Cam Viewer Lite

user's manual

Table of Contents

1. Introduction

Cam Viewer Lite is the basic bundle software, provides the general function for your daily operation. For more powerful functions, you may install the Cam Viewer Pro 30 days trial version to operate. After 30 days testing, you can contact to your local dealer or direct connect to PLANET sales team (sales@planet.com.tw) for the Cam Viewer Pro.

2. System Requirement

| Total FPS*	~600	600~480	480~240	240~120	120~
CPU	Intel Core 2 Duo QX6800	Intel Core 2 Duo E6600	Intel Pentium D 930	Intel P4 3.0 GHz	Intel P4 2.8 GHz
RAM	4 GB	2 GB	2 GB	1 GB	1 GB
Chipset of Motherboard	Intel 946 or 965 chip, Intel Chipset recommended				
VGA Card	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 945/965 or above (ATI recommended)				
Ethernet	100Base-TX or above, Gigabit LAN recommended				
Hard Disk	160 GB or above				
O.S.	Windows 2000 / XP / 2003				

Total FPS: Means all the cameras will spend how many frames when this software works. Suppose there are 10 cameras, each one will work with 30fps, the total fps should be 300fps.

3. Software Installation

1. Insert the bundled Cam Viewer CD disk into the CD-ROM drive to launch the autorun program. Once completed, a welcome menu screen will appear. Click the "Cam Viewer Lite" hyperlink, the below InstallShield Wizard dialog box will appear.

Note: If the welcome screen does not appear, click "Start" at the taskbar. Then, select "Run" and type "D:\CamViewer Lite\setup.exe", assume "D" is your CD-ROM drive.

2. Selects the language which you want, Cam Viewer is current including fifteen languages – Chinese (Simplified), Chinese (Traditional), Danish, English, French (Standard), German, Greek, Italian, Japanese, Korean, Portuguese (Brazilian), Portuguese (Standard), Russian, Spanish and Thai. Please select the language and click "Next" to continue.
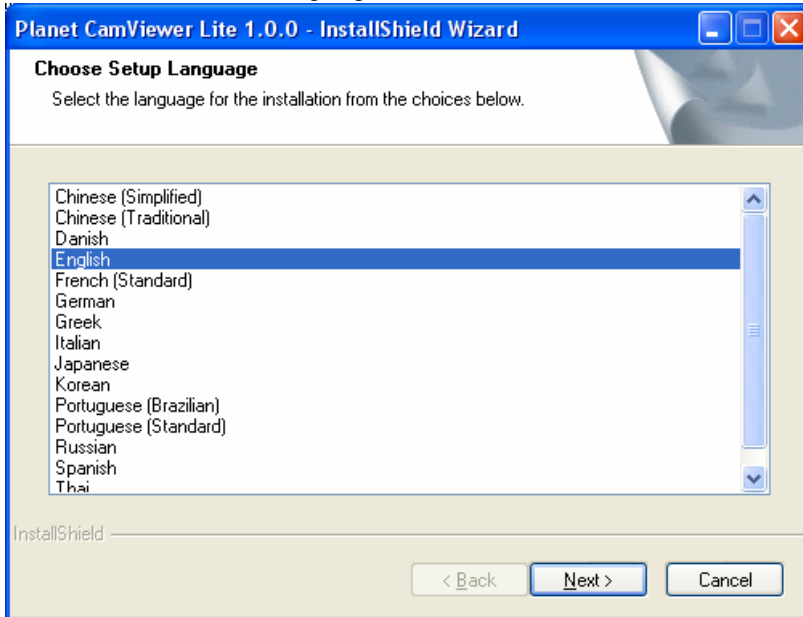
3. The "Welcome to the InstallShield Wizard for Planet Cam Viewer Lite 1.0.0" will display on the screen, please click "Next".
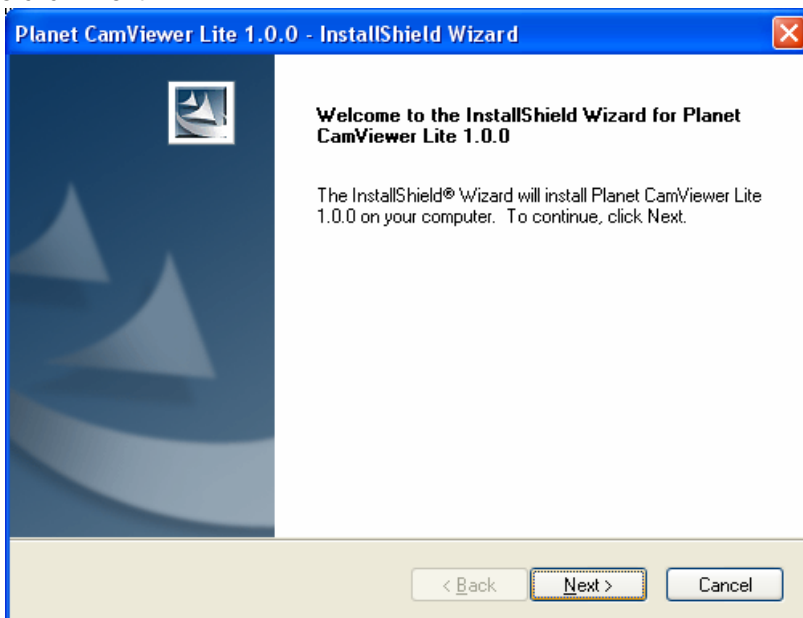
4. Please read the license agreement and then check "I accept the terms of the license agreement" if you are agreed and click "Next" to continue the installation
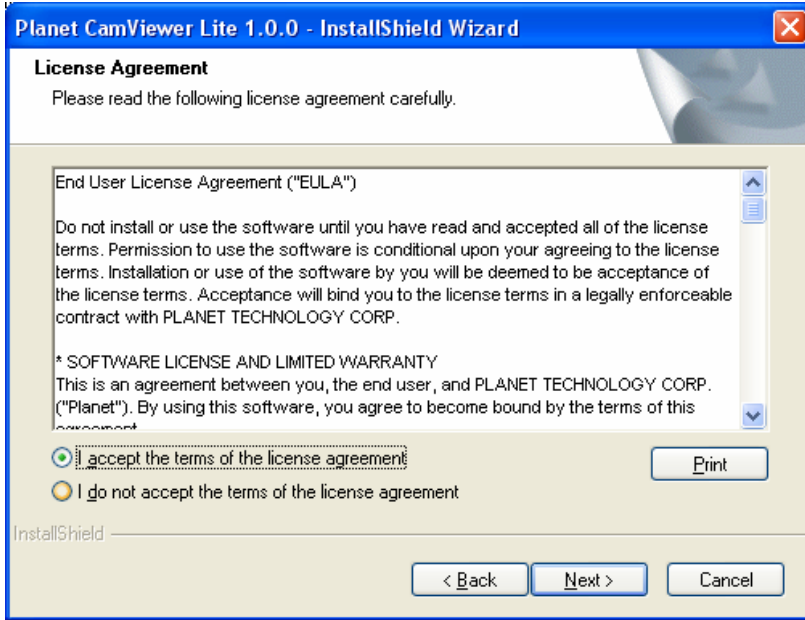
5. Please key in user name and company name for which you want and click "Next" to continue installation.
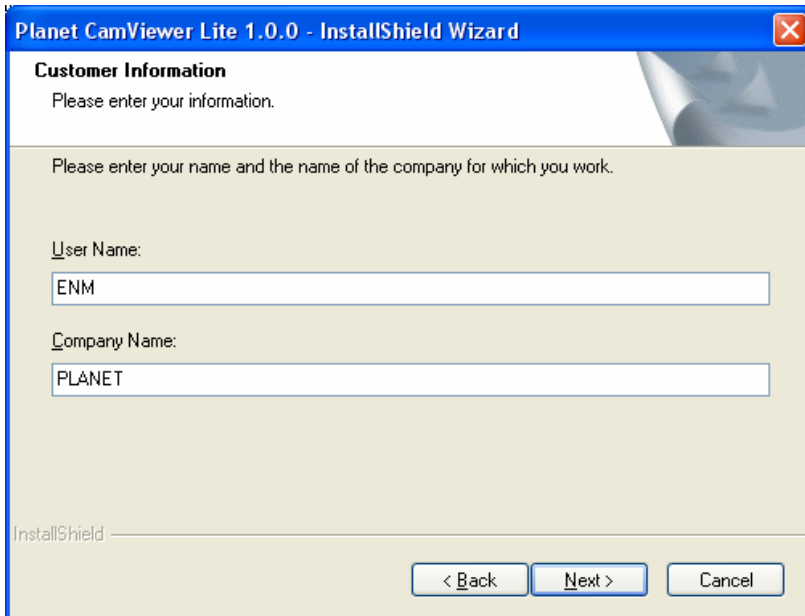
6. Check the option "Complete" – all program features will be installed (Requires the most disk space) and click "Next" to continue installation.

7. "Ready to Install the Program" will appear to prompt you to start the installation. Please click "Install" to start.

8. Please click "Yes" to continue.

Note: When Cam Viewer works with MBM5 (Motherboard Monitor 5), Cam Viewer will display CPU temperature and fan speed. Please click "No" if you don't need this function and the Cam Viewer installation will be finished. When you click "Yes", please refer to below steps to start the MBM5 installation.
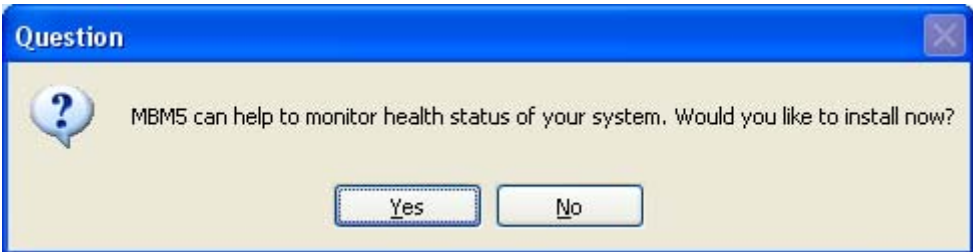
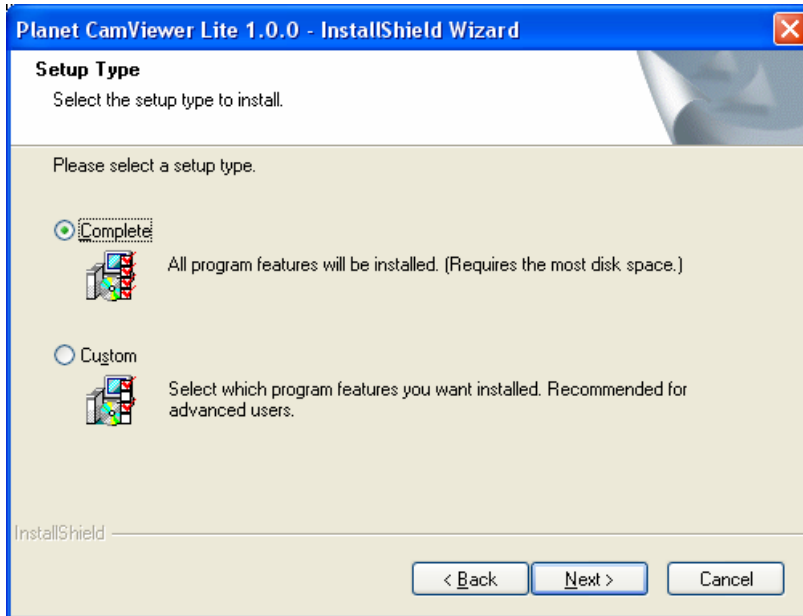9. The "Welcome to the Motherboard Monitor 5 Setup Wizard" will display on the screen and click "Next" to continue.

10. Please read the license agreement and then check "I accept the agreement" if you are agreed and click "Next" to continue installation.
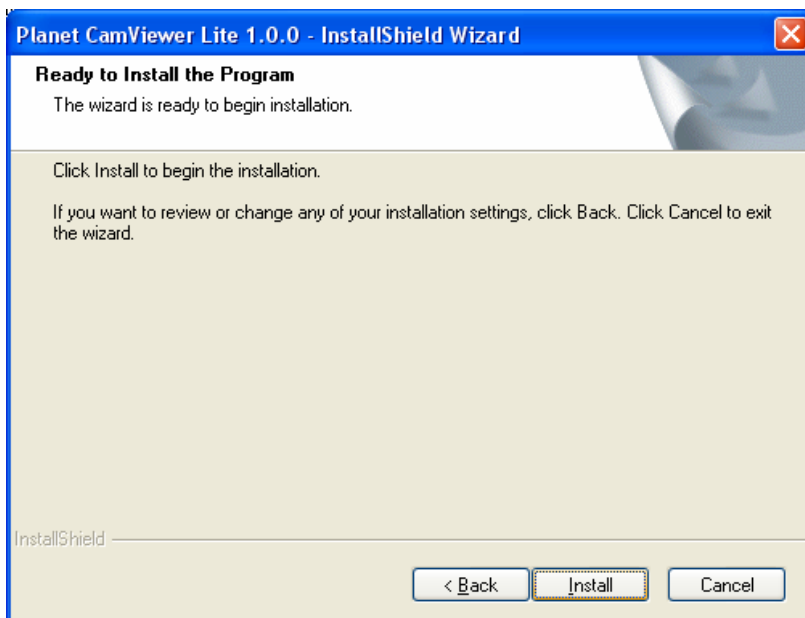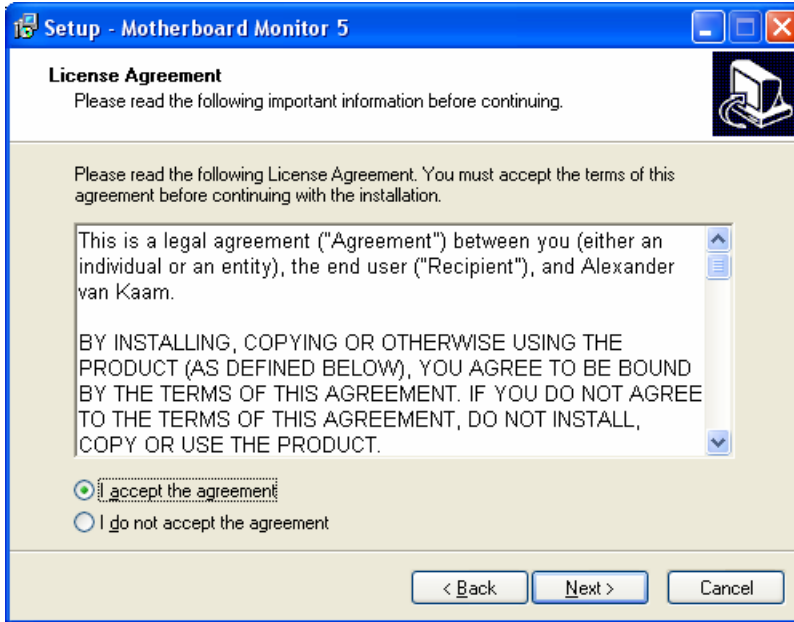

11. Please read the following important information before continuing and click "Next" to continue installation.
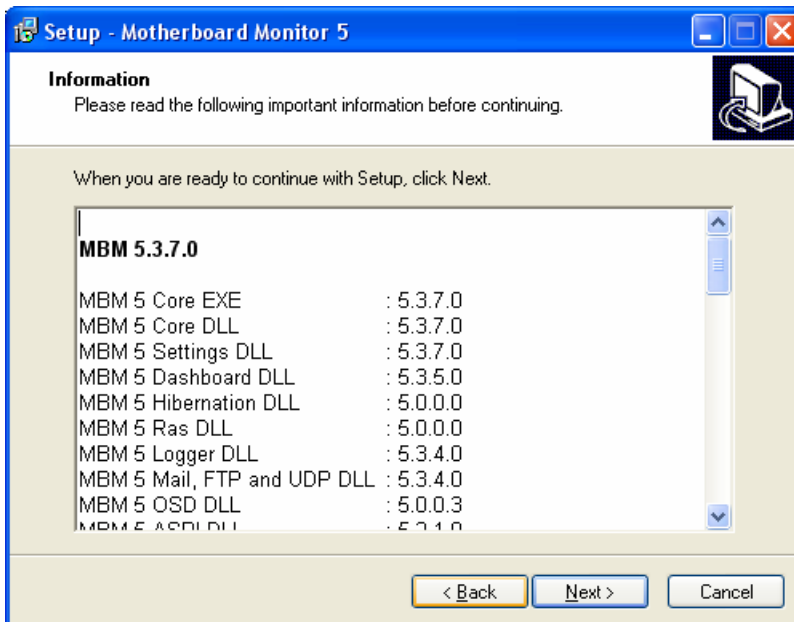
12. Please click "Next" to continue installation.
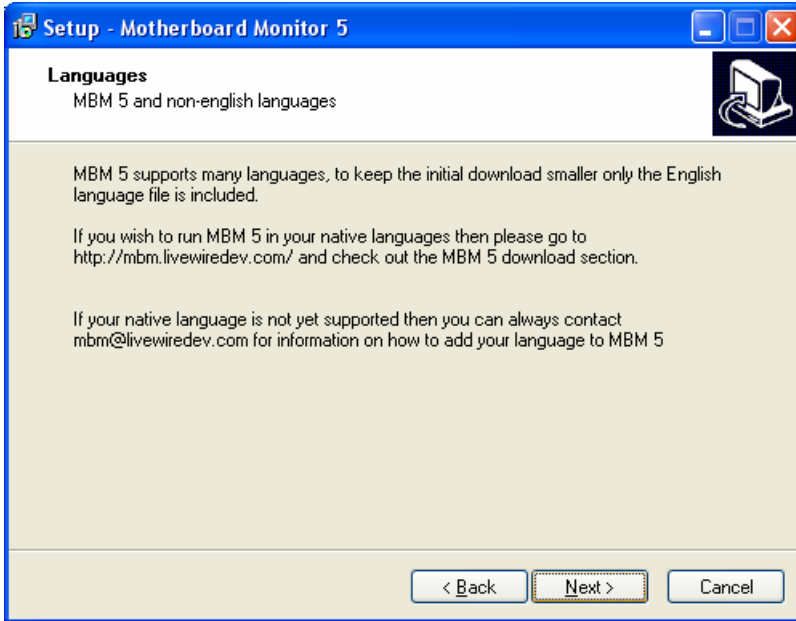
13. Please click "Next" to install with original settings, or you may click "Browse…" button to assign a install folder then press "Next" to continue.
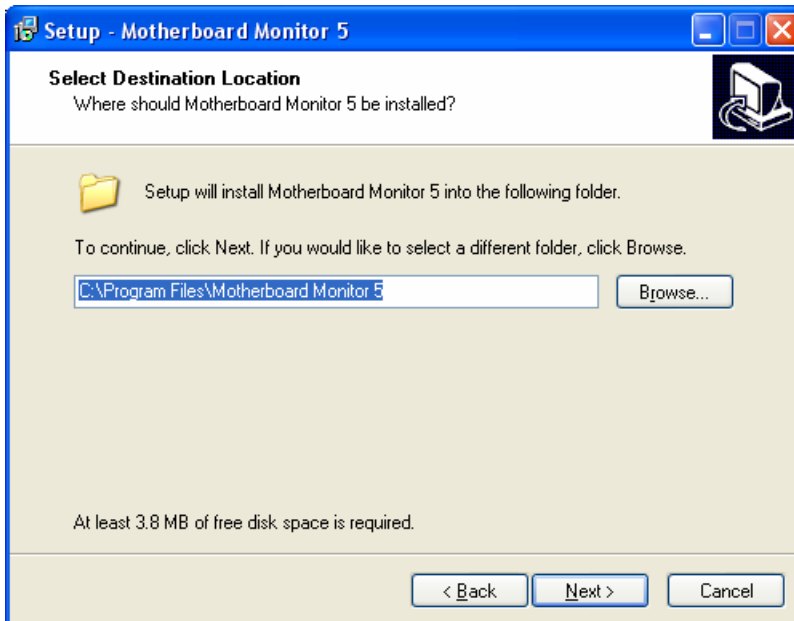
14. Please click "Next" to install with original settings, or you may click "Browse…" button to rename the program's shortcut of Start Menu then press "Next" to continue.
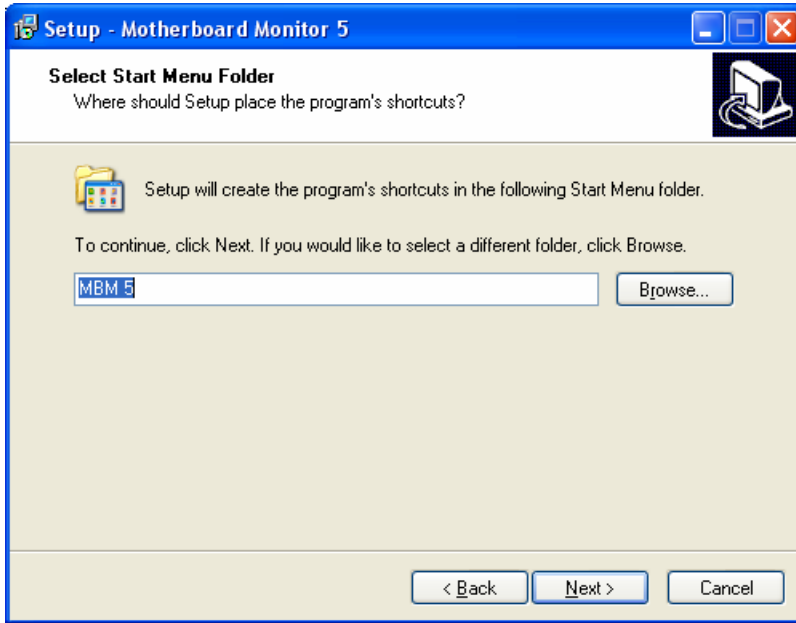
15. Please select "Replace the icons 10 seconds after MBM5 started" and click "Next" to continue installation.
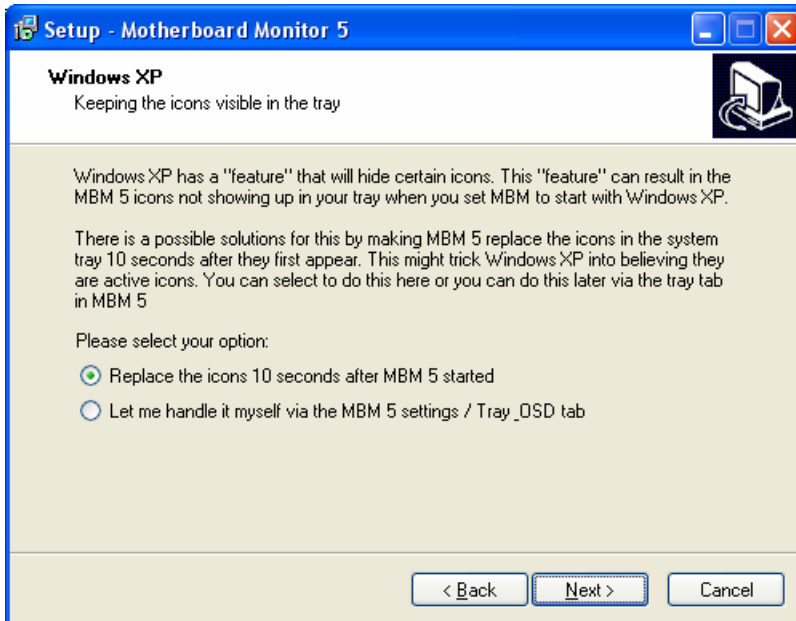
16. Please click "Next" to continue installation.
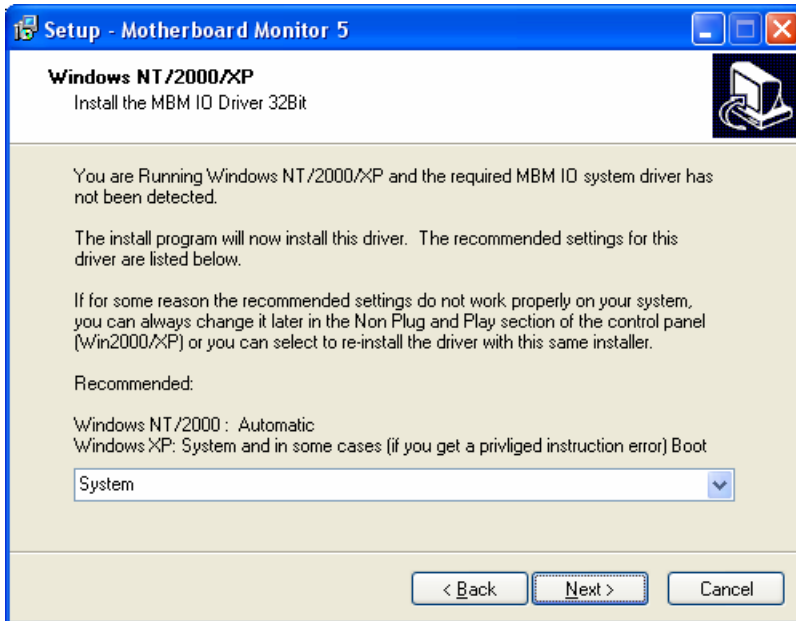
17. According to your motherboard to select correct option and click "Next" to continue.
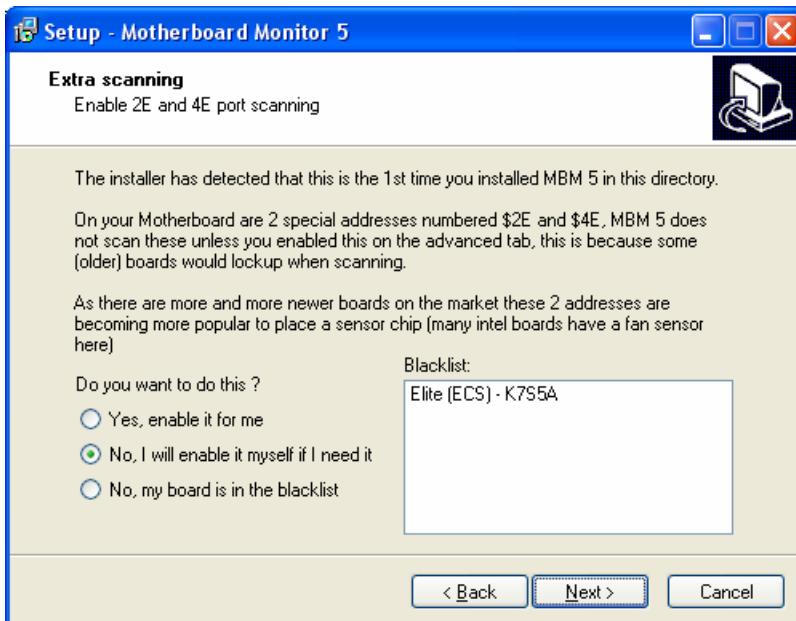
18. When "Ready to Install the Program" will display on the screen and click "Install" to continue.
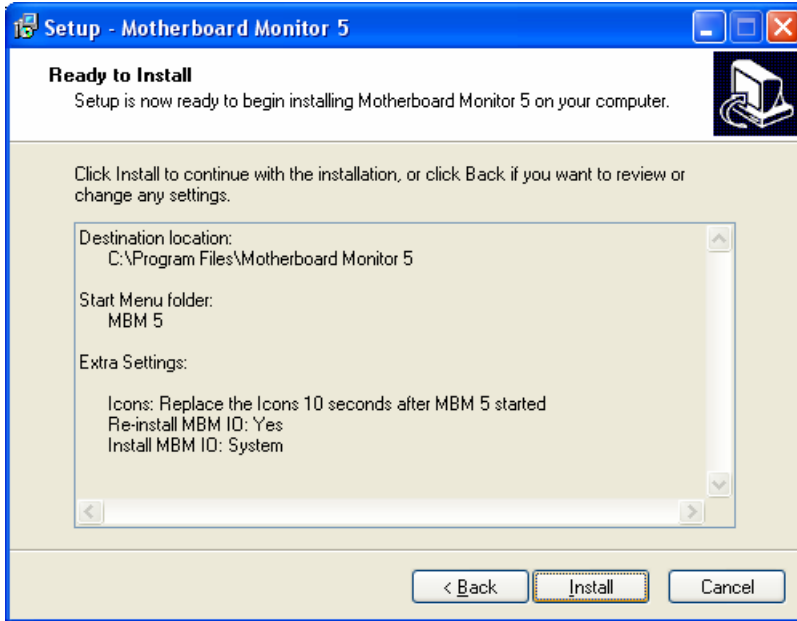
19. The "Welcome to the Motherboard Monitor Configuration Wizard" will display on the screen, please click "Next" to continue.
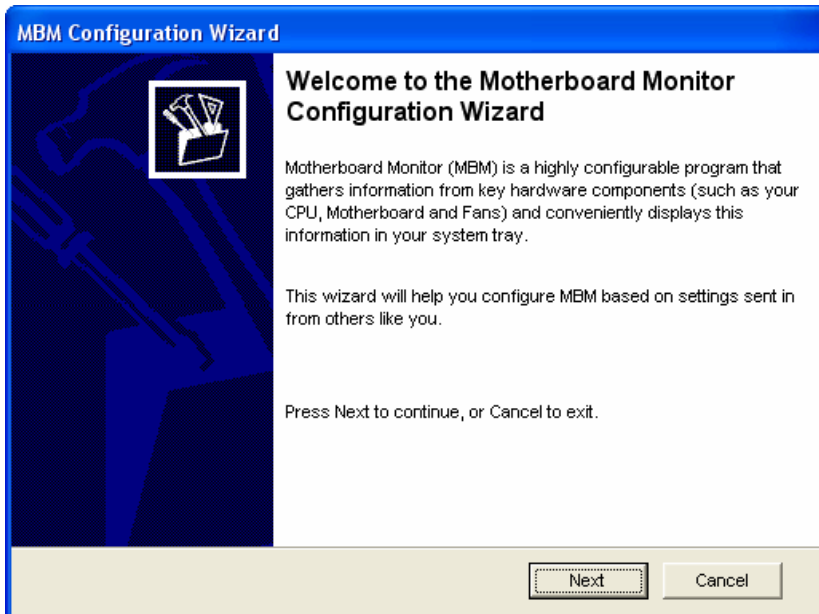
20. The "Motherboard Monitor Configuration Wizard" will display on the screen, please click "Update" to update data. Before update, please make sure your PC is connected to Internet already.
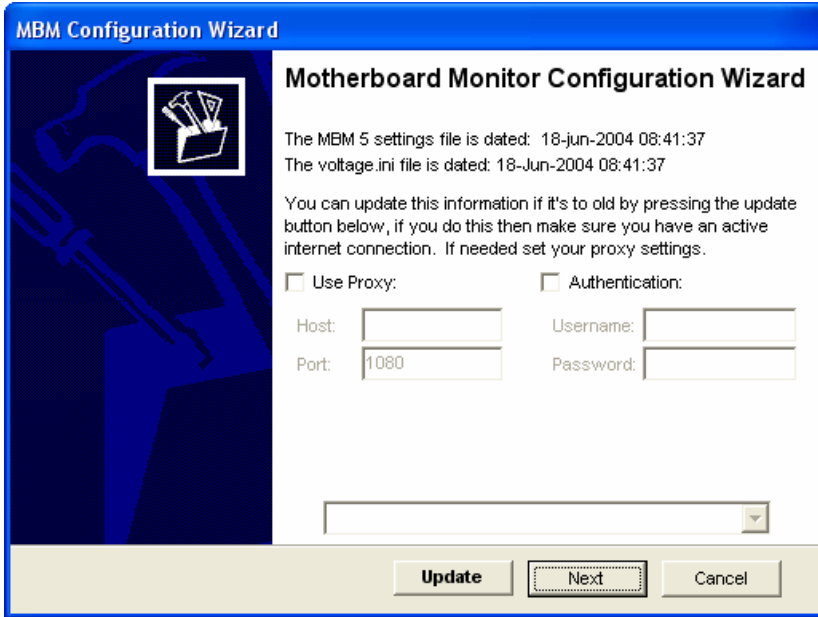
21. Wait a moment, after the program update finish, please click "Next" to continue.
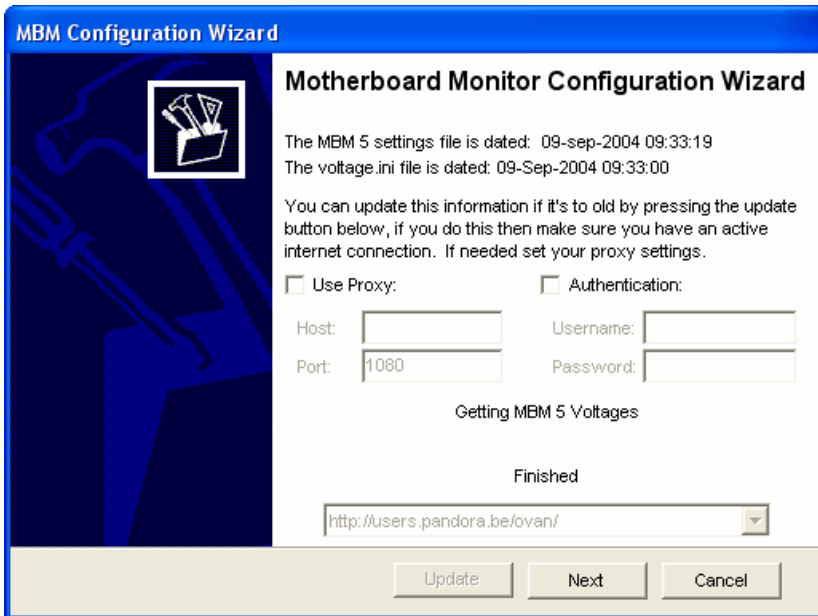
22. Please select your motherboard vendor and model name, then click "Next" to continue
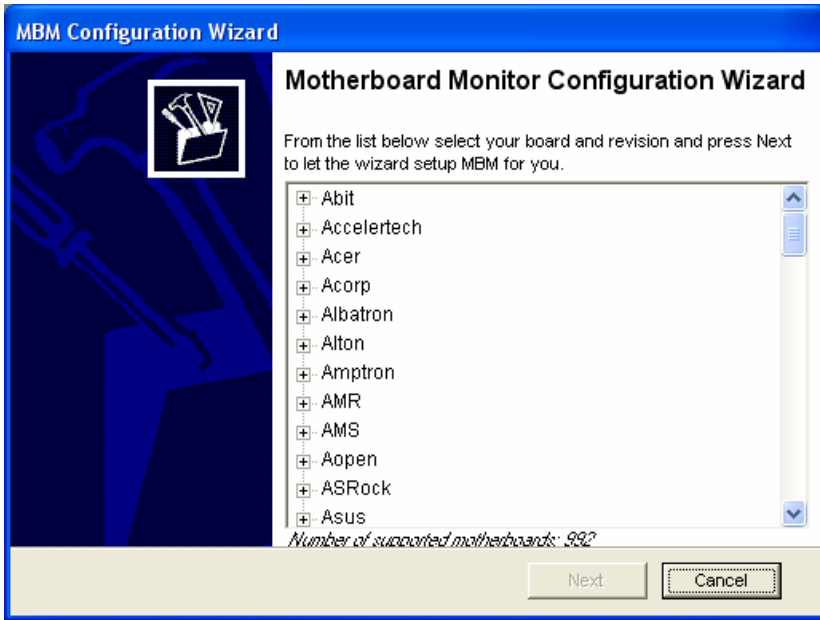
23. Please select temperature format and click "Next" to continue.
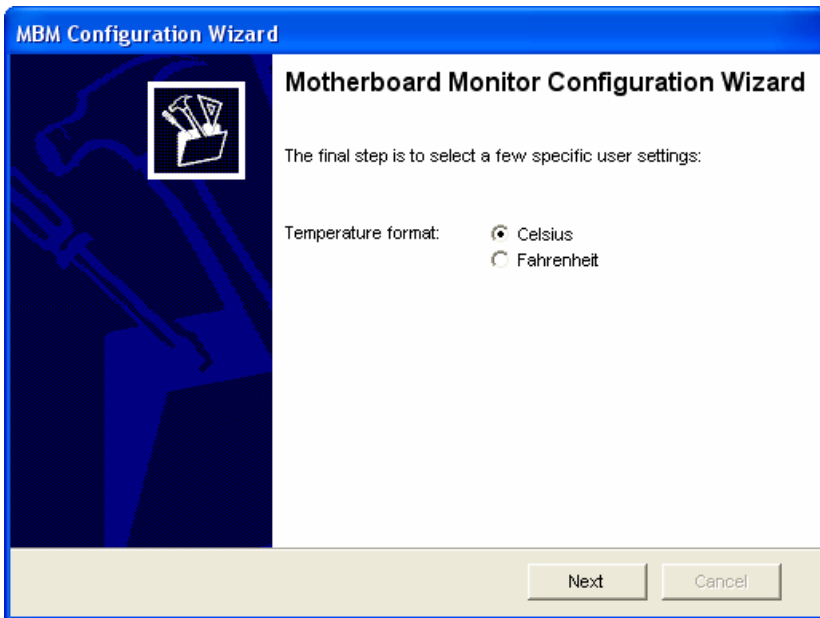
24. Please click "Finish" to end the motherboard monitor configuration wizard.

25. Please click "Yes" to restart your computer.

4. Main Console

When Cam Viewer Lite running, you will see the main console in the start. You can refer to the sections below to know how to operate Cam Viewer Lite as you want.

The main operation system. To activate, schedule recording, setup smart guard and configure system setting.

Exit: Shut down SCB Video Surveil- lance System or log out current user.

Minimize: Minimize the Main Con- sole.

Camera Number / Camera Name: Numbers shown as the port connected; rename the cameras in Config > General Setting.

Screen Division: Allocate the sub-screen displays of cameras by clicking on the icon of desired layout. Quick switch to single camera display by double click the particular sub-screen. Double click the single camera display again to regain previous screen division layout.

Camera Selection: Choose an area on the display screen and then click on the number of the camera to put it on the chosen area.

On Screen Menu

🔒 Enable Move	
🔒 Enable Talk	
⚊ Connect	
✖ Disconnect	
Show Camera ▶	
Toggle Fullscreen	
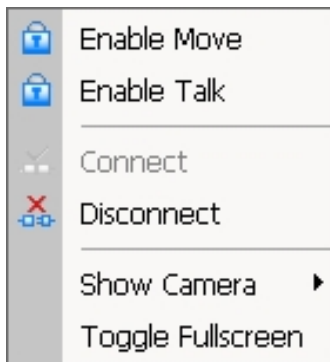
Right click on the camera screen and get the On Screen Menu from which you can **Enable Move, Enable Talk**, and **Connect / Disconnect** the camera.

Note: You can only work on current camera after clicking **Enable Move or Enable Talk**. With a PTZ camera locked, you may control it by clicking the screen. You can also talk to a camera with the two-way audio function.

Show Camera: You can also put another camera on the particular screen by selecting a camera from the menu.

Toggle Fullscreen: Click and switch to full screen display.

Playback: Click the icon to get Playback Console. You can watch recorded video, search, adjust image from records data, save video/ pictures and print images, check log in information, event records and setup recording function configuration. See Playback on page 14 for detail.

Start: Click on the pull down menu to Start/Stop Schedule System, Start/Stop Smart Guard System, Start/Stop Counting Application or click on Start/Stop Monitor All to activate/ deactivate all the functions above. Stop alarm by clicking Cancel All Events.

Note: The system will consider everything in the screen is normal when you click Start to activate monitor function. Therefore, for example, if you want to detect Missing Object, be sure the object that you want to protect is in its position when you click Start button.

Schedule: Schedule recording time table and setup recorder configuration.

Smart Guard: Add/edit type(s) of events which you want to detect; setup reaction(s) responding to events.

Config: System settings, Backup and Counting Application.

PTZ Camera Control: Control the movement of installed PTZ camera.
System Info: Day, Time, HD space information.

Information Window: Shows the system information including date, time, free HD space, CPU temperature, fan speed and customized text. You can customize the setting of Information Window in Config > General Setting > General.

5 Playback

Watch the recorded video, view and/or search for unusual events and recorded system information.

Scroll Bar: Quick search on the video, drag it to where you want to review.

Exit: Turn off the Playback Console.

Minimize: Minimizes the playback Console window.

Control: Play, pause and stop the video.

Cue: Set up the Cue In and Cue Out points of the clip you want to save as a video clip or a back up file with all the information recorded (including log info, events reported and so.) Cue In and Cue Out time will show on the Playback Information display once they are set.

Speed: Controls the play back speed, speed up and down.
Zoom: Zoom in and zoom out. You can get a close up view of the recorded video and move to the spot you want to view by dragging the screen.

5.1 Playback Console

Browse Mode: Play the recorded video.

Search Mode: Click on the Search Mode icon and get the Intelligent Search Tool panel. You can setup unusual events here to detect abnormality that occurred during the video was recorded. To setup unusual events.

Audio Volume Control: Adjust the sound level.

Date Time: By clicking on Date Time button, you can withdraw the video record that you want to review. As you click on the Date Time button, a control panel will show up.
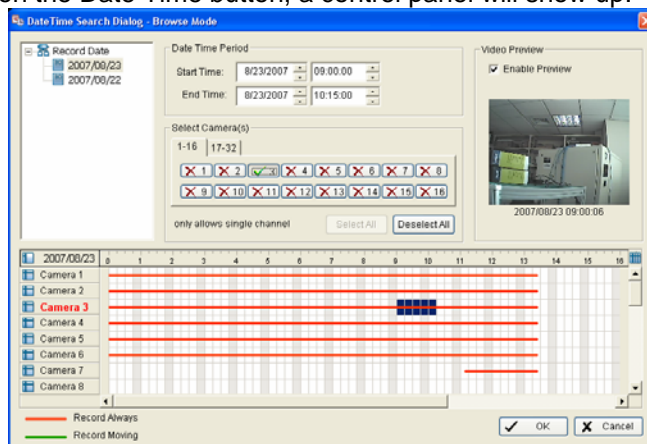
To withdraw the record:

Step 1: From the window at the top left of the Day-Time Panel, select the date you want to check, and you will see red/green lines show on the time table implying available recorded video.

Step 2: You can select the video clip you wan to review by left-clicking and dragging to highlight the time period. Besides using the time-table, you may indicate the time period of video that you want to see by using the Start Time and End Time in Date Time Period section.

Step 3: In Select Camera(s) section, select the camera(s)/channel(s) from which you want to see the video. You can select all the cameras by clicking Select All button.

Step 4: Check the box of Enable Preview to get the preview of the video you select.

Step 5: Click OK when you are satisfied with the setting.

5.2 Unusual Event - General Motion

Intelligent Search Tool panel:

Click on the Search Mode icon and get the Intelligent Search Tool panel. You can setup unusual events here to detect abnormality that occurred during the video was recorded.

General Motion: Detect any movement in the defined detection zone.

Define detection zone: To detect General Motion, you have to define a detection zone. Left-click and drag, and draw a detection zone. You may define more than one zone on the screen by repeat the process.
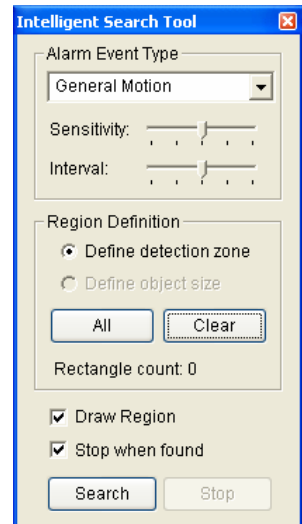
5.3 Enhancement
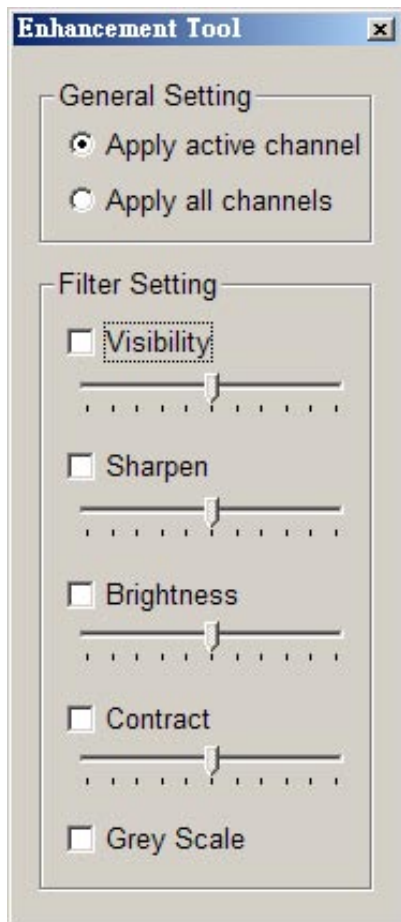
General Setting: Check the circle and chose whether you want to apply the setting to all the channels or only to those currently shown on the screen.

Filter Setting

Visibility: Check the box and adjust the gamma value of the image, which means, you may enhance the image and make it cleaner.

Sharpen: Check the box to activate the function. Move the control bar to the right to sharpen the image, to the left to soften it.

Brightness: Check the box to activate the function. Move the control bar to the right to make the image brighter.

Contrast: Check the box to activate the function. Move the control bar to the right to increase contrast.

Grey Scale: Check the box to show the record in grey scale mode, which is, in black and white.

5.4 Save Video / Save Image

Save Video

Step 1: Choose the camera display you want to save as a video clip.

Step 2: Set up the Cue In and Cue Out points, the cue in and cue out time will show up on the display.

Step 3: Click Save Video icon, choose the folder where you want to save the file, enter the file name and click SAVE. You may export (save) the record with both audio and video or you can explore the video only.

Step 4: Choose the compression format and then save the video.

Save Image:

Step 1: Chose the camera display from which you want to save pictures.

Step 2: Click Save Image button when the image you want is on the screen. You may click Pause to freeze the video, use Step Forward/ Step Backward function to find the picture you want to save.

Step 3: Choose the folder and the format of image (BMP, JPEG, GIF, PNG or TIFF) you prefer and then click save.

Note: You may pre-set a folder and format that you want to save the images, thus skip **Step 3**.

5.5 Print / Backup

Print:
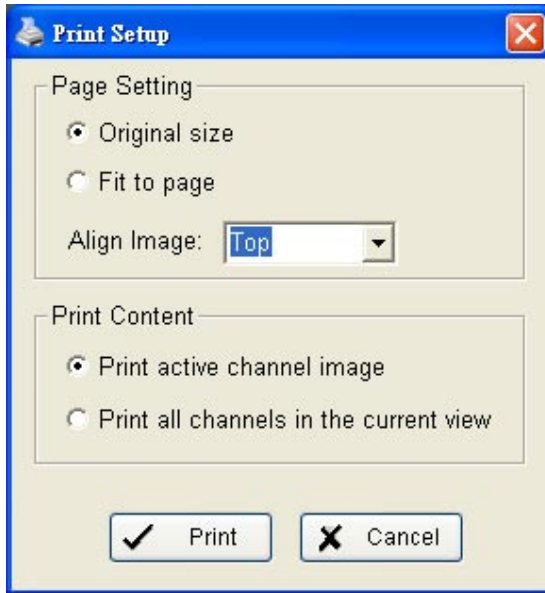
Print in original size

Fit the page

Align: Top, Center, or Bottom

Print Content: Print the image from selected channel or all the channels shown on the screen.

Backup:

Different from Save Video, the Backup function saves everything from the Playback panel, including log information.

You can open the Backup file on any PC with Windows OS and have the full function Playback panel on it and take the backup file to elsewhere to work on the recorded video.

5.6 Log Viewer

System Log: You can choose the **Log Type** form the pull-down menu, including:
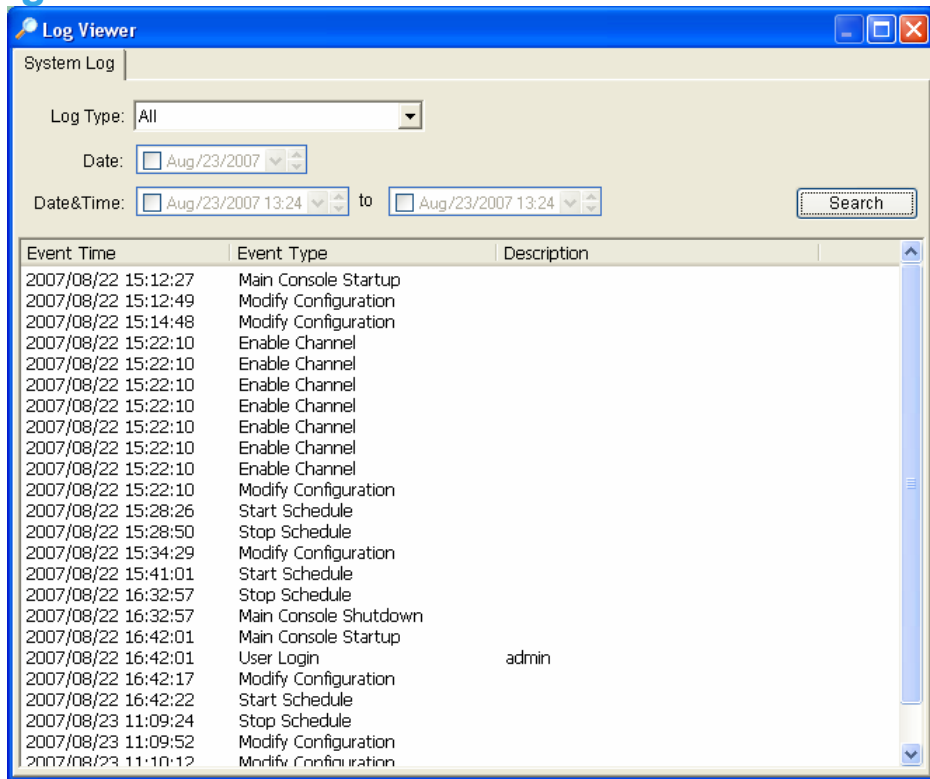Console Startup, Console Shutdown, User Login, User Logout, Start Schedule, Stop Schedule, Execute Recycle, Execute Backup, Enable Channel, Disable Channel, Start Smart Guard.

Step1: Choose the type of event you want to check or select "All" on the pull-down menu for all types of events.

Step 2: You can either view the events on a particular date or during a given time period. To search and view Unusual Event on a particular date, check the box right next to **Date** and indicate the date you want to check. You may also point out two different time points and search for Unusual Event between them. Mark the box in the **Date & Time** column and then enter the date and time.

Step 3: Click **Search**.

6. Schedule

Click on Schedule icon on Main Console and get the Schedule configuration panel to setup the time schedule for video recording.
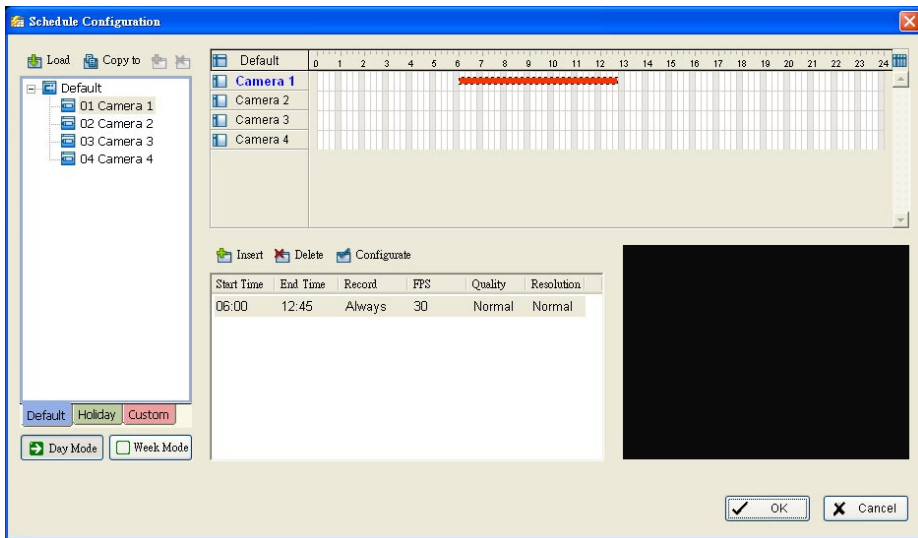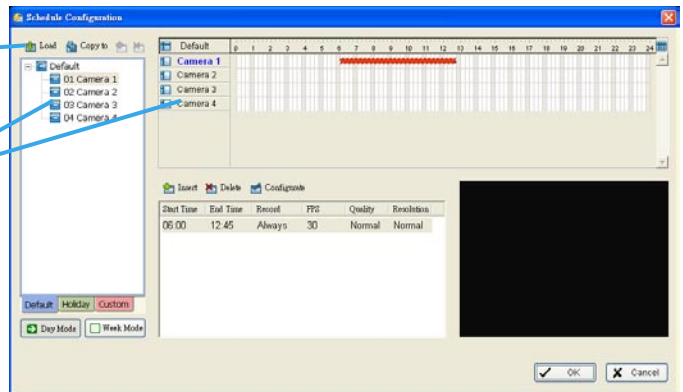
Day Mode
Schedule the cameras on a daily basis, which means that the recorder will be on and off, at the same time, according to the same schedule you setup every day.

To setup the time schedule for each camera, you may
1. **Load** the preset Modes or
2. **Insert** a new schedule manually.

Week Mode
Schedule the cameras for each day of the week differently. In addition, you may appoint extra holidays in Week Mode.

Default: Follow the same process to setup the schedule for every day in a week.

Holiday: You may appoint Holiday(s) on which the system will work as the setting of Sunday.

Custom: Or you can appoint a particular date(s) on which the system will work on a special schedule different from the others.

6.1 Load preset Modes

Click on the **Load** icon and get a pull-down menu.

Regular Mode: Record video 24 hours a day with the setting of 30 FPS (frames per second), Normal video quality and Normal resolution.
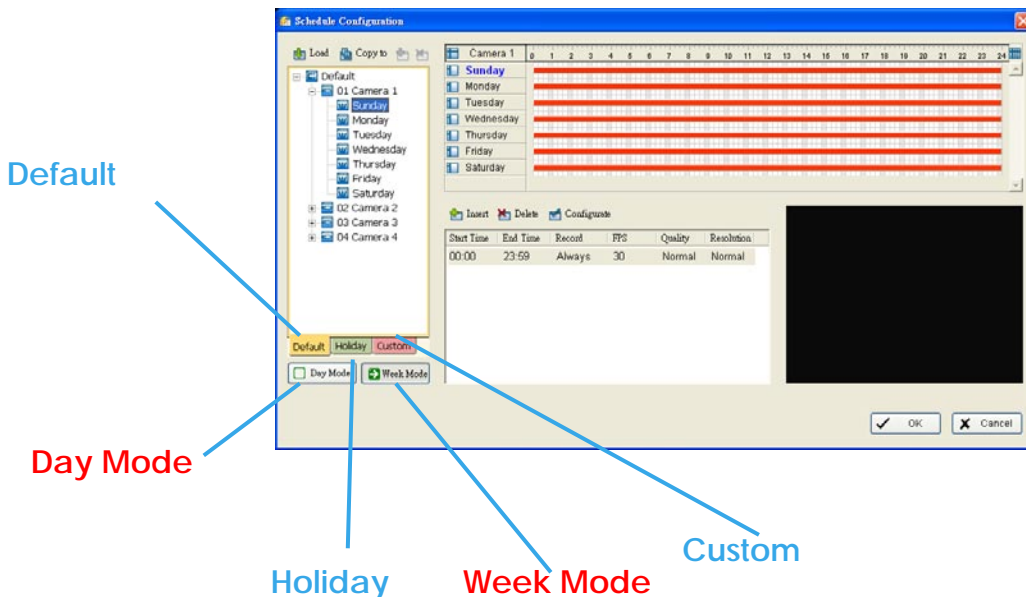
Office Mode: Record video from 8 am to 8 pm (08:00 – 20:00, shown as a red bar on Schedule Configuration panel) with 30 FPS, Normal video quality and Normal resolution.

Shop Mode: Record video from 10 am to 10 pm (10:00 – 22:00) with 30 FPS, Normal video quality and Normal resolution.

High Security Mode: Record video 24 hours a day with the setting of 30 FPS, Highest video quality and High resolution.

Disk Saving Mode: The system will start recording only when a motion on the screen is detected, 24 hours a day (shown as a green bar on Schedule Configuration panel), with the setting of 30 FPS, Normal quality and Normal resolution. You can adjust the sensitivity, interval and detection area of motion detection in schedule Configure.

Minor Mode: The system will start recording only when a motion on the screen is detected, 24 hours a day (shown as a green bar on Schedule Configuration panel), with the setting of 15 FPS, Low quality and Low resolution. You can adjust the sensitivity, interval and detection area of motion detection in schedule Configure.

Adjust the scheduled setting: Even when you have setup the Modes through the Load function, you can still manually make changes of it.

Option 1: Move the cursor to the **Time Bar** to change the length of it or move the bar sideway to change the start and stop points.

Option 2: Click the **Configure** icon or double click **schedule information** on the screen (highlighted in blue), get **Encoding Options** panel and change the setting that you want to.

Note: The time schedule setting is based on 15 minutes.

You may setup the schedule for each channel/camera by repeating the process above or applying the setting of a camera to all other cameras.

6.2 Insert a new schedule manually

Step 1: Left-click and draw the length you want on time table. The scheduled time will show as a grey bar.

Step 2: Click on the **Insert** icon and add a new schedule with the setting of Regular Mode, that is, to record video during the time period you set with 30 FPS, Normal video quality and Normal resolution.
Step 3: Change the setting if you want, by click on the **Configure** icon or double click the **schedule information**.

Step 4: Click OK.

6.3 Insert a new schedule manually
You can also setup a new schedule manually in Week Mode and click the "Insert" button, then following the same process as in Day Mode to insert.
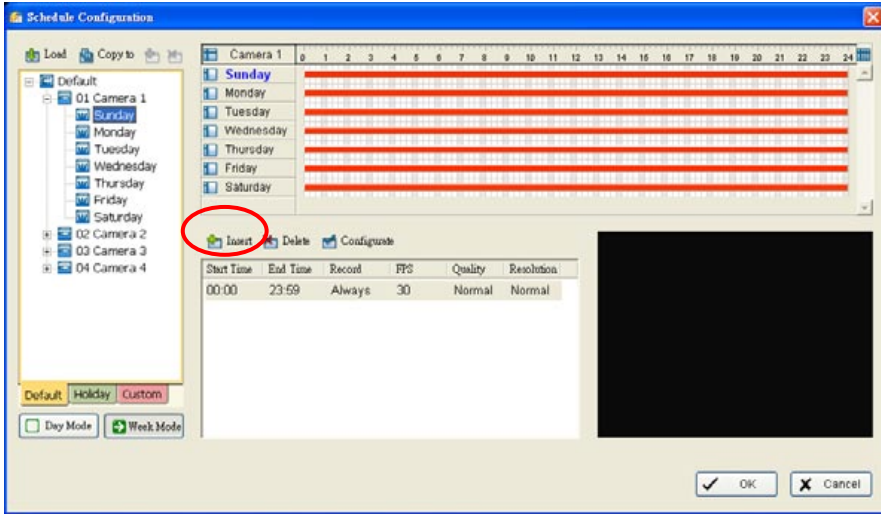
6.4 Encoding Option

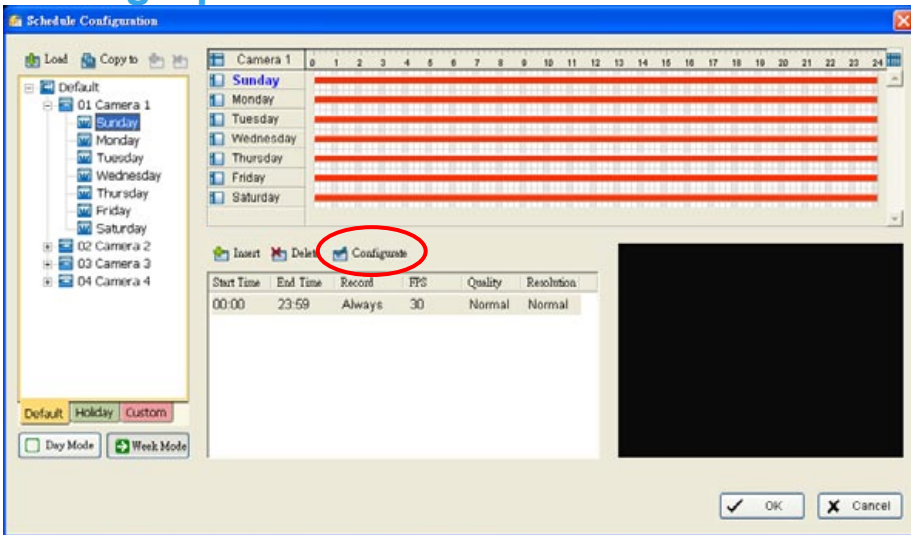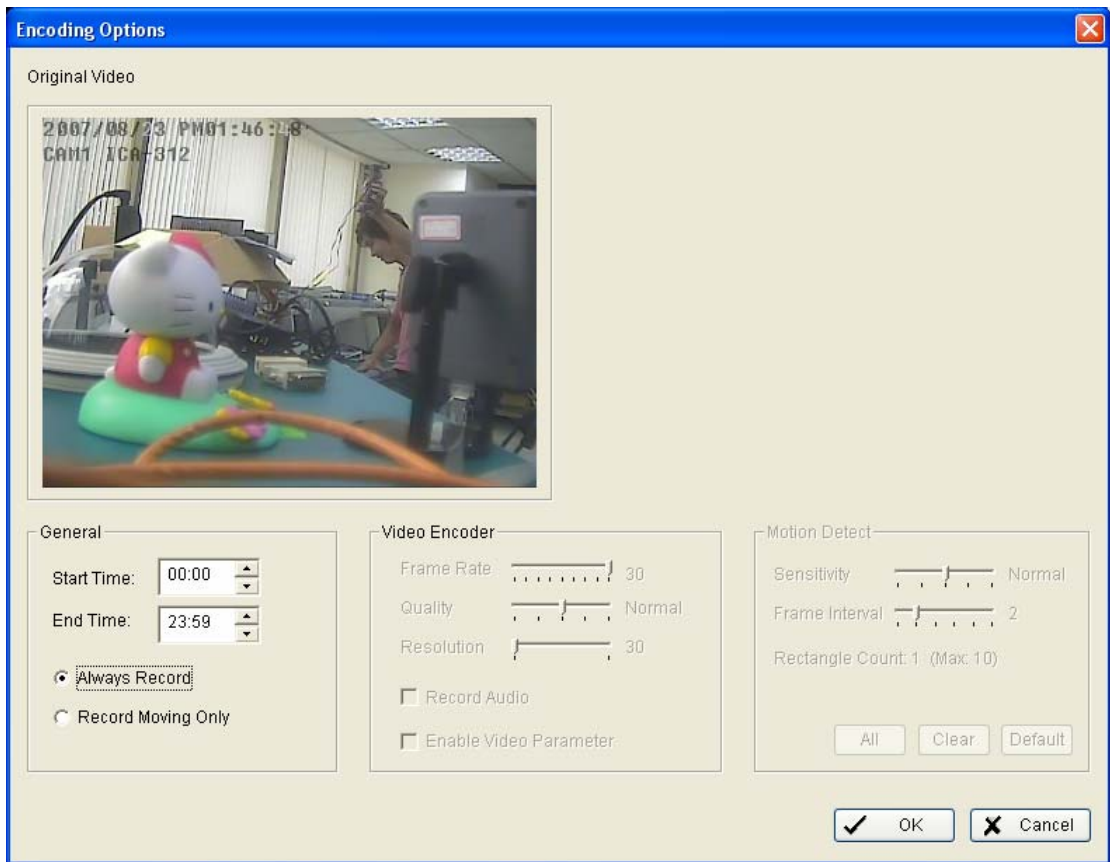You can click "Configure" button to modify the further settings for the record. After press, you will see the dialog box below.

The setting of a schedule can be adjusted in Encoding Option panel.

General: Setup Start Time and End Time, select the recording mode from either Always Record or Record Moving Only which may save storage space.

Video Encoder: You can adjust the Frame Rate (from left to the right to increase the value), the Quality (move to the right to increase the value) and the Resolution of the image. Higher Quality and higher resolution means better details of image, in the mean while, it will occupy more storage space. Check the box of Encoded video to see the preview and find your balance between storage space and image quality.

Motion Detect: When selecting Record Moving Only, you may change the detection area by drawing a square on the Original video screen (the default setting is to detect the entire screen.) You can also adjust the Sensitivity and Frame Interval here.

7. Configuration

In this section, you can configure Cam Viewer Lite with more detail settings.
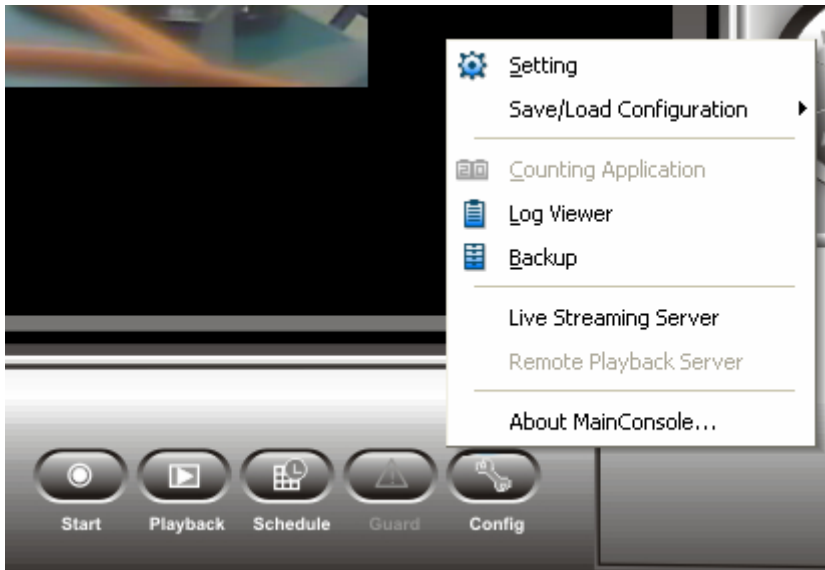
Click the Config icon, selection from the pull-down menu and open the Configuration panel. After select the "Setting", you will see the configure screen as below.
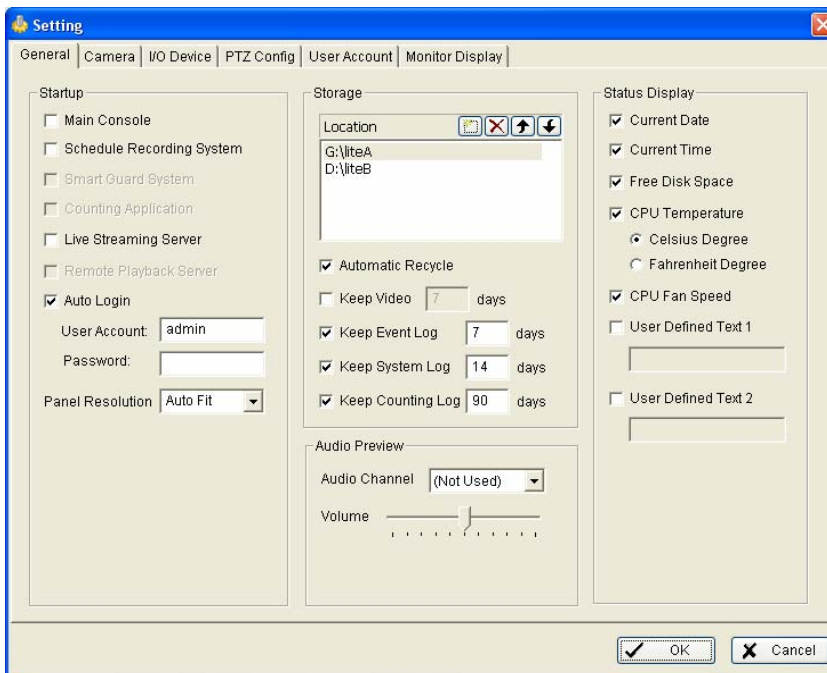
7.1 General

Startup: Check the box and activate the functions as the system starts. You may start/stop the function in Monitor panel on the Main Console.

Storage:

Location: Assign the path and folder in which the system saves the files.

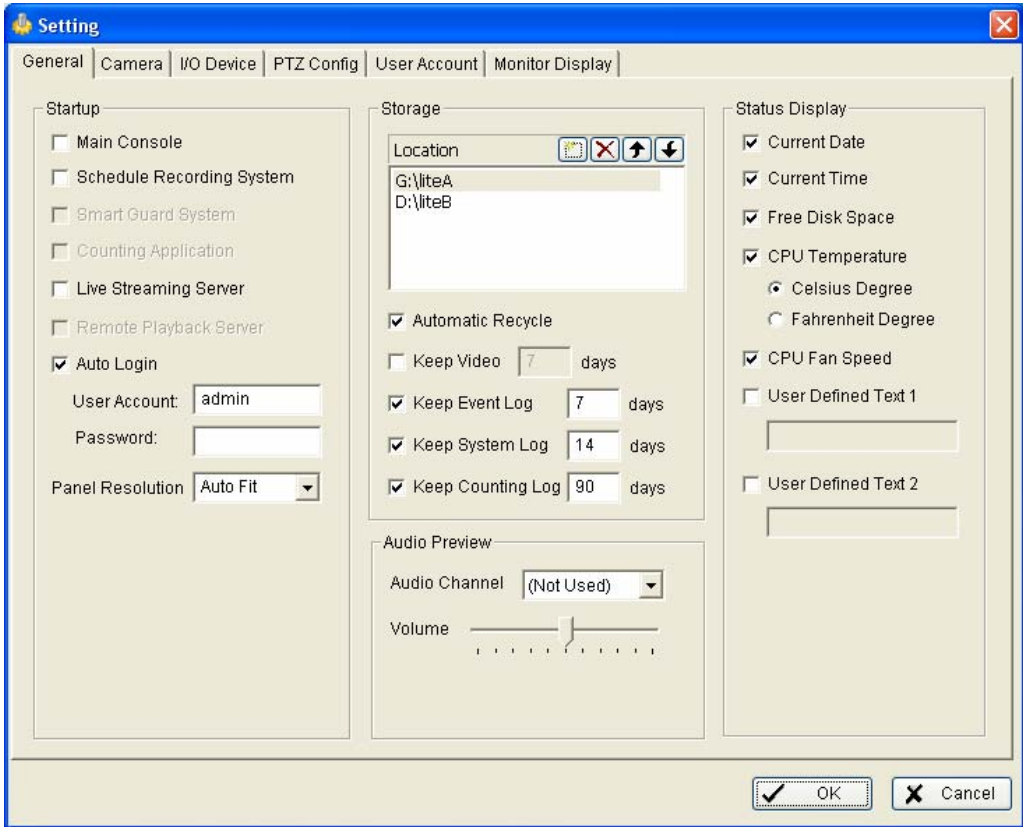**Automatic Recycle:** The system will automatically delete out-dated data and save storage space.

Keep Video: Deletes the video records older than the number of days you set.

Keep Event Log: Deletes the event log data older than the number of days you set.

Keep System Log: Deletes the system log data older than the number of days you set.

Keep Counting Log: Deletes the counting application data older than the number of days you set.

Audio Preview: Assign the audio channel to preview and the sound volume.

Status Display: Select which information you want to show on the information-display on Main Console. About the CPU status, you should install the MBM 5 when you install Cam Viewer. If you don't install MBM 5, the CPU status will not be display, even you have check the option here.

7.2 Camera
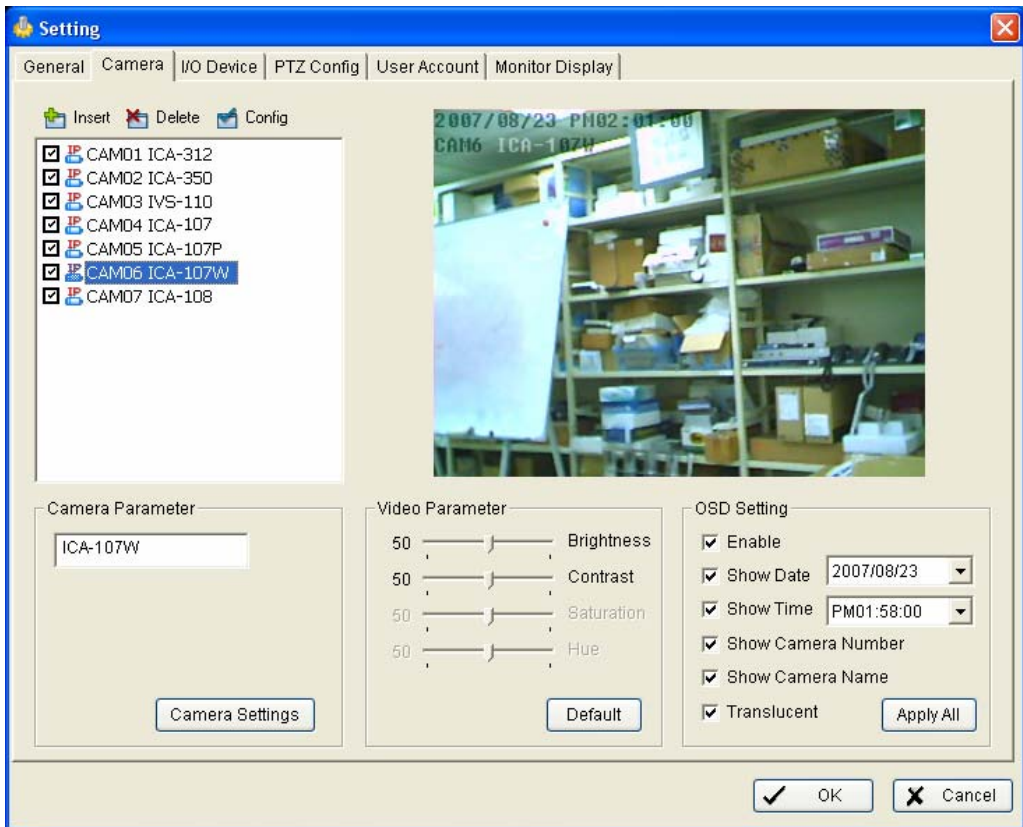
Camera List: The camera(s) connected to the system will show on the panel, click the name of the camera and then you may adjust the setting of it.

Camera Parameter:

Camera Name: Name the camera for your convenience when insert the camera.
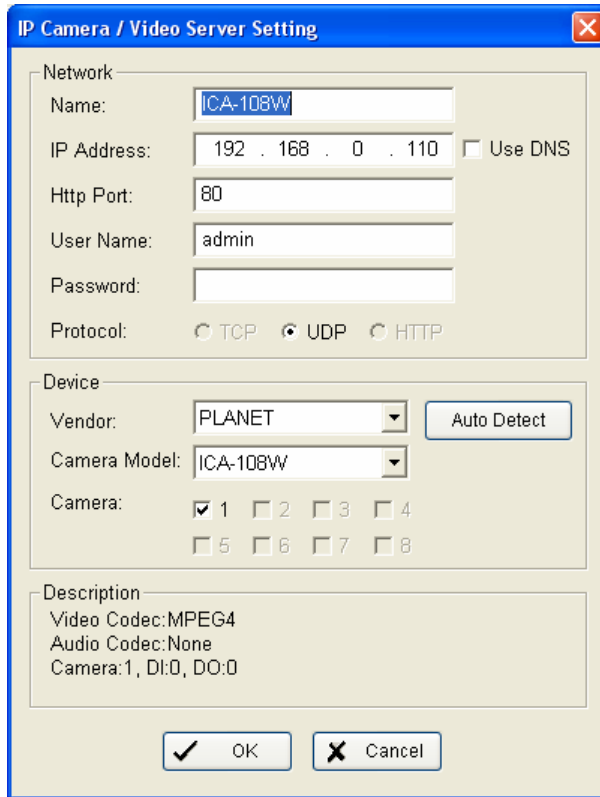
Camera Settings: You can press this button to configure the selected IP camera. After click, you will see the dialog box below.

Network: Fill up the Network field (including Name, IP Address, Http Port, User Name, Password and Protocol) referring to the instruction provided by the manufacturer. Check "Use DNS" to use domain name instead of IP address.

Device: Choose the manufacturer of the IP camera from the pull-down menu. Click on "Auto Detect" and the model name will be shown in the box.

Description: Shows information of the IP camera.

Video Parameter: Adjusts brightness, contrast, saturation, and color hue.

Apply All: Click to apply the setting to all the cameras.

OSD Setting: Select what you want to put in the On Screen Display, showing on the sub-screen of the camera.

Three function buttons will be included in the Setting/Camera panel if you have our Hybrid Surveillance System license for IP camera using.

Insert: Click and the IP/Video Server Setting panel will pop up. You can add an IP camera in the system with the Setting panel. See next page for detail.

Delete: Click and delete the selected IP camera(s), click OK and then the IP camera(s) will be removed from the system.

Config: Click and the IP/Video Server Setting panel will pop up. You can modify the IP camera settings with the Setting panel. See next page for detail.

7.3 I/O Device
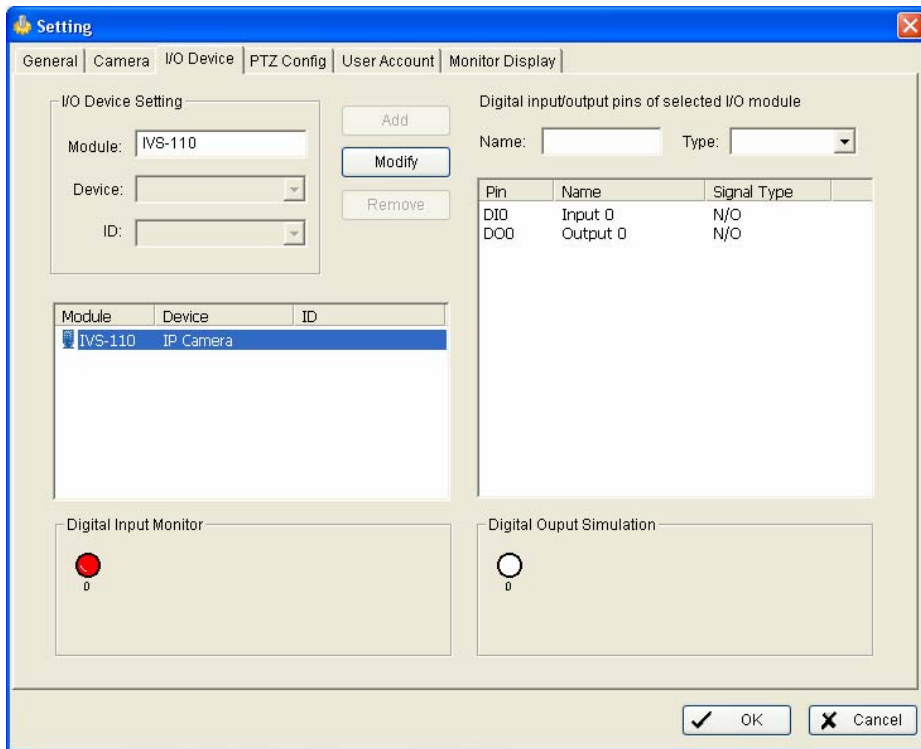
Module Setting: To name the module device and ID connecting the digital input/output device(s) to your system.

　Devices: Shows the device(s) installed to the system.
　ID: Select the number of the I/O port to which you plug the ribbon cable.

Digital Input Monitor: Trigger the digital input device and the related icon will light-up. To check if the device is correctly connected or not.

**Digital Output Monitor:** Click on the icon and trigger the digital device connecting to your system to test if it is correctly connected.

Digital Input/Output pins of selected I/O module:
　Name: To name the device (input and output).
　Type: To select from the pull-down menu. **N/O** means that the digital signal is **Open** in normal condition; **N/C** mean that the signal is **Close** in normal condition.

7.4 PTZ Config
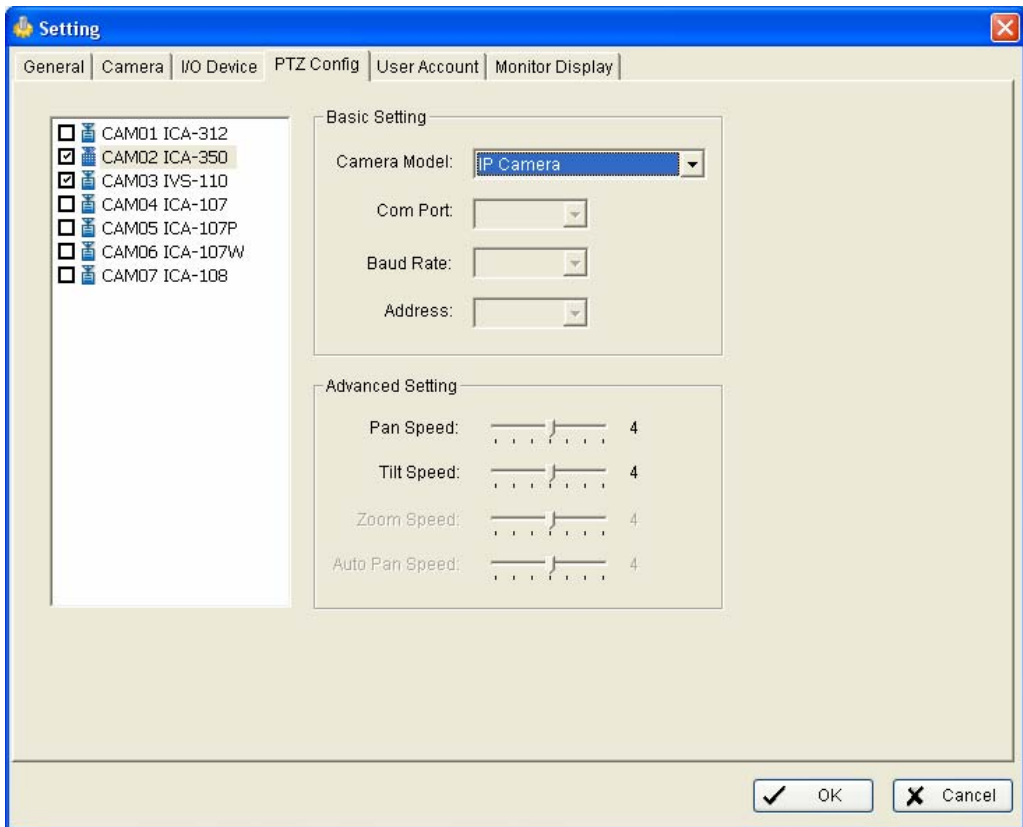
Install the PTZ camera following the instruction of the manufacturer. The PTZ camera is usually connected to the PC with RS-485.

Check the box on the camera list to activate the PTZ control function of a PTZ camera.

Basic Setting: Select the Camera Model, Com Port, Baud Rate, and Address according to your PTZ camera.
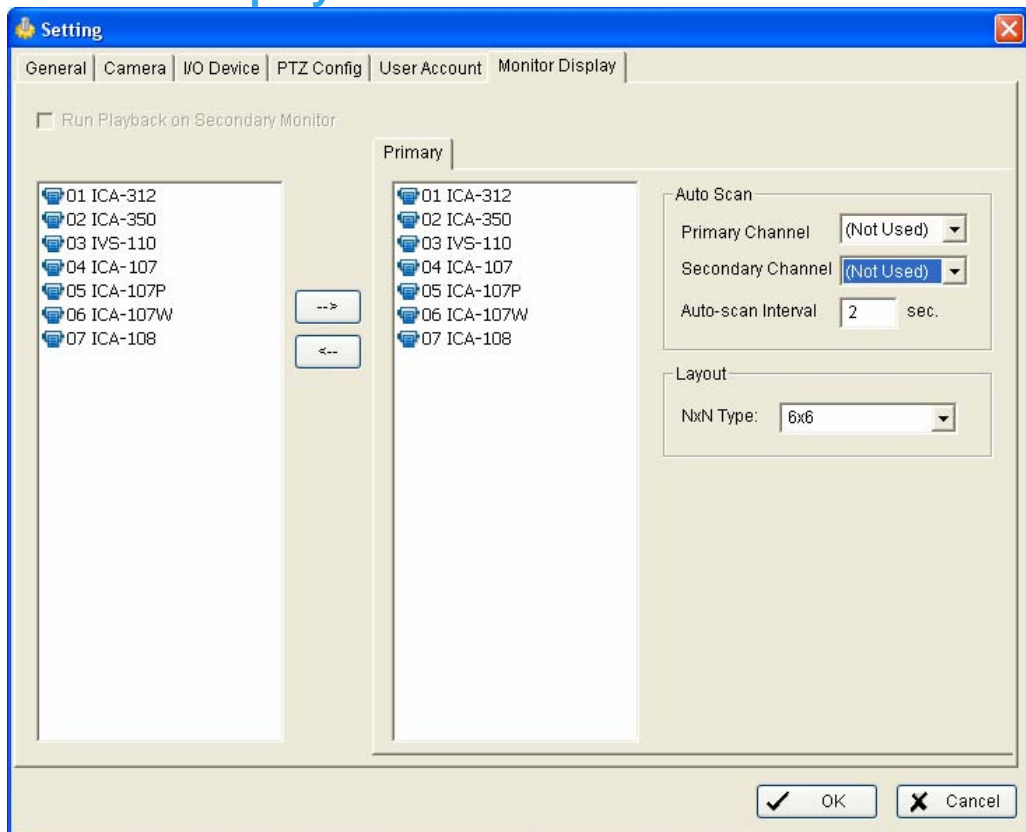
Advanced Setting: You may setup the Pan Speed, Tilt Speed, Zoom Speed and Auto Pan Speed.

7.5 User Account
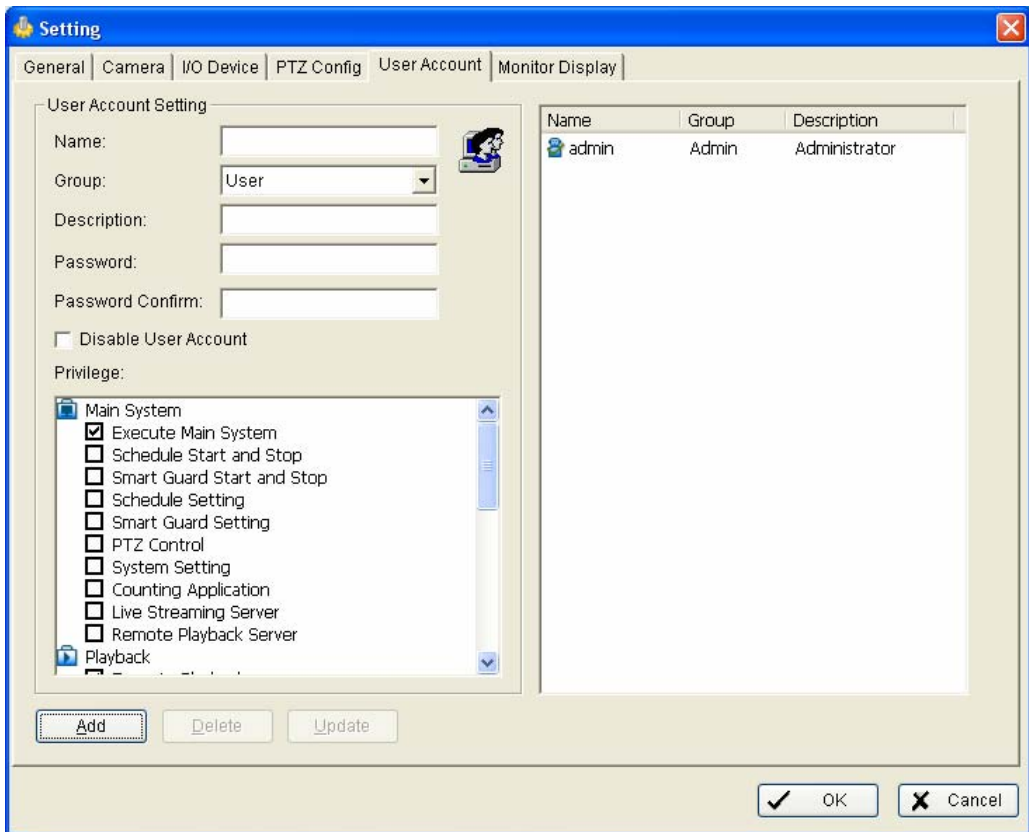
User Account: Manage user accounts here. Highlight the account on the list at the right and then you can change the Privilege setting by check and un-check the box of each function.

7.6 Monitor Display

Cameras List: Show all cameras on the left list.

Auto Scan: Choose Auto Scan to rotate the channels / cameras on the screen.
For instance, you select the Screen Division mode to show only 4 sub- screens on the Main Console while having 16 channels connecting to the system. Use the Auto Scan function and then you are able to see all the 16 channels showing by turns. You can also setup a Primary Channel to keep it always on the screen; and a Secondary Channel that has the secondary priority.

Layout: Choose the number of divisions for NxN division on the Main Console screen.

8. Log Viewer

System Log: You can choose the **Log Type** form the pull-down menu, including:
Console Startup, Console Shutdown, User Login, User Logout, Start Schedule, Stop Schedule, Execute Recycle, Execute Backup, Enable Channel, Disable Channel, Start Smart Guard.

Step1: Choose the type of event you want to check or select "All" on the pull-down menu for all types of events.

Step 2: You can either view the events on a particular date or during a given time period. To search and view Unusual Event on a particular date, check the box right next to **Date** and indicate the date you want to check. You may also point out two different time points and search for Unusual Event between them. Mark the box in the **Date & Time** column and then enter the date and time.

Step 3: Click **Search**.

9. Backup

Cam Viewer Lite has support a convenient interface of backup function for user to backup the record file and log information to another place.

9.1 Backup

The **Backup Till** function saves video record and the other log information. You can open the Backup file on any PC with Windows OS and have the full function Playback panel on it.

Step 1: Click **New Period** to get the Backup panel to add a new time period you want to backup.
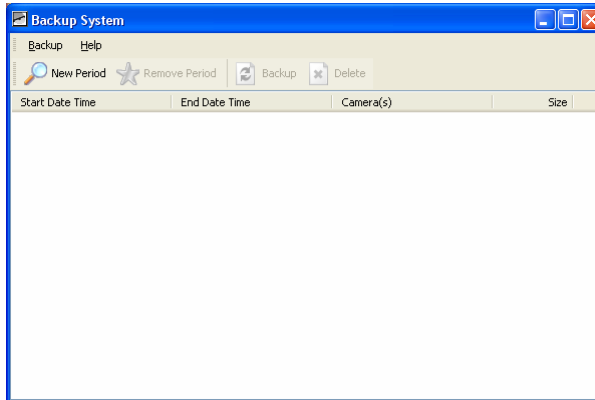
Step 2: From the window at the top left, select the date you want to backup from, and you will see red/green lines show on the time table implying available data recorded.
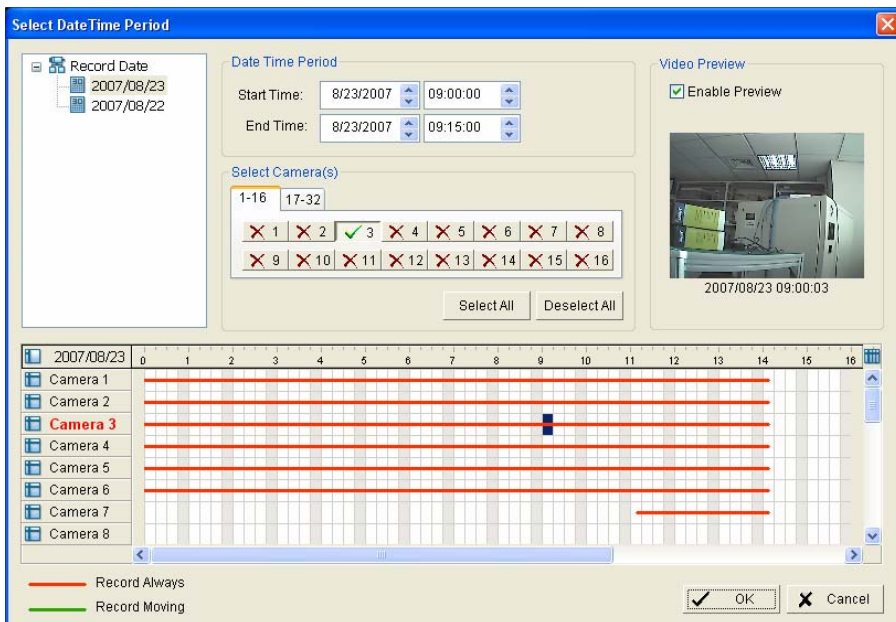
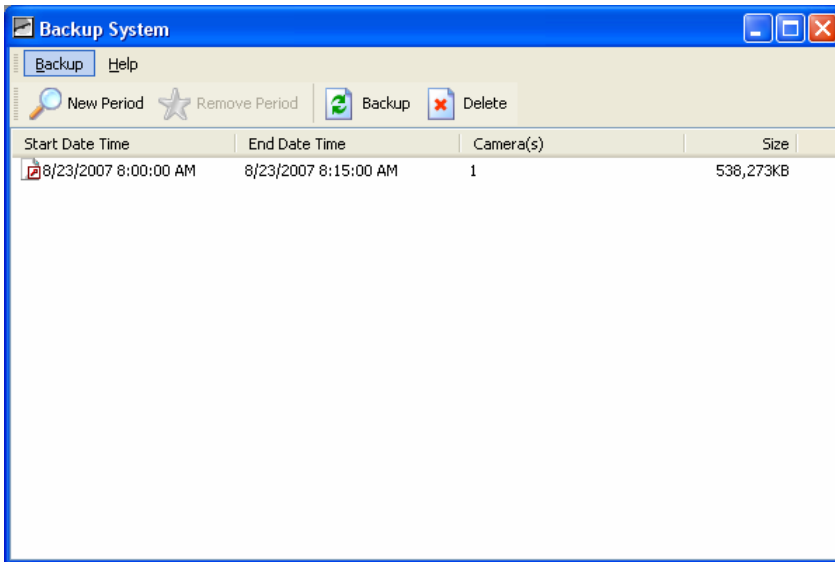**Step 3:** You can select the data you wan to backup by left-clicking and dragging to high light the time period. Besides using the time-table, you may indicate the time period of the data you want to backup by using Start Time and End Time in Date Time Period section.

Step 4: You can click on the camera number icon to add the camera(s) or click Select All to add all the cameras.

Step 5: Check the box of Enable Preview to get the preview of the video you select.

Step 6: Click OK when it is done and go back to the Backup panel.

Step 7: Click the **Backup** icon and you can see the size of the file.

Step 8: Choose the path you want to save the file or, burn the file into a CD (direct CD burning for Windows XP only).
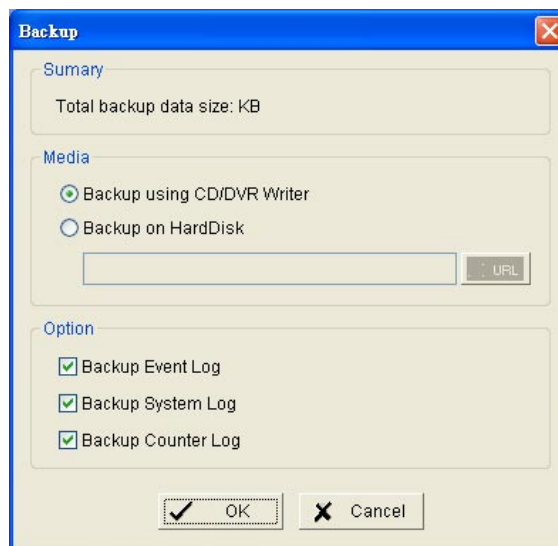
Step 9: Select which log information you want to backup (System Log) and then click OK.

9.2 Erase recorded information

Step 1: Click New Period to get the Backup panel to add a new time period you want to erase all the data recorded.

Step 2: From the window at the top left, select the date you want to remove from, and you will see red/green lines show on the time table implying available data recorded.

Step 3: You can select the data you wan to erase by left-clicking and dragging to highlight the time period. Besides using the time-table, you may indicate the time period of the data you want erase by using Start Time and End Time in Date Time Period section.

Step 4: In Select Camera(s) section, select the camera(s) from which you want to erase or select all the cameras by clicking Select All button.

**Step 5:** Check the box of Enable Preview to get the preview of the video you select.

Step 6: Click OK when it is done and go back to the Backup panel.

Step 7: Click on the Delete icon and erase the data.

10. Live Streaming Server

Live Streaming Server setting in Cam Viewer shall provide a way to turn the PC into a web server that the manager can view the cameras attached to this Cam Viewer installed PC. The manager can stay at any where yet can still remote watch/monitor the video from Cam View through any at hand Web browser. The settings including Main setup, Black/White List and Performance settings.

10.1 Main
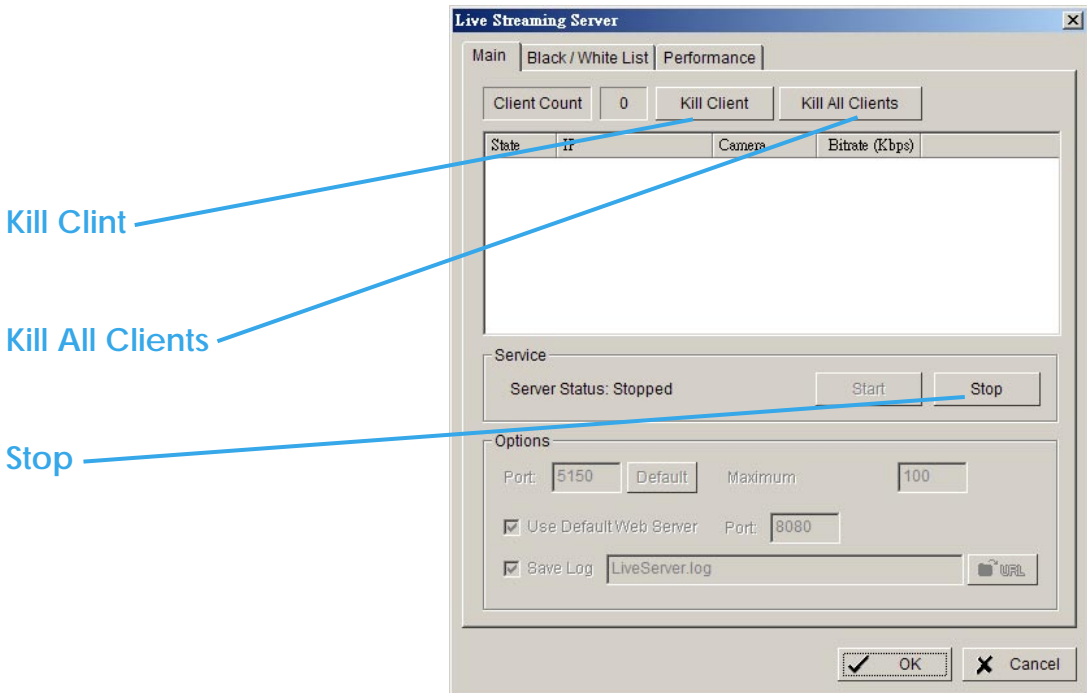
On Live Streaming Server panel, you can see the clients who are logging on your computer and watching the live video from the remote side.

Kill Clint: Highlight the IP and click Kill Client to block the client from your system.

Kill All Clients: Block all the clients logging to your system.

Stop: To stop broadcasting live stream video.

Maximum Users

Port

Web server

Save Log
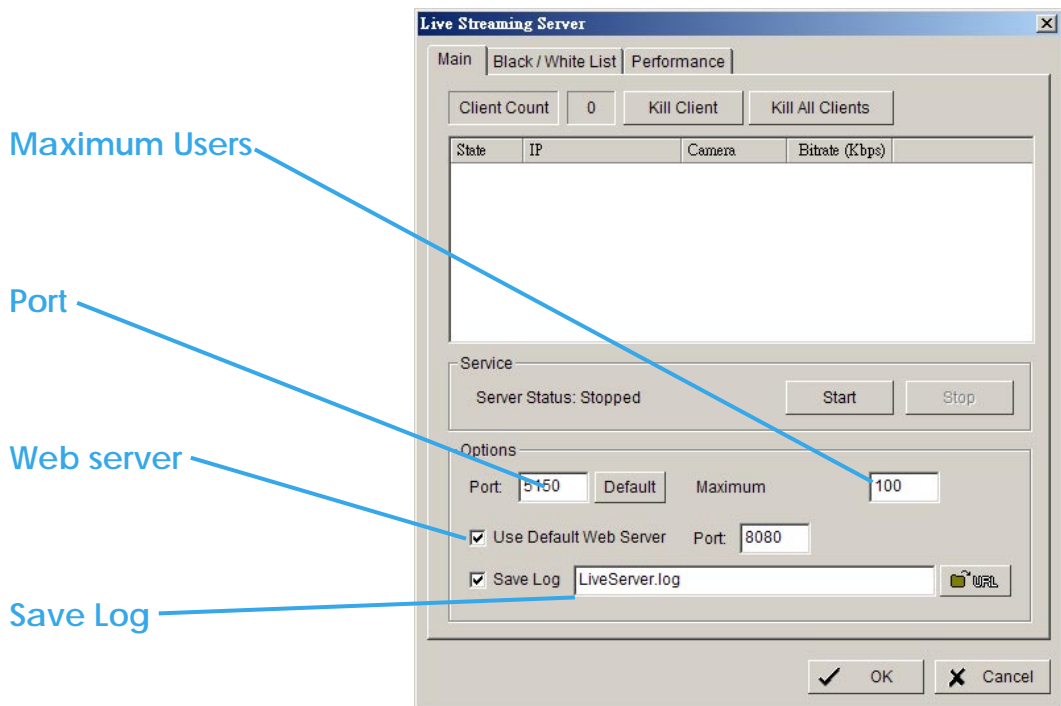
**Options:** You can adjust the configuration when the Server is stopped.

Port: Assign the network port you want the clients to connect to your system.

Use Default Web Server: Check the box and activate Web Server, so that the clients will be able to watch live video on Internet Explorer. The port is set to 80 by default.

Maximum Users: Number of connections that are allowed to connect to your system. One camera video counts as one connection.

Save Log: Appoint the folder and save the log information there**.**

10.2 Black/White List

White List

Black List

IP Field

Add/Delete

Apply to All Play-
back Servers
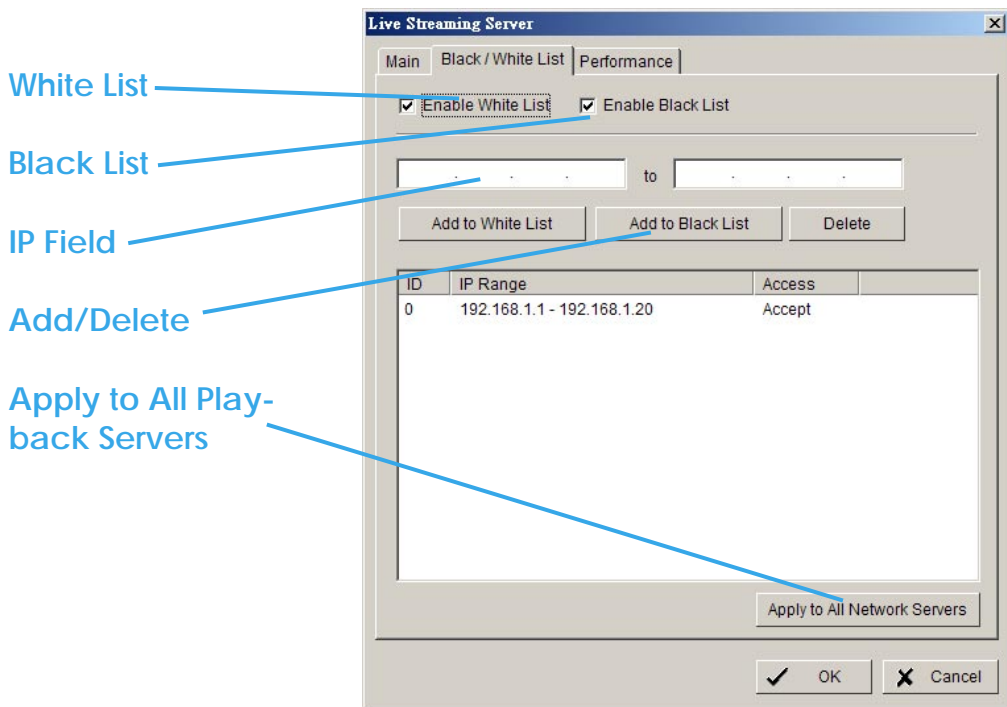
White List: Check the box to activate White List filter. Only IPs from the White List is allowed to log-in.

Black List: Check the box to activate Black List filter. IPs from the Black List will be blocked.

IP Field: Enter IP into the IP field on the left; or enter 2 sets of IP to indicate a series of IPs.
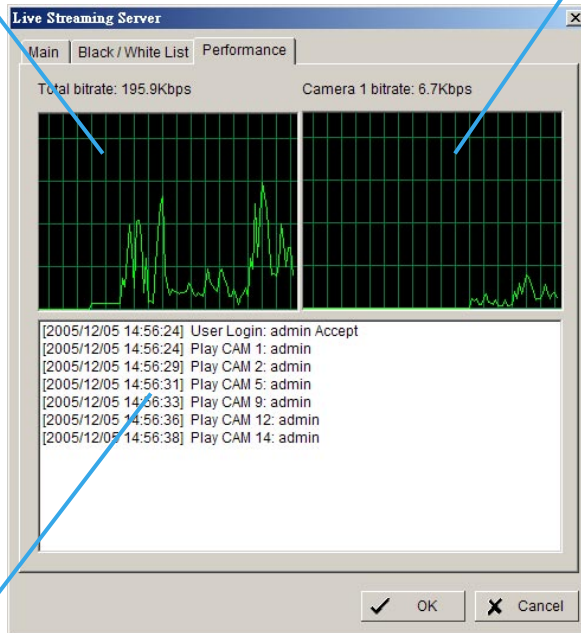
Add/Delete: To Add the IP(s) onto the list or remove it from the list.

Apply to All Playback Servers: To apply the setting to all the servers.

10.3 Performance

Total bitrate

Individual Camera bitrate

Live Streaming Server log information

11. Live Viewer

On Live Viewer console, you can run the web browser to watch the video from remote live streaming server(s) via Internet.
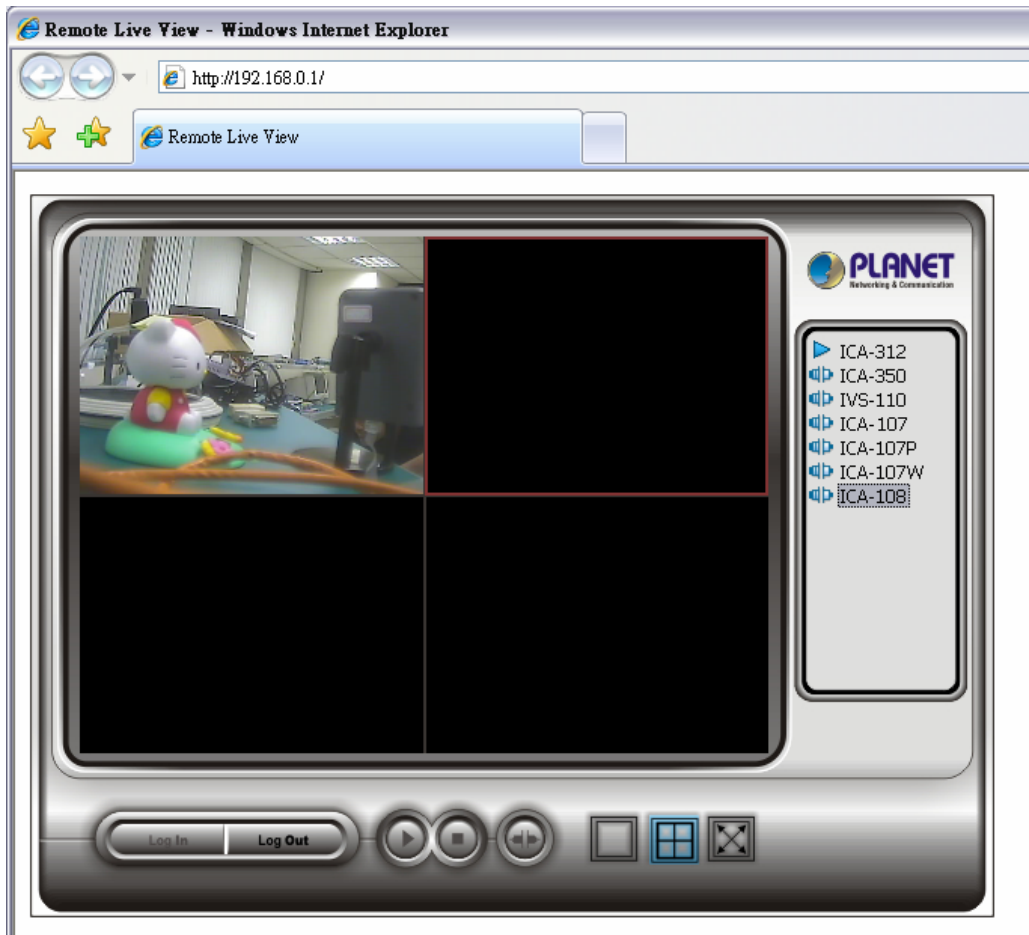

Select the camera from the server, hold the left click and drag the camera to where you want to put the image.

You can right click the camera on the list to connect/disconnect it.

Log In / Log Out: Select the server and click **Log In / Log Out** icon to log-in / log-out the server or you can right click the sever on the list to log-in and log-out.

Play / Stop: Select a camera/video and click **Play / Stop** to play/stop the particular channel.

IP of the server: Open an Internet Explorer and enter the IP number of the server followed by the connecting port.

Connect / Disconnect: Select the camera from the server, hold the left click and drag the camera to where you want to put the image, or double click the camera on the list to connect it.

Select the camera on screen or on the list and click the **Disconnect** icon to disconnect the camera.

Play / Stop: Select a camera/video and click **Play / Stop** to play/stop the particular channel.

12. About

Click **About** on the pull-down menu to view the version of your surveillance system and the hardware information.
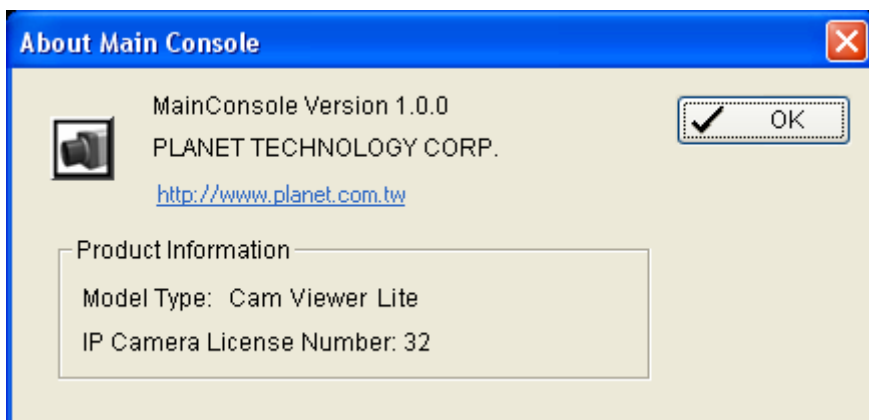
Appendix A

Comparison Sheet

	Cam Viewer Lite	Cam Viewer Pro
IP Camera Input	Up to 32 channels	Up to 64 channels
Dual Monitor	-	Yes
Live Streaming Server	Yes	Yes
Remote Playback Server	-	Yes
General Setting	Yes	Yes
Camera Setting	Yes	Yes
I/O Device Setting	Yes	Yes
PTZ configuration	Yes	Yes
Send Mail	-	Yes
User Account	Yes	Yes
Counting Application	-	Yes
Multiple Language	Yes	Yes
Recording Schedule	Motion Record	Motion Record
Log Viewer	System log	Unusual event; System Log: Counting Application
Backup	CD-ROM; Hard Disk	CD-ROM; Hard Disk
Concurrent Playback Channel	1	16
Save Video	AVI	AVI

Note: The Cam Viewer Pro in the CD-ROM only provide 30-days trial. If you want to use Pro version after trial period. Please consult PLANET local dealer or PLANET sales representative.