



# *Compro View*

**Video Management Software**



## **User's Manual**

Version 2.0

[www.comprosecurity.com](http://www.comprosecurity.com)

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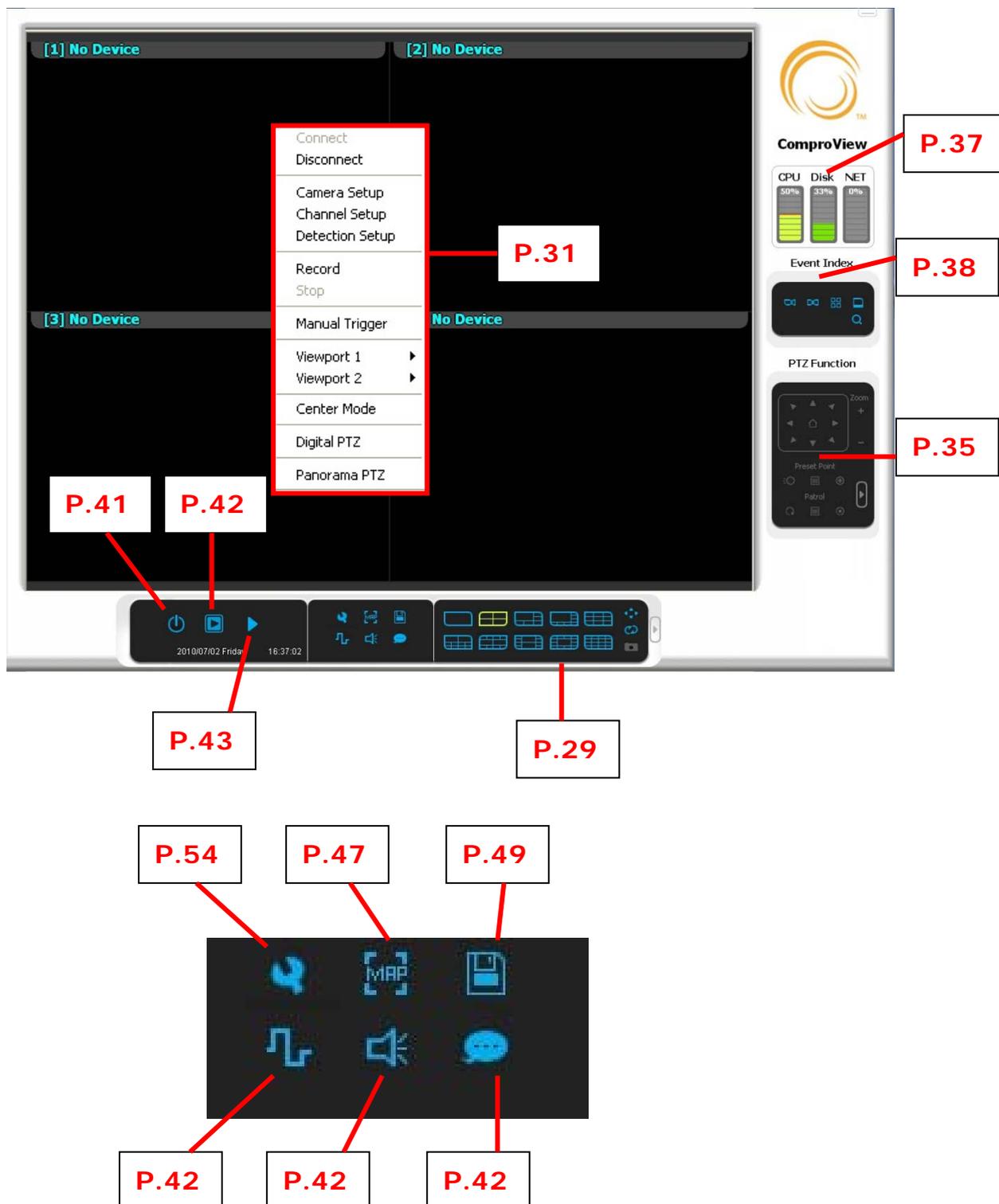
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## Quick Finder

Here we provide the quick finder to help quickly find the information page you want for using the ComproView software to secure your home or office.



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## Overview

ComproView is a powerful video management system, capable of accessing and maintaining IP network type devices (including IP cameras and other Input/Output control devices) which are either made by Compro Technology or other surveillance device manufacturers.

This manual will provide comprehensive understanding of the powerful functions are built-in ComproView and also elaborate in details of how to utilize these functions in the easiest way possible. Quick Start guide is included for quick ComproView setup with the most common system settings to get you started in the shortest time possible. Should you encounter issues using ComproView and cannot find a satisfactory solution from this manual, please contact our support through [support@comprousa.com](mailto:support@comprousa.com).



## Installing Compro Software

### System requirement

#### Operating System

Microsoft® Windows® XP Professional, Windows Server 2003/2008 R1/R2, Windows Vista, Windows 7

#### CPU

Intel® Pentium® 4, 2.8 GHz or higher (Core 2 recommended).

#### RAM

Minimum 1 GB (2 GB or more recommended).

#### Network

Ethernet (1 Gbit recommended).

#### Graphics Adapter

AGP or PCI-Express, minimum 1024 x 768, 16 bit colors.

#### Hard Disk Space

Minimum 1 GB free hard disk space available, excluding space needed for recordings.

Before installing NVR Station software, please make sure the IP camera(s) were installed on the network so the software can add them into NVR Station channels. To install the software, insert the installation CD supplied with the camera into your CD-ROM drive, and the iWizard installer will start automatically, and then please choose to set up your device and follow the on-screen instructions to go to the last step that prompts the installation of NVR Station.

Afterwards, follow the on-screen instructions again to install NVR Station. After a system restart, you will see the **iWizard** and **NVR Station** icons on your desktop. Double-click the "NVR Station" icon to execute the NVR Station program.

**Note:** You can also run the NVR Station installer by browsing the contents of the installation CD with Windows File Explorer and double-click on the "setup" executable.

## Quick Start Guide

Here provides a guide to set up your IP camera in ComproView and quick setup for detection, recording, schedule, and playback recorded files. For more detail settings, please refer to the related chapters.

### Installing IP Camera Hardware

Before running ComproView, you will need to complete the installation and configurations of camera(s) and other devices (such as I/O).

**Step 1:** Setup the IP camera(s) by following IP Cam installation manual.

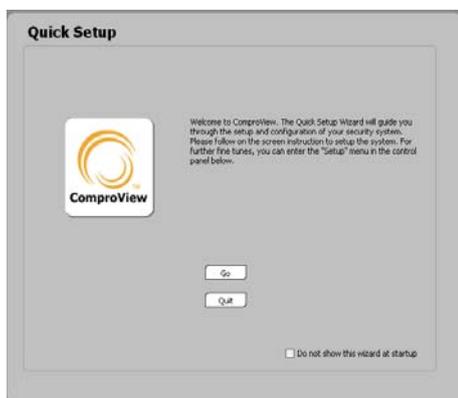
**Step 2:** Make sure IP camera is connected to the network.

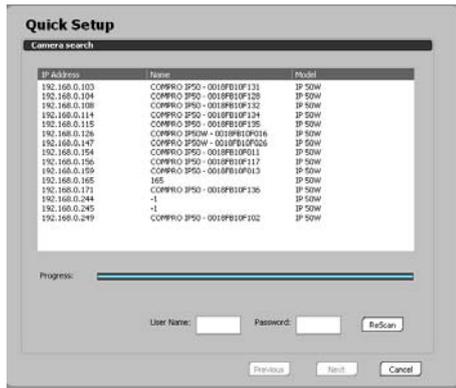
### Add IP Camera in ComproView

Once the hardware and software installations are done, user can start configuring the ComproView by adding cameras and setting the detection range.

### Add IP Camera (Express Setup/Quick Setup)

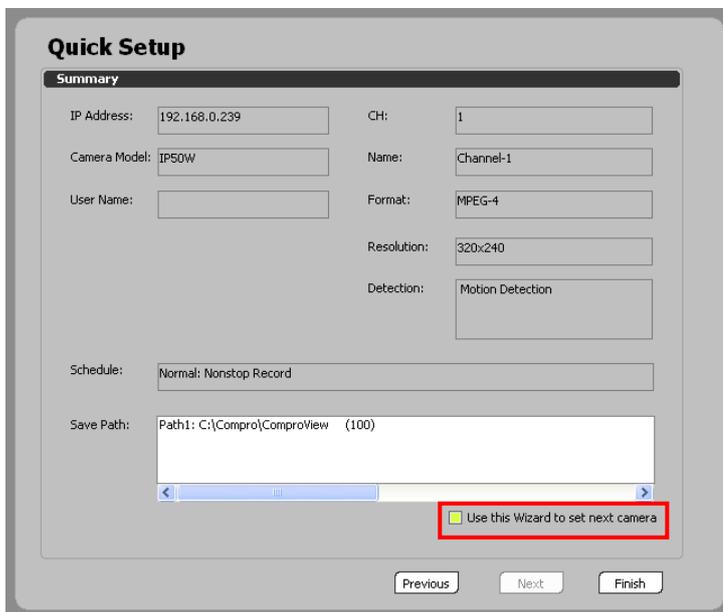
1. Having logged into ComproView (the default user name/password are both 'admin' ), you will be greeted by the Quick Setup Wizard. The Wizard shall guide you through the setup process.





When you see “Quick Setup” page, please choose one camera which you desire to operate, and then enter **User Name** and **Password**. After settings are done, please click “**Next**” and set up.

2. When you’ve reached the end of the quick setup and wish to set up more than 1 camera in the system, please check the “**Use this Wizard to set the next camera**” setting and press the finish button to repeat Step 4 until all available cameras had been set.



Once the above are done, your security system had been set.

Lastly, all of the schedule, detection and recording will only be started when you enable the “Start all” option as shown blow. Otherwise the system will only be in passive viewing mode and no alarms will be triggered.

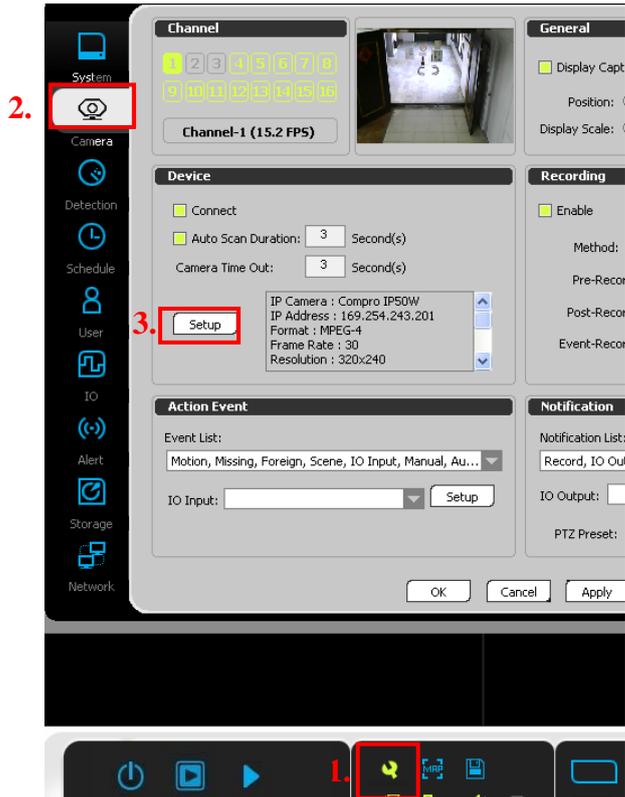


**Note:** You will not be able to change any of the system's setting when its "armed", you must "disarm" the system by selecting the "**Stop All**" function.

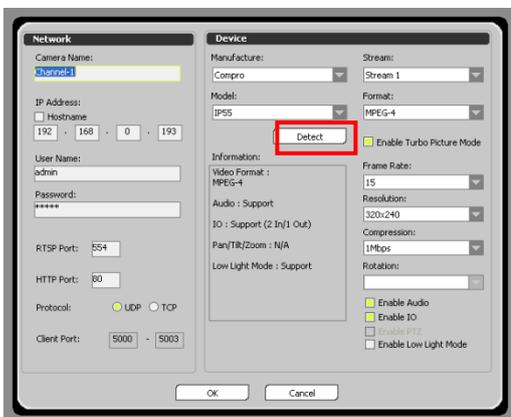
Armed → monitoring, disarm → stop monitoring.

## Add IP Camera (Manual Setup)

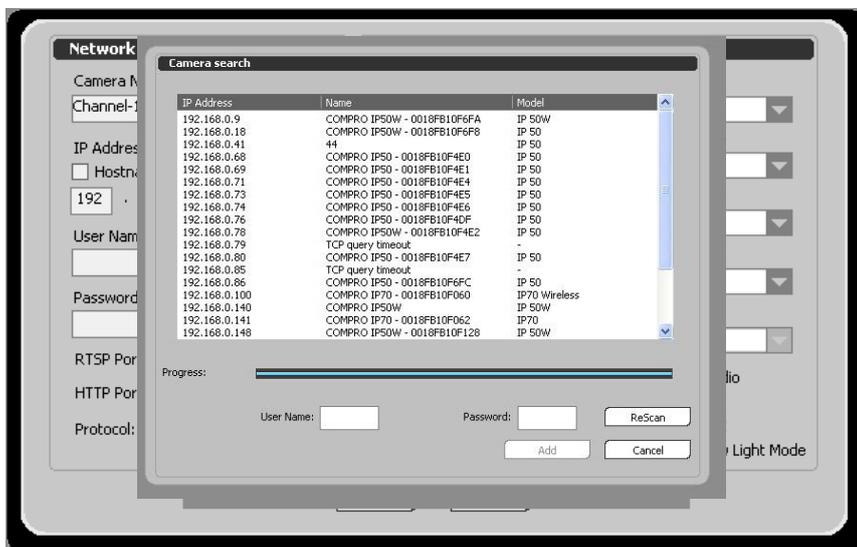
Should you wish to manually setup the camera, you can do so via the "Setup" button located on the navigation bar. Once the Setup button had been pressed, user should see the main console panel below the live view window, please go for **Setup → Camera menu → One click for Device column → Setup.**



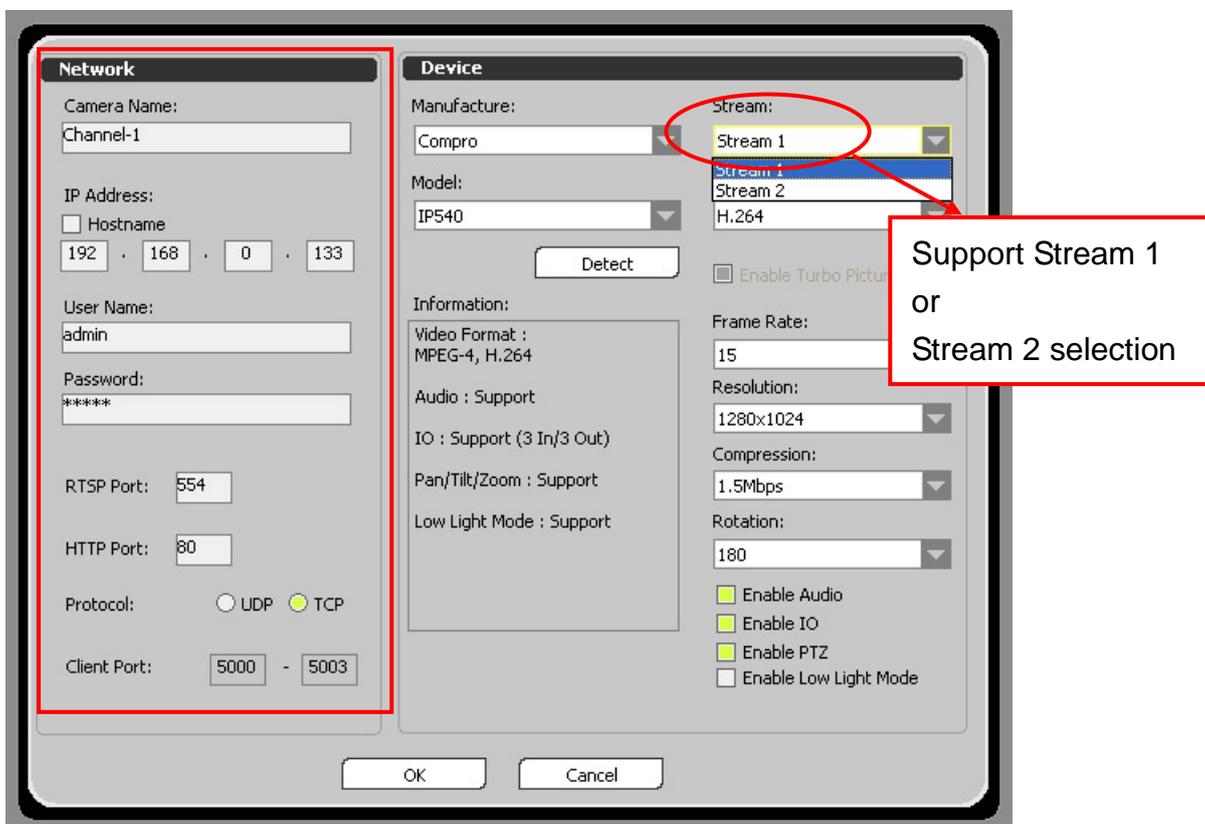
3. After IP Camera setup dialog is opened, if user does not know how to lay on the setting, please press the "Detect" button for search the device.



- If the desire model shows up on above column, please select it and enter user name/password. Then press **"Add"** button to add in the system.



- If user wants to add the new IP camera manually, please enter **"Camera Name"**, **"IP Address"**, **"User Name"**, and **"Password"**.



The default user name and password is **"admin"**.

6. After the IP Camera device is decided, the following options are still available for user to change or confirm

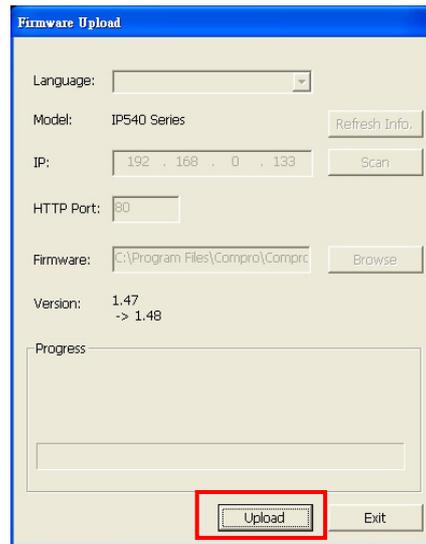
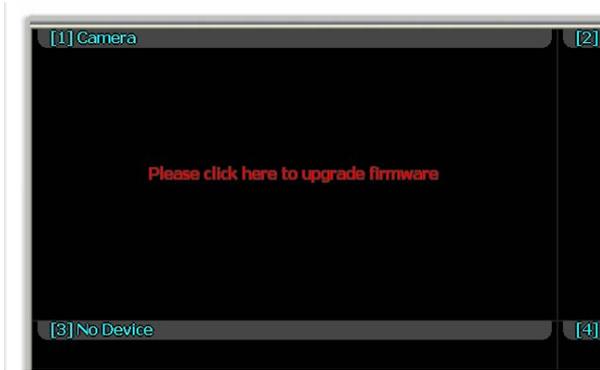
<b>Manufacture:</b>	IP camera's manufacturer like Compro
<b>Model:</b>	IP camera's model number like IP540
<b>Stream:</b>	Determine which video stream to be used for live/recording
<b>Format:</b>	Video compression codec like H.264
<b>Frame Rate:</b>	How many pictures should be recorded per second
<b>Resolution:</b>	Video size like 1280x1024 (SXGA)
<b>Compression:</b>	Video quality which is define by bitrate like 1.5Mbps
<b>Rotation:</b>	Flip the image for example in 180 degree for ceiling mounted
<b>Enable Audio:</b>	Record with audio sound
<b>Enable IO:</b>	Receive signal from digital input sensor and control digital output relay
<b>Enable PTZ:</b>	Control Pan/Tilt/Zoom device
<b>Enable Low Light Mode:</b>	Adjust exposure level to enhance picture quality when the ambient light is insufficient

After all the selections are ready, presses the **OK** button to close the IP Camera setting.

7. Upon IP Camera Setup is completed, please press "Apply" button to memorized the setting and then press "OK" button to close the setup dialog.
8. After the IP camera setting is completed, please wait a while for connection. After user see the image on the screen, and then user could start to execute the monitoring function.

**Note:**

When you connect the IP camera at the first time, the software will check the IP cam firmware version for the compatibility. If the firmware version is older than required, it will inform you to upgrade the firmware, please click the channel screen and select the "**Upload**" to upload the firmware from your PC to camera and install it.



## Set Recording

Now we will continue to set up recording option.  
Follow the number sequence from the image below

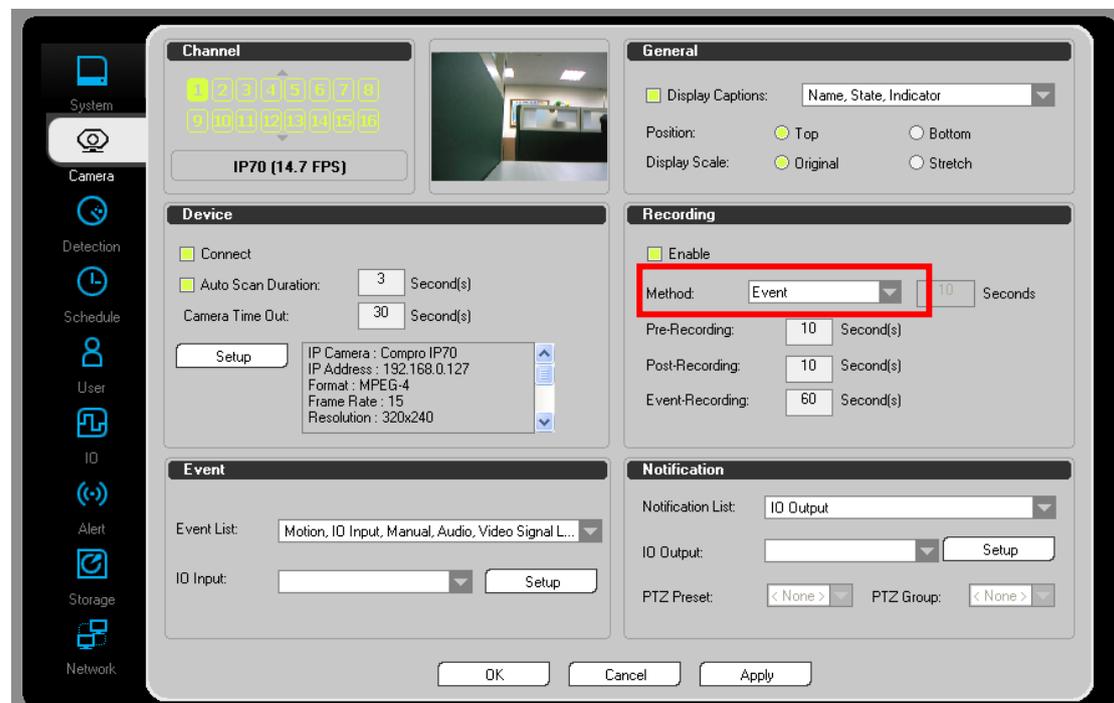


- Step 1:** Open Setup.
- Step 2:** Open Camera menu.
- Step 3:** Select Channel(s).
- Step 4:** Enable Recording option.
- Step 5:** Select Recording method (Non Stop).
- Step 6:** Press "Apply" to save the changes.
- Step 7:** Press "OK" to close Setup.
- Step 8:** Press "Start" to start recording.

## Set Detection

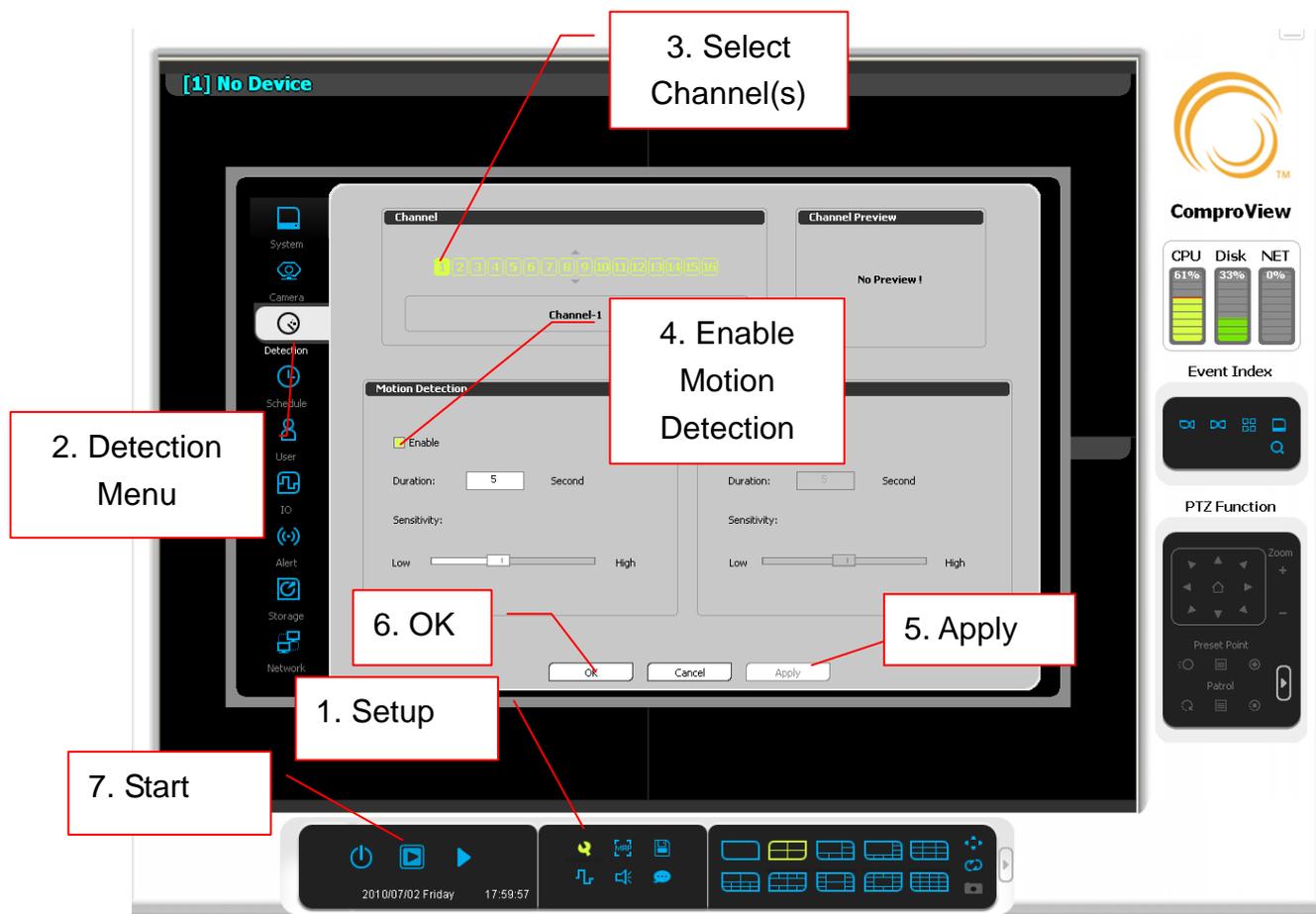
As alternative to Non-Stop recording you can use event-driven recording to save disk storage like recording method based on motion activity and/or audio detection.

1. Please change the recording method to **“Event”**
2. Configure Pre-Recording time by selecting how many seconds should also be recorded before motion/audio detection (event)
3. Configure Post-Recording time by selecting how many seconds should also be recorded after motion/audio detection (event)
4. (Optional) Configure the recording video length



**Note:** The Event-Recording time will be overridden if motion/audio detection is still active.

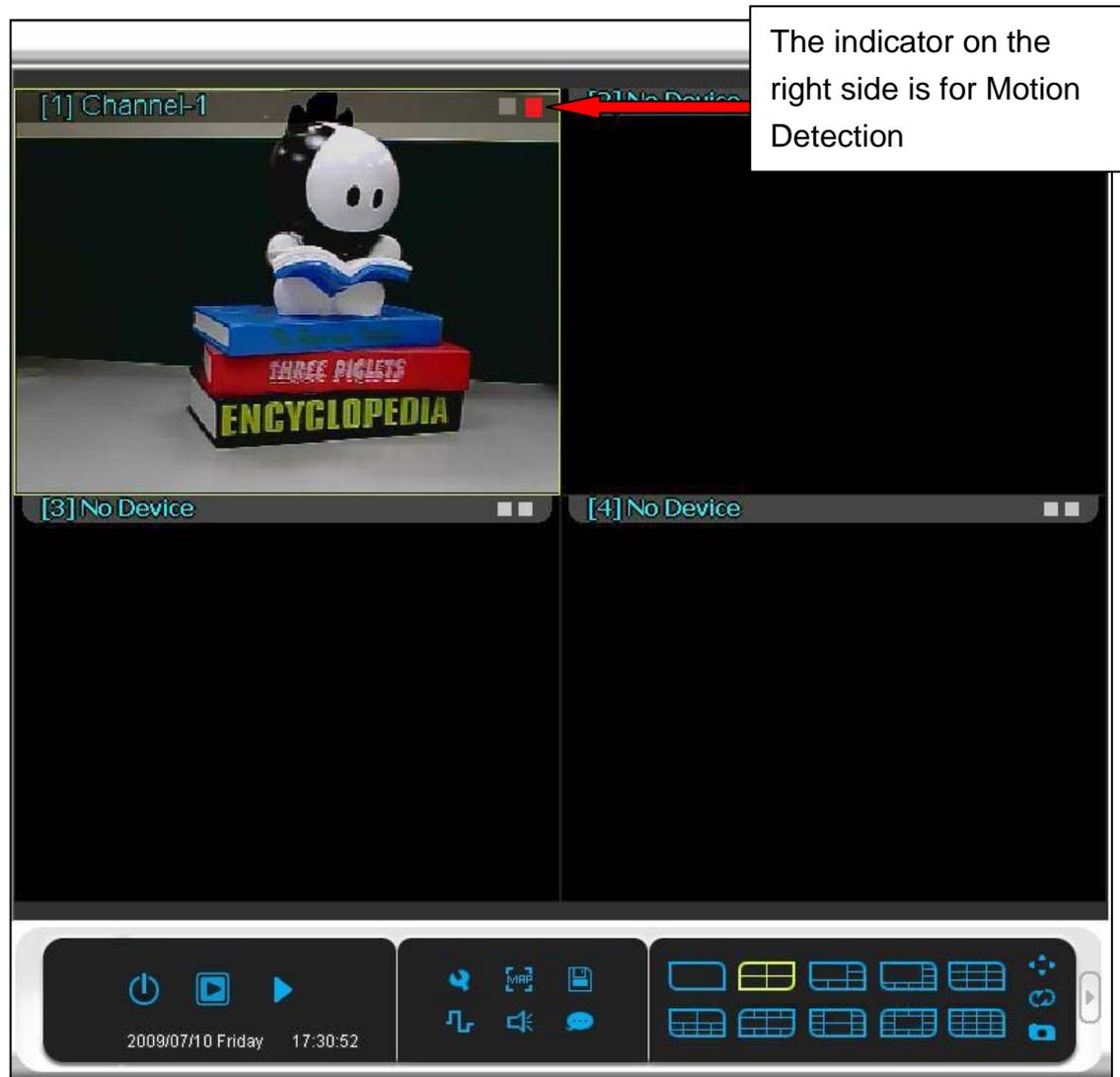
Follow the number sequence from the image below to configure motion/audio detection behavior.



- Step 1:** Open Setup.
- Step 2:** Open Detection menu.
- Step 3:** Select Channel(s).
- Step 4:** Enable motion or audio detections.
- Step 5:** Press "Apply" to save the changes.
- Step 6:** Press "OK" to close Setup.
- Step 7:** Press "Start" to start detection.

<b>Enable</b>	Click the checkbox to enable detection feature
<b>Duration</b>	The time interval to wait before performing the next detection. If the motion/audio activity is still in progress after time-out, the recording will keep active as well; otherwise the recording will be stop.
<b>Sensitivity</b>	Using high sensitivity a few pixels (changes in picture) will be considered as motion or vice versa a lot of changes are required to be qualified as motion when sensitivity is configured as low.

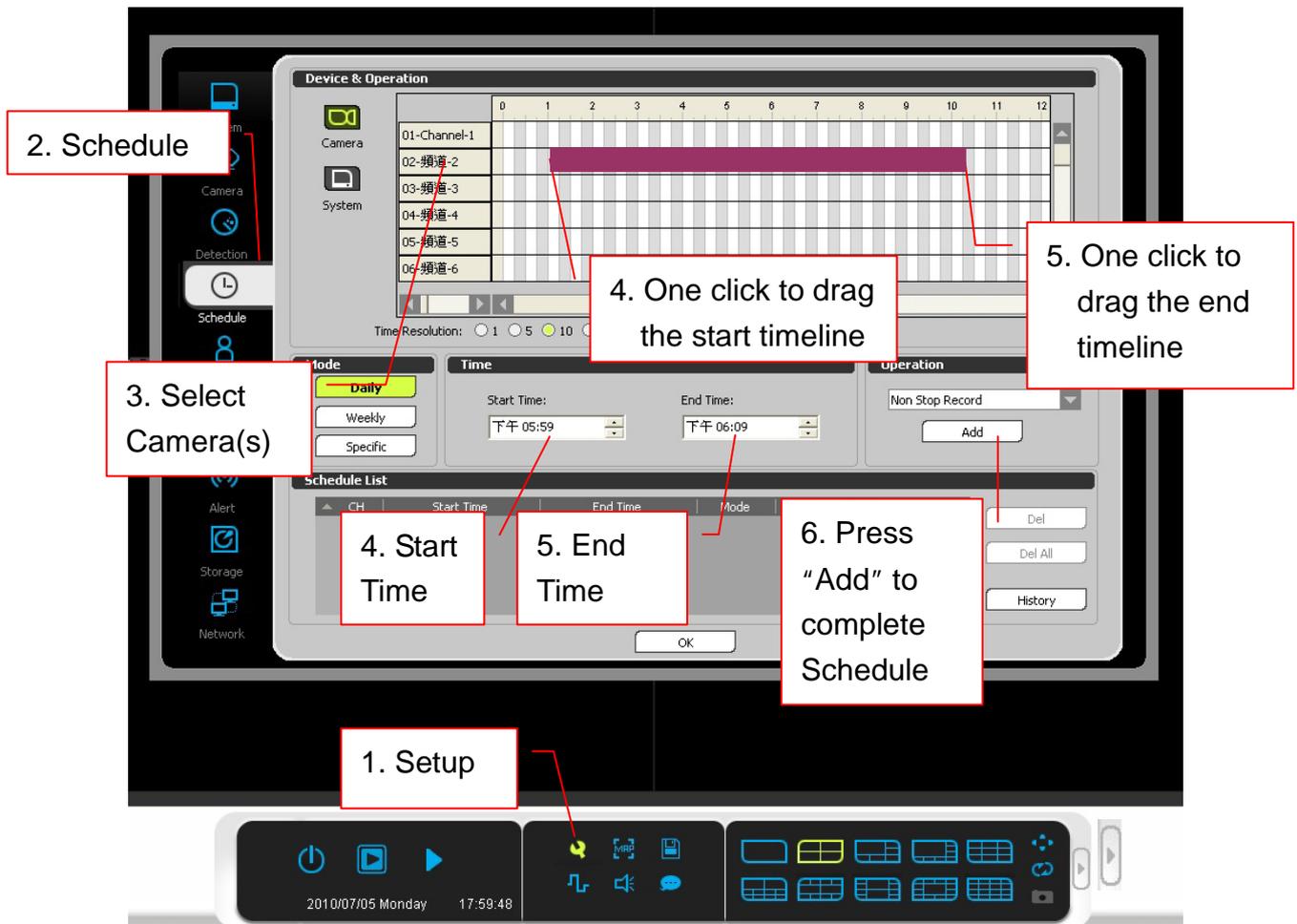
Now we have turned on Motion Detection, which will display an indicating light on the upper right corner of the channel. (Display in green/red.)



## Set Schedule

After we have configured Recording option, we will set up a schedule to record images during normal office hours (9AM to 6PM) every day.

Follow the number sequence from the image below

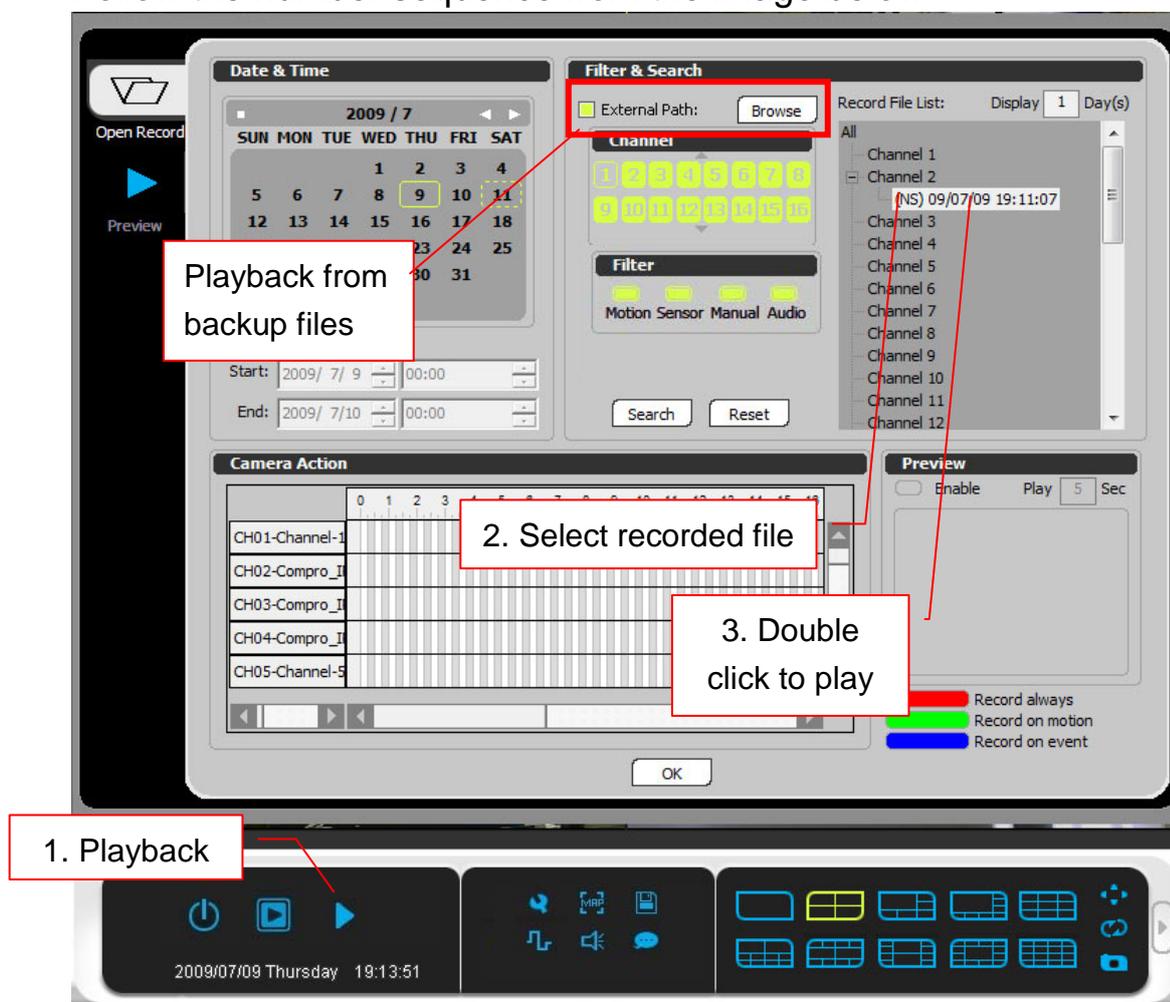


- Step 1:** Open Setup.
- Step 2:** Open Schedule menu.
- Step 3:** Select the camera/channel for schedule time
- Step 4, Step 5:** Set Start/End Time. User can also click the time line to drag the start/end time.
- Step 6:** Press "Add" to complete schedule recording.

## Playback files

After several recordings have been made through the days, we can use Playback function to view our recordings.

Follow the number sequence from the image below



**Step 1:** Open Playback.

**Step 2:** Select one of the recorded file to playback.

**Step 3:** Double click to play the video.

Also, you can playback the video from backup files, please select the "External Path" in the "Filter & Search" field, and browse the folder with backup file to playback.



**Step 1:** Press Play button for playback file chosen.

**Step 2:** Press OK to close playback panel.

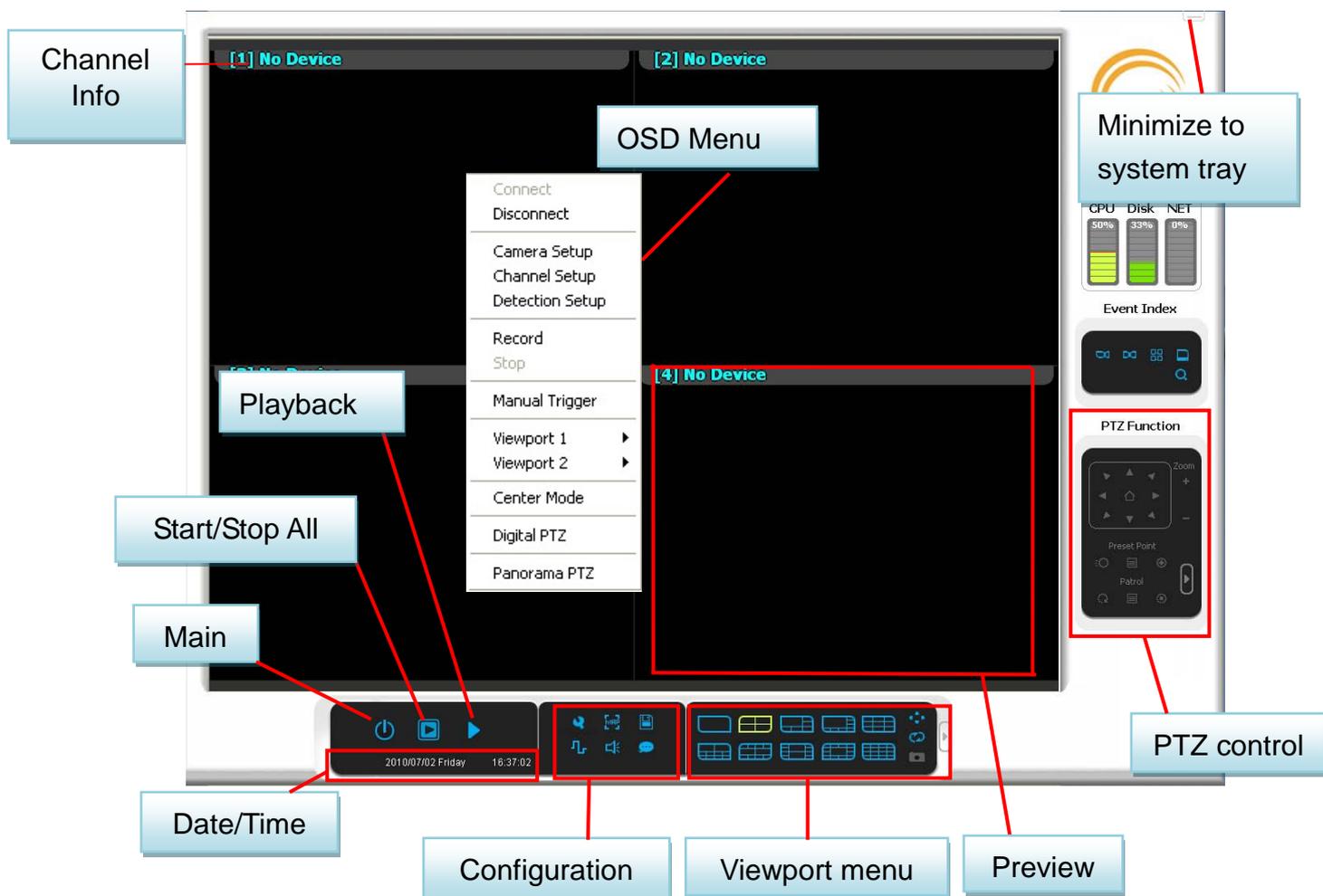
2. Press OK to close playback

When you playback the video, you can controls the video playback panel below, also, you can use the tool on the right panel

<b>Snapshot</b>	Save current playback frame (picture) as static Windows Bitmap image (bmp)
<b>Export</b>	Save playback video in Windows Media compatible video format (wmv)
<b>Print</b>	Print current playback frame (picture)
<b>Zoom In</b>	Use digital zoom to enhance a specific area of interest for playback
<b>Zoom Out</b>	Restore digital zoom enhancement to default recording view size
<b>Bookmark</b>	Set a/multiple specific time(s) of interest for later reviewing process

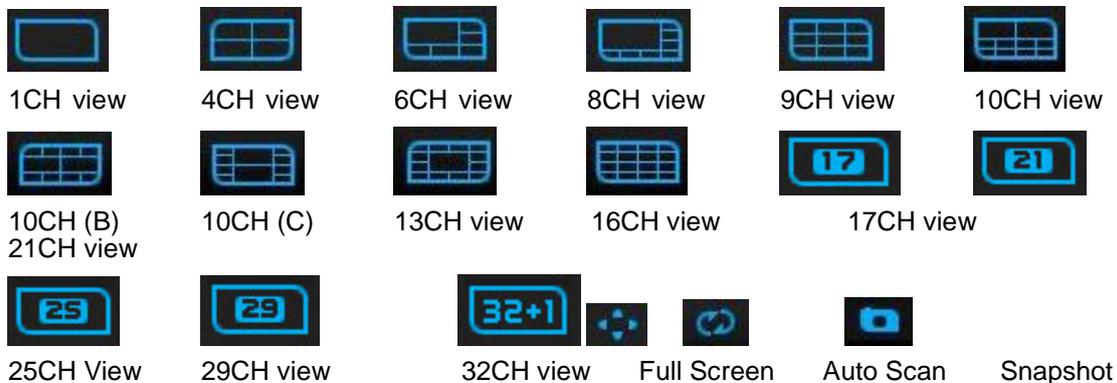
## Main Console Introduction

This is the main console panel of ComproView, which is the most frequent surveillance interface you will be using. Many functions are built-in within the main console panel, which includes Playback, main functional buttons (including system configuration), status indicators, viewport change options, event index, and also PTZ control. Before start using most of these functions on main console panel, you will need to connect channels to cameras. For instructions on camera connections, please refer to Quick Start guide or camera setup chapter in this manual.



## Viewport Menu

There are different view selections to choose from. Use the following buttons to change viewports.



**Full Screen:** full screen the selected channel.

**Auto Scan:** select a viewport type, channels will cycle through.

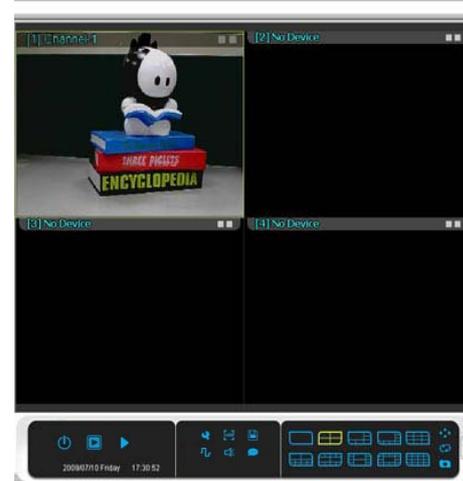
**Snapshot:** Select a channel and click to Snapshot.

**Below are some channel view samples:**

1 channel view



4 channel view



6 channel view



8 channel view



10 channel view (C)



13 channel view



16 channel view



17 channel view



25 channel view



32 channel view



## On Screen Menu

On screen menu is a quick access to several common functional buttons when needed. This menu is activated by a simple mouse right click on any previewing channel of the main console.

**Note:** The On Screen Menu is independent in each channel.



**Connect:** Connect current channel.

**Disconnect:** Disconnect current channel.

**Camera Setup:** Click into Camera setup page.

**Channel Setup:** Click into channel setup page.

**Detection Setup:** Click into detection setup page.

**Record:** Start recording current channel manually.

**Stop:** Stop recording current channel manually.

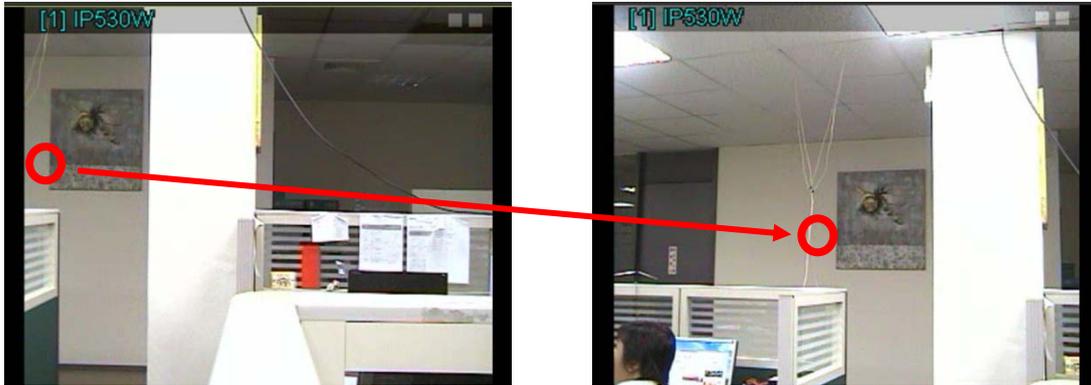
**Manual Trigger:** Manual triggers the current channel.

**Viewport (1~16):** Switch to different channel in this viewport window.

**Viewport (17~32):** Switch to different channel in this viewport window.

## **Center Mode**

In this mode, you can click with mouse to any area on the screen, and the camera will rotate to the area and make it in the center of screen.

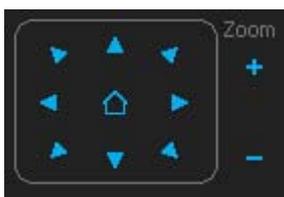


Click the mouse on the red area, and the camera will move to make it in the center.

## **Digital PTZ**

When you enable the Digital PTZ function, the Zoom area will be accessible, and you can click "+" or "-" to zoom your screen.

This function can works for both fixed and digital/optical zoom lens.



Click the "+" button to zoom the screen and click the direction key to move to the area you want.

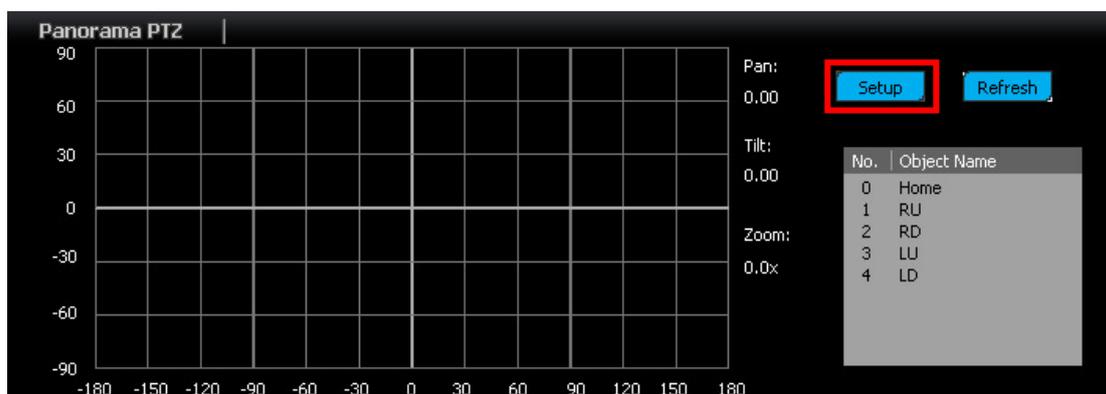
Also, you can direct use your mouse to zoom any area you want.



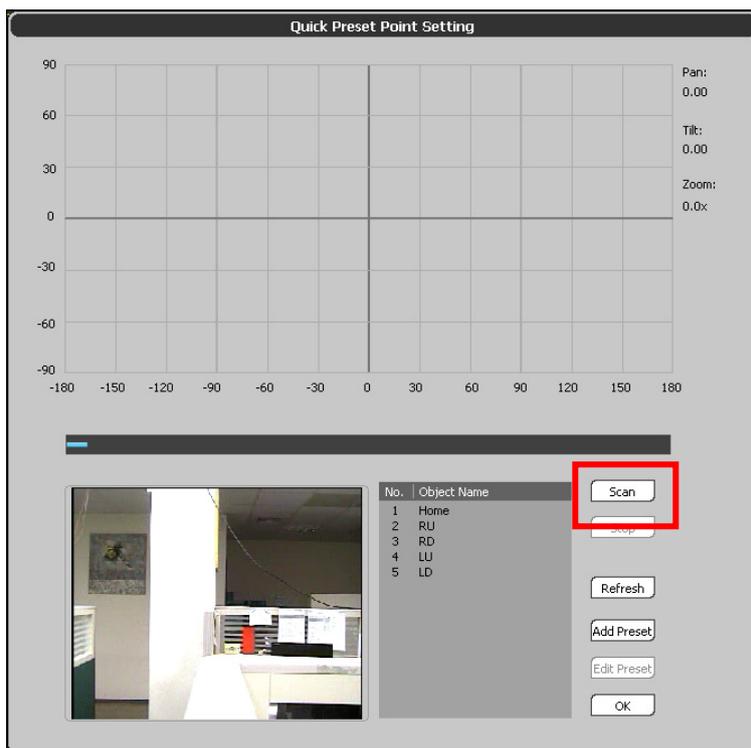
Put your mouse cursor to the area you want, and scroll up the mouse. The area will be zoom in.

## **Panorama PTZ**

When you select the panorama PTZ mode, it will activate the Panorama PTZ control. Please click the "Setup" button to configure for the first time.

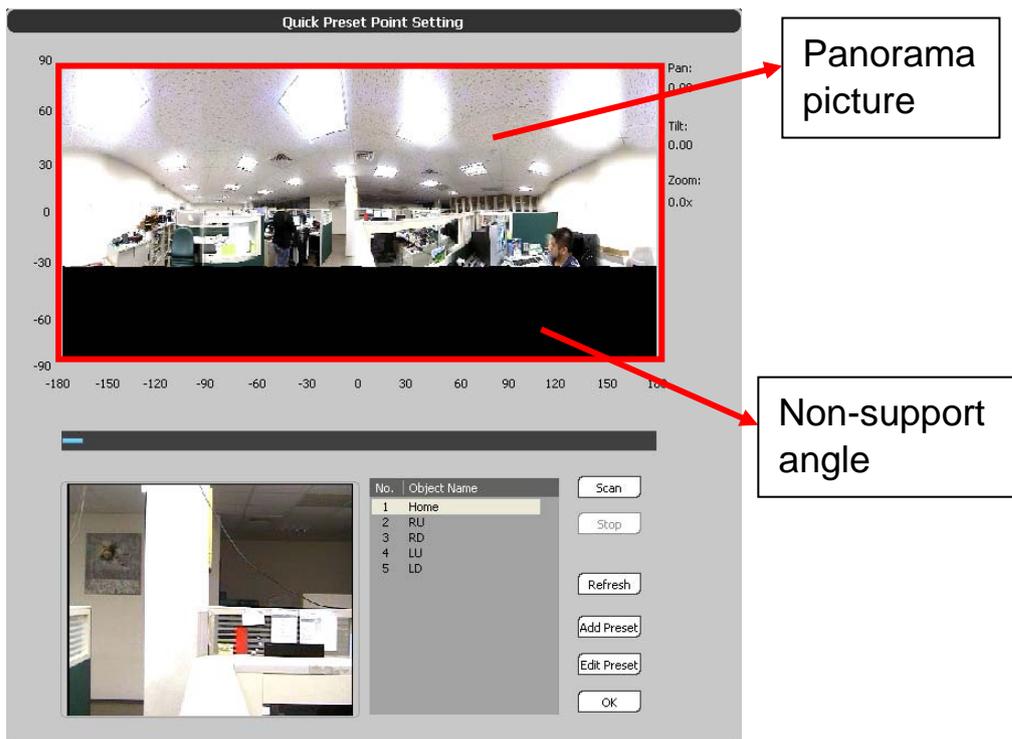


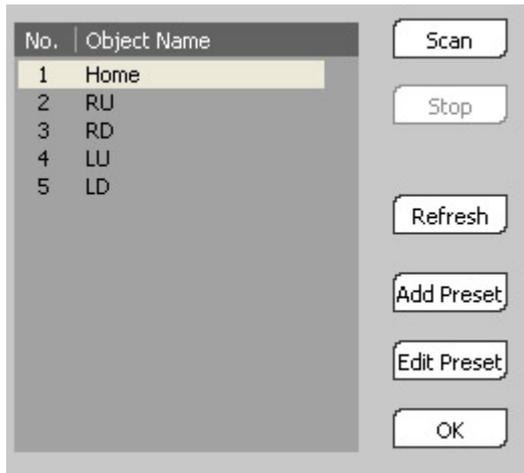
Click "Scan" to scan and generate a panorama picture for your area.



After scanning the whole area, it will show a panorama picture of all visible surveillance area. (Pan View angle from 180 ~ -180 degree, Tilt View angle from 90 ~ -90 degree.)

**Note:** The non-support angles of your camera will shows black. Now you can click any place on the picture, and the camera will move to the selected area.





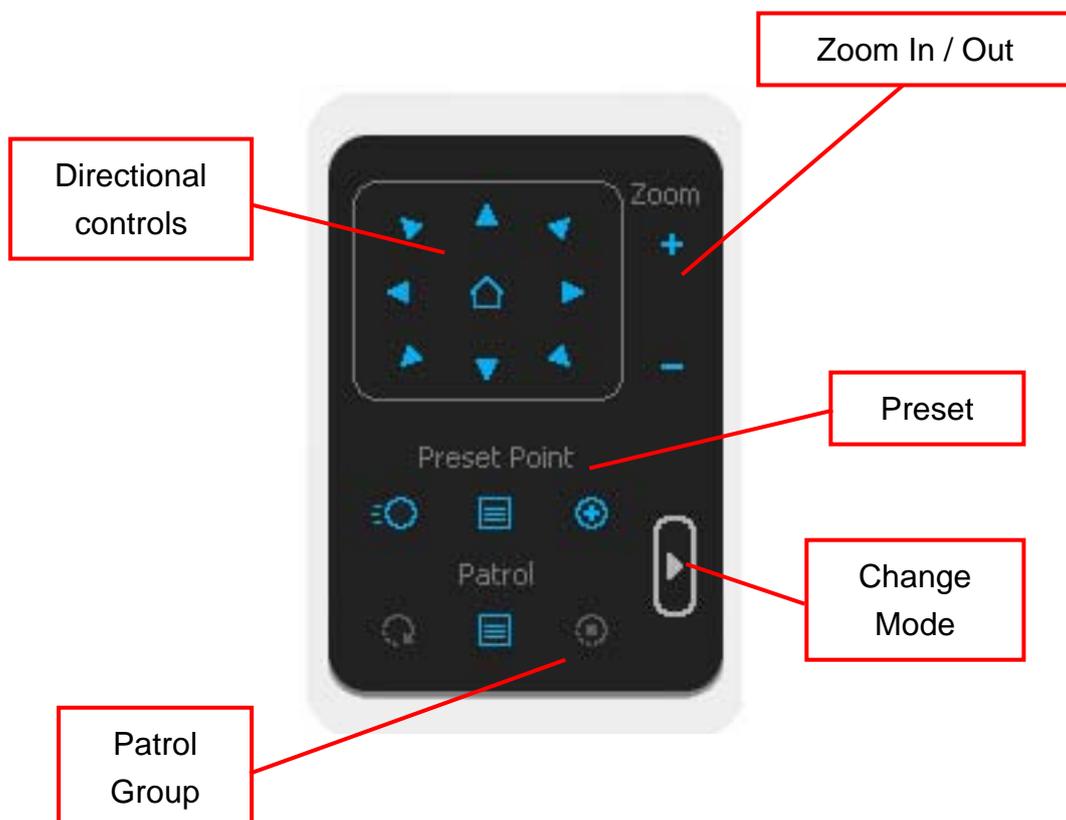
In here, you can Add and Edit Preset Point to the list. Then you can quick switch to check all preset points.

You can use the "Refresh" button to update the pointed area screen.

## **PTZ Control**

If a PTZ camera(s) is connected to ComproView system, you can use PTZ control panel to make PTZ movements of the camera(s).

PTZ (Pan-Tilt-Zoom) camera control is located at the right of the main console panel. Please note that not all cameras support PTZ mode.



**Directional controls:**

8 directional camera movement  
plus home preset points



Up / upper left / upper right / left /  
right / lower left / lower right / Home

**Zoom In:** Enlarge the focused item  
with greater details

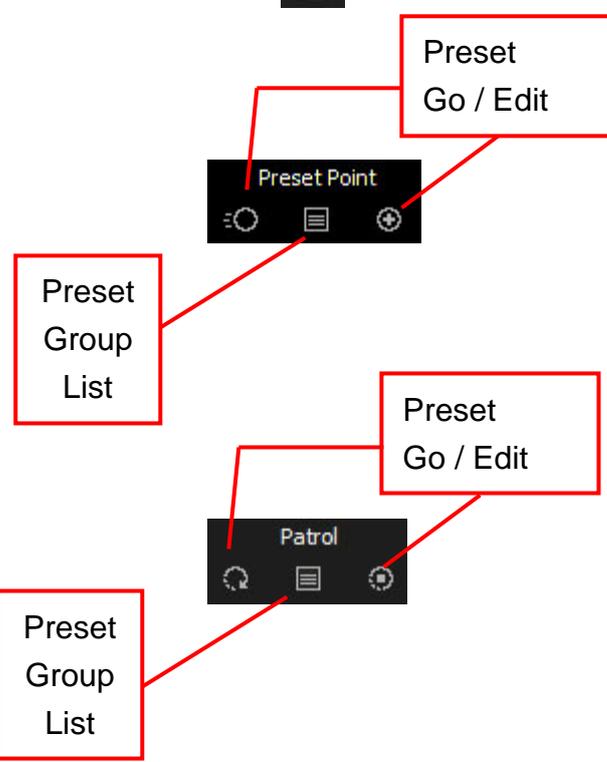
**Zoom Out:** Restore the area of  
view



**Move to Preset Points:** Move PTZ  
camera to the Preset point

**Preset Group:** Create /  
Delete / Edit preset groups

**Edit Preset Points:** Add new  
preset points or edit existing preset  
points



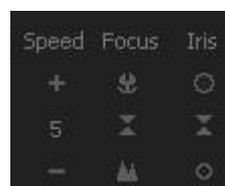
**Patrol Group:** Create /  
Delete / Edit patrol groups

**Patrol Group Go / Stop**

**Speed:** PTZ movement speed  
adjust (+ faster / speed (1~10) / -  
slower)

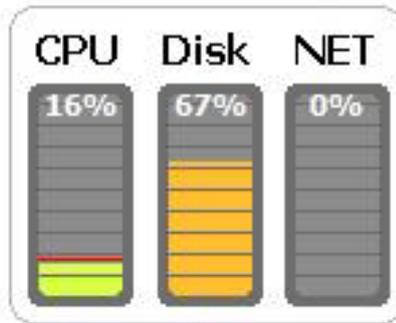
**Focus:** Closer view / Auto focus /  
Further view

**Iris:** Larger opening (brighter) /  
Auto iris / Smaller opening  
(dimmer)



## CPU/Disk/NET Information

The information area in the right side of ComproView shows the current CPU loading, Disk using percentage, and Network loading.



If the CPU loading is too high, please try to close other running applications.

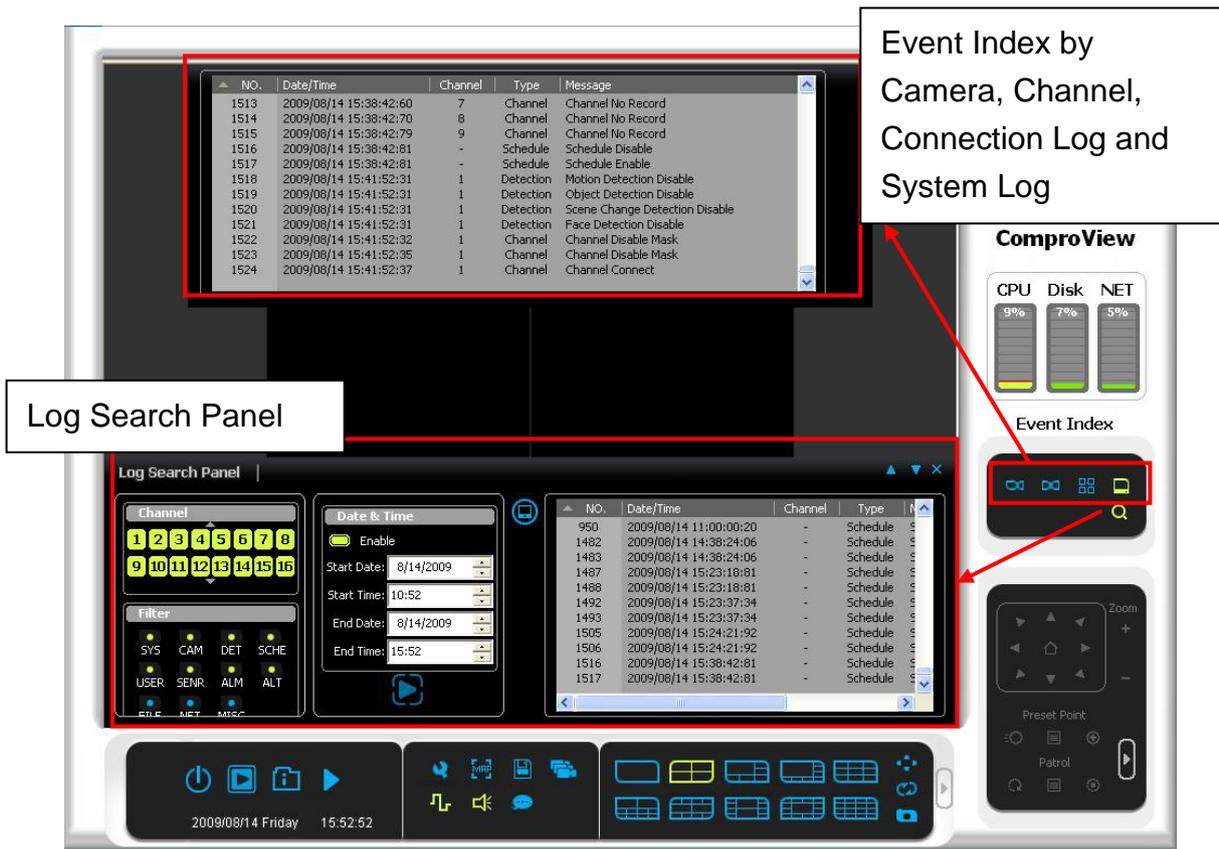
If the system is out of space for storage, the disk will display in red, please go back to set up for more storage space. If the network loading is heavy; please try to close the other network bandwidth required applications. (Ex. P2P bittorrent download, YouTube video watching.)

## Event Index / Log menu

Event Index/Log is a very important component of the surveillance system. It allows users to quickly retrieve information about either channel event, camera event, system user connection, or all other types of system operations.

Log list in ComproView is located at the top center of the main console panel. And the log list can be activated by Event Index which is located at the right of main console.

When log search function button is pressed, the log search panel will open at the bottom part of the screen.



**Log type:** Log records are categorized into Camera, Channel, Connection, and System.

## **How to use the log listing**

Log contains much useful information. Each log stores different types of info. All are sorted by record number (No.), date/time, channel, type (event type), duration (per event), and message (additional information). Click on one of these categories to rank / sort the log list items.

Log records are categorized into Camera, Channel, Connection, and System:

Camera log: record Events triggered from cameras.

Channel log: record Camera connections.

Connection log: record Remote client connections.

System log: record all System operations.

NO.	Date/Time	Channel	Type	Duration	Message
4	2008/05/07 15:36:37:51	16	Motion	-	
5	2008/05/07 15:36:37:51	11	Motion	-	
6	2008/05/07 15:36:37:53	1	Motion	-	
6	2008/05/07 15:36:37:53	1	Motion	1:7	
5	2008/05/07 15:36:37:51	11	Motion	5:3	
4	2008/05/07 15:36:37:51	16	Motion	5:3	
7	2008/05/07 15:38:15:51	6	Motion	-	
8	2008/05/07 15:38:16:48	11	Motion	-	
9	2008/05/07 15:38:16:50	1	Motion	-	
10	2008/05/07 15:38:16:51	16	Motion	-	
9	2008/05/07 15:38:16:50	1	Motion	1:7	
7	2008/05/07 15:38:16:50	1	Motion	1:7	
8	2008/05/07 15:38:16:48	11	Motion	5:1	
10	2008/05/07 15:38:16:51	16	Motion	5:3	

Example of an event listing in the Camera log:

No.	Date/Time	Channel	Type	Duration
9	2008/05/07 15:38:16:50	1	Motion	1:7

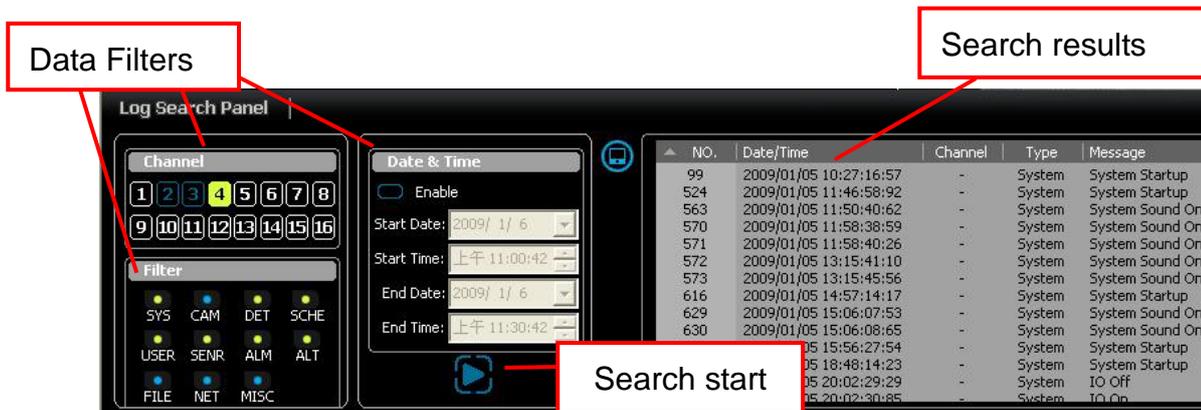
It displays the 9<sup>th</sup> record, incident happened at 15:38:16 (:50 out of: 100 is half a sec long) on 2008/05/07, on channel 1, Motion type event, with duration of 1 and 7/100 second long

## Log search

Log search uses three different types of data filters to locate the exact log file you are looking for. You can use either one or more of these data filters (channels, filters, time) to perform a log search. The Log search result listing will locate on the right side of the log search window.

### Sample log search:

To look up any detection event happening on channel 6, you will start by selecting channel 6, highlight DET (detection event search filter), then press search start. You will obtain a list of channel 6 detection events on the right side (as shown in figure below).



**Channels:** Log search Channel selection (select from CH01~CH32).

**Filters:** Log search Filter selection (SYS, CAM, DET, SCHE, USER, SENR, ALM, ALT, FILE, NET, MISC).

SYS	System event	ALM	Alarm event
CAM	Camera event	ALT	Alert event
DET	Detection event	FILE	File event
SCHE	Schedule event	NET	Network event
USER	User event	MISC	Misc. event
SENR	Sensor event		

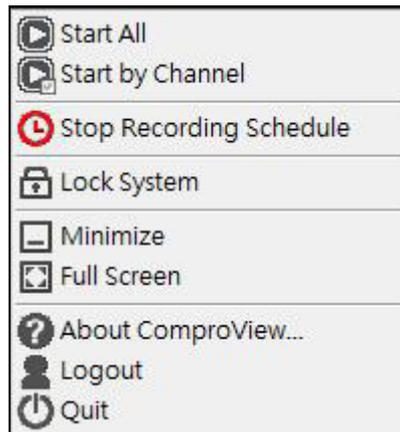
**Date/Time:** Log search Start date/time, End date/time

## Main Console Panel

The followings are the main functional key buttons on ComproView main console panel.



**Main:** Logout / Minimize / Quit ComproView.



**Start All:** Start monitoring task on all cameras.

**Start by Channel:** Start to monitor by selected channels. (A camera selection window will pop up).

**Stop Recording Schedule:** You can click here to start or stop processing the schedule recording.

**Lock System:** Lock the system to prevent unauthorized access. It requires entering the username and password to unlock.

**Minimize:** Minimize the ComproView to system tray.

**Full Screen:** Toggle to full screen mode.

**About ComproView:** The information summary and version control number of this ComproView software.

**Logout:** Logout the current user.

**Quit:** Quit ComproView.



**Start/Stop All:** This function starts/stop all of the monitoring in ComproView.



**Playback mode:** Open Playback window. See Playback (Page 43).



**Setup:** Include setup menus for System, Camera, Detection, Schedule, User, I/O, Alert, Storage and Network (Page 54).



**EMap:** Open EMap menu. See Emap (Page 47).



**Backup:** surveillance system backup settings, providing either manual backup or scheduled backup (Page 49).



**I/O Control:** I/O Control Enable/Disable switch.



**System Sound:** System sound on/off.

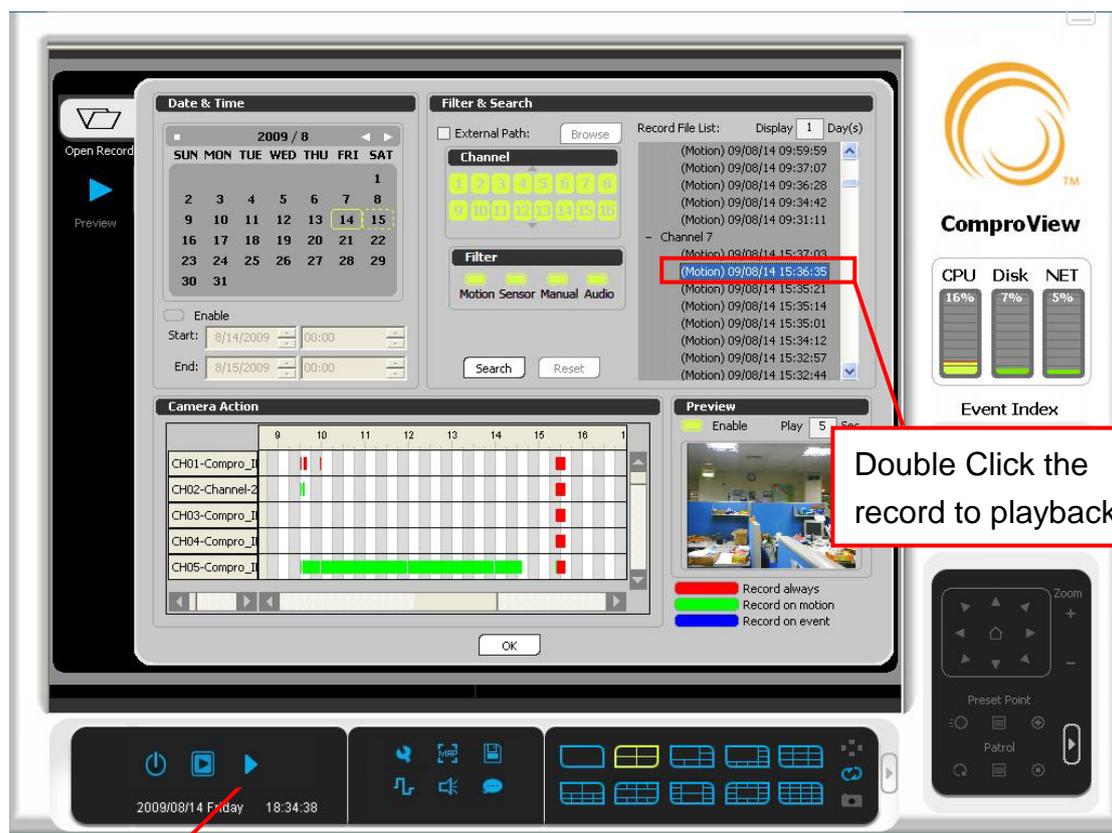


**Talk:** If you have microphone, you can start talking directly to the people at the camera side.

## Playback

This is the Playback menu page. All available recordings done by ComproView system can be accessed through here. An intuitive smart search toolbox is built-in here to help you identify target specific critical event within minutes among all recorded files from the database.

After Playback menu is opened, you will be able to see a list of recorded files which appear at the upper-right side of the Playback menu. These files can be identified by its type of recordings (Motion/Event/Schedule) and time of recording. Just choose a recording item from the list and double click to play or use the play button in the Play control panel to play the file.



Click Playback button to open the Playback menu

**Date / Time:** Determine the date & time range by selecting start/end time frame to list all available recorded files.

**Channel:** Select which channel(s) you would like to search.

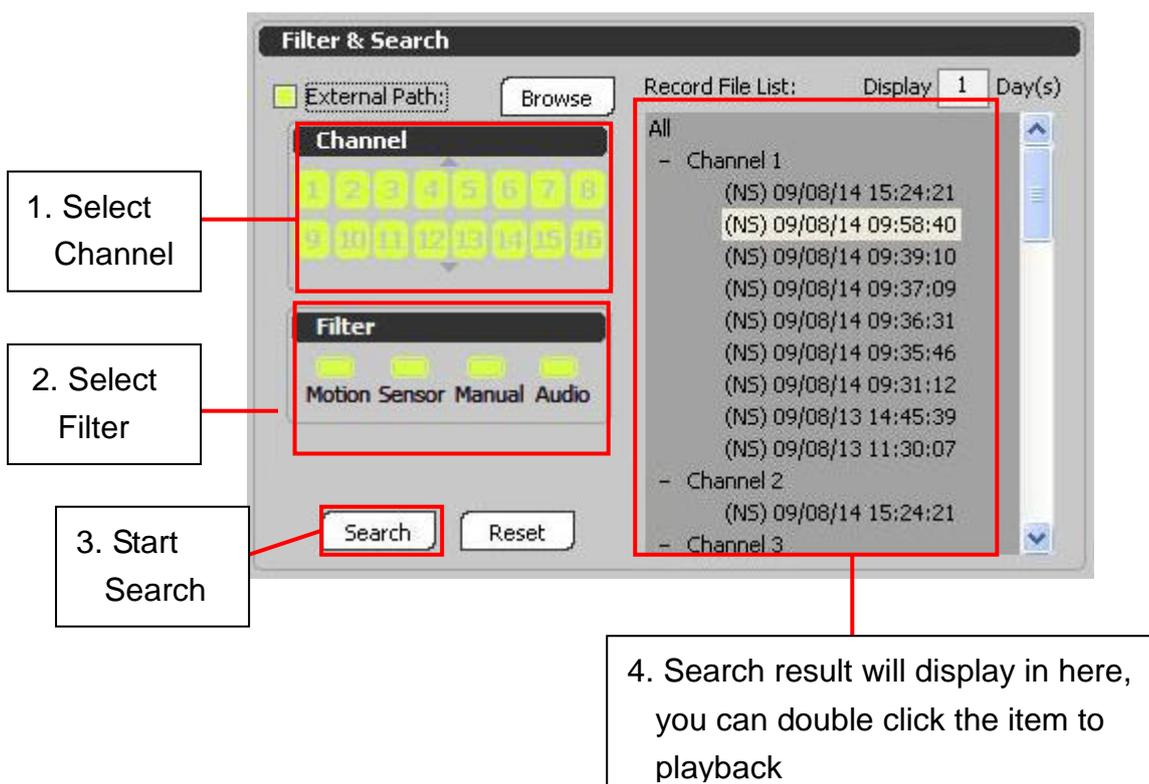
1. Select the date and time frame. Enter the Start Date/Time and End Date/Time.



*Time search enabled with Start time  
(12:59:00 PM, 2009/1/5) to End time  
(9:33:25 PM, 2009/1/6)*

2. Select camera(s) or channel(s) that might contain event you are looking for.

3. Apply smart filters like Motion, Sensor, Manual and Audio to narrow down selection.



**Filter:** To choose one of them (Motion, Sensor, Manual and Audio) to search.

**Record File List:** The entire file listed at this section.

**Camera Action:**

To display the selected file of Record File List with correspondence.

**Preview play:**

Preview the selected video for 3-10 seconds when you click the recorded file from the list.

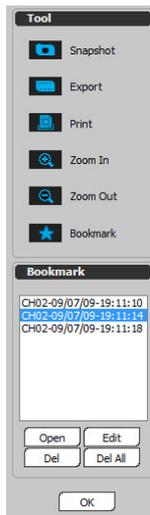
Select the channel and time, double click to playback

Scroll to change the time scale

Scroll here to search within 24

Scroll here to select channels

Progress bar



There are some useful tools when you playback the video:

**Snapshot:** Snapshot screen to bmp file.

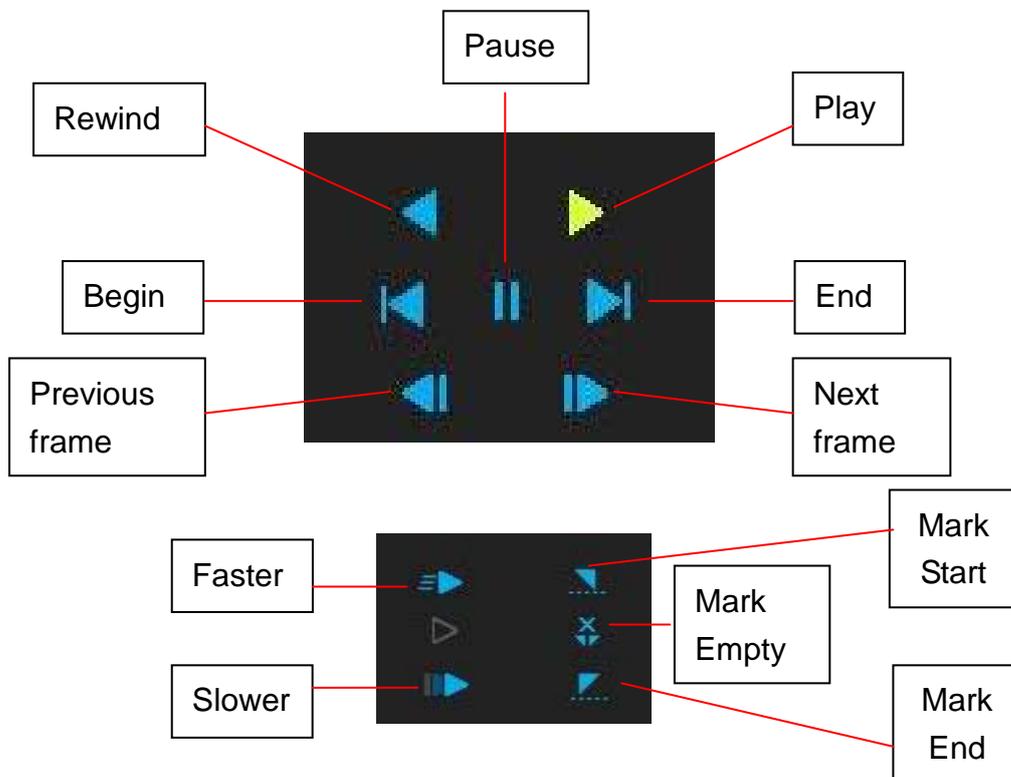
**Export:** Export video to .wmv file format.

**Print:** Print out the current screen.

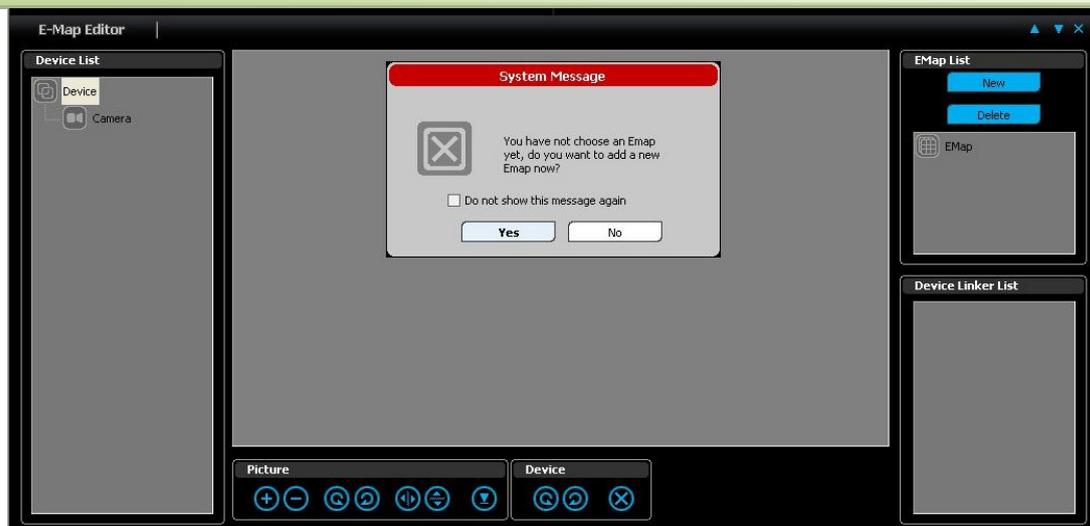
**Zoom In:** Zoom In video screen.

**Zoom Out:** Zoom Out video screen.

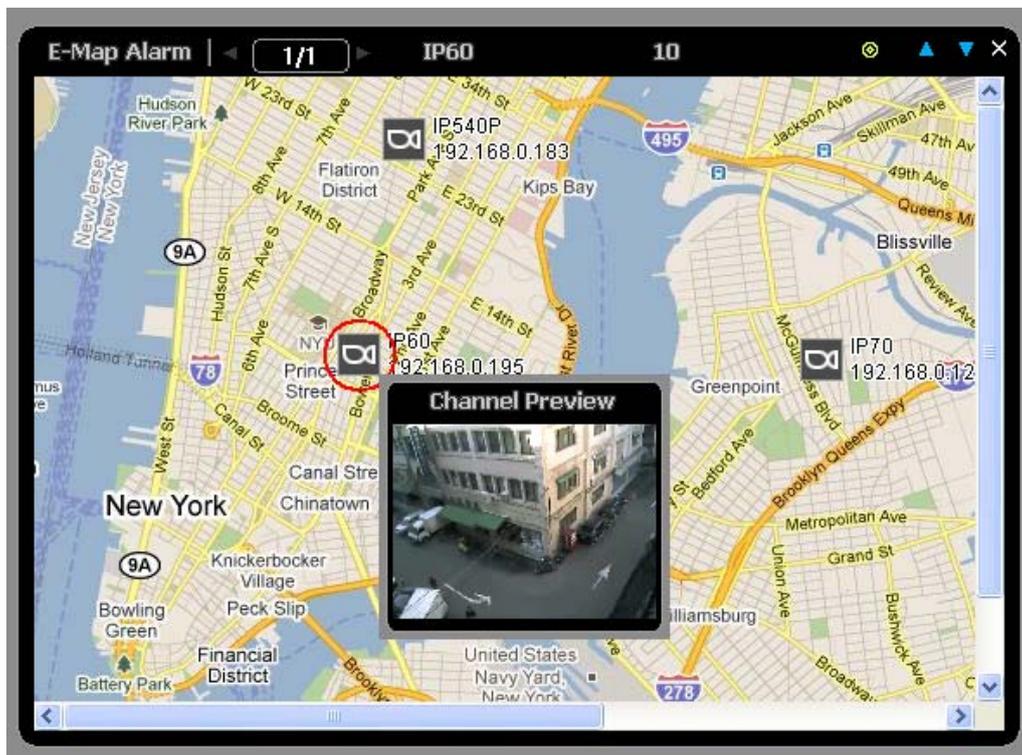
**Bookmark:** Bookmark specific time frame (you need to pause the frame you want) and mark it for future use. You can Open, Edit, Delete, and Delete All Bookmarks of the playback files.



# EMap



EMap is an excellent tool for security personnel to have an overview of your surveillance system intuitively. When an event like break-in (motion) happens, the system will pop up a graphical floor plan with live view window that allows user to know the exact location and what to expect within seconds, it also allows an immediate reaction of system operator and to conduct all the required security protocols directly,



**Note:** The system will prompt you to add a new EMap, if you are running it for the first time.

## How to set up EMap

On the right side of the EMap editor menu, you will see the following.

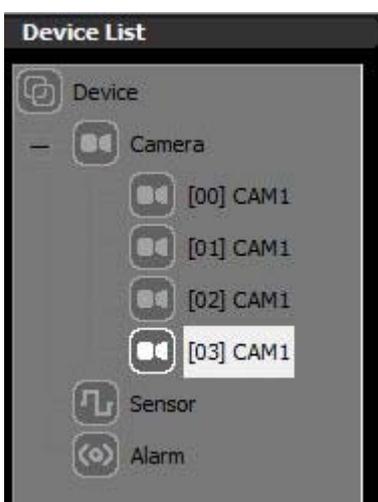


**New:** load up new image for EMap.

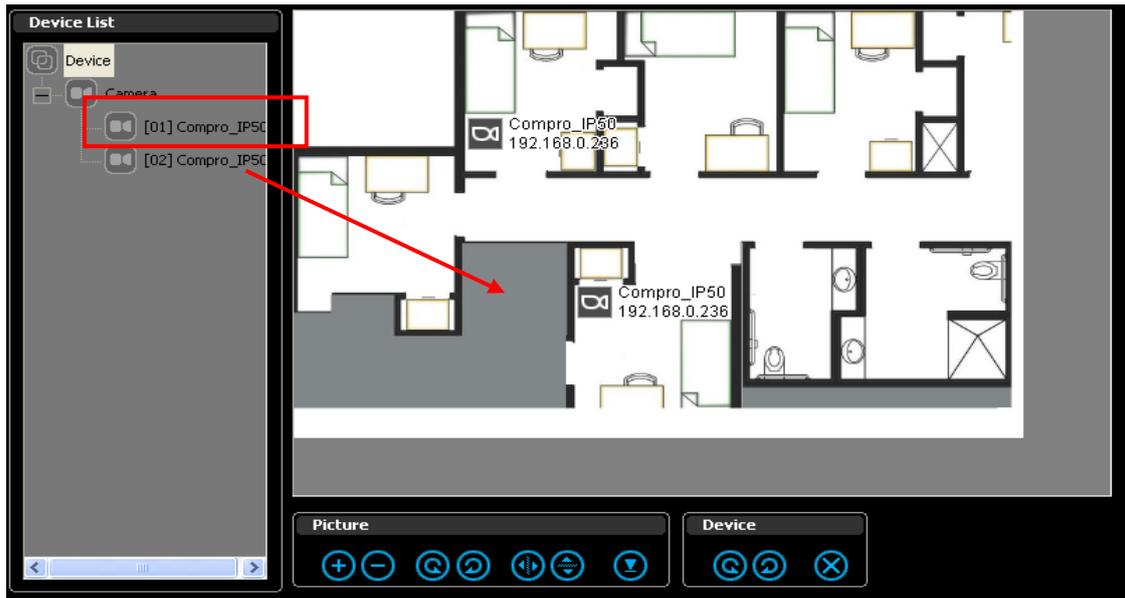
**Delete:** delete current image loaded EMap.

You can use the picture control bar to change the map appearance

- Zoom in/out
- Rotate clockwise/counter-clockwise
- Flip horizontally/vertically
- Reset (back to original map orientation).



Then locate all available devices from the list at the left side of the EMap

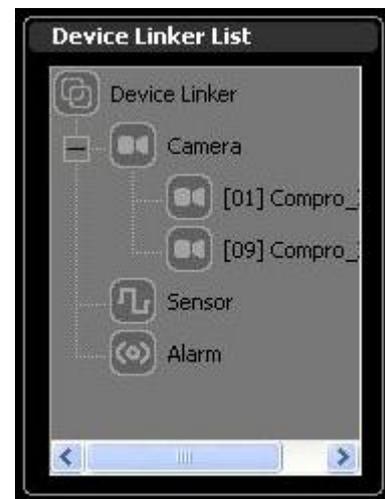


Use Drag&Drop procedure to place them on the EMap. For each device icon, you can also rotate clockwise/counter-clockwise and delete to remove from the Emap (device icon).

### At the Device Linker List

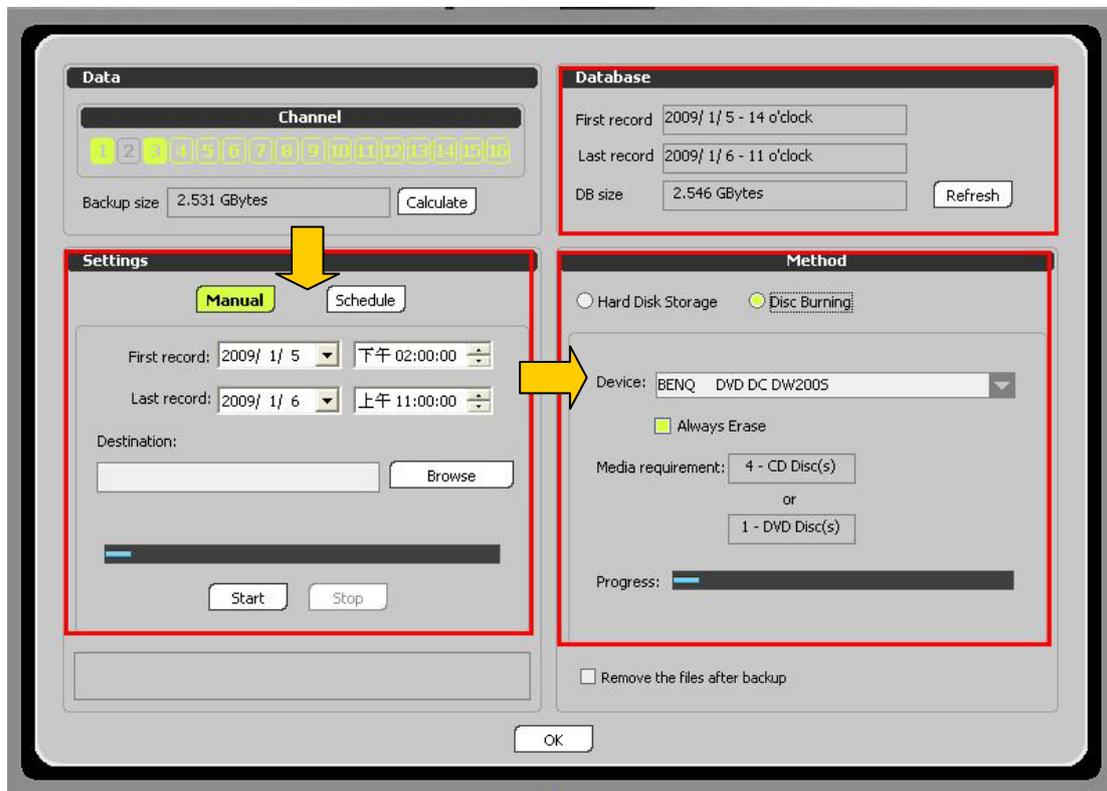
Here you can see a list with all devices connected to ComproView system, including all cameras (IP and analog) and other I/O devices (sensors and alarms).

After all devices are in place, you would be able to access each device on the EMap through the Device Linker list on the right side.



## Backup

When a need arises for data backups, ComproView provides an easy and quick method of backup process.



1. Select which cameras (channels) recordings should be archived.
2. Select manually or by schedule control to perform backup process
3. Select where to store the video archives (Hard Disk Storage or Disc Burning)
4. Press calculate button to estimate if required storage space is available and then press Start button to execute backup process.

**Hard Disk Storage:** utilize hard disk space to perform data backup. (Note: must add backup directory in Storage menu).

**Disc Burning:** utilize Disc Burning to perform data backup. Make sure there is a Disc Burning device available in the system. Then select what **Channels** of past recording data will be archived.

**Channel (CH1~32):** select what channels of records will be archived.

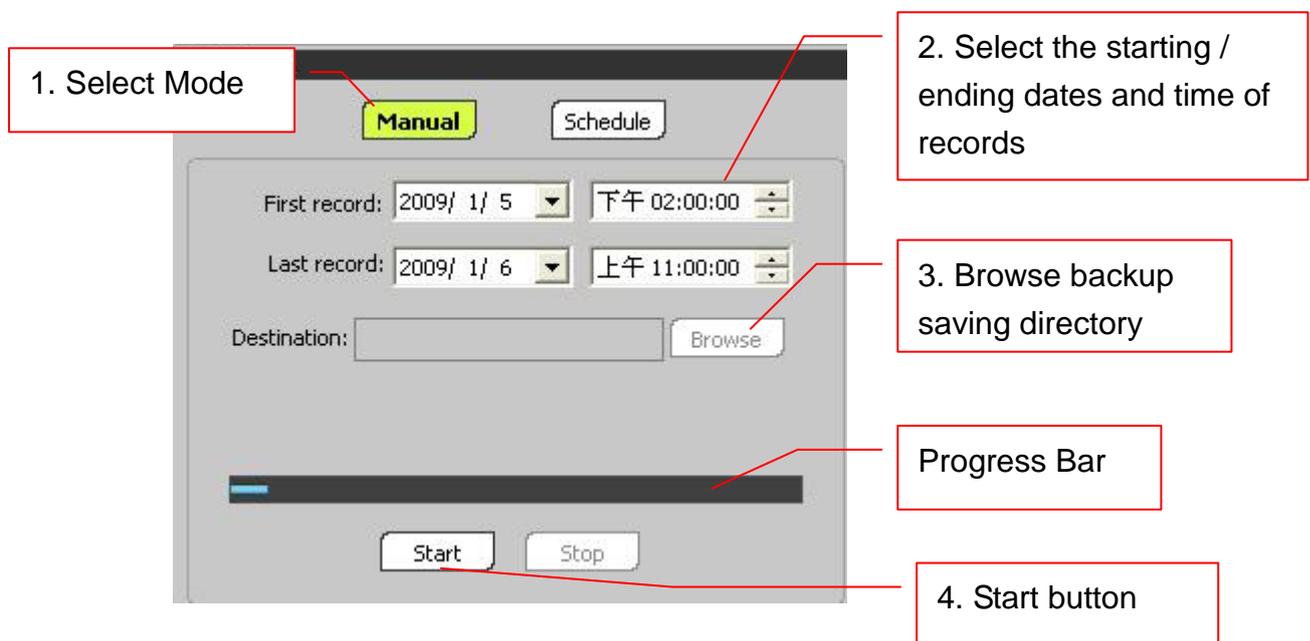
Settings:

You may need to select either **Manual** mode or **Schedule** mode.

If a user would like to backup now, select **Manual** mode.

If a user would like to backup in a particular time in the future, select **Schedule** mode.

## How to Back Up in Manual mode



After selecting backup method and channels, select **Manual** mode. Set the time frame of data to be archived, both the beginning time (**First record**, date and time) and the end time (**Last record**, date and time).

Then, browse the **Destination** directory.

Lastly, press **Start** and begin backup process.

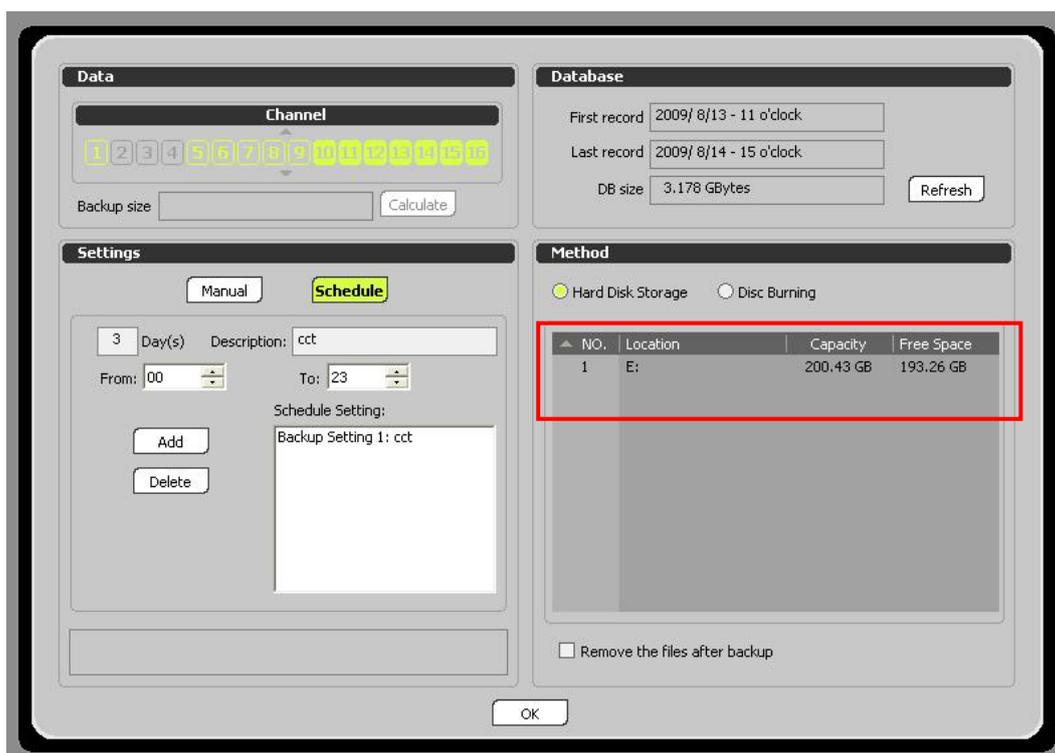
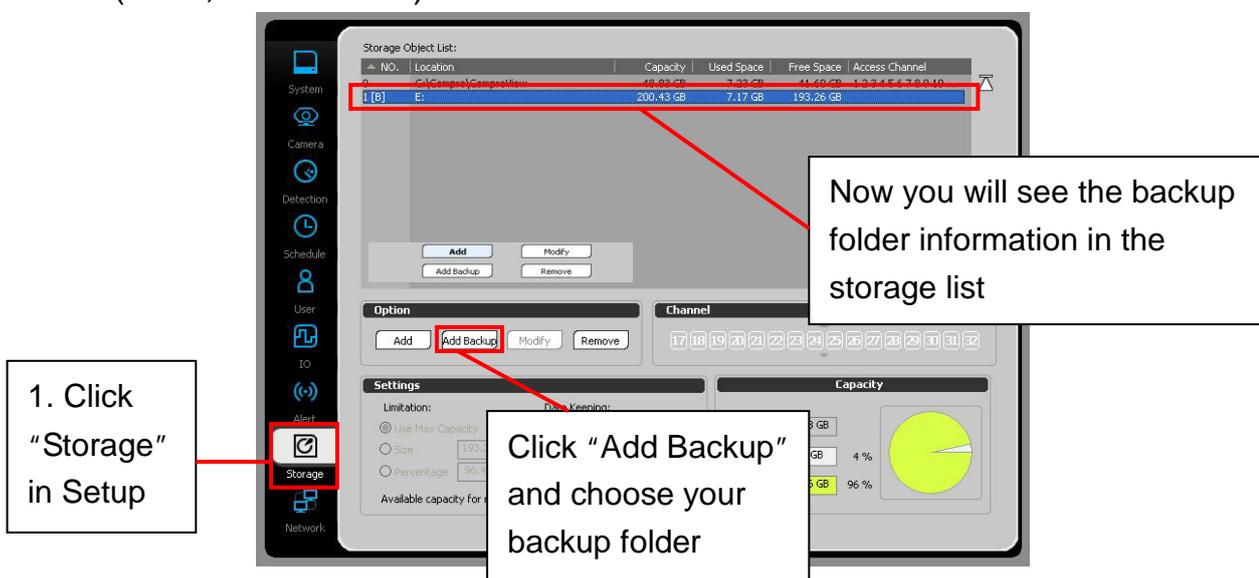
Backup progress bar is provided above **Start** button to help you monitor current backup progress.

## How to Back Up in Schedule Mode

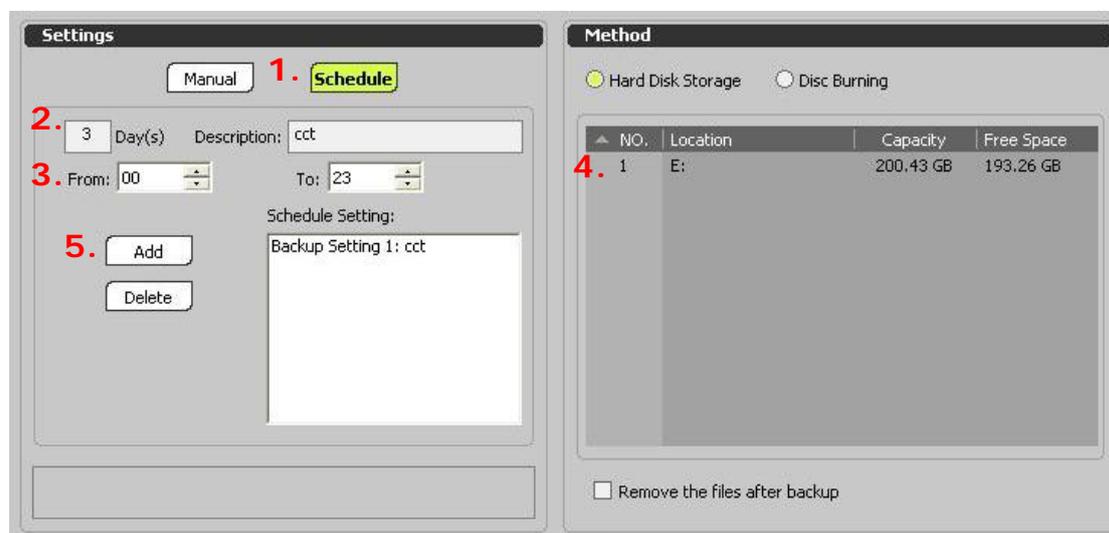
Please select the backup method (Hard Disk storage, Disc Burning) first, then select **Schedule** mode.

If there is no any storage device list on the Hard disk Storage location table, please select your back up location from Setup→Storage.

Now you will see the backup drive has been setup.  
(No.1, Location E:)



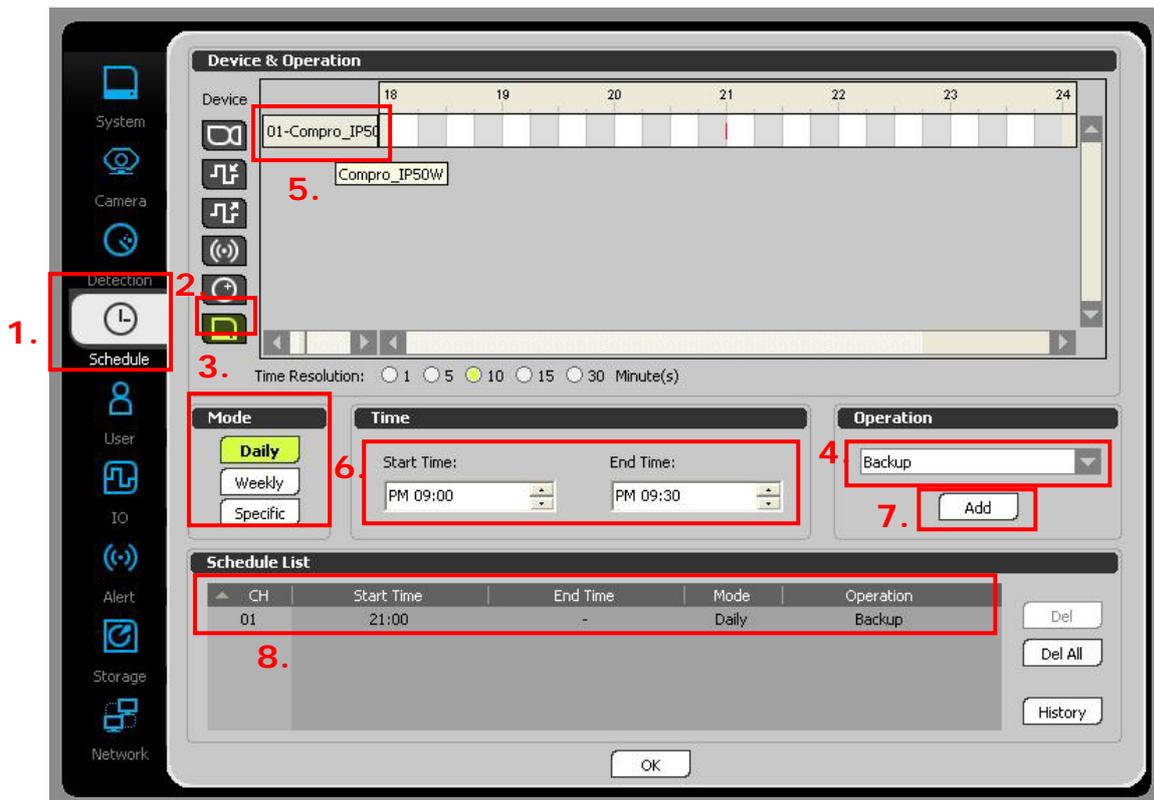
- Step1:** Click "**Schedule**" for schedule backup settings.
- Step2:** Enter the days for backup and backup description.
- Step3:** Enter the start and end time. (From...To..., by hour.)
- Step4:** Click the storage location on the right side.
- Step5:** Click "**Add**" to add schedule backup settings.



After backup schedule profile is created, now you can put system backup into your surveillance scheduling. Please follow the steps below for setup scheduled backup.

- Step1:** Click on "**Schedule**" tab of the setup.
- Step2:** Select "**System**" icon in the Device and Operation block.
- Step3:** Select mode in "**Daily**", "**Weekly**" or "**Specific**".
- Step4:** Select "**Backup**" in the operation.
- Step5:** Select the channel/IP cam you want to add schedule.
- Step6:** Drag the timeline to set up start/end time or direct input the time in the Time block.
- Step7:** Click "**Add**" in the operation to add backup schedule.
- Step8:** Now the backup schedule has been add on the schedule list.

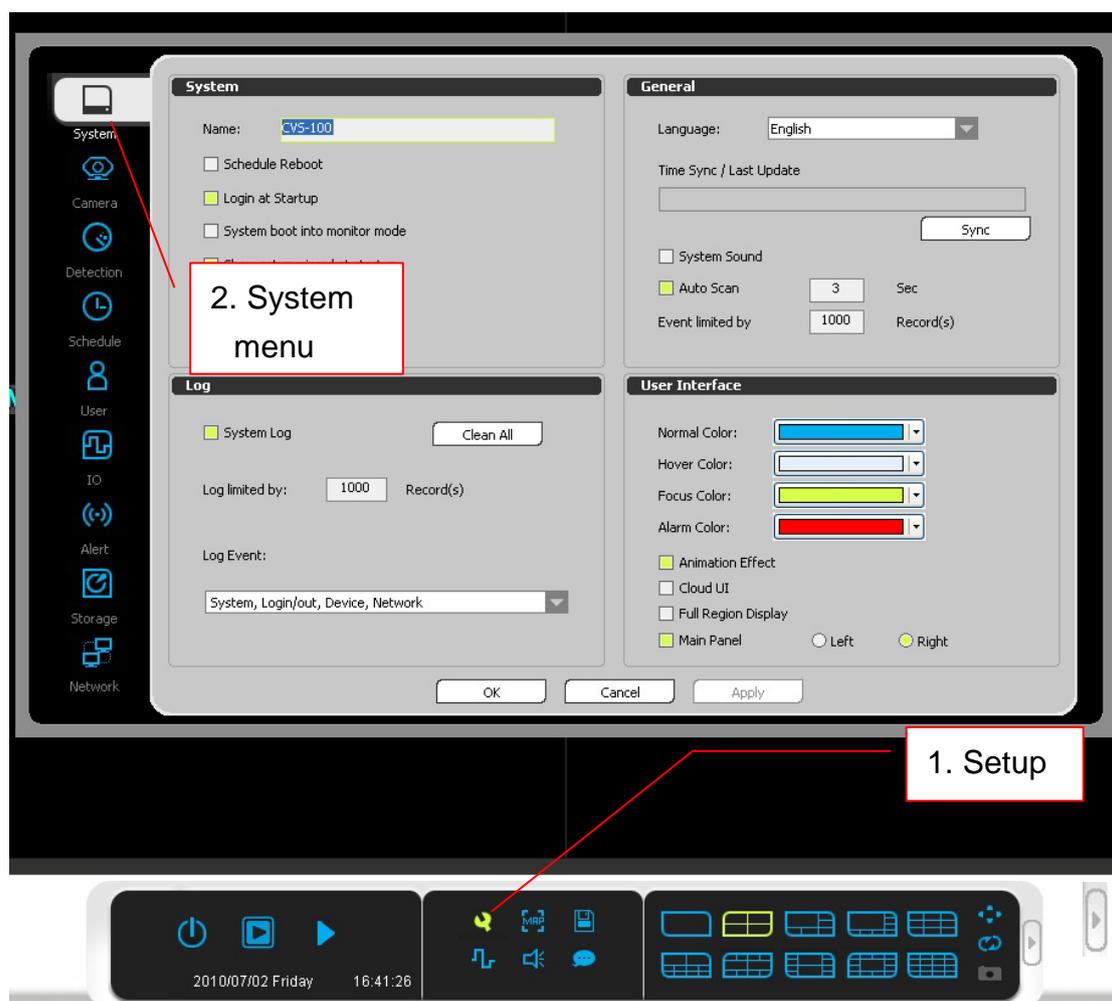
(The End Time will not be display for it needs to end by the whole data has been backup.)



## Setup / Configuration

Before starting to use ComproView, there are a few system settings should be configured. System setup menu can be accessed through System menu in the Setup.

### System



Settings are categorized into System, General, User Interface and Log.



## System

- **Schedule Reboot:** The system will reboot at the schedule time. (Please refer to the schedule setup section.)
- **Login at Startup:** ComproView will automatically login the user with respect to the user name and password entered at setup.
- **System boot into monitor mode:** When checked, the system will automatically connect to cameras and begin monitoring when system starts up.
- **Show setup wizard at startup:** When checked, the setup wizard will display when you open the ComproView.
- **Loading Limitation:** When checked, the system will automatically adjust the channel frame rate for system loading balance.
- **Enable system hint:** Allow system to reminder you about the function.

## General

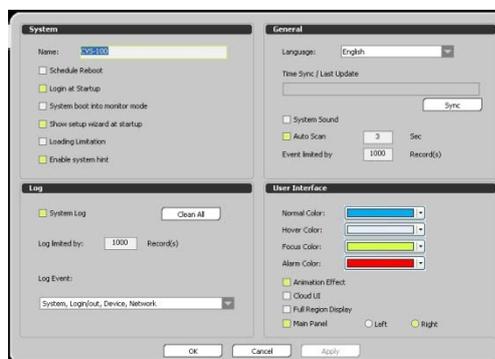
- **Language:** Different system language selections can be chosen from here.
- **Sync (time):** This will synchronize the system clock with the operating system.
- **System sound:** This will turn on / off the system sound.
- **Auto scan:** 1-60 sec.
- Even limited by 50-2000 records.

## User Interface

- **Normal / Hover / Focus / Alarm Color:** Each mouse/operation status can be displayed using different color.
- **Animation Effect:** Fade in / out animation when a window is opened / closed.
- **Cloud UI:** Enable / Disable this option. By enabling this option, the ComproView UI will switch to "display mode" once the cursor move out.



Cloud UI enable – All the option will be display only



Cloud UI disable – All the option will shows up for select

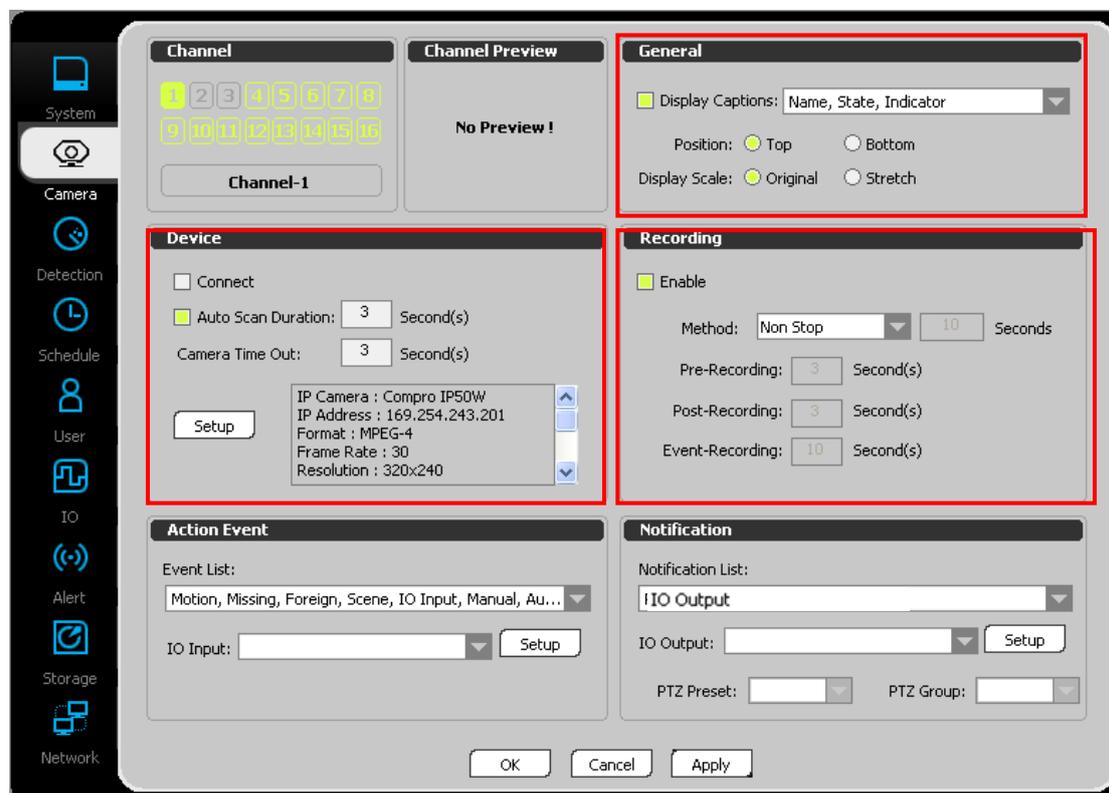
- **Full Region Display:** ComproView will auto fit user's monitor size / resolution settings.
- **Main Panel (Left/Right):** It will define the location of Main Panel.

## **Log**

- **System log:** Enable / Disable system log. System log is a tool to record ComproView system operations.
- Log limited by 50-2000 records.
- **Log Event:** Set the types of events to be recorded in system log. (System, Login/out, Device, Network.)

## Camera Setup

This is the Camera setup menu where you will configure the settings to connect the cameras on different channels.



### Channel and Chanel Preview

Channel selection, from channel 1 to channel 32, and preview on the right side.

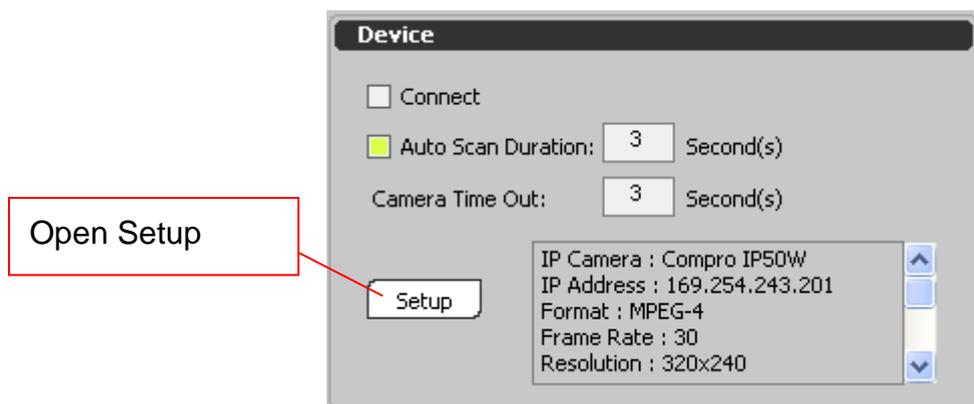
### Device

- **Connect:** Connect / Disconnect the selected channel (s).
- **Auto scan duration:** 1-60 sec.
- **Camera time out:** 3-60 sec.

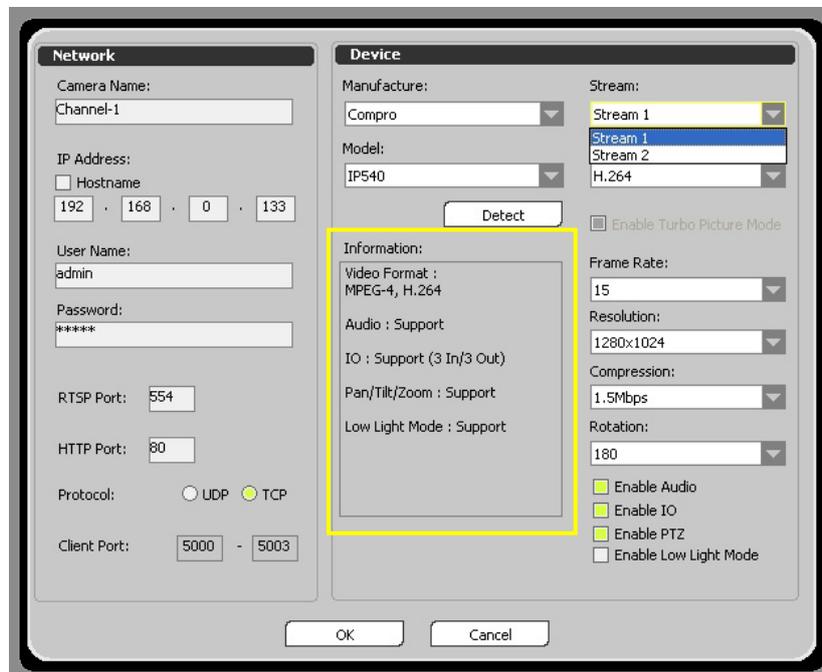
## IP Camera Setup

ComproView provides excellent support for IP Cameras from numerous different manufacturers. This section will guide you through how to establish IP camera connection.

In Camera setup menu, select the IP Camera and open the setup page in the Device section.



Then you will see the setup page.  
(As shown in the figure below.)



The yellow Information box (in the figure above) displays support information from the IP Camera you are using.

## Network

- **Camera Name:** Enter name to be displayed on the screen for this camera.
- **IP Address:** Enter the IP Address for this IP camera.
- **User Name:** Enter the login username for this IP camera.
- **Password:** Enter the login password for this IP camera.
- **RTSP Port:** Enter the assigned RTSP numeric for this IP camera.
- **HTTP Port:** Enter the assigned HTTP numeric for this IP camera.
- **Protocol:** Select using UDP or TCP protocol.
- **Client Port:** Enter the client port (Default 5000-5003).

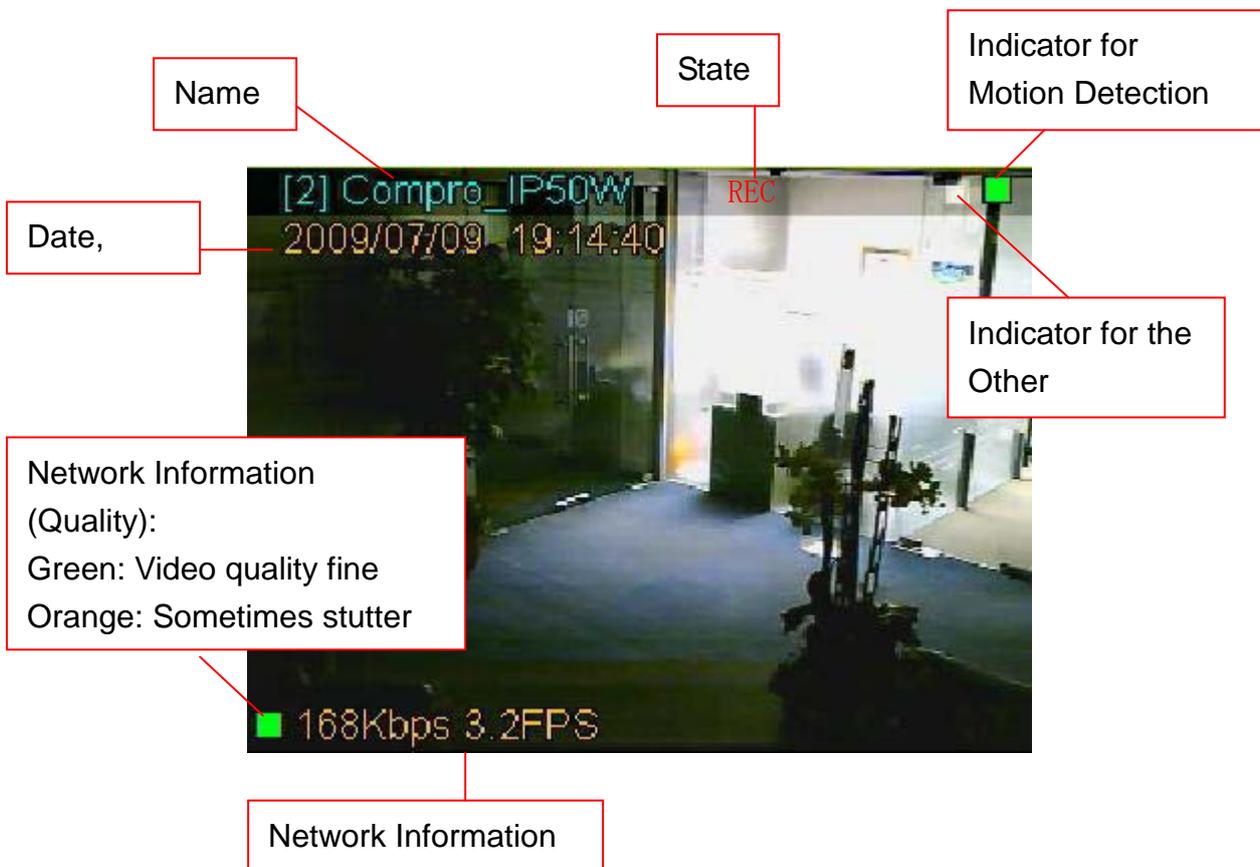
## Device

- **Manufacture:** Select the manufacturer of this IP camera from the database.
- **Model:** Select the IP camera model from the list.
- **Detect:** Auto Detect the IP camera model for selection.
- **Information:** Important summary information of this IP camera will be displayed here.
- **Stream:** Select which video stream to be used.
- **Format:** Select the video compression codec to use.
- **Frame Rate:** Set the frame rate for this IP camera.
- **Resolution:** Select the resolution for this IP camera.
- **Compression:** Set the compression ratio for this IP camera (the lower the compression, the clearer the image).
- **Rotation:** set the image rotation for this IP camera.
- **Enable Audio:** Enable / Disable audio transmission.
- **Enable IO:** Enable / Disable IO input / output.
- **Enable PTZ:** Enable / Disable PTZ features.
- **Enable Low Light Mode:** Enable / Disable low light mode to get clearer video.

After you have finished configuring these settings, press OK to exit IP Camera setup page. Then at the bottom of Camera page, press Apply to apply the changes. The selected channels should connect to their corresponding cameras.

**General**

- **Display Captions (Name, Date, Time, State, Indicator, and Network Information):** Select what information will be displayed on the screen.
- **Position (Top / Bottom):** The location captions will be displayed.
- **Display Scale (Original / Stretch):** Select the display scale type for this channel, either the original display size or stretched display to fit the screen.



## Recording

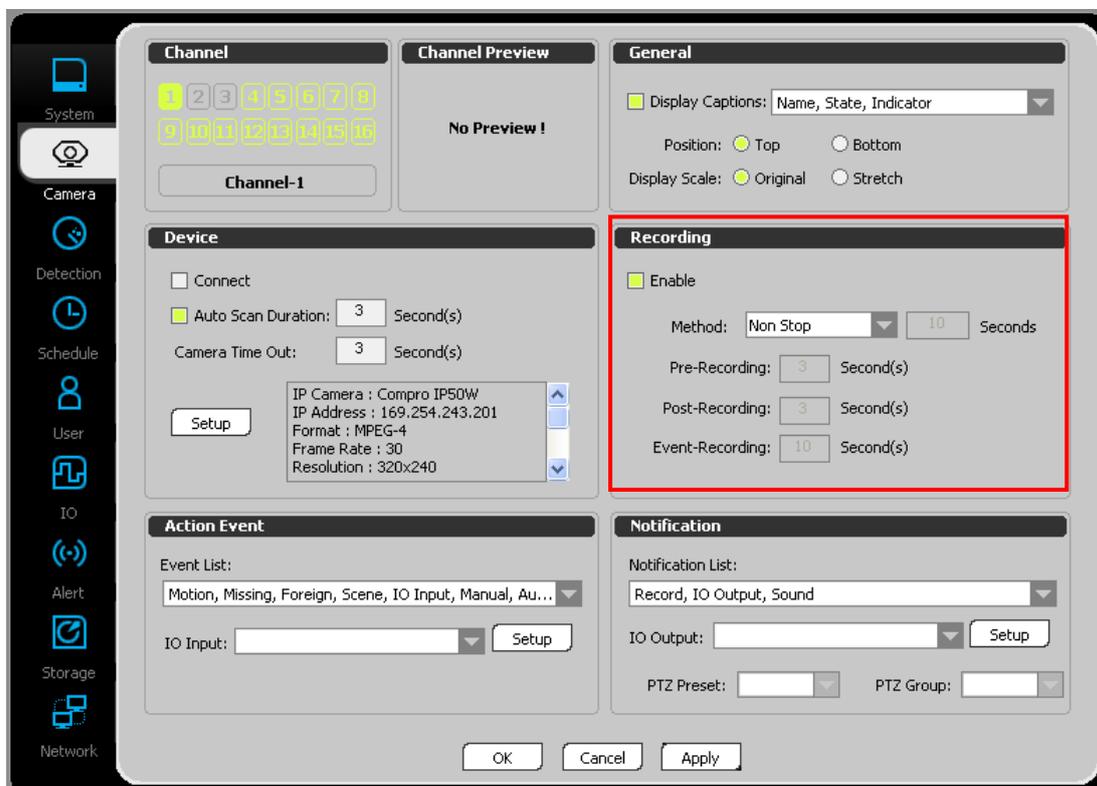
Recording is an essential part of surveillance video management. There are many recording options built-in for all kinds of occasions. Select from four different types of recording methods (Non Stop, Event, and Time Lapse) below.

### To Setup Recording for IP Camera:

Open "Setup" on the main console panel and click on "Camera" menu page. Make sure IP Camera is selected in Device section. In the Recording section, select "Enable", choose the "Recording Method" (Non Stop, Event, Time Lapse).

Make sure at least one type of detection is enabled and define the values for "Pre-Recording", "Post-Recording" and "Event-Recording" duration if Event or Time Lapse is chosen.

Then, at the bottom of Camera Setup page, press "Apply" to activate the recording settings.



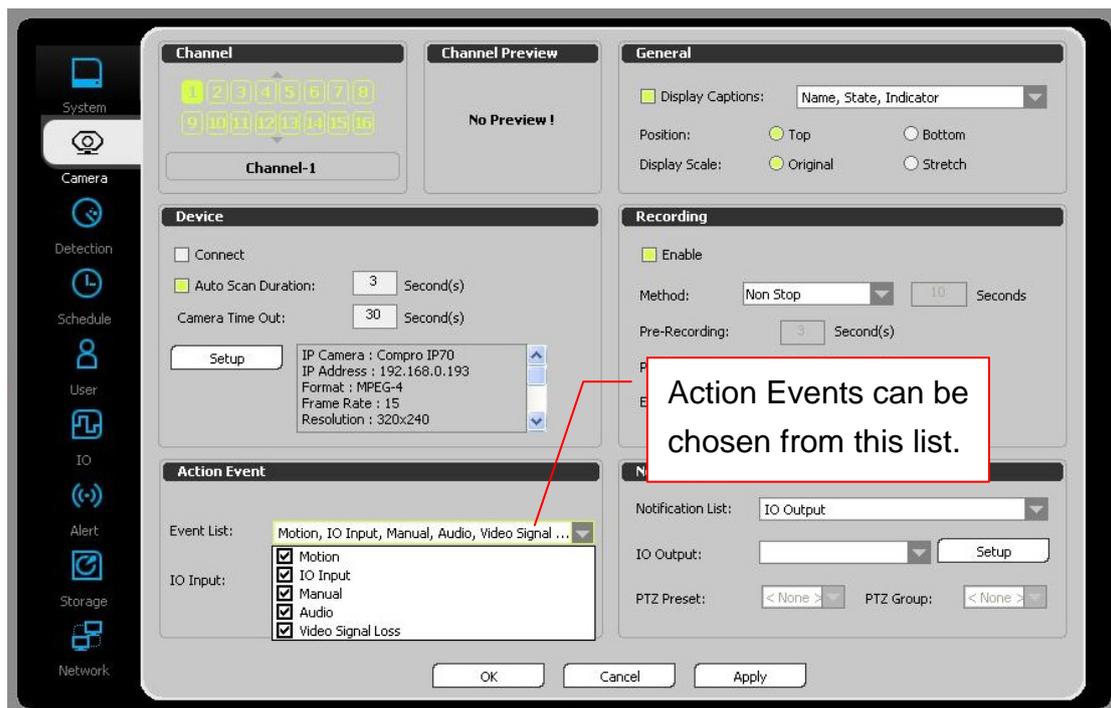
- **Enable / Disable:** Start / Stop Recording.
- **Recording Method:** Three recording methods are provided in ComproView. They are Non Stop, Event, and Time Lapse recording.
  - **Non Stop recording:** This is an always recording option. Once enabled, ComproView will record video from selected channel(s) by user.
  - **Event recording:** This mode only starts recording when an event is triggered. At least one type of detections (Motion, or Audio) needs to be enabled to trigger recording.
  - **Time Lapse recording:** This mode will start recording when an event is triggered and will lapse a user-defined amount of recording time. At least one type of detections (Motion or Audio) needs to be enabled to trigger recording. System will activate recording for the amount of time defined by Time Lapse setting, regardless of triggered event duration.
- **Pre-Recording:** 0-30 sec.
- **Post-Recording:** 0-30 sec.
- **Event recording:** 1-120 sec.

## Action Event (Alert)

Camera alerts are configured in this section. Action Events (from Detection) and Notifications (from Alert) are chosen here. Detailed detection setup is in the Detection setup menu tag. Detailed alert setup is in the Alert setup menu tag.

### How to set up Camera Alert (with Action Event and Notification)

There is a list of Action Events can be chosen (Motion, IO Input, Manual, Audio, Video Signal Loss). You can choose one or more of these events to watch over. Make sure corresponding detection(s) (in Detection menu) is enabled (i.e. to trigger a Motion Action Event, Motion detection must be enabled).



## Event list:

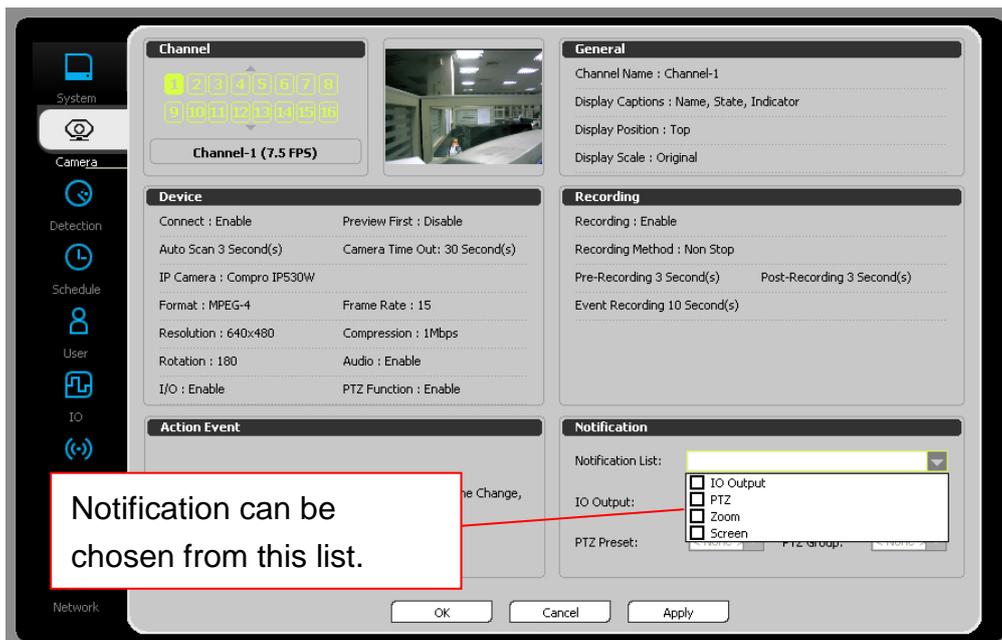
- **Motion:** When motion event is detected, action will be taken (from notification list).
- **IO Input:** When IO input is detected, action will be taken (from notification list).
- **Manual:** When manual event triggers, action will be taken (from notification list).
- **Audio:** When audio event is detected, action will be taken (from notification list).
- **Video Signal Loss:** When video signal loss is detected, action will be taken (from notification list).

## IO Input:

Select the sensor for IO input, or you can click the "**Setup**" button to set up sensor from IO devices setup.

## Notification

There is a list of Notifications can be chosen (IO Output, PTZ, Zoom, and Screen). You can choose one or more of these notifications to activate when an Action Event is triggered. Make sure corresponding Alert option(s) (in Alert menu) is configured.



### Notification List:

- **IO Output:** When an event is triggered from Action Event, IO Output will deliver a signal (note: I/O setting needs to be enabled).
- **PTZ:** When an event is triggered from Action Event, PTZ preset points / patrol group movement will begin (note: PTZ preset points and patrol groups need to be pre-defined).
- **Zoom:** When an event is triggered from Action Event, 1 channel view zooming will run.
- **Screen:** When an event is triggered from Action Event, screen will begin flashing to notify the user.

### IO Input:

Select the sensor for IO input, or you can click the "**Setup**" button to set up sensor from IO devices setup.

### PTZ Preset:

When an event is triggered from Action Event, the lens of PTZ camera will move to preset point for watching.  
(Only available from PTZ feature enabled IP camera.)

### PTZ Group:

When an event is triggered from Action Event, the lens of PTZ camera will move by the preset group for patrol.  
(Only available from PTZ feature enabled IP camera.)

## **Detection**

ComproView offers the smart detection functions for more intelligent surveillance. They are Motion detection, and Audio detection.

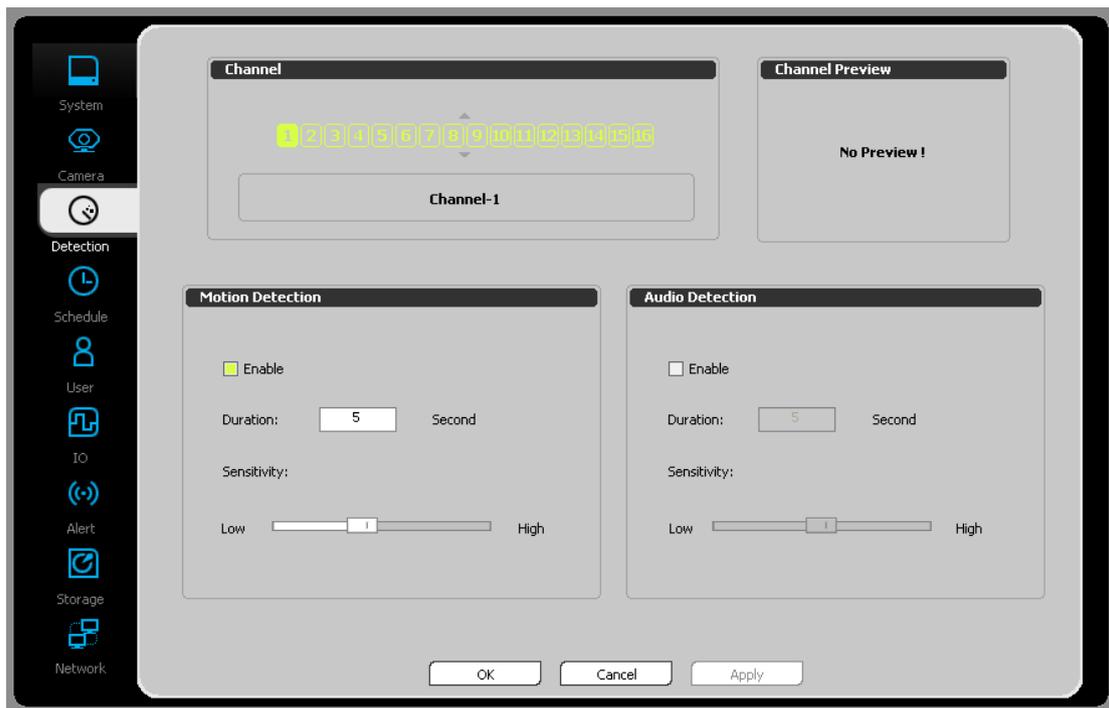
Figure below displays two different types of status (Triggered mode with red light indicator and standby mode with green light indicator), and you can see there are two indicators (the left indicator stand for all the available detection types besides Motion Detection, while the

right one only stand for Motion detection), which will shown on the top-right corner of every channel.



The motion detection demonstration photos are displayed below.





### **Channel and Channel Preview**

Click the channel number to set up detection. (CH1 ~ CH32)

### **Motion Detection**

- **Enable:** Enable / Disable Motion detection.
- **Duration x second:** The time interval that Motion detection will wait to detect next movement after initial trigger.
- **Sensitivity (Low / High):** Detection sensitivity adjustment.

### **Setup Motion detection**

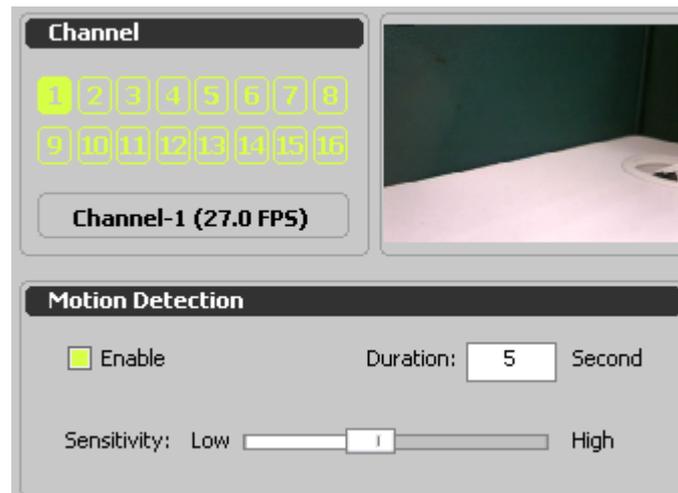
Here we will run through Motion detection setup as an example.

**Step1:** In Detection menu page, first, you will select the channel(s) of detection to enable.

**Step2:** Then Enable Motion Detection.

**Step3:** Enter the Motion detecting duration time in Duration x Second.

**Step4:** Adjust the detection sensitivity if necessary.



Lastly, press the  button at the bottom of Detection menu page.

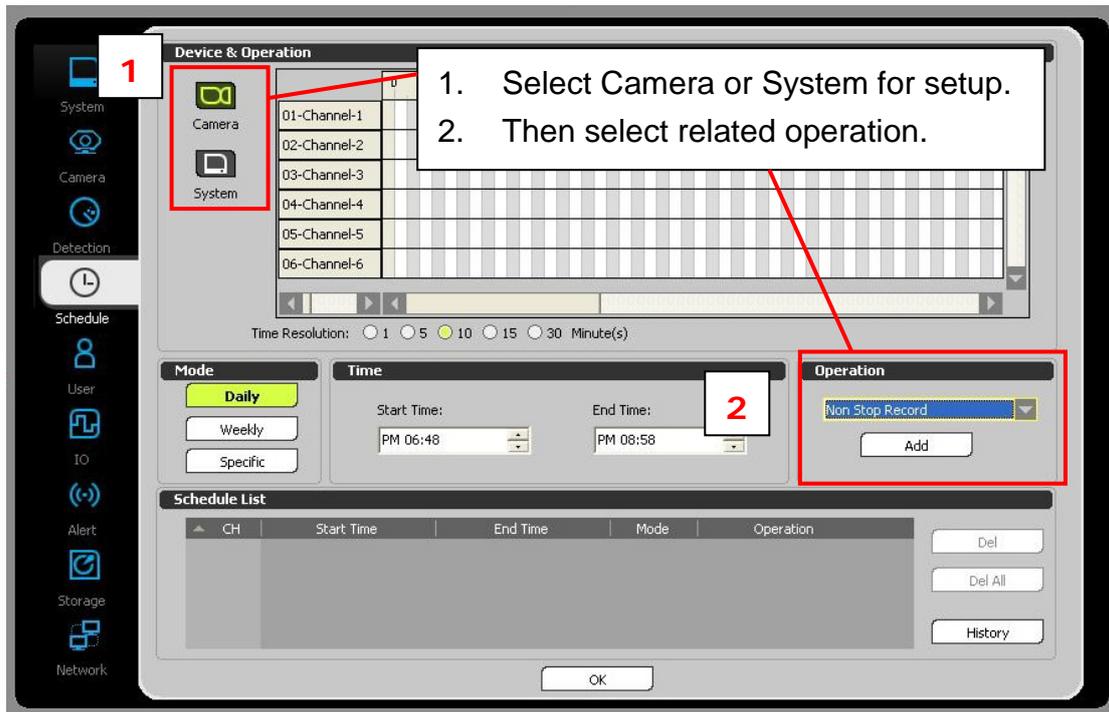
Return to preview mode and you should be able to see the channel has Motion detection indicator ON (red light).



### **Audio Detection**

- **Enable:** Enable / Disable Audio Detection.
- **Duration x second:** Each audio detecting trigger will last at least x second long; there will be no audio detection trigger within this duration time.
- **Sensitivity (Low / High):** Detection sensitivity adjustment.

## Schedule



### Device & Operation

Firstly, you have to choose the schedule setup for camera or system. Then select the related Operation to schedule.

#### **Camera (Camera 01 ~ Camera 32)**

##### **Camera Operations:**

- Non Stop Record
- Event Record – by Motion
- Event Record – by Audio
- Event Record – by IO
- Time Lapse Record – by Motion
- Time Lapse Record – by Audio
- Time Lapse Record – by IO

#### **System (System 01 ~ System 32)**

##### **System Operations:**

- Backup

### **Mode**

- **Daily:** Set schedule recording of today.
- **Weekly:** Set weekly schedule recording.
- **Specific:** Set schedule recording in specific date.

### **Time**

- **Start Time:** Set Start Time of this schedule recording.
- **End Time:** Set End Time of this schedule recording.

### **Operation**

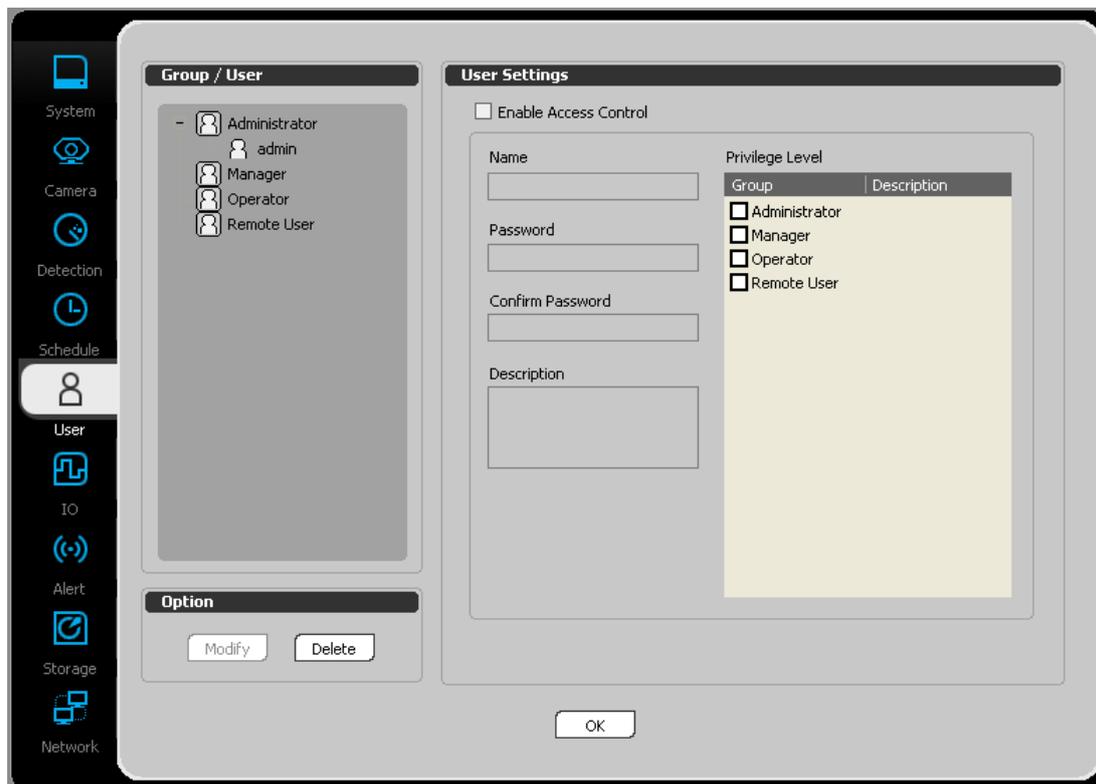
- **Non Stop Record:** This is an always recording option. Once selected, ComproView will record video from setting time by user.
- **Event Record:** This mode only starts recording when an event is triggered. At least one type of detections (Motion, I/O, or Audio) needs to be enabled to trigger recording.
- **Time Lapse Record:** This mode will start recording when an event is triggered and will lapse a user-defined amount of recording time. At least one type of detections (Motion, I/O, or Audio) needs to be enabled to trigger recording. System will activate recording for the amount of time defined by Time Lapse setting, regardless of triggered event duration.

### **Schedule List**

It provides the detail of schedule recording which contain channel, Start Time, End Time, Mode, Operation.

## User Setup

This is the setup page for user administrative privileges organization. To add, delete, or edit a group or a user is to be done in Group/User Setup menu.

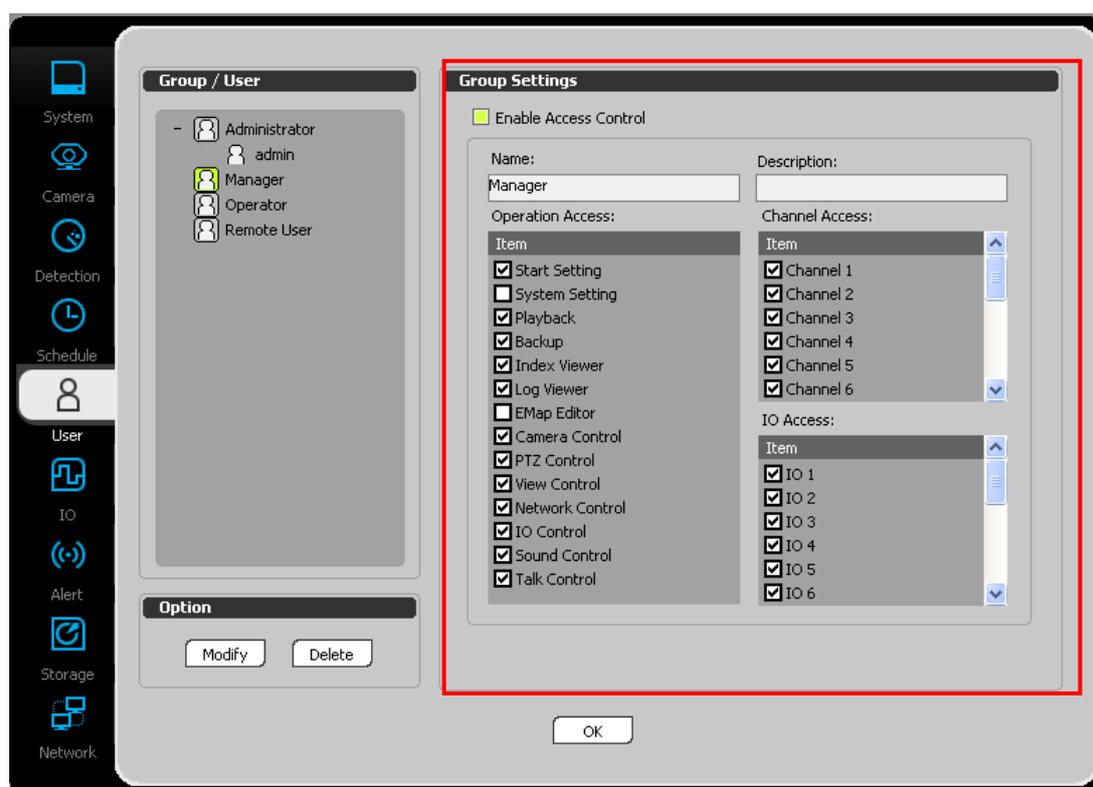


**Group / User:** Group & User list.

**Option:** To edit or delete the chosen user or group.

## Group Setting

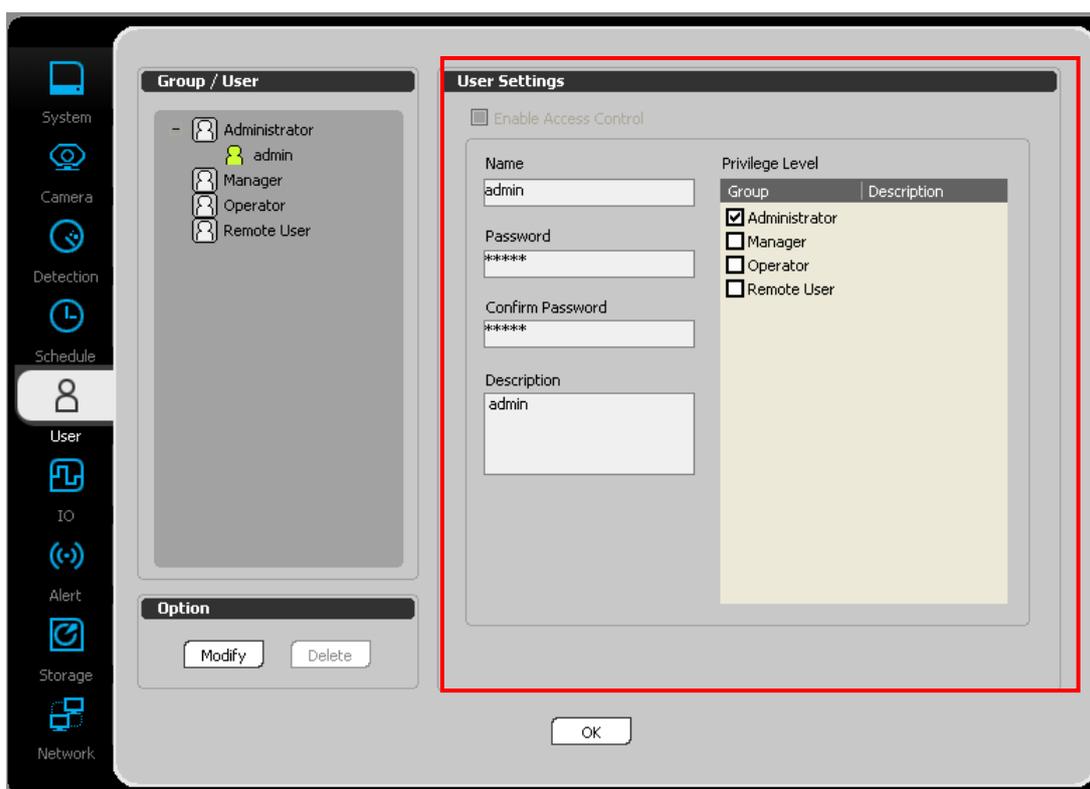
To create a new group, first right click the mouse on Group/User Setup menu, and choose “New Group”. Then enable “Access Control”, fill in “Name”, “Description”, “Group Privileges” info (Operations, Channels, IO Access). At the end, press “Add” to confirm this new group entry.



- **Access Control (Enable):** Enable / Disable Access Control Setting.
- **Name:** Name of the Group.
- **Description:** Detail description about the group.
- **Operation Access:** Group access items / privileges.
- **Channel Access:** Group access channels.
- **I/O Access:** Group access Input/Output devices.

## User Setting

To create a new user, first right click the mouse on Group/User panel, and choose “New User”. Then enable “Access Control”, fill in “Name”, “Password”, “Confirm Password”, “Description”, “User Privileges Level” (select one out of all groups). At the end, press “Add” to create this new user entry.



- **Access Control (Enable):** Enable / Disable Access Control Setting.
- **Name:** Login username entry.
- **Password / Confirm Password:** User password setting and confirmation.
- **Description:** User description.
- **Privilege level:** User privilege level assignment.

## **I/O Control (Digital Input / Output devices)**

ComproView offers digital input / output device support, which allows user to connect input devices (sensors) and output devices (alarms) to ComproView system. You will be able to control these devices from ComproView.

After all digital input / output devices are connect to the PC (or server) that is running ComproView system; you should use I/O Control menu tag to configure its settings.



### **Channel and Chanel Preview**

Channel selection, from channel 1 to channel 32, and preview on the right side.

### **General**

- **Enable:** Enable / Disable All Sensor Devices.
- **Enable:** Enable / Disable All Alarm Devices.
- IO Scan Interval 1-60 Second.

### **For each Sensor / Input Devices**

- **No:** Check your sensor/input device and list.
- **Name:** Display the name of device, or you can rename it.
- **Status:** Display device status.

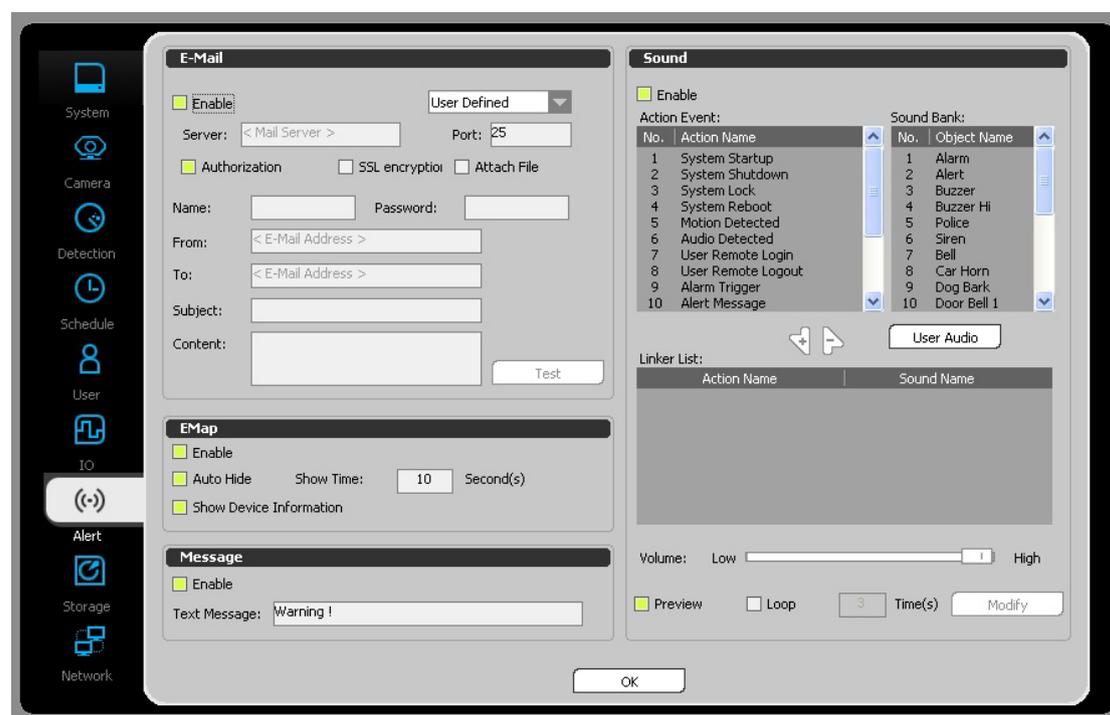
### **For each Alarm / Output Devices**

- **No:** Check your alarm/output device and list.
- **Name:** Display the name of device, or you can rename it.
- **Type:** Setup On/Off trigger.
- **Duration (Sec):** Setup interval time.
- **Test:** Click here to test the alarm is working.
- **Status:** Display device status.

## Alert Setup

This is Alert Setup page. In Camera (Alert) section part of this manual, you are introduced to Camera (Alert), which composed of Action Events and Notifications. Items from Notifications (such as E-Mail for instance) need to be pre-configured in Alert Setup before Notifications can function properly.

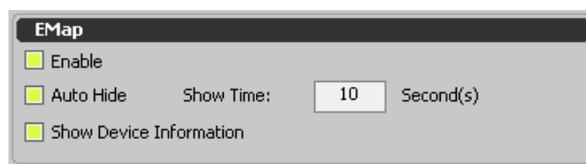
Setup for each Notification / Alert item is explained in this section.



**E-mail**

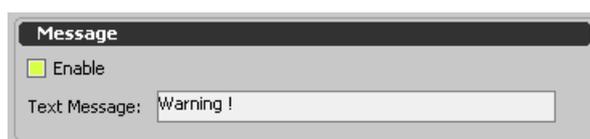
- **Enable:** Enable/disable E-Mail notification.
- **User Defined:** The E-mail notification support SMTP, Google and Hotmail, please select it from the list.
- **Server:** Enter email server information.
- **Authorization:** If email server requires authorization, activate this option to enter the necessary account information (Name and Password).
- **SSL encryption:** If you server provides the SSL encryption, you can check here.
- **Attach file:** Enable to attach a snapshot with the email.
- **From:** Enter the email "from" address.
- **To:** Enter the email "to" address.
- **Subject:** Enter the email subject.
- **Content:** Enter the content of the email.
- **Test:** Test email information right now (send out email).

## EMap



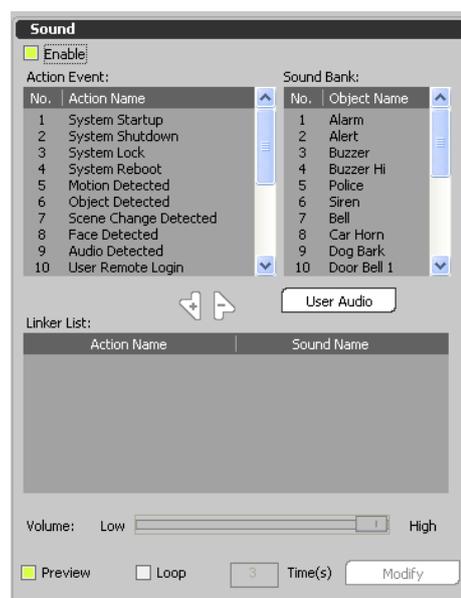
- **Enable:** Enable/disable EMap notification.
- **Auto Hide:** The program will hide the EMap warning after the specified "**Show time**". (Show Time: 1-60 sec.)
- **Show Device Information:** Display the device information.

## Message



- **Enable:** Enable/disable the Message. Enter the text you wish to display as warning message when triggered by action events. (Ex. Warning!)

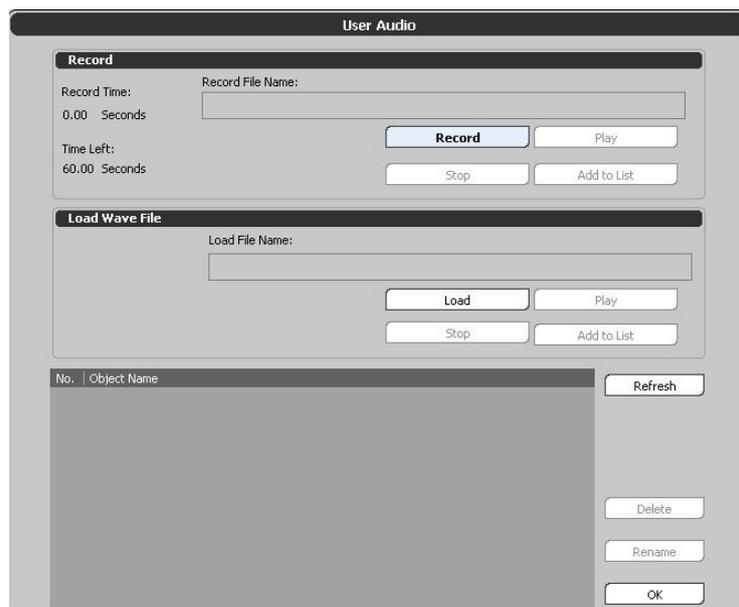
## Sound



- **Enable:** Enable/disable the alarm sound.
- **Action event:** Select an event that you wish to associate sound with. Choose from 110 action events. (from no.1 to 110.)
- **Sound bank:** Select a sound to associate with action event. Choose from 21 sound types. Select an action event and select a sound, use  to associate the event with the sound. Use  to de-associate an event with its corresponding sound on list.
- **Volume:** Adjust the volume that will be played.
- **Preview:** Enabled to preview the sound bank files.
- **Loop:** Enable and key in x number to enable repetitive sound play during an action event for x number of times.
- **Modify:** After changes are made, click "**Modify**" to apply changes.

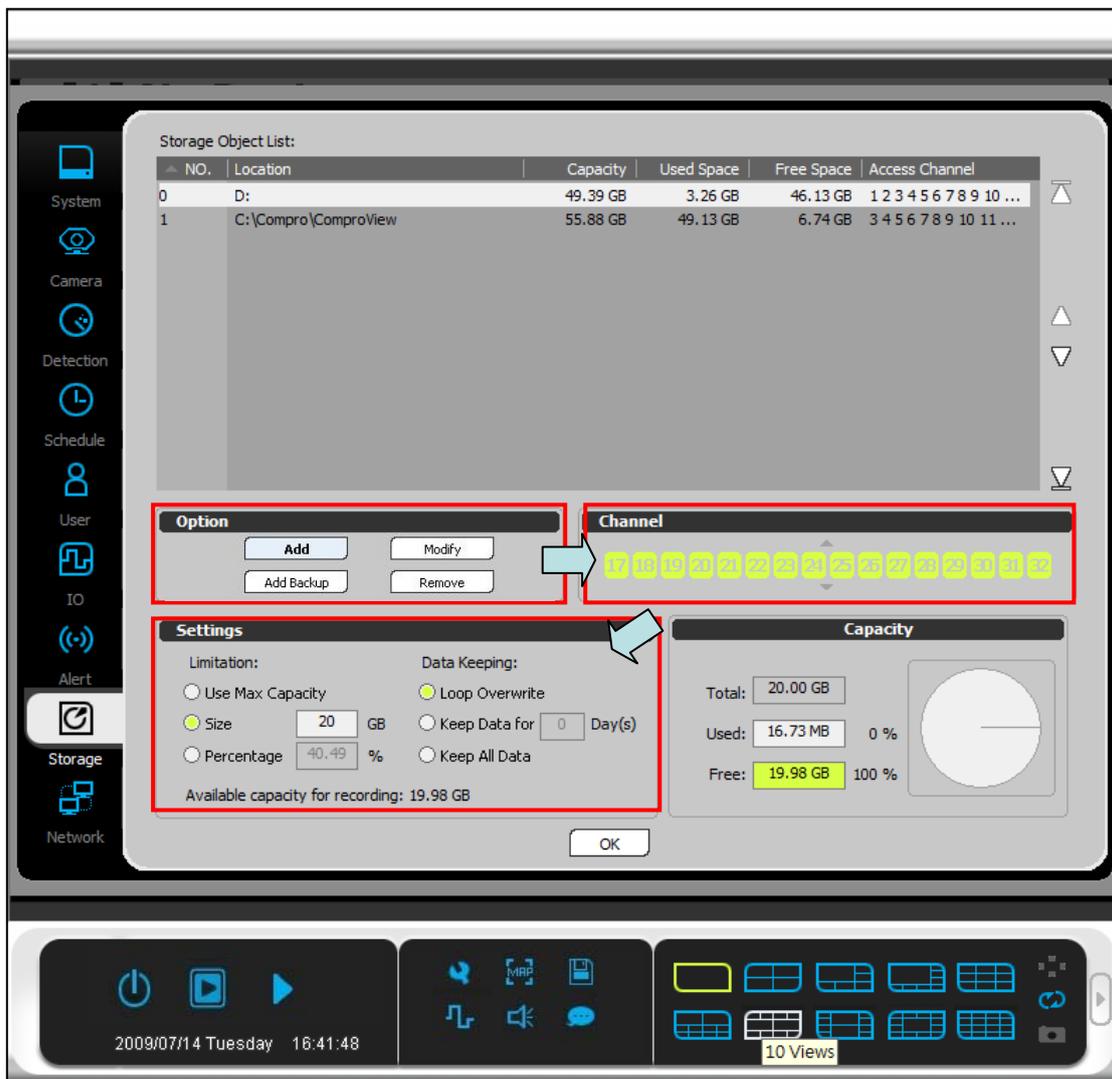
## User Audio

You can direct record the sound and save to file by yourself (need microphone on your system), or load your own wave file to the sound list. And you can put it into the sound bank for future use.



## Storage

This is the Storage setup menu page where you will assign storage directory for recording files and object indexes.



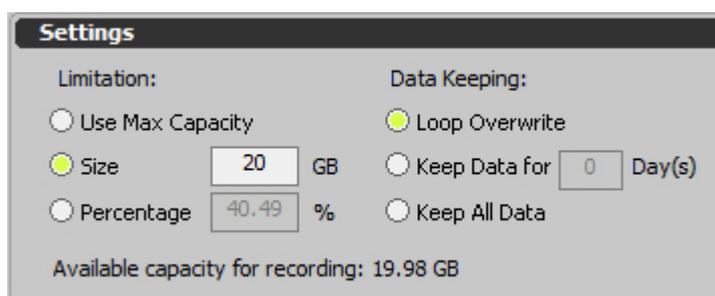
In Storage setup, first we need to assign an archive folder (s). To do so, press the **"Add"** button and windows built-in Browse Folders menu will pop up.



Then, select the desired folder and press confirm. After storage folders are chosen, select the **Channel** option. Only recordings from selected channels will be stored in the designated folders.



After channels are selected, storage limitation settings need to be chosen.



There are three modes of **Limitation** can be selected.

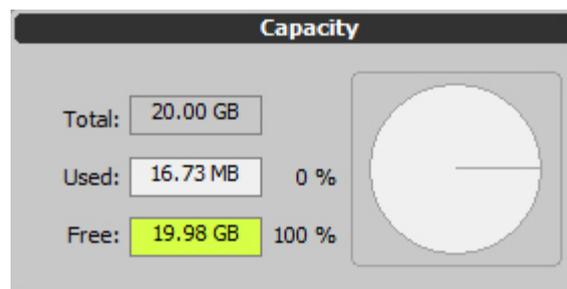
- **Use Max Capacity:** this mode allows recording to occupy the maximum space in the hard drive.
- **Size:** this mode allows the user to define what amount of hard drive space can be allocated for recordings.
- **Percentage:** this mode allows the user to define hard drive space by percentage that can be allocated for recording storage.

After limitation is selected, **Data Keeping** option is next.

- **Loop Overwrite:** this mode allows the system to overwrite the storage space with new recording files when it is full.
- **Keep Data for Days:** this mode allows the system to keep stored data for a user-defined number of days before it is open to data overwrite.
- **Keep All Data:** this mode always keeps data after recordings are saved until manually removed by user.

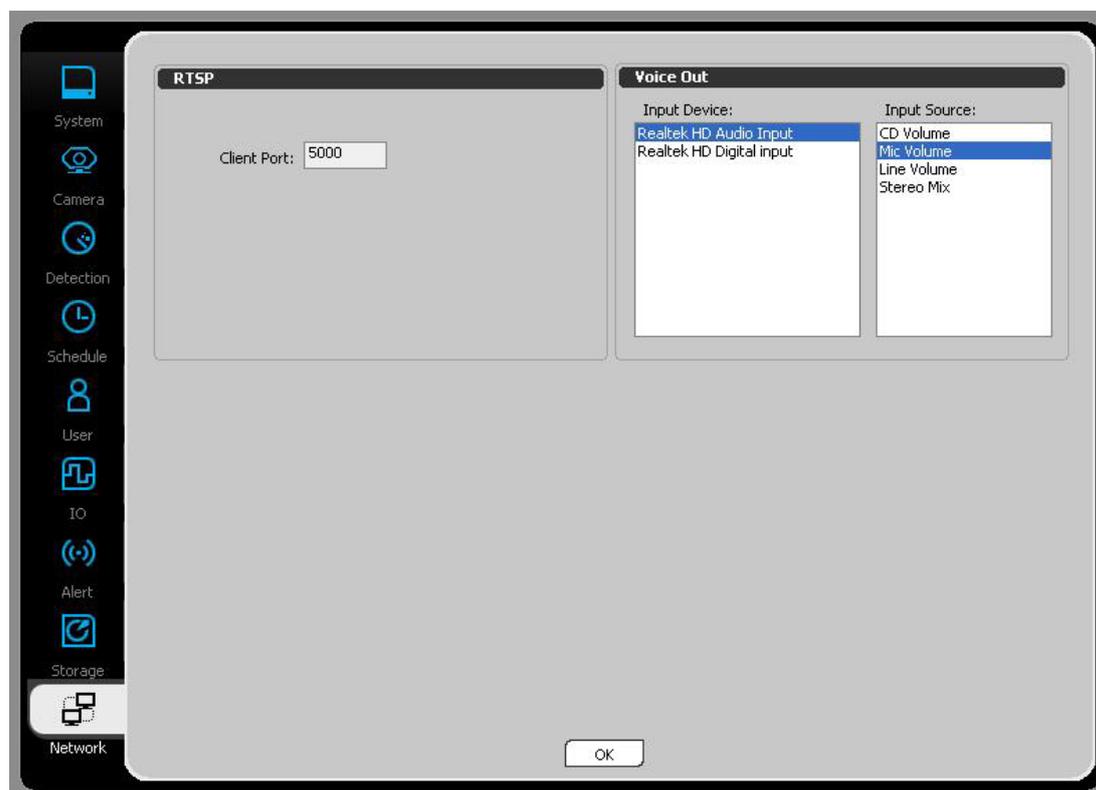
On the right side, there is a capacity pie chart that shows how much free hard drive space is left.

(Base on the storage space limitation setup.)



## Network

This is the network setting for remote. 2-way audio setting is also in the network menu tag. A main ComproView server must be up and running to provide remote services.



### RTSP

- **Client Port:** The port which ComproView will communicate with cameras on the internet. You can use the video stream software or 3gpp stream available PDA/phones to watch the video.

### Voice Out

- **Input Device:** Select audio input device.
- **Input Source:** Select audio input source.

## Troubleshooting

### Why can't I see any options in the Setup pages?

The ComproView default to enable the "Cloud UI", the "Cloud UI" will display the current settings not the options, you can click on the options to change it. Or you can disable the "Cloud UI" function in the Setup → System → User Interface.



Cloud UI enable – All the option will be display only

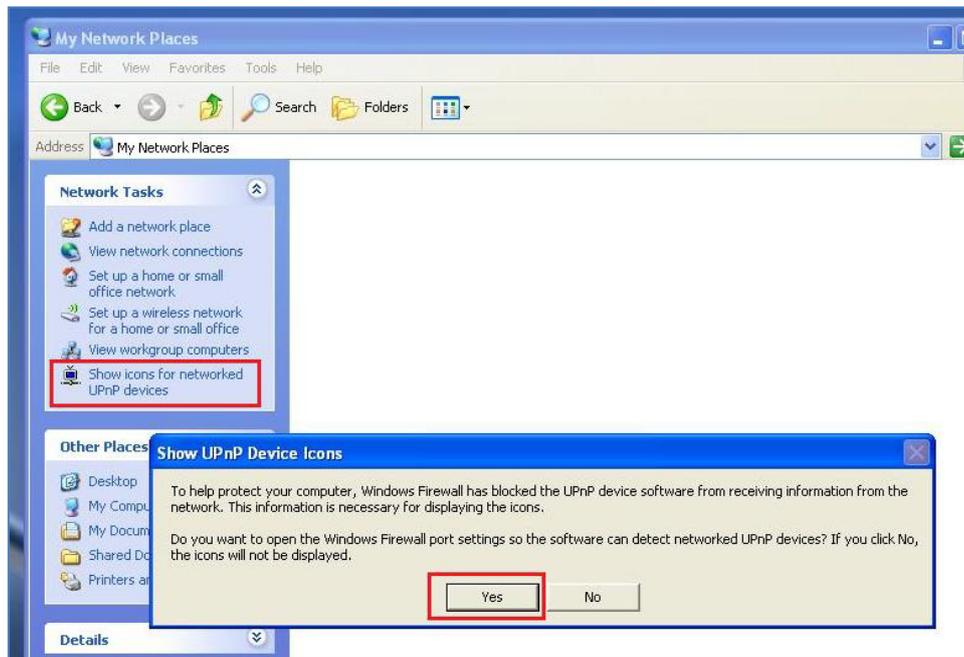
Cloud UI disable – All the option will shows up for select

### Why can't find any camera in the "Auto Detect"?

Before you using the "Auto Detect" to detect your IP camera, please make sure the UPnP device searching is enable in your system.

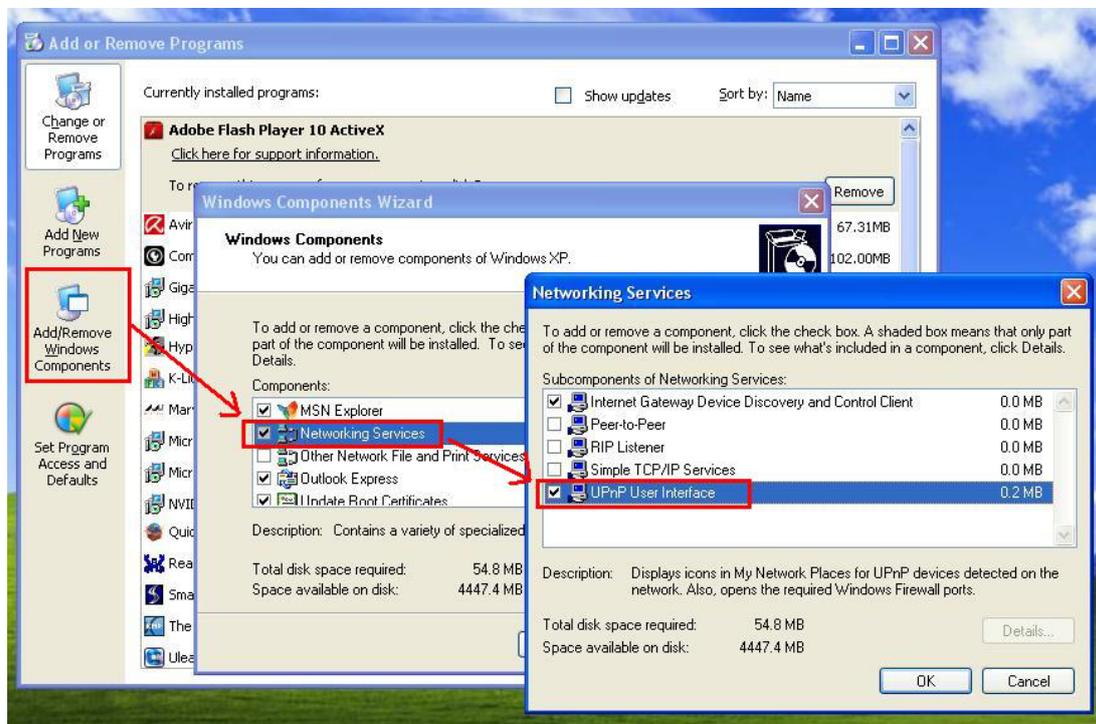
#### **In XP System:**

Please check the **Control Panel → Network Connections → My Network Place** to see if there any IP camera available. If not, please enable it by click the task of "Show icons for network UPnP devices" on the left side.



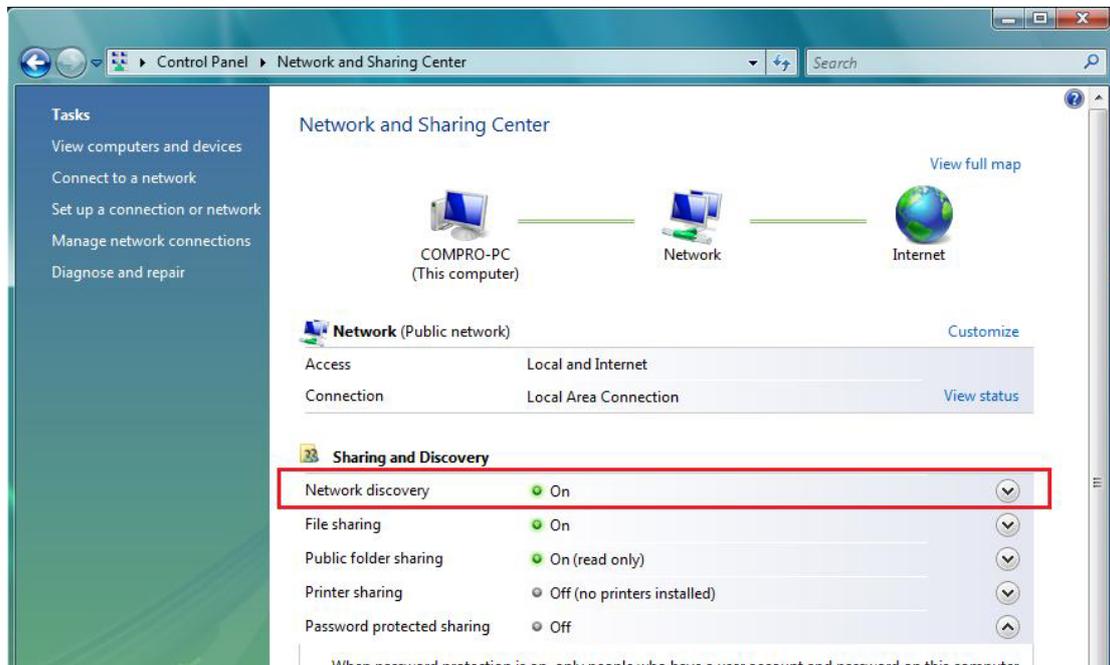
And if you are not installing the UPnP in your system, you can install it from **Control Panel → Add or Remove Programs → Add/Remove Windows Components → Network Service → UPnP User Interface.**

(The Windows installation CD required.)



### In Vista System:

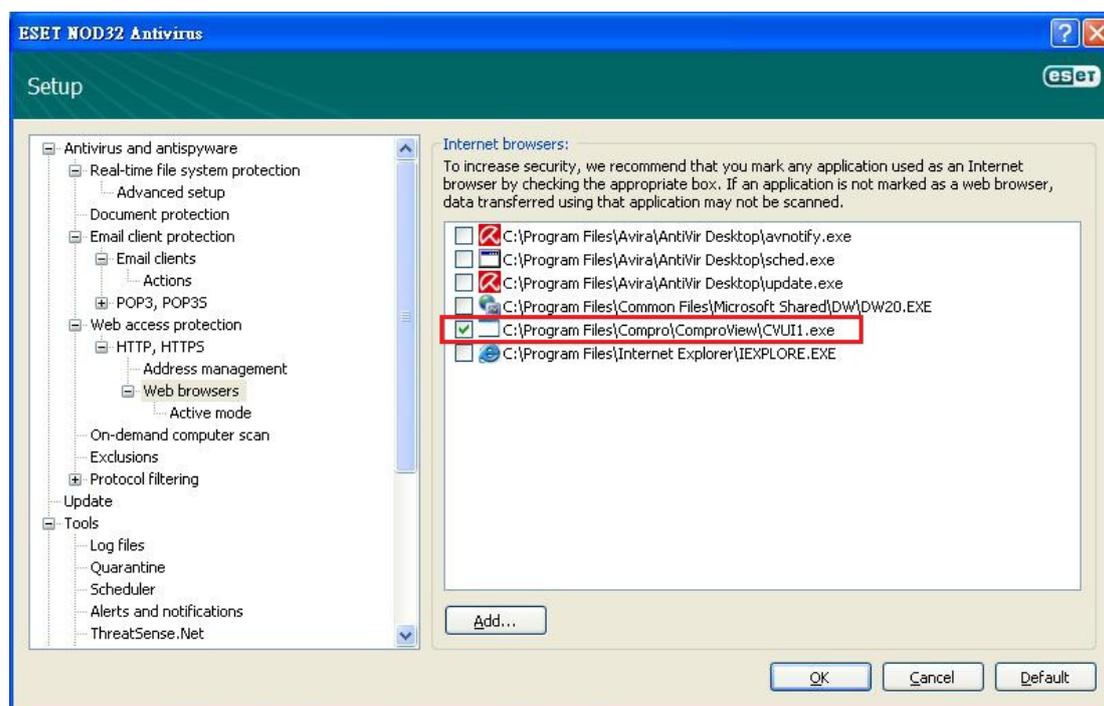
Please check the setting of **Control Panel → Network and Sharing Center → Sharing and Discovery → Network Discovery** is turn on. If not, please turn on it.



Or maybe try to disable your Firewall or Anti-Virus temporary.

## **Camera connection fail in ComproView**

Sometimes the anti-virus software (like NOD32) will block the connection between ComproView and camera, please go to the setup page and setup the ComproView as a trust application to access the internet.



## **Contacting Compro Technical Support**

Before you submit an email for support, please check the troubleshooting list above. You may fill out the form (<http://comprousa.com/en/form.htm>) or directly email to [support@comprousa.com](mailto:support@comprousa.com).