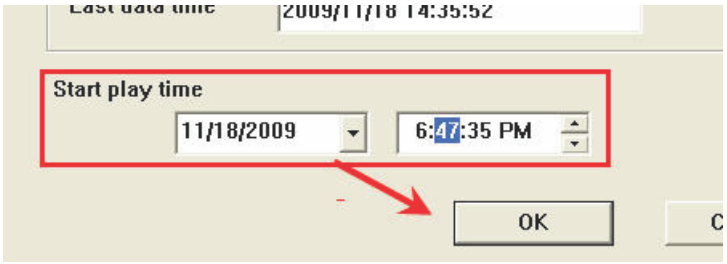
Note: The MDB file does not contain any time zone information. Simply select a time zone based on your current location or select one if you know the time zone of NVR server where the MDB was exported from.

The “Channel” drop-down menu lists only the channels that have recording files available. Simply select a channel and press “Search”:

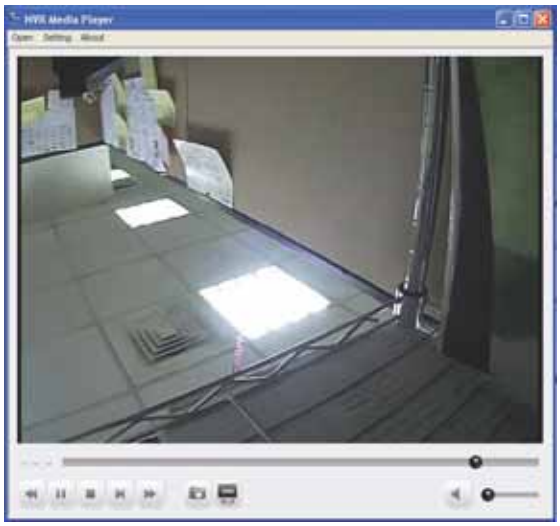
The beginning and ending time of the selected channel should then be found:



Simply specify the “Start Time” within the range of begin and end time and click “OK” to play the database file:



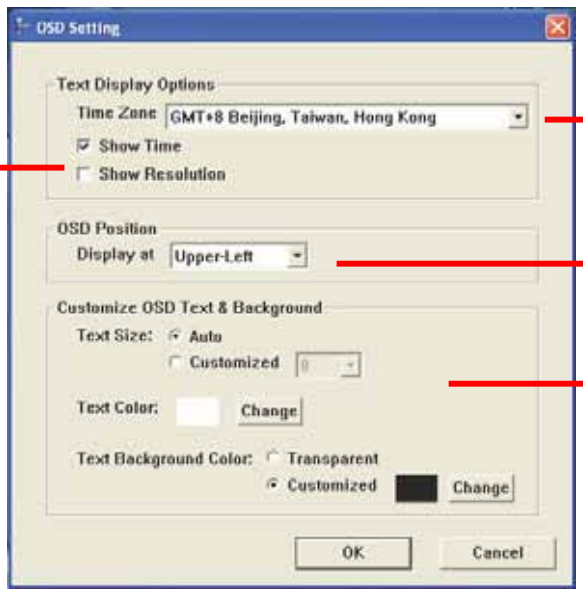
The playback should begin and the video should be played back in its original resolution:



16.3 Configure the OSD Display

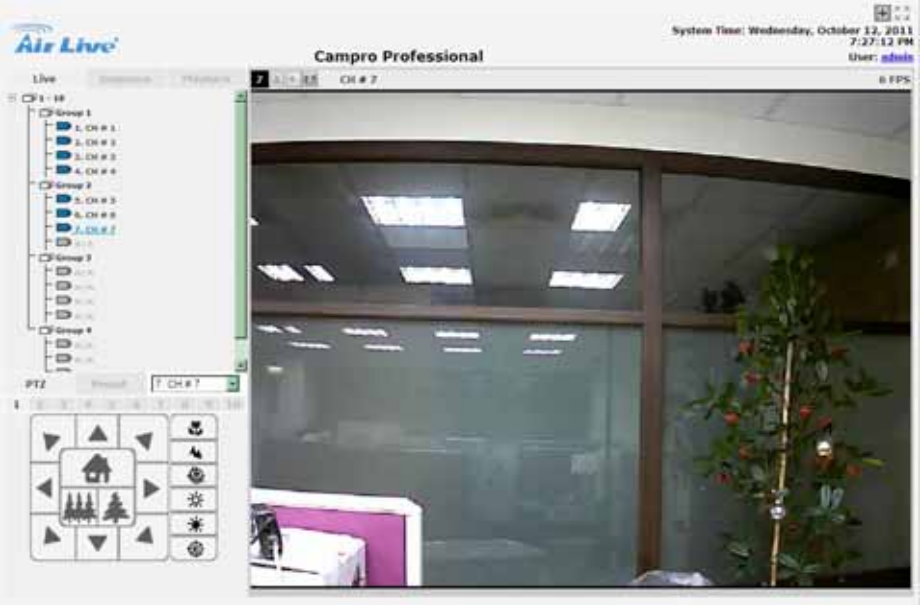
To make changes of how OSD is displayed on the playback video, go to “Setting → OSD” from the top menu:

A new dialog should be displayed which lets you change the OSD setting (as shown below):

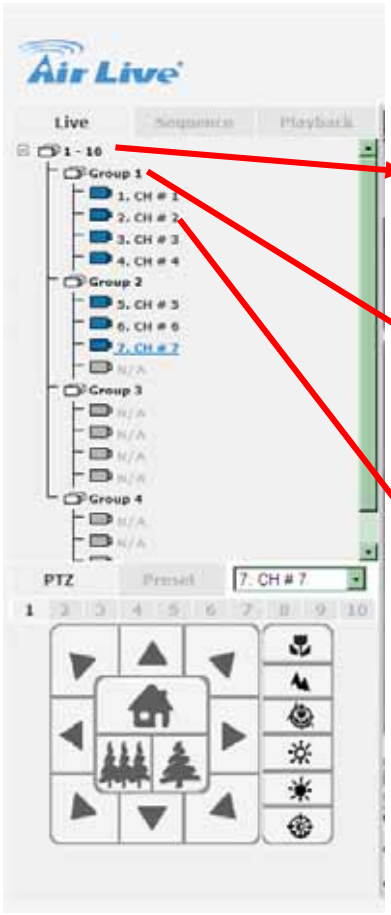


17 Remote Web Access

CamPro has built-in web server which allows users to access the live video and payback video through a web browser remotely. This is convenient be- cause it doesn't require users to install remote application in order to see the live and playback videos.



You can view live videos of up to 16 channels simultaneously through the web browser. As soon as you log in through the web browser, it displays live video of the first available channel in single window view. You can switch the split mode by clicking the camera list on the left:

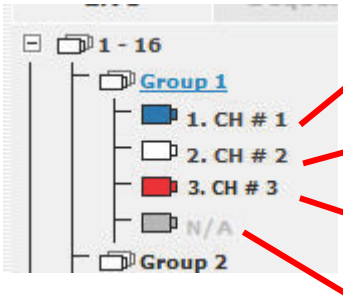


Click to see live videos of first 16 channels in 16 split mode

Click a sub-group to see live videos of the 4 channels in that group in quad window view

Click the camera icon to see the live video of that channel in single window view

The camera icons are marked with different colors representing their current status:



Online

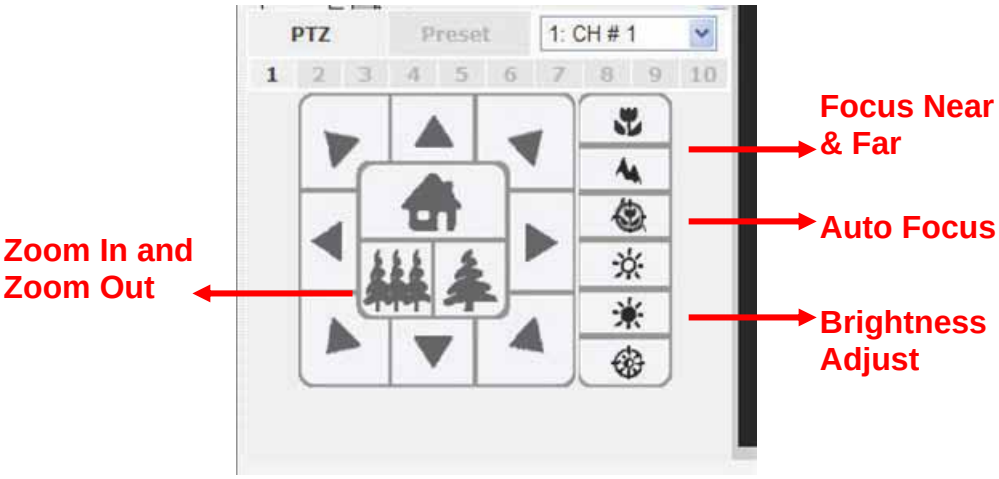
Offline

Recording

Not Configured

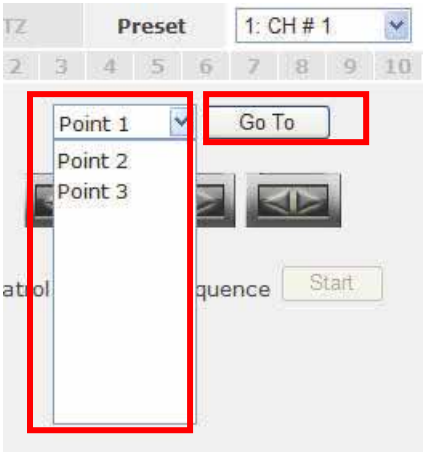
17.1 PTZ Control:

The PTZ control is available at the lower-left hand corner. Select a camera from the drop-down menu to use PTZ control:

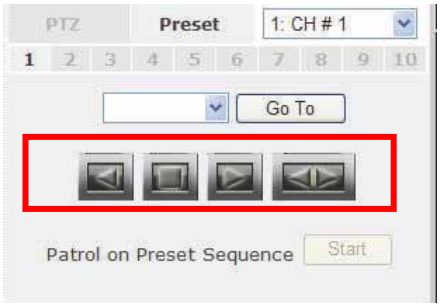


17.2 Preset

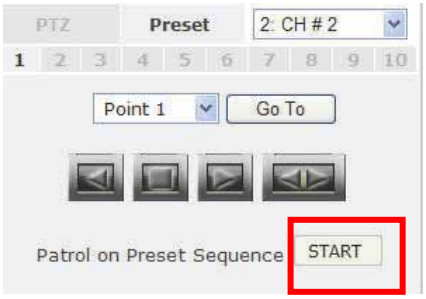
Click on “Preset” to access the preset menu. The drop-down menu should list the available preset points of the selected channel that were previously configured. Simply select one from the list and click “Go to”:



The buttons below the drop-down menu allows you to set the camera to pan right or left automatically or pan 360 degrees if the camera supports such function:

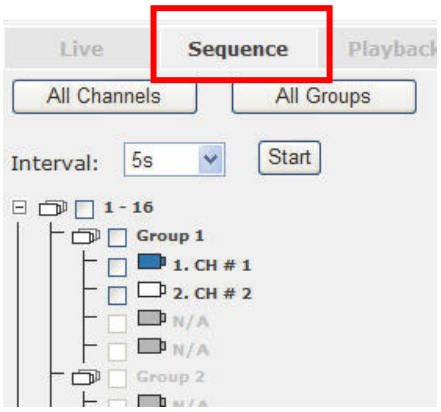


You can also set the camera to “patrol” among the preset points continuously by clicking the “Start” at the bottom:

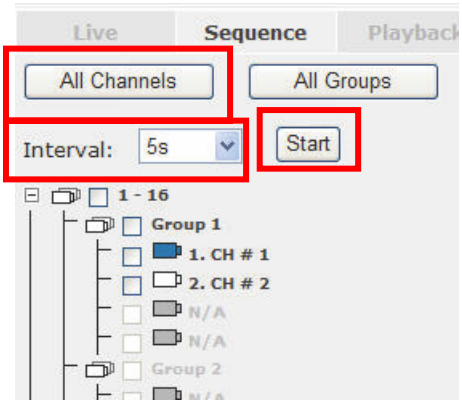


17.3 Sequence Viewing

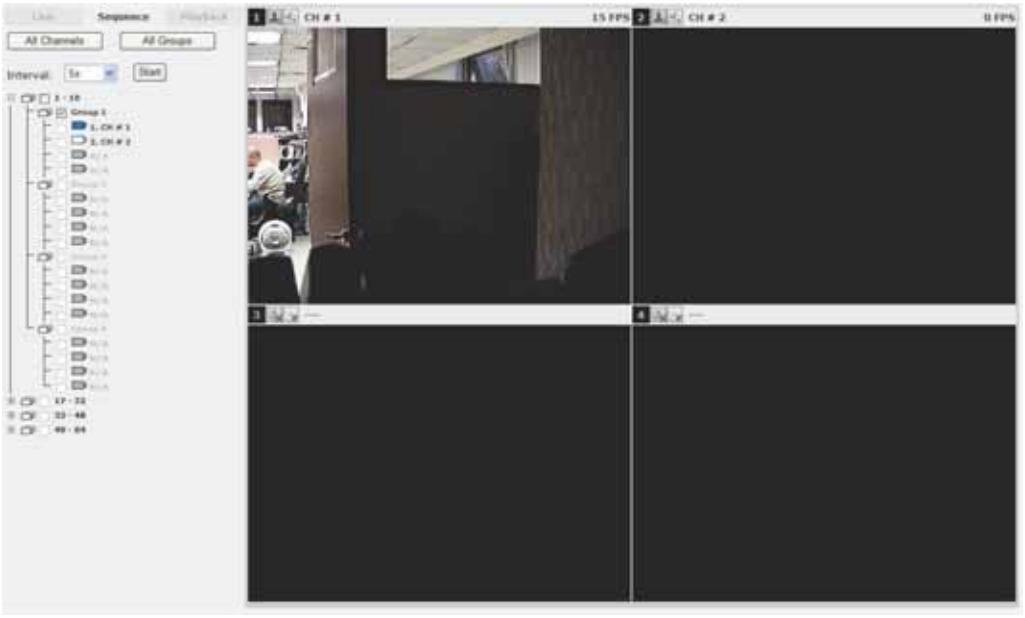
You can also set to view all or selected channels in sequence automatically by going to “Sequence”:



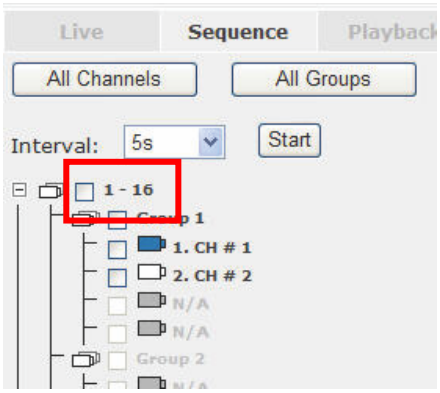
Select “All Channels” to start sequence view on all channels in single window view. You can set the sequence interval by selecting one of the pre-defined options from the “Interval drop-down menu. Click “Start” to begin:



Select “All Groups” to start sequence view in quad window view (4 cameras in one group):



You can also set to start sequence view in 16 window view by checking the “1 - 16”, “17 - 32”...etc checkboxes:

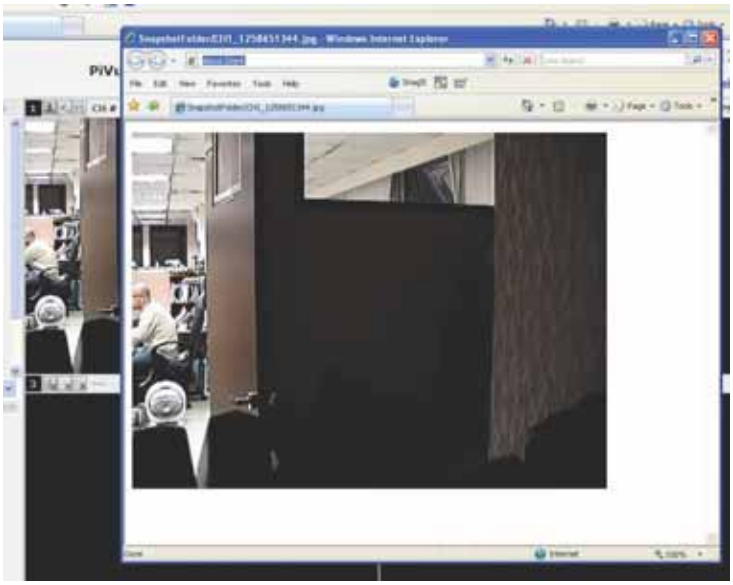


17.4 Video Window Control Bar

Each video window in live view comes with its control bar. The control bar allows users to:

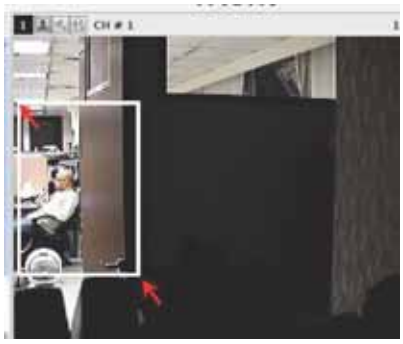
- Take snapshot of the live video
- Turn on/off audio (speaker)
- Turn on/off audio post (Mic.)

To take a snapshot, click on the snapshot icon and a new window should be displayed. Simply close the window to finish as the snapshot will be saved to C:\SnapshotFolder automatically:



17.5 Digital PTZ

The digital PTZ function is supported to all video windows, which you can click and hold the mouse and drag diagonally to draw a square to zoom in a particular area on the video:



Once zoomed in, an icon will be available on the video. Simply click and hold the mouse and then drag to move the zoomed in area to a desired direction:

You can right-click anywhere on the video to exit the digital PTZ mode at any time.

17.6 Keep video in original aspect ratio and full screen

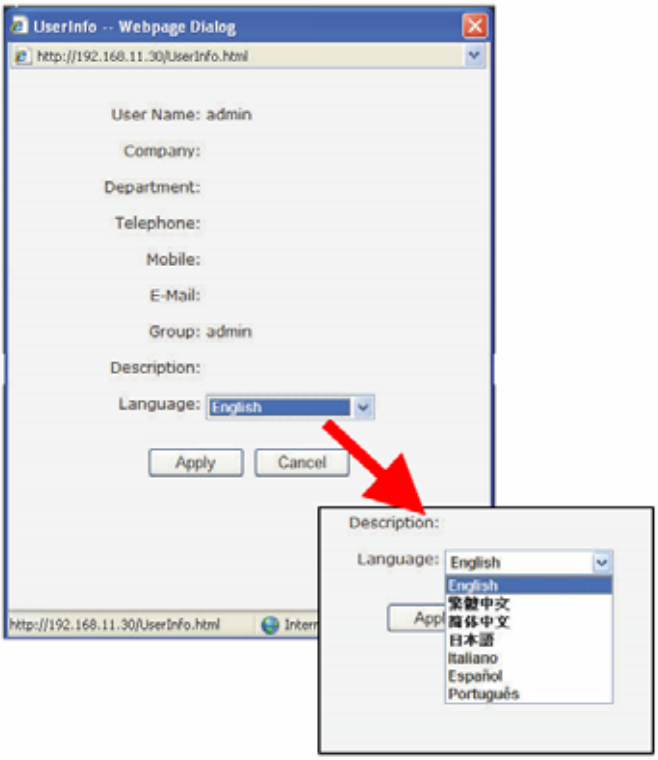
At all time, you can set to display all videos in their original aspect ratio by clicking the function button available at the upper-right hand corner.

To display in full screen, click the button next to it:

17.7 Change display language

The web user interface supports display in different languages. To change the display language, click the logged in user account at the upper-right hand corner:

A pop-up window should be displayed. Please select a desired language from the “Language” drop-down menu and click “Apply”:

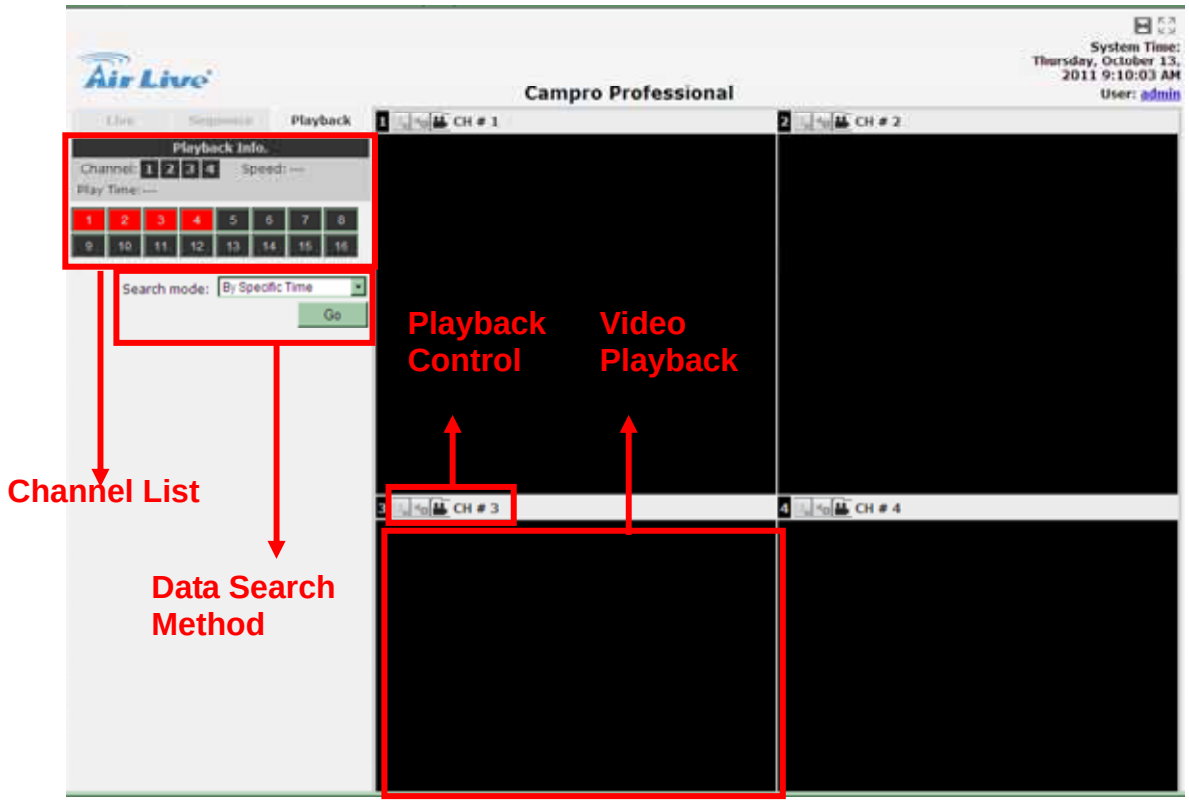


17.8 Playback:

Playback is a function that allows you to play one or more videos that were previously recorded by a chosen recording method or due to an event trigger. The web interface offers synchronized playback from up to 4 channels and various types of search methods are provided to help you find the footage you need quickly.

You can turn on or off the audio of a recorded video at your choice if audio was also recorded during the recording of the video.

Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.



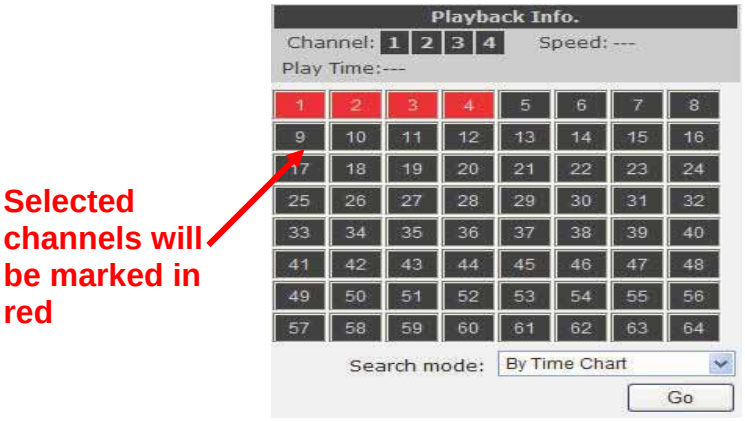
17.9 Methods to search Playback Videos

The NVR offers four methods to quickly help users find videos that were previously recorded:

- Search by time chart: Select a desired date of recording from the time chart
- Search by specific time: Find videos by specifying a start time
- Search by event: Display recording data that were recorded due to event triggers
- Search by event (most recent): Display the most recent event recording data

Search by time chart

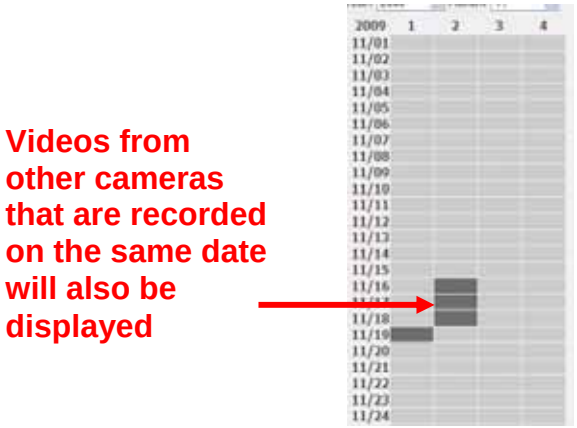
Start by selecting which channel(s) you would like to perform a search on:



Select “Search by time chart” from the “Search Method” drop-down list and click “Go” to start the search:

Results will then be displayed in a “Date/Channel” table and boxes marked in dark gray represent videos found on those dates:

Click on any dark gray cell box should direct you to the hour/channel table if there were multiple videos recorded during that date:

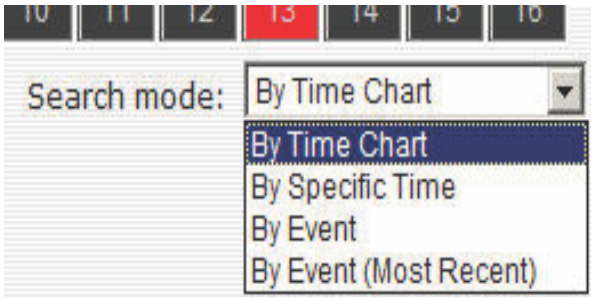


Click on the cell box again will start playing back the videos if you have reached the end of search results:

Videos found from other cameras that were recorded at the same time will also be played.

Search by event

Start by selecting which channel(s) you would like to perform a search on:



Select “Search by event” from the “Search Method” drop-down list and click “Go” to start the search:

Results will then be listed like what is shown below (displays the oldest record top down). Click on a particular result to start the playback:

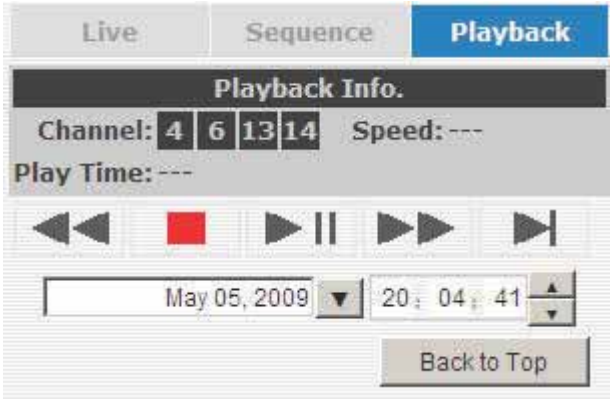
You can click “Next Search” to display the next 15 results.

You may also specify a new start time to search and display results from then on. You can restrict the number of results to be displayed at once (max. 30) and perform the search again.

Play by specific time

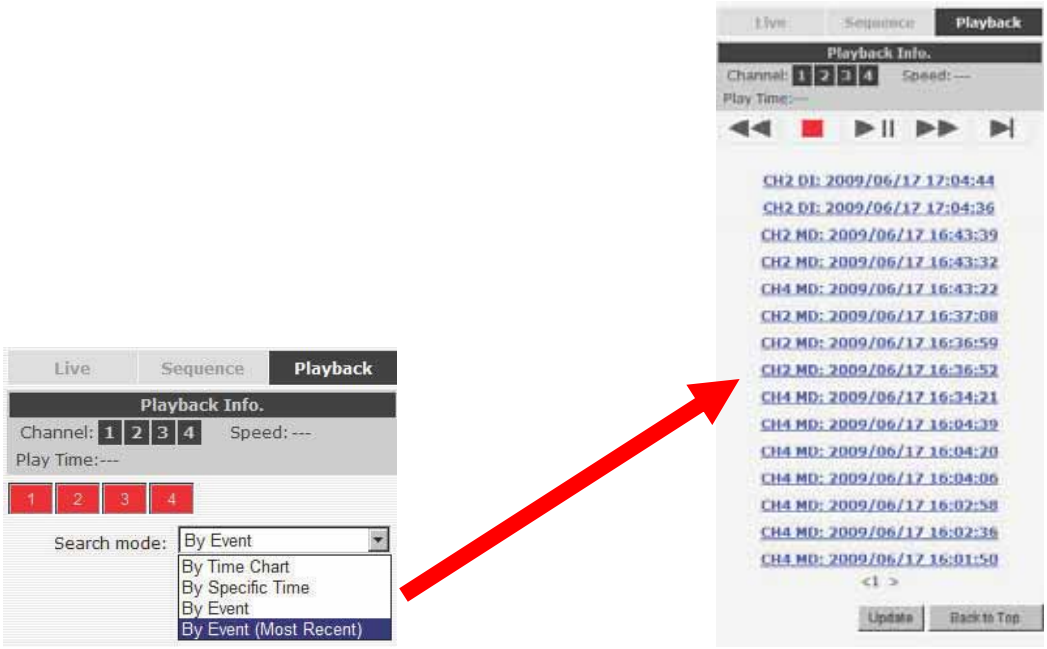
If you know when a recording was taken place, you may choose the “Play by start time” from the “Search Method” drop-down list

Then you will be prompted to enter a specific time and date for the recorded video.



Search by event (most recent)

This function quickly displays the most recent event recordings from the selected channels, displaying the most recent result top down. You may click “Update” to update the list to display the most recent result



A Appendix A: Camera Support List

Brand	Model	Compression	Firmware
AirLive	OD-300CAM	MJPEG/MPEG4	LM.1.6.16.05
	OD-325HD	MJPEG/MPEG4/H.264	5.0.2.3844
	OD-600HD	MJPEG/MPEG4/H.264	5.0.2.3844
	OD-2025HD	MJPEG/MPEG4/H.264	6.D.2.6590
	OD-2025PHD	MJPEG/MPEG4/H.264	6.D.2.6590
	IP-150CAM	MJPEG/MPEG4	LM.1.6.18
	IP-200PHD	MJPEG/MPEG4/H.264	6.B.2.6589
	POE-100CAM	MJPEG/MPEG4	LM.1.6.16.05
	POE-200CAM	MJPEG/MPEG4	LM.1.6.16.05
	POE-100CAMv2	MJPEG/MPEG4	LM.1.6.16.05
	POE-200CAMv2	MJPEG/MPEG4	LM.1.6.16.05
	POE-260CAM	MJPEG/MPEG4	LM.1.6.16.05
	POE-100HD	MJPEG/MPEG4/H.264	5.0.2.3844
	POE-100HD-ICR	MJPEG/MPEG4/H.264	5.0.2.3844
	POE-200HD	MJPEG/MPEG4/H.264	5.0.2.3844
	POE-250HD	MJPEG/MPEG4/H.264	5.0.2.3844
	POE-2600HD	MJPEG/MPEG4/H.264	6.C.2.6590
	WN-150CAM	MJPEG/MPEG4	LM.1.6.18
	WN-200HD	MJPEG/MPEG4/H.264	6.B.2.6589
	WN-2600HD	MJPEG/MPEG4/H.264	6.C.2.6590
	WL-2000CAM	MJPEG/MPEG4	LM.1.6.16.05
	WL-2600CAM	MJPEG/MPEG4	LM.1.6.16.05
	WL-350HD	MJPEG/MPEG4/H.264	MG.1.6.02
	VS-100	MJPEG/MPEG4/H.264	5.a.2.5703
Axis	All dual-stream and H.264 capable cameras	MJPEG/MPEG4/H.264	v4.30 or above
Panasonic (Communication)	BL-C1	MJPEG	1.29
	BL-C10	MJPEG	1.24
	BL-C20	MJPEG	1.3

	BL-C30	MJPEG	1.3
	BL-C111	MJPEG/MPEG4	3.1
	BL-C131	MJPEG/MPEG4	3.1
	BB-HCS301	MJPEG	1.3
	BB-HCM100	MJPEG	1.3
	BB-HCM110	MJPEG	1.30R01
	BB-HCM311	MJPEG	1.3
	BB-HCM331	MJPEG	1.3
	BB-HCM371	MJPEG	1.3
	BB-HCM-381	MJPEG	1.3
	KX-HCM110	MJPEG	1.3
	KX-HCM280A	MJPEG	1.3
	BB-HCM403	MJPEG	1.33
	BB-HCE481	MJPEG	1.29
	BB-HCM511	MJPEG/MPEG4	3.12
	BB-HCM527	MJPEG/MPEG4	3.51R00
	BB-HCM531	MJPEG/MPEG4	3.12
	BB-HCM547	MJPEG/MPEG4	3.51R00
	BB-HCM515	MJPEG/MPEG4	3.11
	BB-HCM580	MJPEG/MPEG4	3.13
	BB-HCM581	MJPEG/MPEG4	3.13
	BB-HCM715	MJPEG/MPEG4/H.264	4.10R00
	BB-HCM715	MJPEG/MPEG4/H.264	4.10R00
	BL-C210A	MJPEG/MPEG4/H.264	4.31R00
	BB-HCM701CE	MJPEG/MPEG4/H.264	4.31R00
	BB-HCM705CE	MJPEG/MPEG4/H.264	4.31R00
	BB-HCM735CE	MJPEG/MPEG4/H.264	4.31R00
Panasonic (Business)	WV-NP1004	MJPEG	v1.21
	WV-NP244	MJPEG/MPEG4	v1.50
	WV-NS202	MJPEG	v1.30
	WV-NF284	MJPEG/MPEG4	v1.11
	WJ-NT304	MJPEG	v1.10
	WV-NW484S	MJPEG/MPEG4	v1.03
	WV-NS202A	MJPEG/MPEG4	v1.10
	WV-NS954	MJPEG/MPEG4	v2.20
	WV-NW964	MJPEG/MPEG4	v1.10
	WJ-NT314	MJPEG	N/A
	WV-NF302	MJPEG/MPEG4	v1.10

	WV-NP304	MJPEG/MPEG4	v1.10
	GXE-500	MJPEG/MPEG4/H.264	v1.03
	WV-NP502	MJPEG/MPEG4/H.264	v1.02/v1.06/v1.07
	WV-SF336	MJPEG/MPEG4/H.264	v1.03
	WV-SP305	MJPEG/MPEG4/H.264	Application:1.06, Image data:1.04
	WV-NW502S	MJPEG/MPEG4/H.264	Application:1.20, Driver: 1.07, Image data:1.06
	WV-SP105	MJPEG/H.264	1 Application: 1.31 2 Image data: 1.03
	WV-SC385	MJPEG/H.264	1 Application: 1.04 2 Driver: 1.19 3 Image data: 1.14
	WV-SP102	MJPEG/H.264	1 Application: 1.31 2 Image data: 1.03
	WV-SP306	MJPEG/H.264	1 Application: 1.30 2 Image data: 1.04
	WV-SF335	MJPEG/H.264	1 Application: 1.30 2 Image data: 1.05
	WV-SP336	MJPEG/H.264	1 Application: 1.30 2 Image data: 1.06
Sony	SNC-CS10	MJPEG/MPEG4	v1.06
	SNC-CS11	MJPEG/MPEG4	v1.06
	SNC-CS20	MJPEG/MPEG4	v1.02
	SNC-CS50	MJPEG/MPEG4/H.264	v2.23
	SNC-DF40	MJPEG/MPEG4	v1.18
	SNC-DF50	MJPEG/MPEG4/H.264	v1.14
	SNC-DF70	MJPEG/MPEG4	v1.18
	SNC-DF80	MJPEG/MPEG4/H.264	v1.14
	SNC-DS10	MJPEG/MPEG4	v1.02
	SNC-DS60	MJPEG/MPEG4	v1.02
	SNC-P1	MJPEG/MPEG4	v1.29
	SNC-P5	MJPEG/MPEG4	v1.29
	SNC-RZ25	MJPEG/MPEG4	v1.30
	SNC-RZ50	MJPEG/MPEG4/H.264	v1.13
	SNC-RX530	MJPEG/MPEG4/H.264	v3.02/v2.32

SNC-RX550	MJPEG/MPEG4/H.264	v3.02/v2.32
SNC-RX570	MJPEG/MPEG4/H.264	v3.02/v2.23
SNC-CM120	MJPEG/MPEG4	v1.03
SNC-CS20	MJPEG/MPEG4	v1.03
SNC-DM110	MJPEG/MPEG4	v1.03
SNC-DM160	MJPEG/MPEG4	v1.03
SNC-DS10	MJPEG/MPEG4	v1.03
SNC-DS60	MJPEG/MPEG4	v1.03
SNC-RH124	MJPEG/MPEG4/H264	1.04.00
SNC-RH164	MJPEG/MPEG4/H264	1.04.00
SNC-RS46	MJPEG/MPEG4/H264	1.04.00
SNC-RS44	MJPEG/MPEG4/H264	1.04.00
SNC-RS86	MJPEG/MPEG4/H264	1.04.00
SNC-RS84	MJPEG/MPEG4/H264	1.04.00
SNT-EX101	MJPEG/MPEG4/H264	1.04.00
SNT-EX104	MJPEG/MPEG4/H264	1.04.00
SNT-EX154	MJPEG/MPEG4/H264	1.04.00
SNT-EP104	MJPEG/MPEG4/H264	1.04.00
SNT-EP154	MJPEG/MPEG4/H264	1.04.00
SNC-CH140	MJPEG/MPEG4/H264	1.10.03
SNC-CH210	MJPEG/MPEG4/H264	1.12
SNC-CH240	MJPEG/MPEG4/H264	1.11
SNC-DH140	MJPEG/MPEG4/H264	1.10.03
SNC-DH140T	MJPEG/MPEG4/H264	1.10.03
SNC-DH180	MJPEG/MPEG4/H264	1.11
SNC-DH240	MJPEG/MPEG4/H264	1.10.03
SNC-DH240T	MJPEG/MPEG4/H264	1.10.03
SNC-DF85	MJPEG/MPEG4/H264	1.2
SNC-CH220	MJPEG/MPEG4/H.264	1.21.02
SNC-DH220 / T	MJPEG/MPEG4/H.264	1.23.01
SNC-CH160	MJPEG/MPEG4/H.264	1.13.00
SNC-DH160	MJPEG/MPEG4/H.264	1.13.00
SNC-CH280	MJPEG/MPEG4/H.264	1.26.01
SNC-DH280	MJPEG/MPEG4/H.264	1.26.01
SNC-CH260	MJPEG/MPEG4/H.264	1.23.02
SNC-DH260	MJPEG/MPEG4/H.264	1.23.02
SNC-DH210 / T	MJPEG/MPEG4/H.264	N/A

	SNC-CH120	MJPEG/MPEG4/H.264	1.13.00
	SNC-DH120 / T	MJPEG/MPEG4/H.264	1.13.00
	SNC-CH180	MJPEG/MPEG4/H.264	1.26.01
	SNC-CH110	MJPEG/MPEG4/H.264	N/A
	SNC-RH164	MJPEG/MPEG4/H.264	1.25.00
	SNC-RH124	MJPEG/MPEG4/H.264	1.25.00
AVTech	AVI-201	MJPEG/MPEG4	N/A
	AVI-202	MJPEG/MPEG4	N/A
	AVI-203	MJPEG/H.264	N/A
	AVN-211	MJPEG/MPEG4/H.264	N/A
	AVN-212	MJPEG/MPEG4/H.264	N/A
	AVN-222	MJPEG/MPEG4	N/A
	AVN-244	MJPEG/MPEG4/H.264	N/A
	AVN-252	MJPEG/MPEG4/H.264	N/A
	AVN-263	H.264	N/A
	AVN-284	MJPEG/MPEG4/H.264	N/A
	AVN-362	MJPEG/MPEG4/H.264	N/A
Canon	VB-C300	MJPEG	V1.1
	VB-C60	MJPEG/MPEG4	V1.0.0
	VB-C500D	MJPEG/MPEG4	V1.0.0
ACTi	ACM1011	MJPEG/MPEG4	V3.11
	ACM1511	MJPEG/MPEG4	V3.11
	ACM1231	MJPEG/MPEG4	V3.11
	ACM1232	MJPEG/MPEG4	V3.11
	ACM3011	MJPEG/MPEG4	V3.11
	ACM3401	MJPEG/MPEG4	V3.11
	ACM3411	MJPEG/MPEG4	V3.11
	ACM3511	MJPEG/MPEG4	V3.11
	ACM4000	MJPEG/MPEG4	V3.11
	ACM4001	MJPEG/MPEG4	V3.11
	ACM4200	MJPEG/MPEG4	V3.11
	ACM4201	MJPEG/MPEG4	V3.11
	ACM5601	MJPEG/MPEG4	V3.11
	ACM5611	MJPEG/MPEG4	V3.11
	ACM7411	MJPEG/MPEG4	V3.11
	ACD2100	MJPEG/MPEG4	V3.11
	ACD2200	MJPEG/MPEG4	V3.11

	ACD2300	MJPEG/MPEG4	V3.11
	ACD2400	MJPEG/MPEG4	V3.11
	TCM-5311	MJPEG/MPEG4/H.264	V3.11
	CAM-6610	MJPEG/MPEG4	V2.09.11-AC
	CAM-6630	MJPEG/MPEG4	V2.09.11-AC
	CAM-6510	MJPEG/MPEG4	V2.09.11-AC
	CAM-7301	MJPEG/MPEG4	V2.09.11-AC
	CAM-7321	MJPEG/MPEG4	V2.09.11-AC
	CAM-7322	MJPEG/MPEG4	V2.09.11-AC
	ACM-8201	MJPEG/MPEG4	V3.11.13-AC
D-Link	DCS-2102	MJPEG/MPEG4	v1.03
	DCS-2121	MJPEG/MPEG4	v1.03
	DCS-3410	MJPEG/MPEG4	v1.03
	DVS-N3010	MJPEG/MPEG4	v3.2.58
	DVS-N3014	MJPEG/MPEG4	v3.2.58
	DVS-N3040	MJPEG/MPEG4	v3.2.58
	DVS-N3044	MJPEG/MPEG4	v3.2.58
	DCS-N3530	MJPEG/MPEG4	v3.2.58
	DCS-N3531	MJPEG/MPEG4	v3.2.58
	DCS-N3534	MJPEG/MPEG4	v3.2.58
	DCS-N5440	MJPEG/MPEG4	v3.2.58
	DCS-N5442	MJPEG/MPEG4	v3.2.58
	DCS-N5444	MJPEG/MPEG4	v3.2.58
	DCS-N6240	MJPEG/MPEG4	v3.2.58
	DCS-N6241	MJPEG/MPEG4	v3.2.58
	DCS-N6244	MJPEG/MPEG4	v3.2.58
	DCS-N2100	MJPEG/MPEG4	v3.2.58
	DCS-N2104	MJPEG/MPEG4	v3.2.58
	DCS-N40-20H2	MJPEG/MPEG4/H.264	N/A
	DCS-N40M-32H2	MJPEG/MPEG4/H.264	N/A
	DCS-N40M-33H2	MJPEG/MPEG4/H.264	N/A
	DCS-N30-10H2	MJPEG/MPEG4/H.264	N/A
Toshiba	IK-WD01A	MJPEG/MPEG4	N/A
	K-WB70A	MJPEG/MPEG4	N/A
Abus	TV7240	MJPEG/MPEG4	0102a,0102c,0910l
	TV7230	MJPEG/MPEG4	0102a,0102c,0910w
	TV7203	MJPEG/MPEG4	0202a,0203a,0210l
	TV7204	MJPEG/MPEG4	0202a,0203a,0210w

	TV7206	MJPEG/MPEG4	0100b
	TV7220	MJPEG/MPEG4	610l
	TV7221	MJPEG/MPEG4	4270
	TV7222	MJPEG/MPEG4	710l
	TV7223	MJPEG/MPEG4	4970
Arecont Vision	AV1300	MJPEG	N/A
	AV1305	MJPEG/H.264	N/A
	AV1355	MJPEG/H.264	N/A
	AV2100	MJPEG	N/A
	AV2105	MJPEG/H.264	N/A
	AV2155	MJPEG/H.264	N/A
	AV3100	MJPEG	N/A
	AV3105	MJPEG/H.264	N/A
	AV3155	MJPEG/H.264	N/A
	AV3130	MJPEG	N/A
	AV5100	MJPEG	N/A
	AV5105	MJPEG/H.264	N/A
	AV5155	MJPEG/H.264	N/A
	AV8180	MJPEG	N/A
	AV8185	MJPEG/H264	N/A
	AV8360	MJPEG	N/A
	AV8365	MJPEG/H264	N/A
Etrovision	EV6150	MJPEG/MPEG4/H.264	v1.5.1
	EV6150A	MJPEG/MPEG4/H.264	v1.5.1
	EV6151A	MJPEG/MPEG4/H.264	v1.5.1
	EV6153A	MJPEG/MPEG4/H.264	v1.5.1
	EV6551A	MJPEG/MPEG4/H.264	v1.5.1
	EV6552A	MJPEG/MPEG4/H.264	v1.5.1
	EV8150A	MJPEG/MPEG4/H.264	v1.5.1
	EV6353A	MJPEG/MPEG4/H.264	v1.5.1
	EV6250A	MJPEG/MPEG4/H.264	v1.5.1
	EV3850A	MJPEG/MPEG4/H.264	v1.5.1
	EV3151A	MJPEG/MPEG4/H.264	v1.5.1
	EV3151	MJPEG/MPEG4/H.264	v1.5.1
	EV3150A	MJPEG/MPEG4/H.264	v1.5.1
Mobotix	M12	MJPEG	3.4.5.18
	M22	MJPEG	3.4.5.18

	D12	MJPEG	3.4.5.18
	D24	MJPEG	4.0.1.15
ALinking	9122/9122p	MJPEG/MPEG4	v1.29
	9751/9751w	MJPEG/MPEG4	v1.27 v1.32
	9852/9852w	MJPEG/MPEG4	v1.27 v1.33
	9451	MJPEG/MPEG4	v1.27 v1.33
	9351	MJPEG/MPEG4	v1.27 v1.33
	9551	MJPEG/MPEG4	v1.27 v1.33
	9552	MJPEG/MPEG4	v1.27 v1.33
	9553	MJPEG/MPEG4	v1.27 v1.33
	9152	MJPEG/MPEG4	v1.27 v1.33
	9652	MJPEG/MPEG4	v1.27 v1.33
Brickcom	CB-100Ae-08 (VGA)	MJPEG/MPEG4/H.264	Latest
	WCB-100Ae-08 (VGA)	MJPEG/MPEG4/H.264	Latest
	CB-100Ae-08	MJPEG/MPEG4/H.264	Latest
	WCB-100Ae-08	MJPEG/MPEG4/H.264	Latest
	CB-101Ae-00	MJPEG/MPEG4/H.264	Latest
	CB-102Ae-00	MJPEG/MPEG4/H.264	Latest
	CB-100Ap-0c	MJPEG/MPEG4/H.264	Latest
	WCB-100Ap-0c	MJPEG/MPEG4/H.264	Latest
	CB-101Ap-04	MJPEG/MPEG4/H.264	Latest
	CB-102Ap-04	MJPEG/MPEG4/H.264	Latest
	FB-100Ae	MJPEG/MPEG4/H.264	Latest
	WFB-100Ae	MJPEG/MPEG4/H.264	Latest
	FB-100Ap	MJPEG/MPEG4/H.264	Latest
	WFB-100Ap	MJPEG/MPEG4/H.264	Latest
	FB-130Ap	MJPEG/MPEG4/H.264	Latest
	WFB-130Ap	MJPEG/MPEG4/H.264	Latest
	FB-130Np	MJPEG/MPEG4/H.264	Latest
	WFB-130Np	MJPEG/MPEG4/H.264	Latest
	FB-300Ap	MJPEG/MPEG4/H.264	Latest
	WFB-300Ap	MJPEG/MPEG4/H.264	Latest
	FD-100Ae	MJPEG/MPEG4/H.264	Latest
	FD-100Ap	MJPEG/MPEG4/H.264	Latest
	FD-130Ap	MJPEG/MPEG4/H.264	Latest
	MD-100Ae	MJPEG/MPEG4/H.264	Latest

	MD-100Ap	MJPEG/MPEG4/H.264	Latest
	OB-100Ae	MJPEG/MPEG4/H.264	Latest
	WOB-100Ae	MJPEG/MPEG4/H.264	Latest
	OB-100Ap	MJPEG/MPEG4/H.264	Latest
	WOB-100Ap	MJPEG/MPEG4/H.264	Latest
	GOB-100Ap	MJPEG/MPEG4/H.264	Latest
	OSD-040D/E 36xp	MJPEG/MPEG4/H.264	Latest
	PZ-040D/E 12xp	MJPEG/MPEG4/H.264	Latest
	VD-100Ae	MJPEG/MPEG4/H.264	Latest
	VD-100Ap	MJPEG/MPEG4/H.264	Latest
	VD-130Ap	MJPEG/MPEG4/H.264	Latest
IQInvision	IQA2xx series	MJPEG	V3.0/4
	IQA1xx serires	MJPEG	V3.0/4
	IQ04xx/D4xx/05xx series	MJPEG	V3.0/4
	IQEye5xx	MJPEG	V2.8/6
	IQEye7xx/8xx series	MJPEG	V2.8/6
Hunt	All	MJPEG/MPEG4	N/A
Pixord	P600	MJPEG/H.264	1.0.5_rc1_1
LevelOne	FCS-0010v2	MJPEG/MPEG4	1.0.12
	WCS-0010	MJPEG/MPEG4	1.0.13
	FCS-0020	MJPEG/MPEG4	1.0.07
	WCS-0020	MJPEG/MPEG4	1.0.07
	FCS-1091	MJPEG/MPEG4	1.0.07
	WCS-1090	MJPEG/MPEG4	1.0.07
	FCS-1030 V2.0	MJPEG/MPEG4	0204a
	WCS-2030 V3.0	MJPEG/MPEG4	0205a
	FCS-1060	MJPEG/MPEG4	0204a
	WCS-2060	MJPEG/MPEG4	0204b
	FCS-3021	MJPEG/MPEG4	0101b
	FCS-5030	MJPEG/MPEG4	0102g
	FCS-4010	MJPEG/MPEG4	0100f
	FCS-5011	MJPEG/MPEG4	0100f
	FCS-1101	MJPEG/MPEG4	1.6.16P02
	FCS-1081A	MJPEG/MPEG4	1.6.16P02
	FCS-4x00	MJPEG/MPEG4	1.6.16P02
	FCS-0030	MJPEG/MPEG4/H.264	N/A

	WCS-0030	MJPEG/MPEG4/H.264	N/A
	FCS-1121	MJPEG/MPEG4/H.264	v1.0
	FCS-3061	MJPEG/MPEG4/H.264	N/A
	FCS-4020	MJPEG/MPEG4	0100b
	FCS-3071	MJPEG/H.264	L20100602NS
	FCS-1131	MJPEG/H.264	L20100602NS
	FCS-1141	MJPEG/MPEG4/H.264	L20100602NS
	FCS-3031	MJPEG/MPEG4/H.264	1.0.04
	FCS-3051	MJPEG/MPEG4/H.264	1.0.04
	FCS-1151	MJPEG/MPEG4/H.264	0100c
	FCS-7111	MJPEG/MPEG4/H.264	0100d
	FCS-3091	MJPEG/H.264	2.0.0330
	FCS-1131	MJPEG/H.264	L20101112NS
	FCS-3071	MJPEG/H.264	L20101112NS
	FCS-3081	MJPEG/H.264	L20101222NS
	FCS-5051	MJPEG/H.264	L20101222NS
HIKVision	DS2CD862MF	MJPEG/H.264	V2.0 build 100125 only
	DS2CD892P	MJPEG/H.264	V2.0 build 100125 only
	DS2CD892N	MJPEG/H.264	V2.0 build 100125 only
	DS2CD792PF	MJPEG/H.264	V2.0 build 100125 only
	DS2CD792NF	MJPEG/H.264	V2.0 build 100125 only
	DS2CD852MF	MJPEG/MPEG4	V2.0 build 100125 only
	DS2CD752MF	MJPEG/MPEG4	V2.0 build 100125 only
	DS2CD762MF	MJPEG/MPEG4	V2.0 build 100125 only
Dynacolor	V1-A	MJPEG/H.264	20100602NS
	V1-B	MJPEG/H.264	20100602NS
	V6-A1270	MJPEG/H.264	20100602NS
	V6-B1270	MJPEG/H.264	20100602NS
	DH801e-S4	MJPEG/H.264	20100602NS
	NH061	MJPEG/MPEG4/H.264	20100602NS
Sanyo	VCC-HD2300	MJPEG/H.264	CAM MAIN Ver. 1.01-02 (100506-00) CAM SUB Ver. 1.00-00 (090910-00) NET MAIN Ver. 1.02-00 (100521-01) NET SUB Ver. 1.00-02 (100422-00)
	VCC-HD2500	MJPEG/H.264	
	VCC-HD4600	MJPEG/H.264	
	VDC-HD3300	MJPEG/H.264	
	VDC-HD3500	MJPEG/H.264	

Flexwatch	FW-1170-VO	MJPEG/H.264	4.07-13
Planex	CS-WMV04N	MJPEG/MPEG4	1.34
Compro	IP55	MJPEG/MPEG4	1.50d
	IP60	MJPEG/MPEG4/H.264	1.50d
	IP70	MJPEG/MPEG4/H.264	1.50d
	IP540	MJPEG/MPEG4/H.264	1.50d
	IP530	MJPEG/MPEG4	1.392
	IP570	MJPEG/MPEG4/H.264	1.499h
CNB	IVC4000T(T1)	MJPEG/MPEG4	UBoot Version: XNET.T1-1.0.10.0902 Kernel Version: XNET.T1-1.0.10.0909 Software Version: XNET.T1-1.0.10.0909 HTML Version: XNET.T1-1.0.10.0909 ActiveX Version: XNET.T1-1.0.10.719
	IDC4050IR	MJPEG/H264	Boot: XNET.A2-1.01.10.0929 Kernel: XNET.A2-1.01.10.0929 Root: XNET.A2-1.01.10.0929 Local: XNET.A2-1.01.10.0929 ActiveX: XNET.A2-1.01.10.0726
	ISMC1063N	MJPEG/MPEG4/H.264	Boot: XNET.A1-1.01.10.0630 Kernel: XNET.A1-1.01.10.0630 Root: XNET.A1-1.01.10.0630 Local: XNET.A1-1.01.10.0630

	IDP4030VR	MJPEG/MPEG4/H.264	Boot: XNET.A1-1.01.10.0634 Kernel: XNET.A1-1.01.10.0634 Root: XNET.A1-1.01.10.0634 Local: XNET.A1-1.01.10.0634
Vivotek	7000 Series IP7131 (Ver.1)	MJPEG/MPEG4	0102b
	IP7132 (Ver.1)	MJPEG/MPEG4	0102a
	IP7135 (Ver.1)	MJPEG/MPEG4	0301b
	IP7137 (Ver.1)	MJPEG/MPEG4	0401a
	PT7135 (Ver.1)	MJPEG/MPEG4	0301a
	PT7137 (Ver.1)	MJPEG/MPEG4	0400b
	New 7000 Series IP7130	MJPEG/MPEG4	0101b
	IP7133	MJPEG/MPEG4	0101b
	P7134	MJPEG/MPEG4	0101e
	IP7142	MJPEG/MPEG4	0201a
	IZ7151	MJPEG/MPEG4	0101f
	IP7153	MJPEG/MPEG4	0100b
	IP7154	MJPEG/MPEG4	0100b
	IP7160	MJPEG/MPEG4	0102a
	IP7161	MJPEG/MPEG4	102h
	IP7251	MJPEG/MPEG4	0100f
	IP7330	MJPEG/MPEG4	0103a
	PZ7111	MJPEG/MPEG4	0106b
	PZ7112	MJPEG/MPEG4	0104e
	PZ7121	MJPEG/MPEG4	0106b
	PZ7122	MJPEG/MPEG4	0104c
	PZ7131	MJPEG/MPEG4	0100b
	PZ7132	MJPEG/MPEG4	0100e
	PZ7151	MJPEG/MPEG4	0101b

PZ7152	MJPEG/MPEG4	0101b
PT7135	MJPEG/MPEG4	0301a
FD7131	MJPEG/MPEG4	0201c
FD7132	MJPEG/MPEG4	0201c
FD7141	MJPEG/MPEG4	0101b
FD7141V	MJPEG/MPEG4	0101b
FD7151	MJPEG/MPEG4	0201b
SD73x3	MJPEG/MPEG4	0102a
IP8161	MJPEG/MPEG4/H.264	0100m
VS2403	MJPEG/MPEG4	0103e
IP8151	MJPEG/MPEG4/H.264	0100e
IP8330	MJPEG/MPEG4/H.264	0101b
IP8332	MJPEG/MPEG4/H.264	0101a
FD8361	MJPEG/MPEG4/H.264	0200b
FD8161	MJPEG/MPEG4/H.264	0101b
FD8134	MJPEG/MPEG4/H.264	0101b
VS8102	MJPEG/MPEG4/H.264	0201a
SD8121	MJPEG/MPEG4/H.264	0100e

B Appendix B: Remote Backup

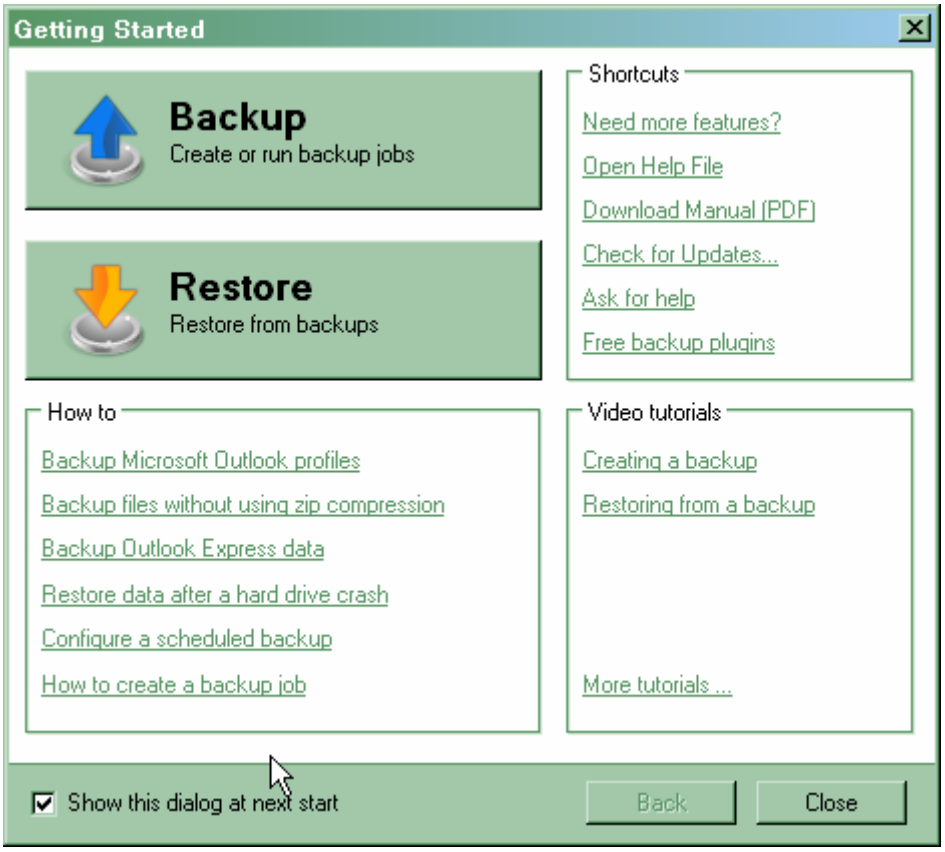
Most system administrators will be asked to backup the video data remotely. For CamPro Professional, you can use kinds of remote backup software once they support your operating system. In this chapter we will recommend you to use FBackup. You can download it from the link:

http://www.fbackup.com/

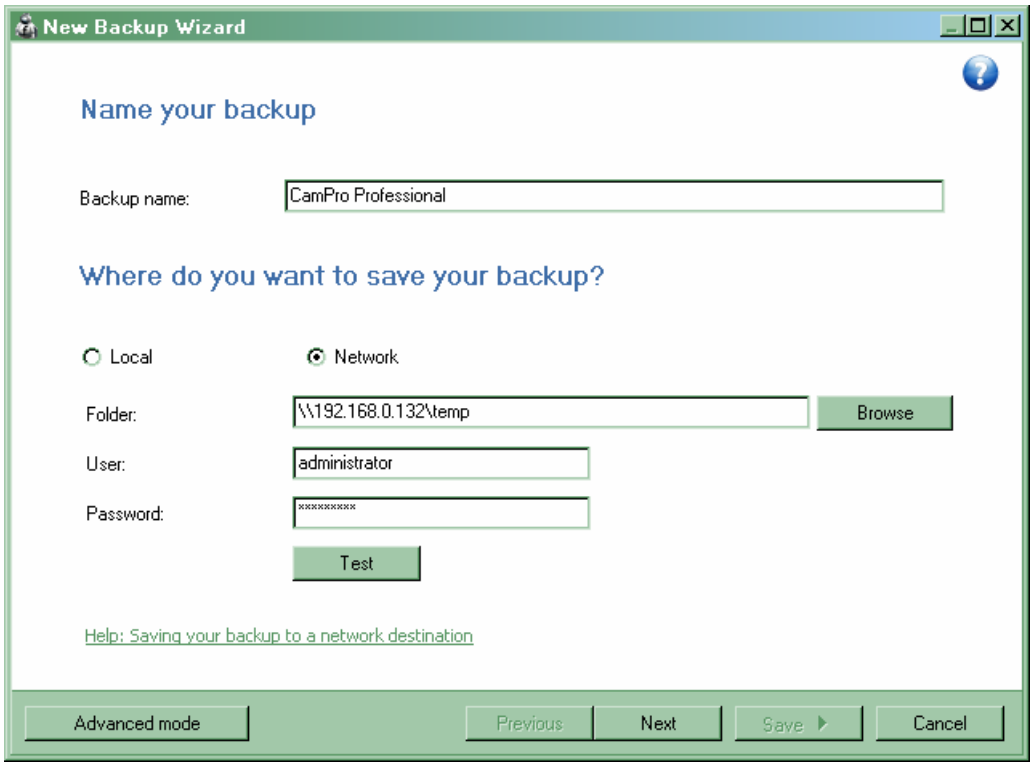
Please follow the steps below for setting the backup jobs.

1. Please make sure you have a file server for saving the backup file. And you also need the privilege to put your file on to the file server. If you are not sure if you have the privilege, please check with your network administrator.

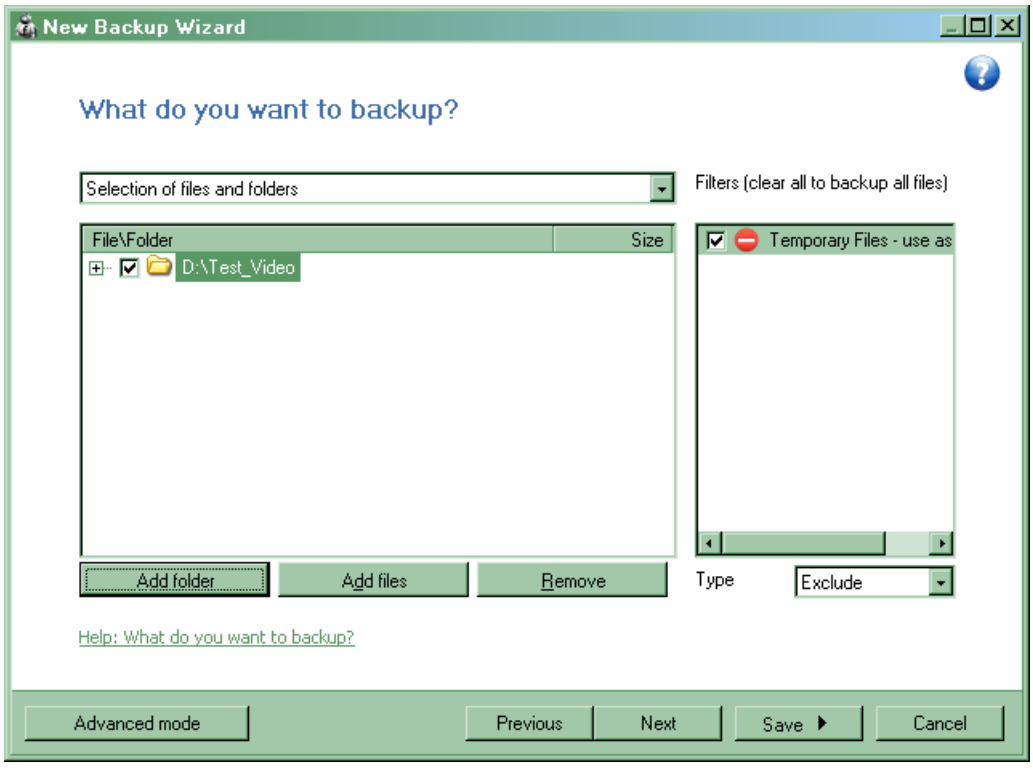
2. Install the program on the CamPro Professional server. Launch the FBackup and the wizard will show up. Please click on"Backup" button for creating new backup job.



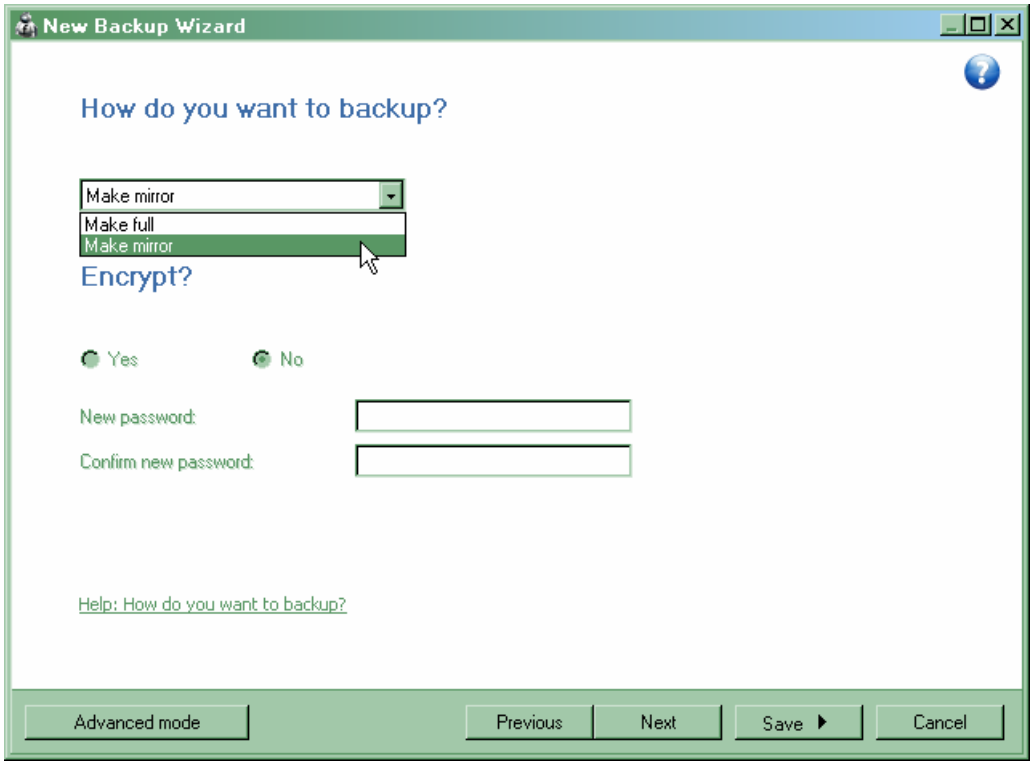
3. Click on “New” button and name your job. You might press the “Test” button for testing the connection. Then click “Next”.



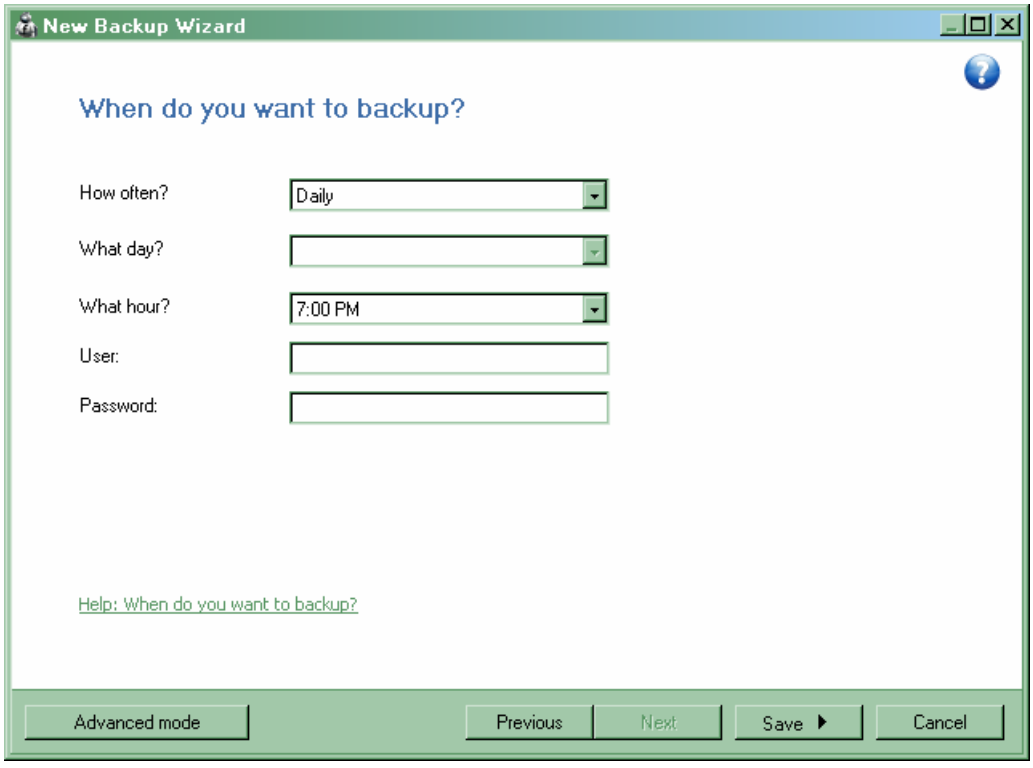
4. Select the folder the CamPro Professional saved the video clips. For



5. Choose “Make mirror” as your backup method. For “Make mirror” will only backup the last update files, and



6. Set the schedule and configure the user account for doing the backup. And then click on “Save”.



7. If you want to play the video file on the file server, please use the CamPro Professional Player. You can find it under “Start → Programs → AirLive → CamPro Professional”. For more information about the Player, please refer to chapter 16, Media Player in this manual.