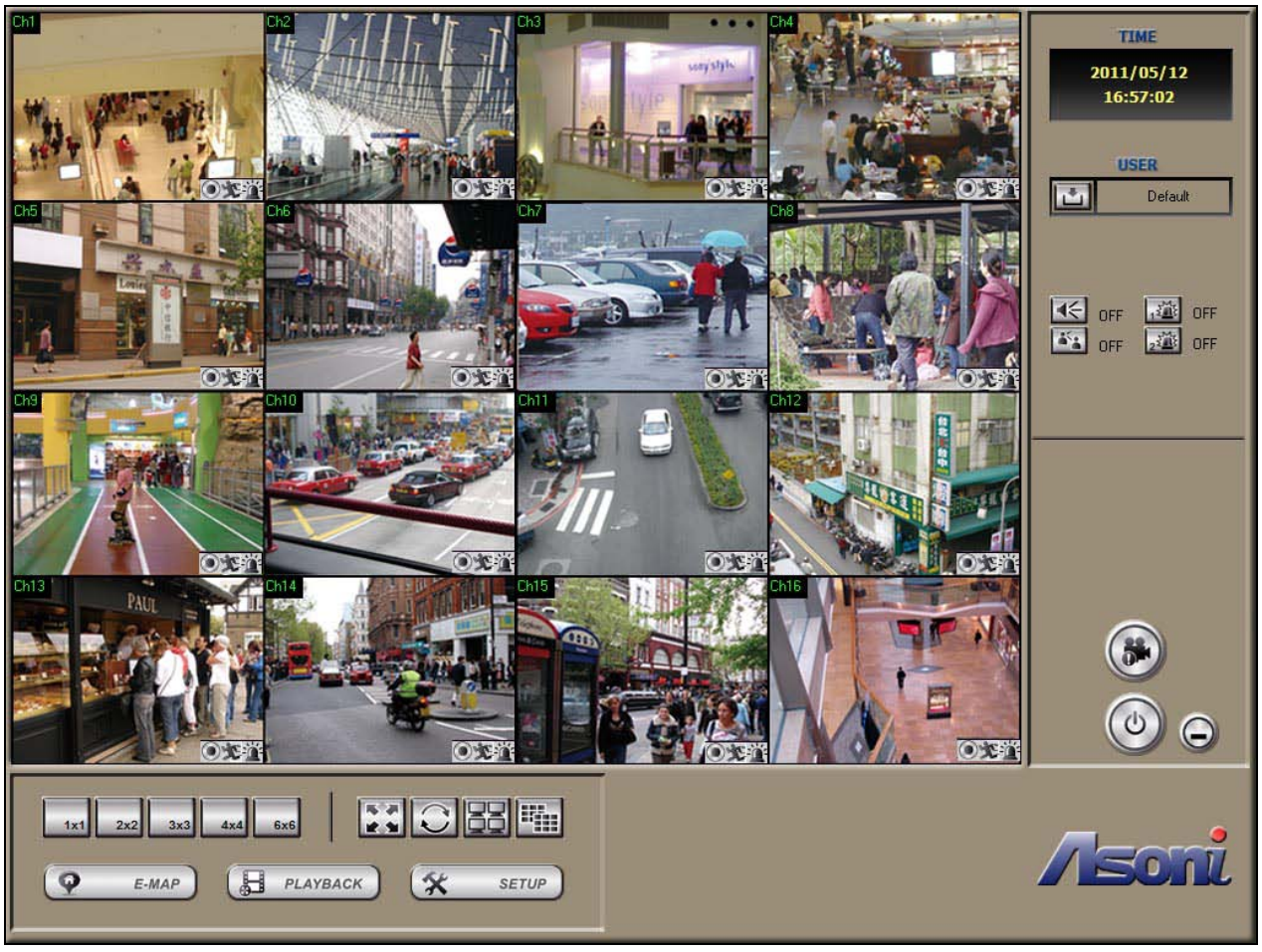
SOL4360 IPCamera Recorder

User's Manual



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1. Preface

IPCamera Recorder is a video recording software which supports IP Camera and Video Server. People use this recording software to monitor the real-time video, record the video on PC then play the recorded video when necessary.

IPCamera Recorder supports 5 different ways to record the video, including normal recording, schedule recording, motion-triggered recording, alarm-triggered recording and manual recording. In addition, E-Map and Multi-Monitor are the built-in functions to make this recording software handy.

Through activating the function of Web server and remote AP server, IPCamera Recorder provides web browser and RemoteLite program for user's demand.

2. System Requirements

The following lists the recommended PC specification, please note:

The PC performance, camera's resolution and FPS, will affect the maximum simultaneous live-view channels.

PC Specification	**CPU:** Intel I7-2600 3.4GHz			
	RAM: 4GB			
	Display Card: Independent display card with 1GB RAM on board, ATI or nVidia chipset is recommended, such as ATI-5450 or above			
	Monitor Resolution: This software will automatic adjust to apply the monitor resolution, from 1024x768 up to 1920x1200			
	Recording Hard Disk Drive ● Internal: SATA II 7200rpm, File System: NTFS ● External: DAS (Direct Attached Storage) connected via eSATA or USB2.0			
	Operating System: Windows 7 / Vista / XP			
Resolution	CIF (320x240)	D1 (720x480)	1.3M (1280x1024)	2M (1600x1200)
Bitrate	H.264 512Kbps (CBR)	H.264 1Mbps (CBR)	H.264 1.5Mbps (CBR)	H.264 2Mbps (CBR)
Frame Rate	30 FPS	30 FPS	10 FPS	15 FPS
Simultaneous Recording Channels	Up to 36 Channels	Up to 36 Channels	Up to 36 Channels	Up to 36 Channels
Simultaneous Live-View Channels	Up to 36 Channels	Up to 32 Channels	Up to 25 Channels	Up to 18 Channels

PC Specification	**CPU:** Intel I5-2500 3.3GHz			
	RAM: 4GB			
	Display Card: Independent display card with 1GB RAM on board, ATI or nVidia chipset is recommended, such as ATI-5450 or above			
	Monitor Resolution: This software will automatic adjust to apply the monitor resolution, from 1024x768 up to 1920x1200			
	Recording Hard Disk Drive ● Internal: SATA II 7200rpm, File System: NTFS ● External: DAS (Direct Attached Storage) connected via eSATA or USB2.0			
	Operating System: Windows 7 / Vista / XP			
Resolution	CIF (320x240)	D1 (720x480)	1.3M (1280x1024)	2M (1600x1200)
Bitrate	H.264 512Kbps (CBR)	H.264 1Mbps (CBR)	H.264 1.5Mbps (CBR)	H.264 2Mbps (CBR)
Frame Rate	30 FPS	30 FPS	10 FPS	15 FPS
Simultaneous Recording Channels	Up to 36 Channels	Up to 36 Channels	Up to 36 Channels	Up to 36 Channels
Simultaneous Live-View Channels	Up to 36 Channels	Up to 25 Channels	Up to 20 Channels	Up to 14 Channels

PC Specification	**CPU:** Intel I3-2100 3.1GHz			
	RAM: 4GB			
	Display Card: Independent display card with 1GB RAM on board, ATI or nVidia chipset is recommended, such as ATI-5450 or above			
	Monitor Resolution: This software will automatic adjust to apply the monitor resolution, from 1024x768 up to 1920x1200			
	Recording Hard Disk Drive ● Internal: SATA II 7200rpm, File System: NTFS ● External: DAS (Direct Attached Storage) connected via eSATA or USB2.0			
	Operating System: Windows 7 / Vista / XP			
Resolution	CIF (320x240)	D1 (720x480)	1.3M (1280x1024)	2M (1600x1200)
Bitrate	H.264 512Kbps (CBR)	H.264 1Mbps (CBR)	H.264 1.5Mbps (CBR)	H.264 2Mbps (CBR)
Frame Rate	30 FPS	30 FPS	10 FPS	15 FPS
Simultaneous Recording Channels	Up to 36 Channels	Up to 36 Channels	Up to 36 Channels	Up to 36 Channels
Simultaneous Live-View Channels	Up to 36 Channels	Up to 18 Channels	Up to 12 Channels	Up to 10 Channels

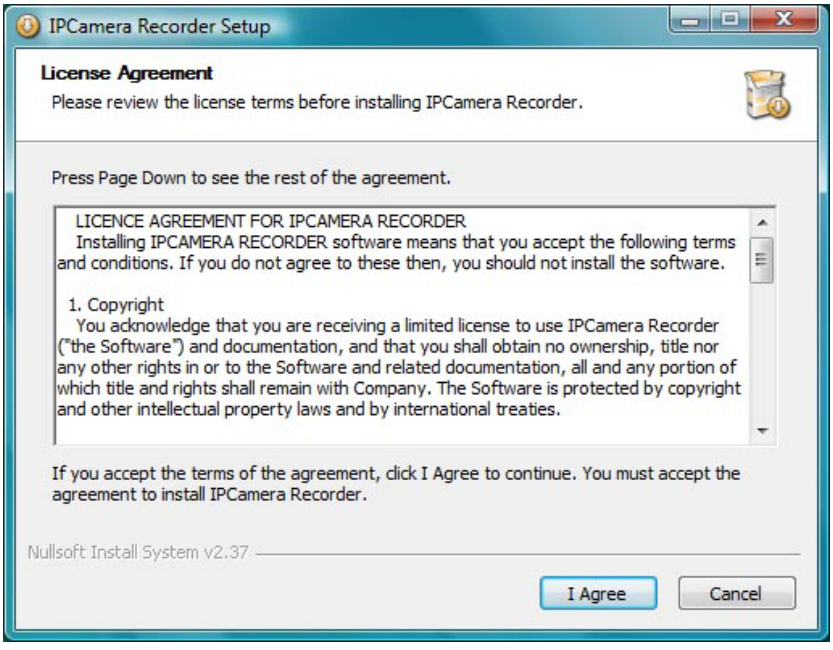
3. Software Installation and Un-installation

3.1. Software Installation

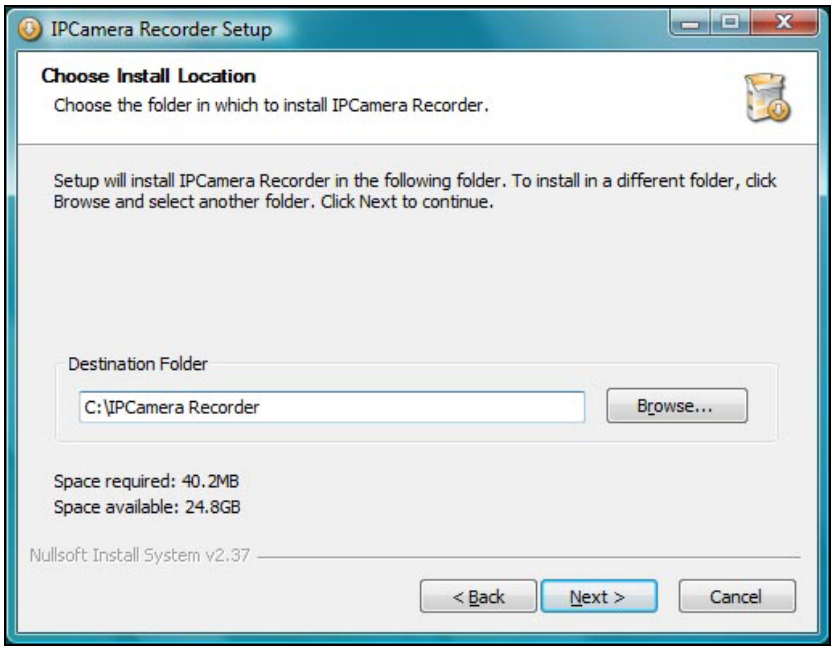
1. Insert the CD-ROM, click on **[SOL4360 - 36CH IPCamera Recording Software]** to start the installation.

2. Select the language you would like to use.

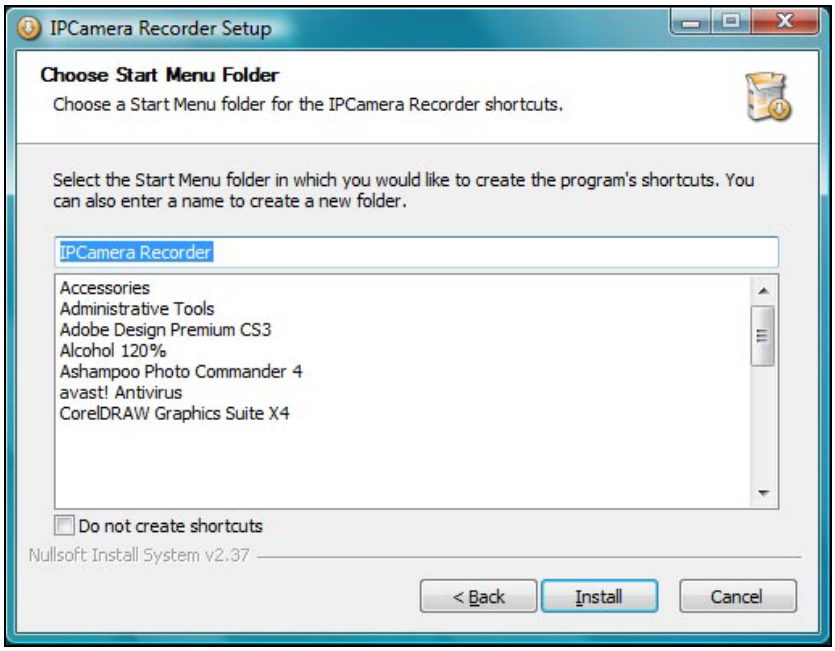
3. Click **[I Agree]** button under the License Agreement for the next step.



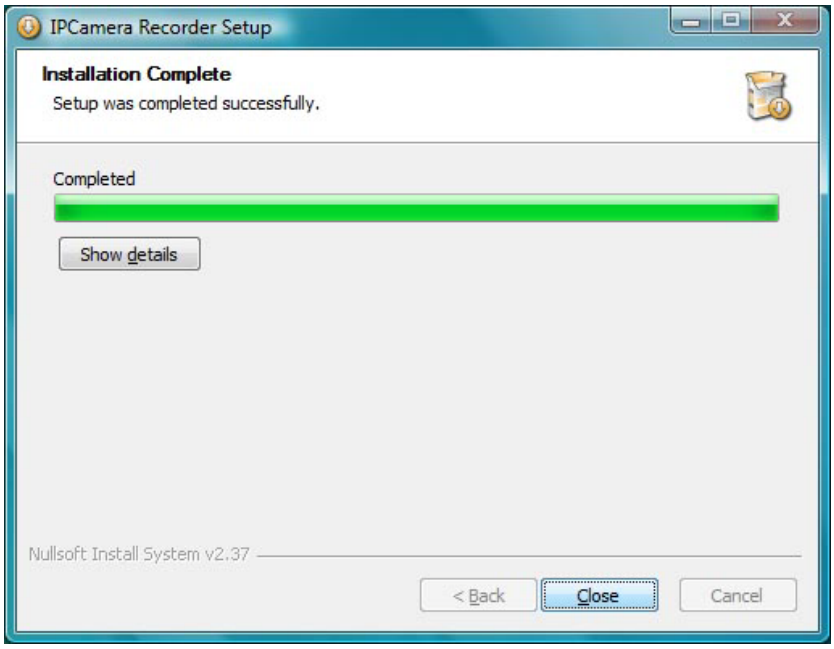
4. Select the location to install the software. The default folder is "C:\IPCamera Recorder". Click **[Next]**.



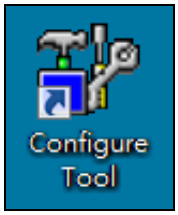
5. Change the name of the program folder in Start Menu if necessary. Click **[Install]** to start the installation.



6. When finish, click **[Close]** to close the procedure of the installation.



7. The software is installed and you will see two new added icons on the desktop:

	IPCamera Recorder : This is the main program of the recording software.
	**Configure Tool :** This utility provides multiple functions for “Search and add cameras”, “Configure the recording software”, and “Backup/restore the settings of recording software”

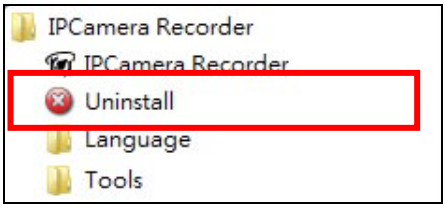
3.2. Change Language of User Interface

To change the language of the user interface, close and exit the software, and then click “Start”→ “All Programs” → “IPCamera Recorder” → “Language” → “Language – *your language*”.

After start up this software, you will see the language of user interface has been changed.

3.3. Software Un-Installation

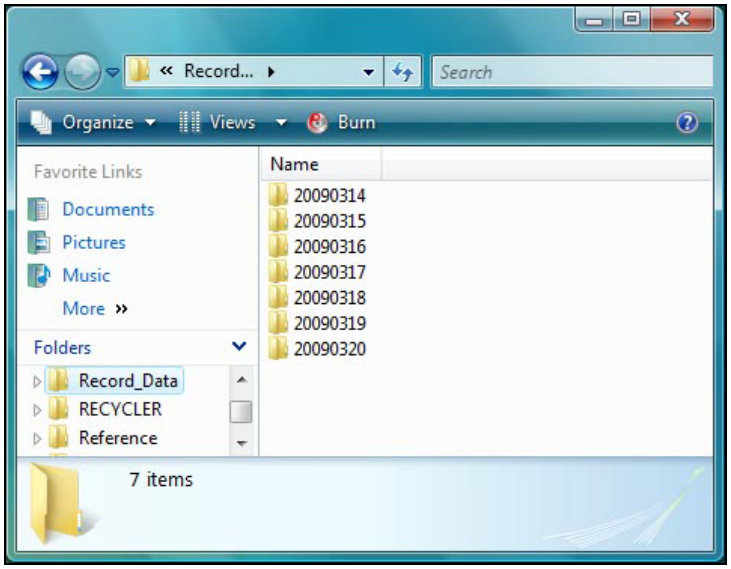
To uninstall the software, click “Start”→ “All Programs” → “IPCamera Recorder” → “Uninstall”.



During the progress, a pop-up message asks whether keep the settings.

- Click **[Yes]** will keep the settings for upgrade or re-install the software later.
- Click **[No]** will remove the software completely.

After complete, the software will be removed, but the recorded data is still reserved. After you install the upgraded software, the recorded data can be added and for store. Pleases see Configure the Recording Function → Configure Recording Storage for the detail.



4. Add Cameras and Video Servers

To start using the software, please add and configure the IP camera / IP video server previously.

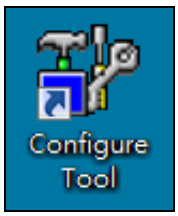
There are 2 ways to add and configure the IP camera / IP video server:

- Use Configure Tool to add and manage multiple devices.
- Add and manage the device one by one in “Channel” page.

4.1. Add Multiple Devices in “Configure Tool”

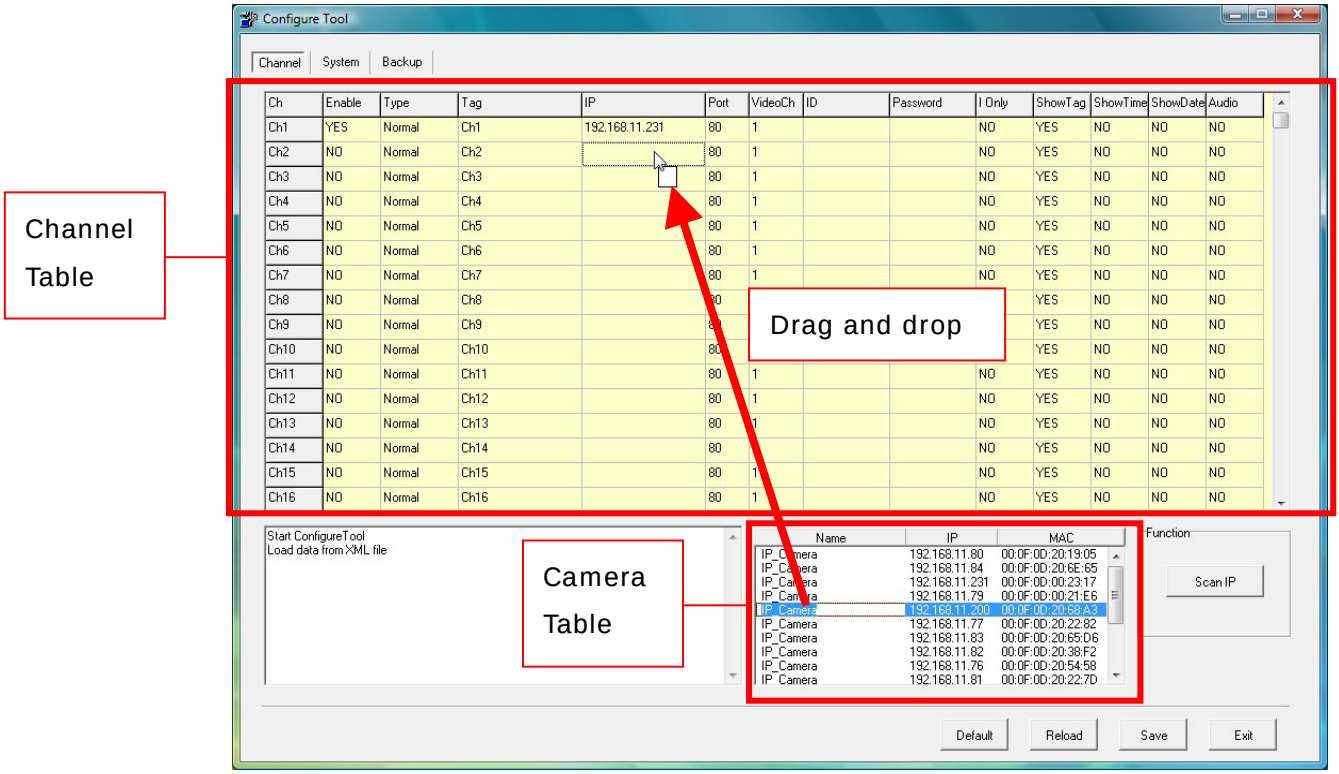
Configure Tool provides an easy way to search, add and manage the cameras or video servers. To run the Configure Tool, double-click the desktop icon - “Configure Tool”. Or, click “Start”→ “All Programs” → “IPCamera Recorder” → “Tools”→ “Configure tool”.

In Windows 7 / Vista, please right-click on the desktop icon or the short-cut in Start Menu, then select “Run as administrator” to start the program.



1. Configure Tool will automatic search IP camera & video server, the found devices will be listed in Camera Table. To re-search the device, click **[Scan IP]** button.

2. Click to select the camera in Camera Table, drag and drop it into any channel of the Channel Table. If the channel is empty, the camera will be added to that channel; if the channel has been assigned for other camera, the new camera will replace the old one.



3. Configure the following settings for the added cameras:

- **Enable:** Click the box to switch “YES” and “NO”. Select “YES” to connect this camera; select “NO” to disconnect this camera.
- **Type:** Click the box and then select the channel type.

  “Normal”: Connect the camera with normal method, can be used for the camera which has been integrated by the recording software.

  “Attached”: This channel will not connect the camera directly, instead of display the video from an exist channel. The “Attach Channel” will not cost any loading of camera. Please see Add Cameras and Video Servers ➔ Add/Manage Devices in “Channel” Page ➔ Channel Type for the detail.
- **Tag:** The tag will be displayed on the video in Live View screen to identify the channel. Double-click the box and then input the name if necessary.
- **IP and Port:** The IP address and HTTP port of the camera. After you drag and drop the camera to add it, these two parameters will be added automatically.
- **Video CH:** Click the box and then select which video stream from the camera will be displayed.

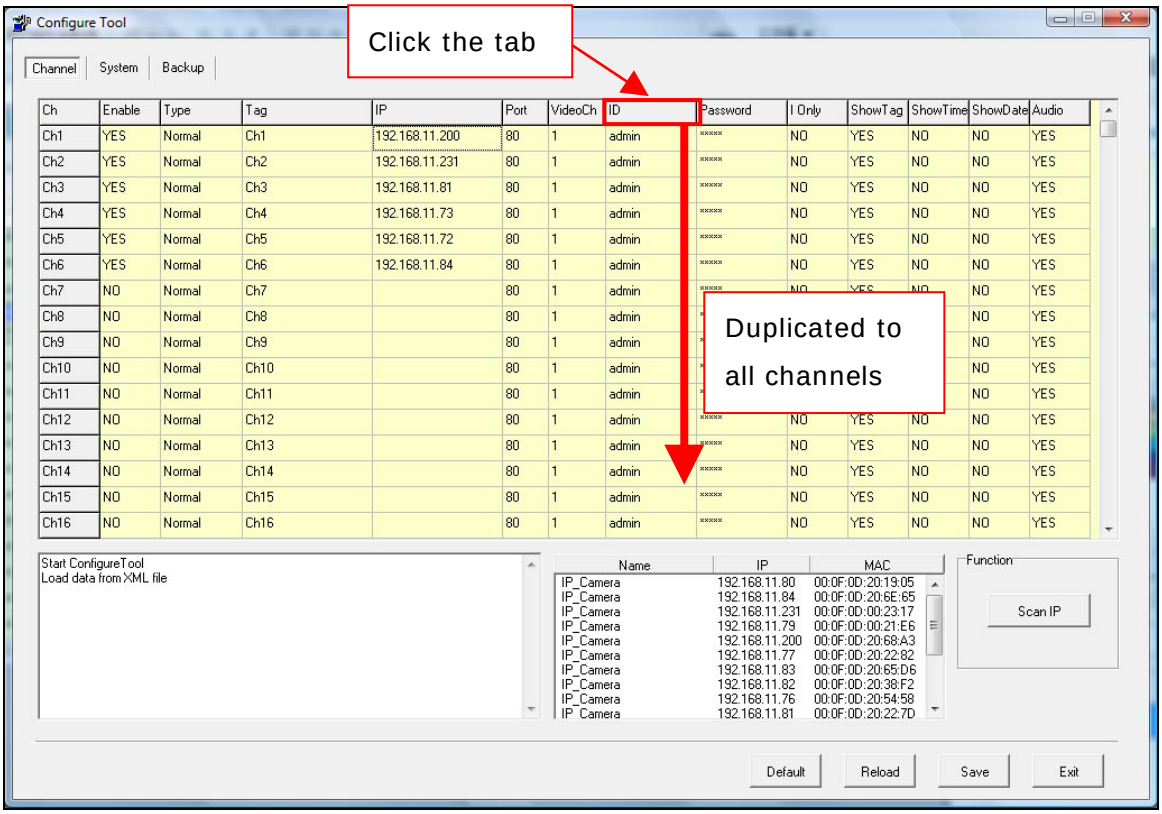
  For dual streaming camera and 1CH video server, “Video CH 1” means the video streaming 1; “Video CH 2” means the video streaming 2.

For multi-channel video server, “Video CH 1” means the video of channel 1 of video server; “Video CH 2” means the video of channel 2 of video server……

- **ID and Password:** Double-click the box and then input the administrator’s login account and password for the camera.
- **I Only:** Click the box to switch “YES” and “NO”. “YES” means display the I-Frame video only; “No” means display the video normally. Please see Add Cameras and Video Servers → Add/Manage Devices in “Channel” Page → I-Only for the detail.
- **Show Tag / Show Time / Show Date:** Click the box to switch “YES” and “NO”, to select what information will be displayed on the video.
- **Audio:** Click the box to switch “YES” and “NO” to enable or disable the audio from this channel for live view and recording.

Tips:

If you want to add multiple cameras and they have same configuration, after drag and drop all cameras into Channel Table, configure the channel 1, click the tab on the top of each column, the setting of channel 1 will be duplicated to all channels.



4. After finish the configuration, click **[Save]** button to complete the configuration.

5. Click **[Exit]** to close the Configure Tool.

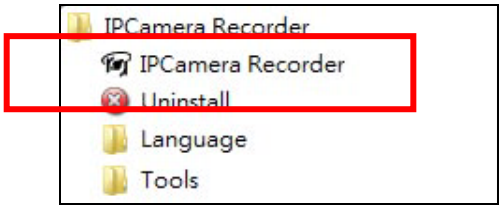
6. Now you can run the IPCamera Recorder software and configure the detail settings.

4.2. Add / Manage Devices in “Channel” Page

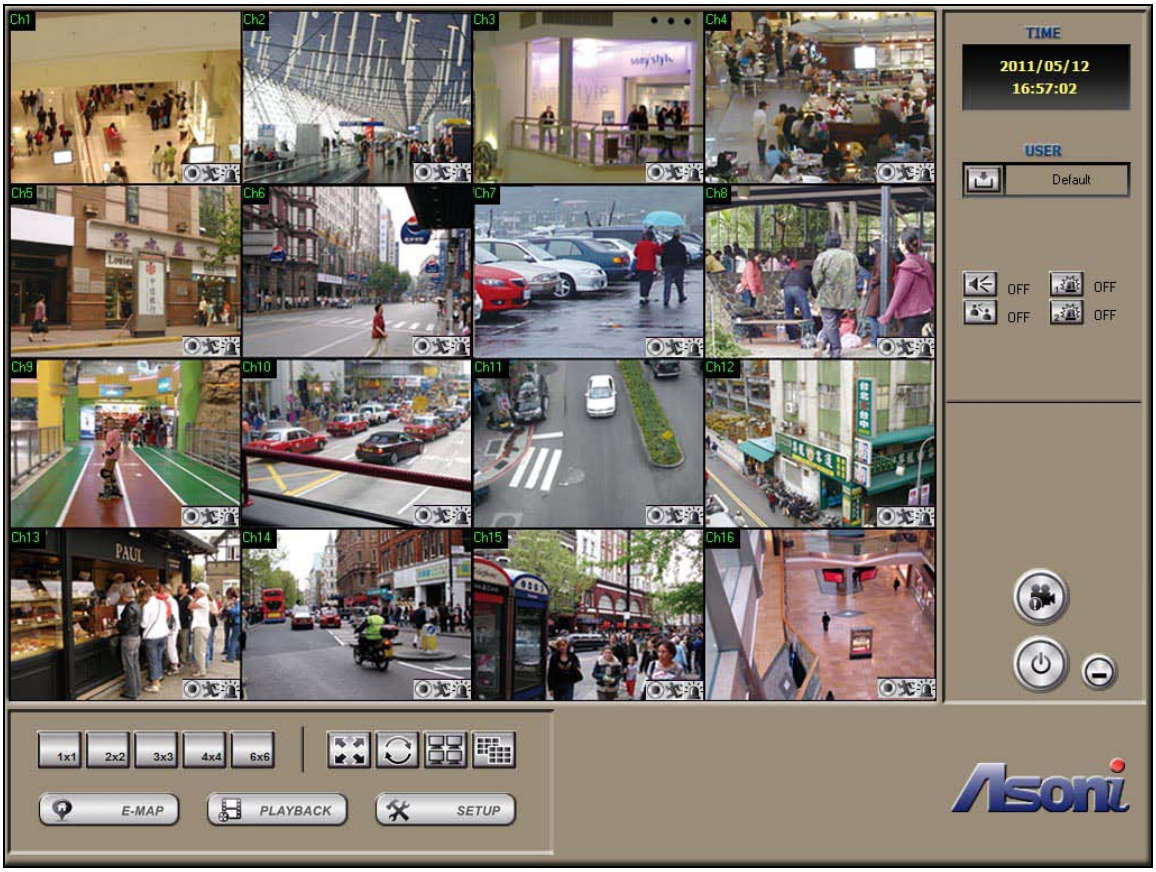
The “Channel” page is in the IPCamera Recorder main program, to run the IPCamera Recorder, double-click the desktop icon - “IPCamera Recorder”. Or, click “Start”→ “All Programs” → “IPCamera Recorder” → “IPCamera Recorder”.

You can add, manage channel one by one in “Channel” page, it also provides more detailed configuration for each channel.

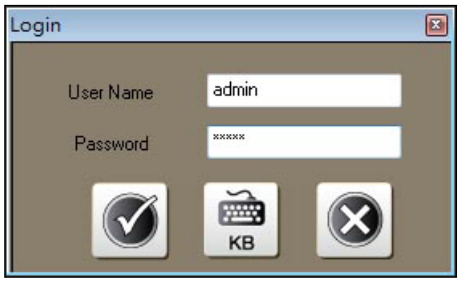
In Windows 7 / Vista, right-click on the desktop icon or the short-cut in Start Menu, then select “Run as administrator” to start the program.



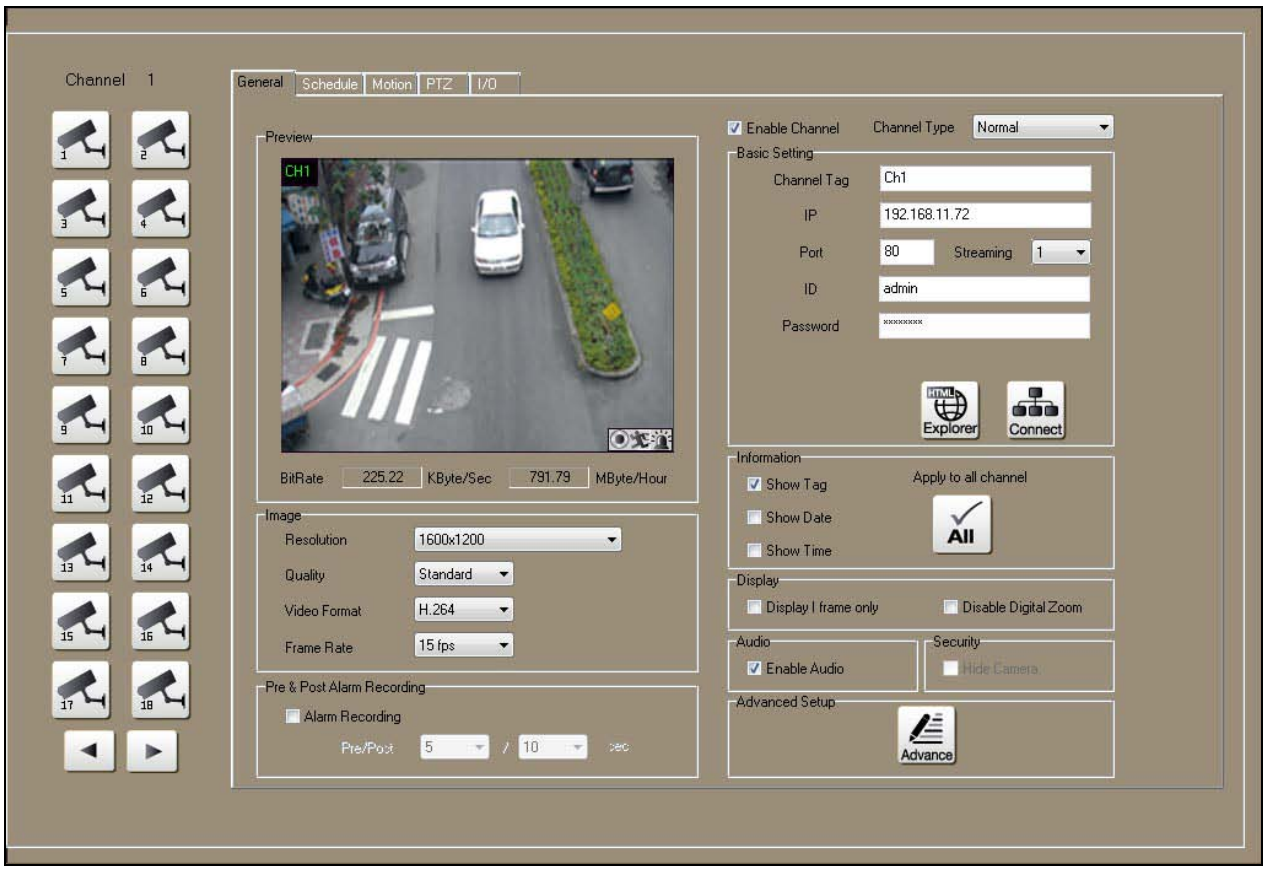
1. The Live-View screen of is displayed as shown on below:



2. Click SETUP **[Setup]** to enter the Setup screen. A Login window appears, input user name and password and then click **[OK]** to confirm. The default user name and password are "**admin**" and "**admin**".



3. Click **[Channel]** on the top to enter the "Channel" page.



4. Click the button on the left side to select channel. You can click ◄ ► to display the previous or next 18 channels for select.

5. Click Enable Channel first to enable and configure this channel.

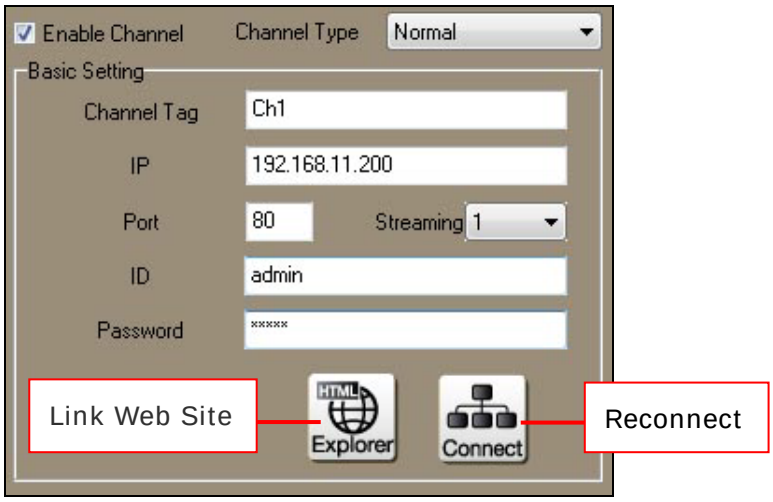
6. Please select the channel type.

- **Normal:** This channel is a normal channel and connects to the camera.
- **Attached:** This channel will not connect the camera directly, instead of display the video from an exist channel. If user selects one channel (ex. CH2) as attached channel type, then user is capable to attach one different channel (ex CH1) to CH2. It will result CH2 as the same as CH1. Also, CH2 is not physically linked to any camera; therefore, CH2 will not cost any loading of camera.

  Please refer to How to Setup "Attached Channel" section for the instruction.

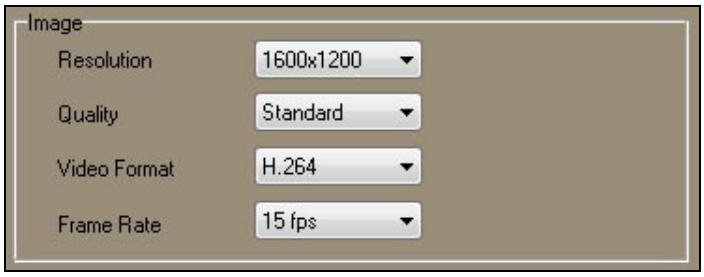
7. With "Normal" channel type, input the following fields in "Basic Setting":

- **Channel Tag:** The tag will be displayed on the video in Live View screen to identify the channel. Input the name if necessary.
- **IP and Port:** The IP address and HTTP port of the camera.
- **Streaming:** Select which video stream from the camera will be displayed.
- **ID and Password:** Input the administrator's login account and password for the camera.

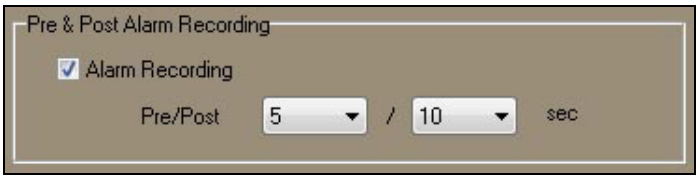


8. After input the above, click **[Reconnect]** to connect the camera. (Click **[Link Web Site]** will open the web page of camera via IE browser)

9. In "Image" setting as shown below, you can change video Resolution, Quality, Video Format, and Frame Rate.



10. In “Pre & Post Alarm Recording” setting as shown below, you can change the recording time interval. If the camera has been configured as Event Recording in recording schedule, once an event (Motion Detection or Digital Input) is triggered, the recording will begin at the Pre-time before the trigger, and stop at the Post-time after the trigger.



11. In “Information” setting as shown below, configure whether display Tag / Date / Time on the live video. Click **[Apply to all channel]** button will apply the settings to all channels.

12. In “Display” setting as shown below, you can select display mode.

- **Display I-Frame Only:** If the box is checked, only I-Frame will be transferred and displayed in live view. Usually, I-Frame means the first picture when the image is changed. If the box is un-checked, the video is displayed normally.
- **Disable Digital Zoom:** If the box is checked, the video will be displayed with its original size, and it can’t be resized by the Digital Zoom function. If the box is un-checked, the video will be enlarged to fit the live view window, and it can be resized by the Digital Zoom function.

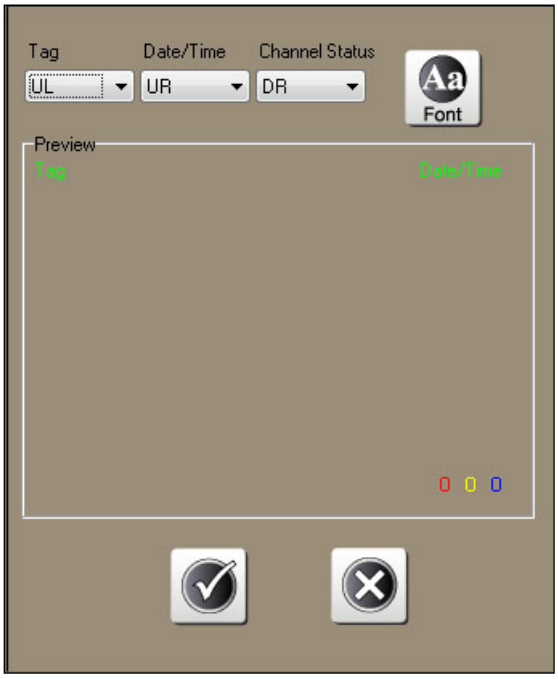
13. In “Audio” setting as shown below, check “Enable Audio” to enable the audio for both live view and recording.

14. In “Advanced Setup”, click

[Advanced] button to configure the location of Tag, Date / Time and Status Indicator. Click

[Font] within advanced setting can setup such as the size, format and color of tag, Date/Time and status.

The advanced setting will apply to all channels.



15. Click

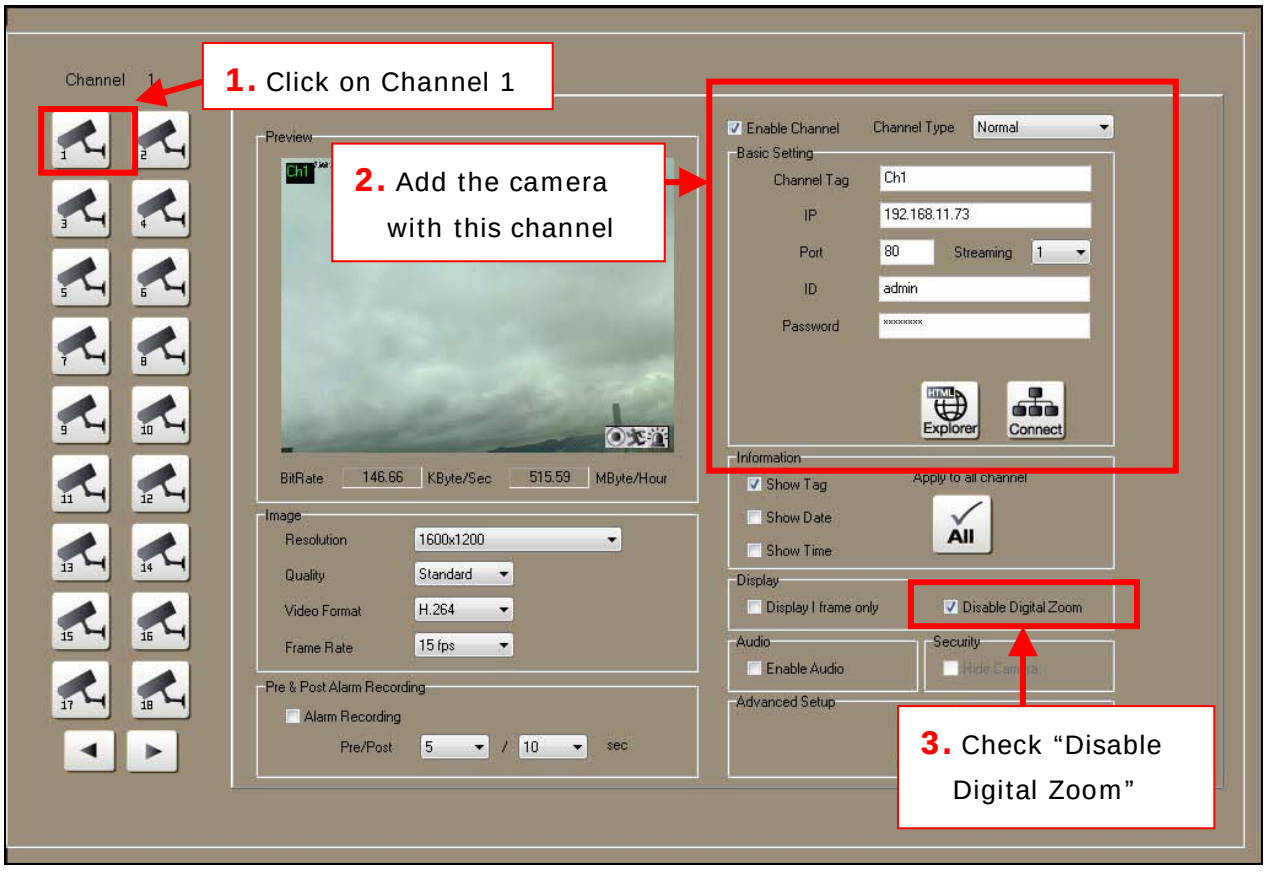
[Save] button to save the settings, the configuration will be updated immediately.

How to Setup “Attached Channel”

Usually, the image will be shrink to let you view the whole image in a split window. If you wish to view the original size of image, the “Attached Channel” function allows you to view the different part of image in various channels.

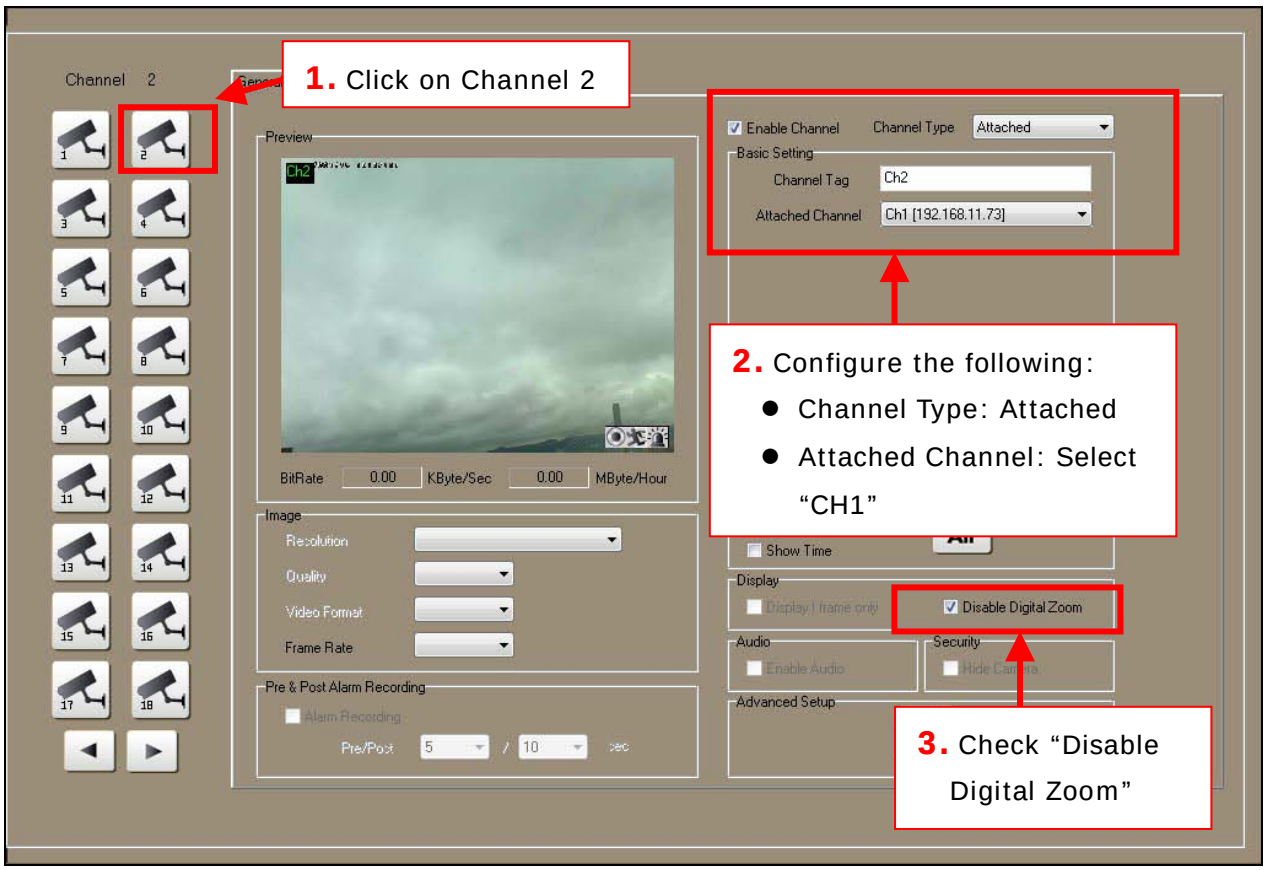
The following steps instruct how to configure 4 channels to display four parts of a camera image. CH1 connects to the camera physically and display the upper-left part of image; CH2 is attached to CH1 and display the upper-right part of image; CH3 is attached to CH1 too and display the bottom-left part of image; CH4 is attached to CH1 too and display the bottom-right part of image.

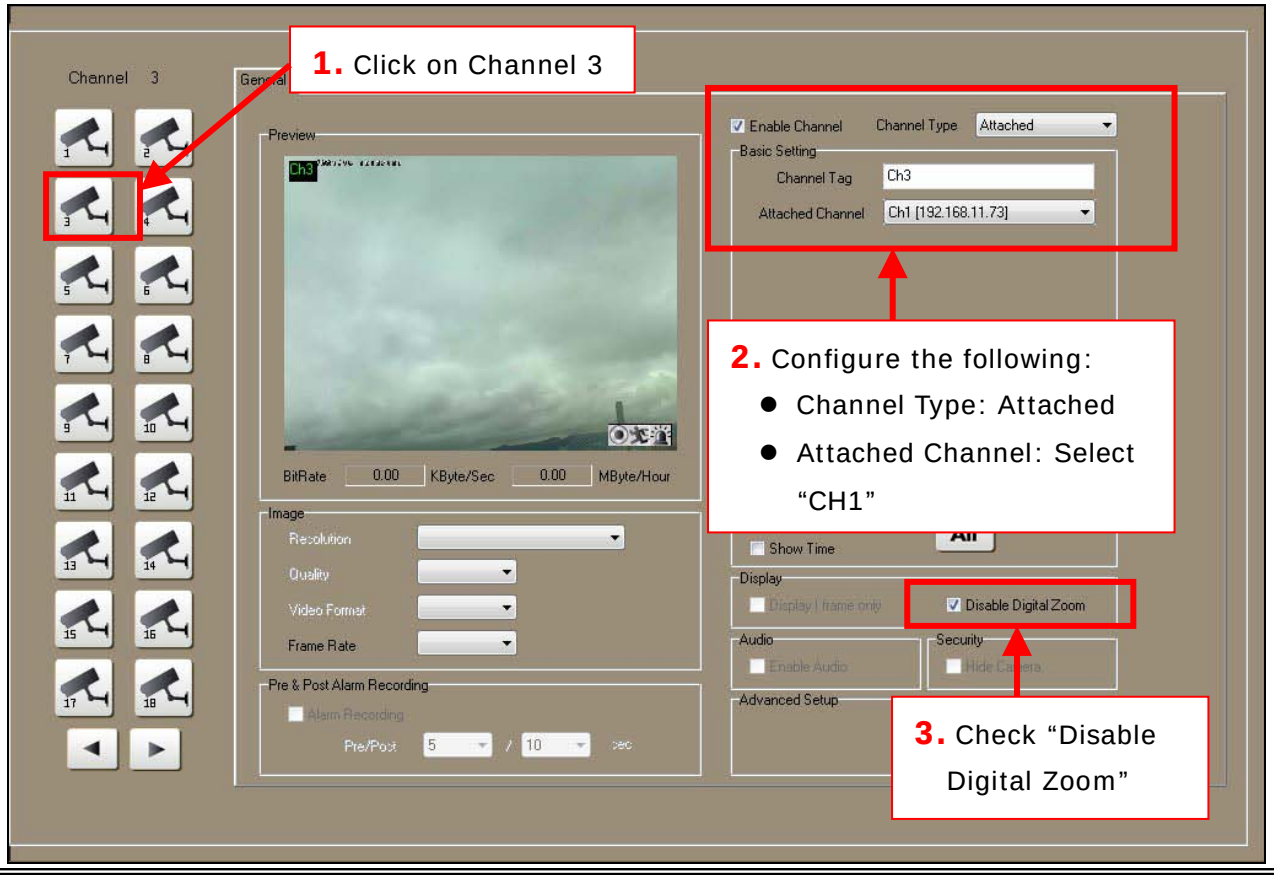
1. Refer to the previous section to add the camera to CH1. The “Channel Type” must be set as “Normal”, and check the “Disable Digital Zoom” option to disable the Digital Zoom function.

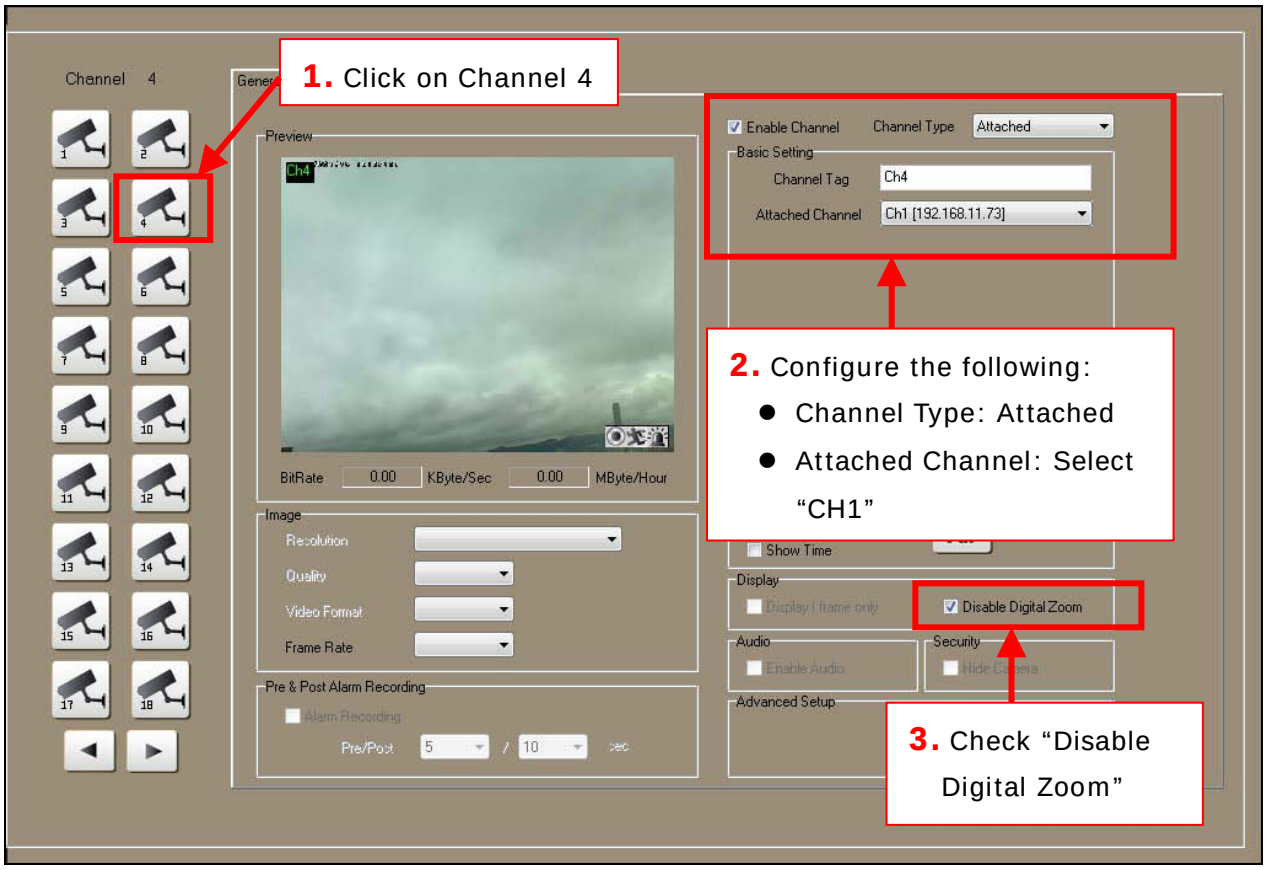


Disable Digital Zoom function will let the software displays the original size of image of this channel in Live-View screen. This function only affects the Live-View screen, it won’t change the actual image size for record.

2. Refer the below figures to configure the other channels (CH2, CH3 and CH4) as “Attached Channel”.

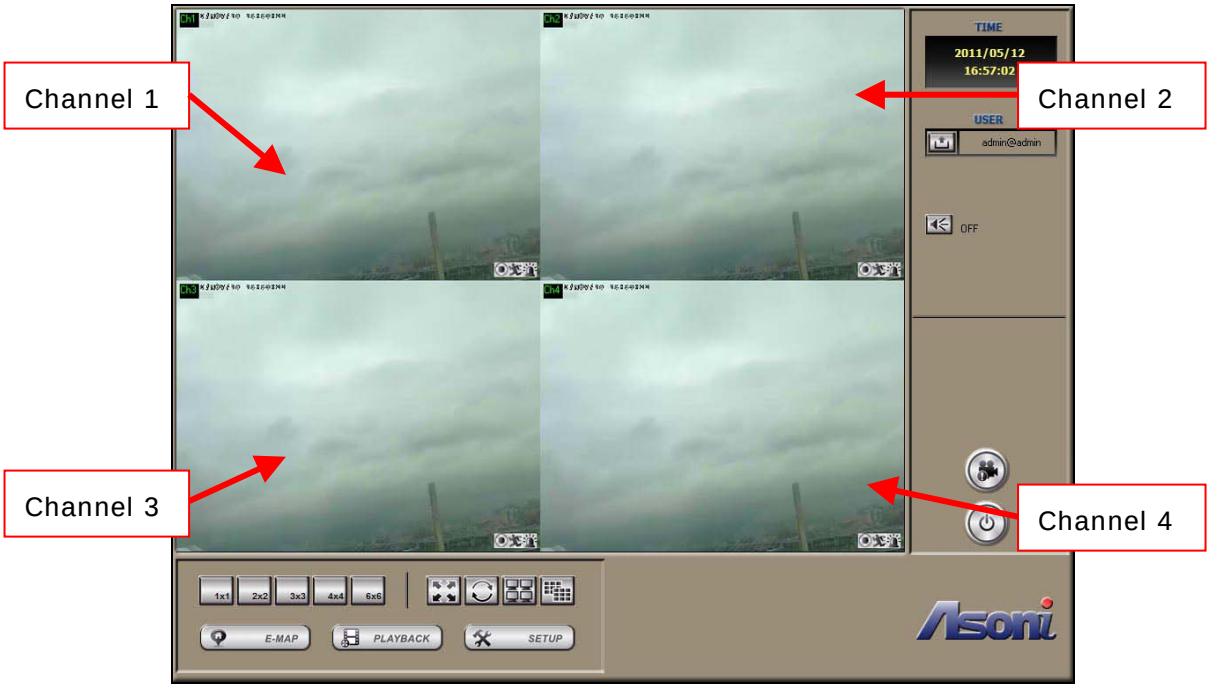






3. Click **[Save]** button to save the above settings.

4. In Live-View screen, these 4 channels will be displayed with same image.



5. To make these channels display the different part of image, double-click on the image of channel to enlarge it, and then drag the red frame on the bottom-left corner to define the view area.

6. After the above configuration, these 4 channels will be displayed as the following:

5. Configure the Recording Function

To use the recording function, please configure the following:

- Configure the storage for store the data.
- Configure the recording schedule and recording method for each channel.

5.1. Configure Recording Storage

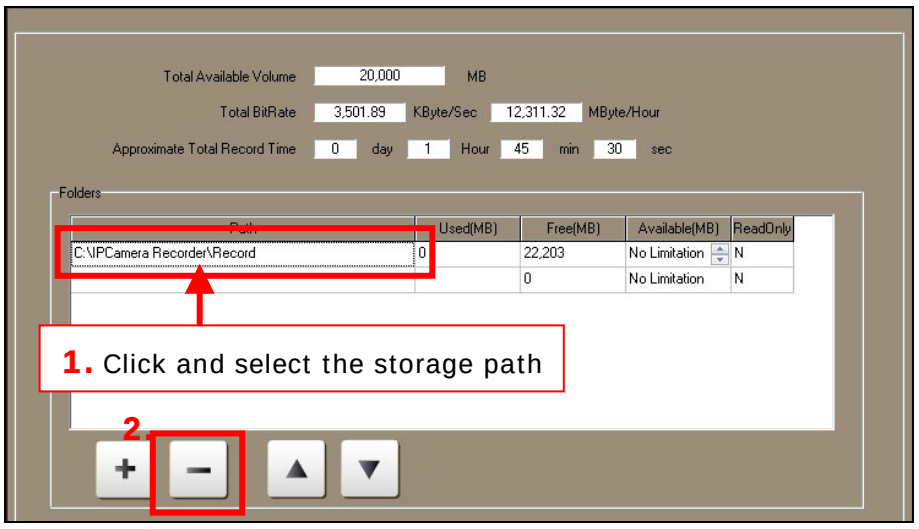
This software allows store the recorded data onto multiple storages by sequence, if the current storage is full, the recorded data will be stored to the next storage.

Click the **[Disk]** on the top to enter the “Disk Setup” page.

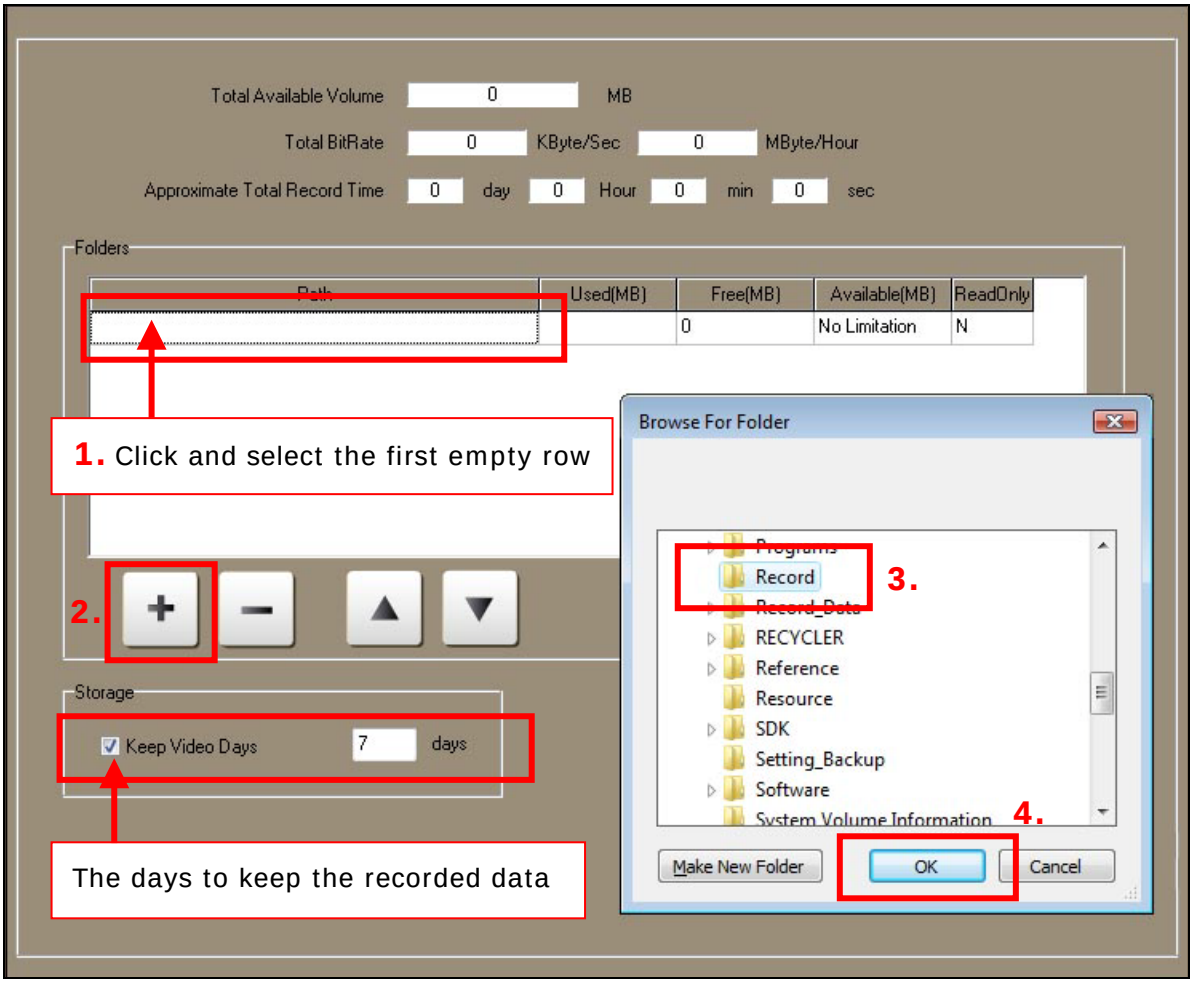
The “Disk Setup” page provides the following configurations:

- Add storages to the Path list for store the recorded data.
- Adjust the capacity of storage for store the recorded data.
- Adjust the sequence of storages for store the recorded data.
- Remove storage from the Path list and stop recording data on it.

1. At the first time running, a default storage is already added in the Path list. Click and select it from the Path list, and then click [−] to remove it.



2. To add the storage path, click and select the first empty row from the Path list, and then click [+], select the folder from the pop-up window and then click **[OK]**, the folder will be added to the Path list.



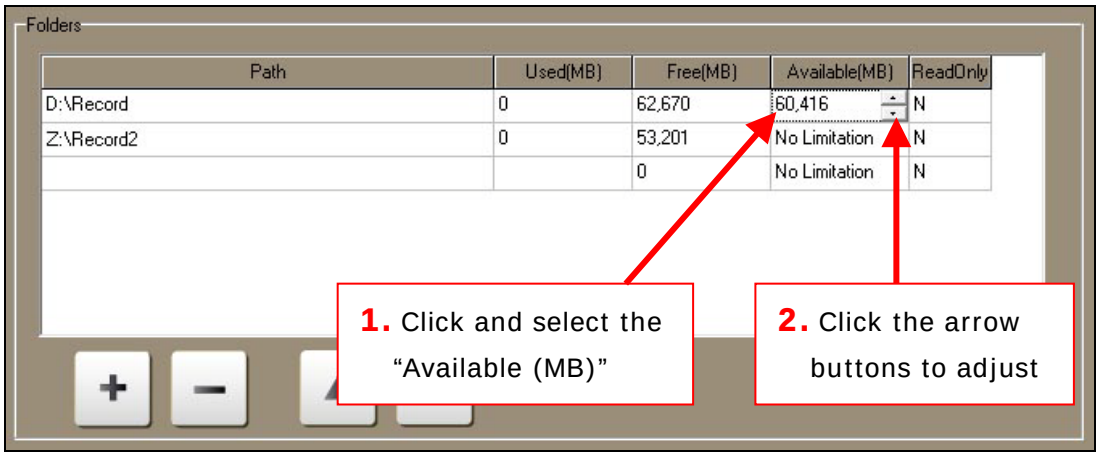
3. To add more storage, just repeat the above steps.

4. The “Keep Video Days” option is to determine the recorded data should be reserved for how many days. If you enable this option, when the recorded data is expired, the software will delete the earlier recorded data. This will save more space of storage.

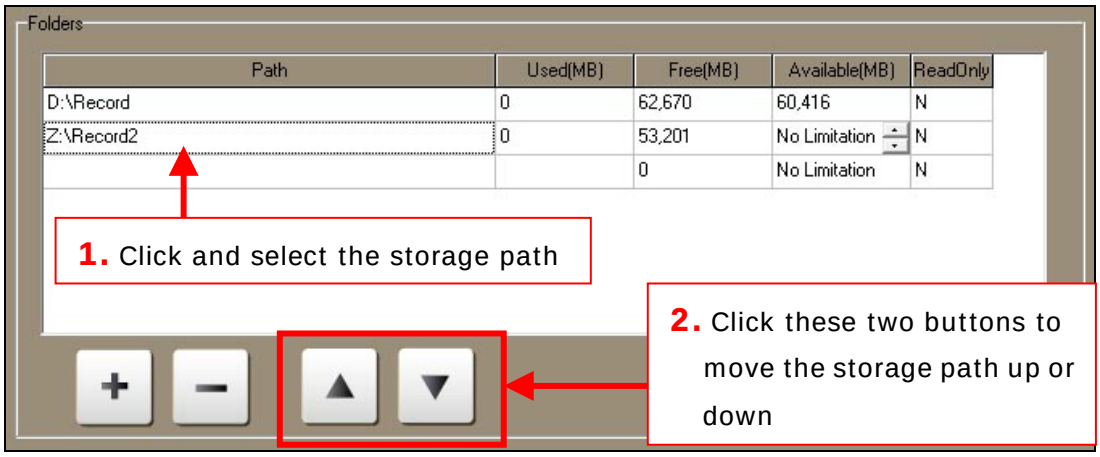
5. After adding the storages, adjust the capacity of storage for store the recorded data. The unit of adjustment is 1024MB (1GB).

- **Used (MB):** The space of the recorded data.
- **Free (MB):** The total free space of the storage.

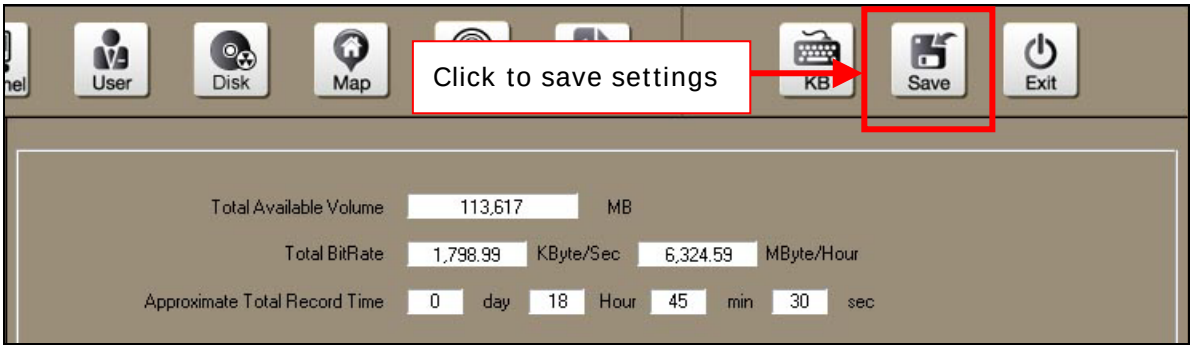
- **Available (MB):** The available space that assigned for recording.
- **Read Only:** Set the attribute of the recorded data as read-only or not.



6. You can also adjust the sequence of storages for store the recorded data.



7. Click Save **[Save]** button to save the settings, the following information will be updated.



- **Total Available Volume:** The total assigned space for recording.

- **Total BitRate:** The total bitrate of all connected cameras or video server.
- **Approximate Total Record Time:** The software will estimate the available record time according to the total assigned space of storage and the bitrate of all connected cameras (including the cameras are not recording).

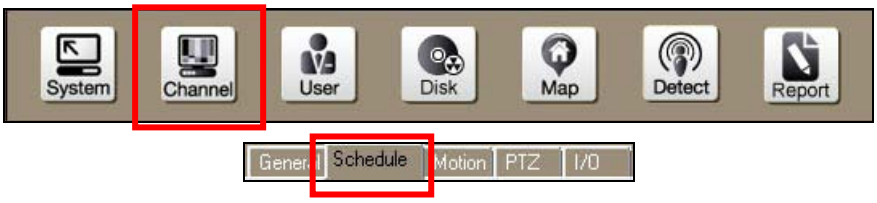
5.2. Configure Recording Schedule

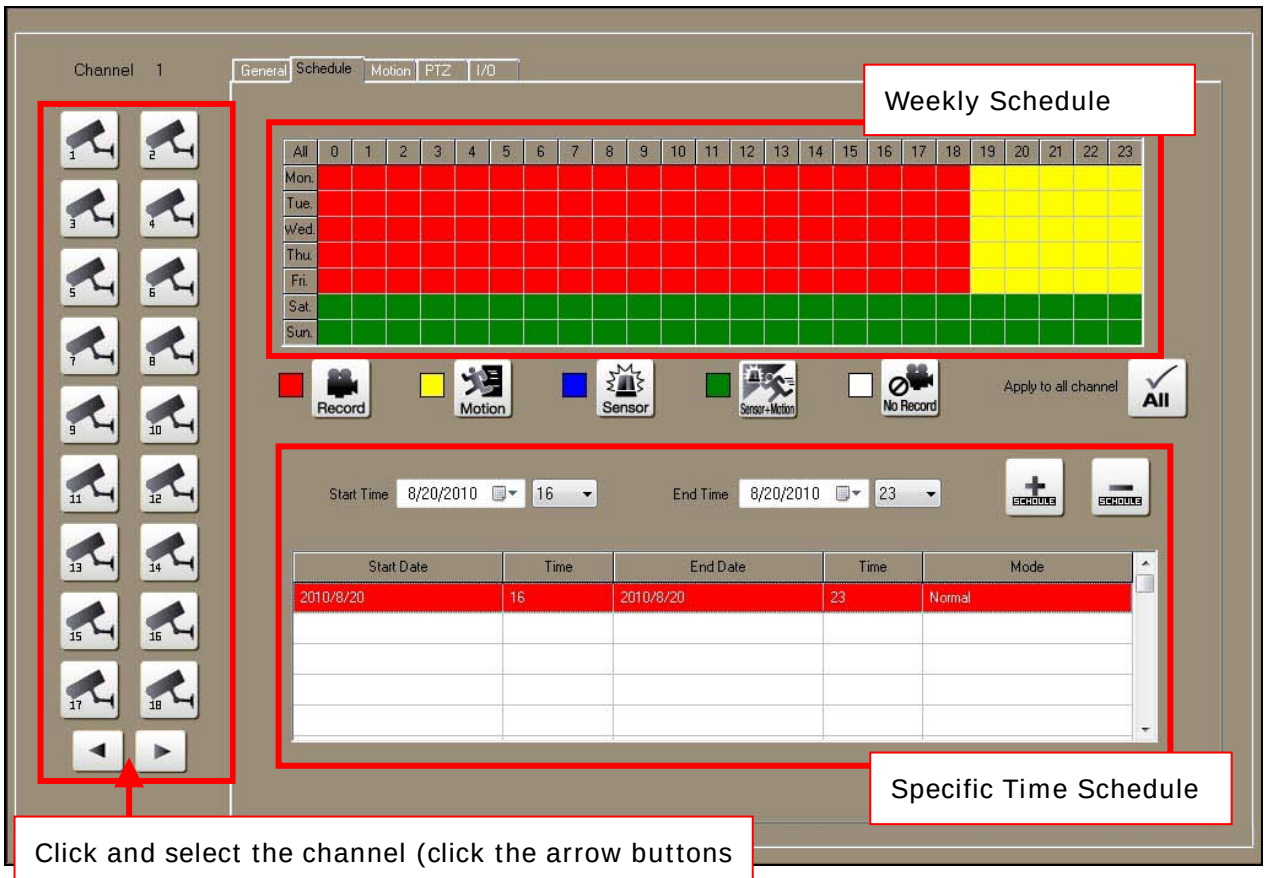
This software provides 2 kinds of recording schedule:

- **Weekly Schedule:** The schedule will be done and repeated weekly.
- **Specific Time Schedule:** You can set a special schedule for specific date/time.

If the configured time of these two kinds of schedule is conflict, the priority of “Specific Time Schedule” is higher than “Weekly Schedule”.

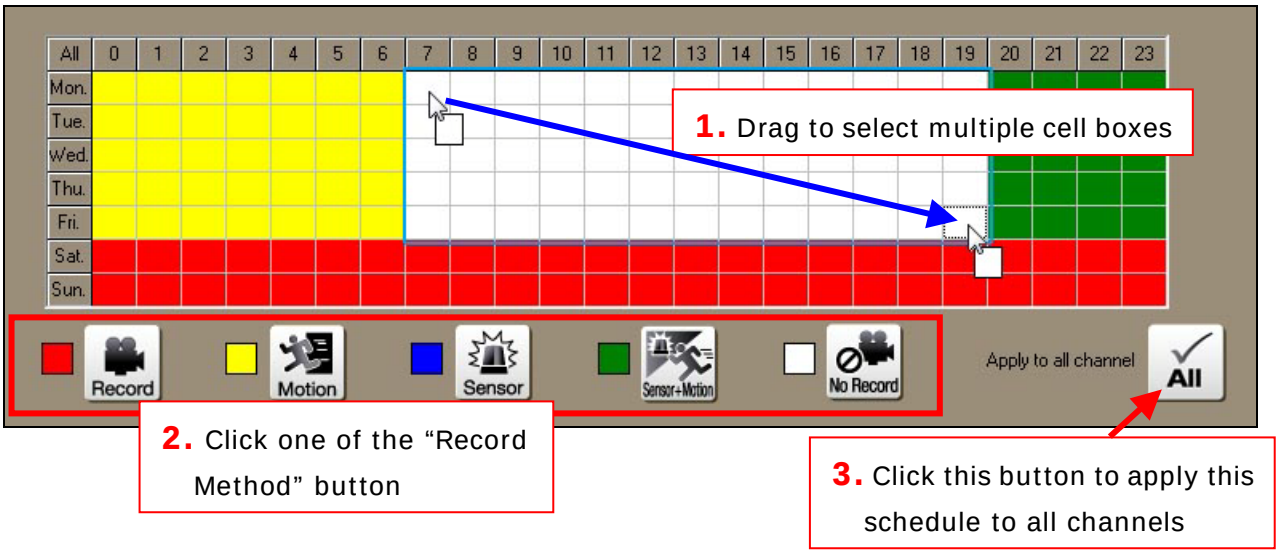
Click **[Channel]** on the top, and then click **[Schedule]** tab to enter the “Schedule” sub-page.





1. You can configure different schedule for each channel. Click **[Channel Number]** button and select the channel for configure.

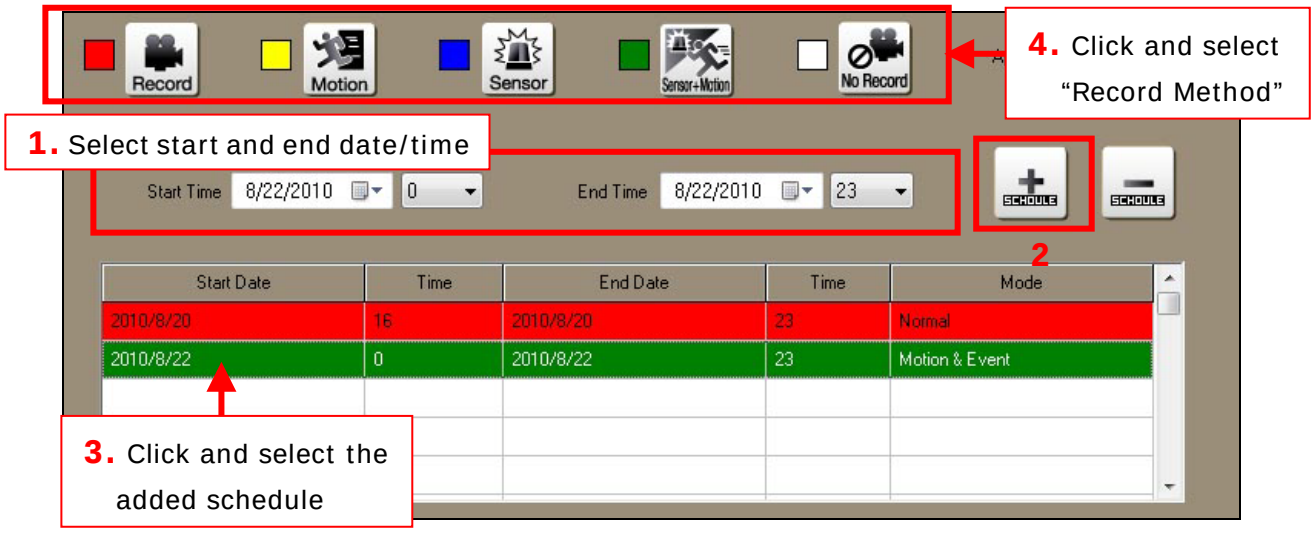
2. To configure the Weekly Schedule, use mouse to drag the multiple cell boxes (time), the selected cell boxes is flashing, then, click “Record Method” button to set it. Click **All** button on the upper-left of Weekday table can select all cell boxes.



Weekday & Hour Table	
All	**ALL :** Click this button to select all weekday and hours.
Mon. ~ Sun.	**Weekday :** The weekday from Monday to Sunday. Each row means one weekday. Click the button to select all hours of this weekday.
0 ~ 23	**Hours :** The hours from 0:00AM to 23:59PM. Each column means one hour (i.e. 1:00AM ~ 1:59AM). Click the button to select this hour of all weekdays.
Record Method	
To record the audio, please enable the “Enable Audio” option in “General” sub-page.	
Record	**Normal Record :** Always recording the video and audio.
Motion	**Motion Record :** Recording the video and audio when the following detection is triggered:

	● Hardware Motion Detection (detected by camera itself): Except configure the schedule, you need also configure the motion function in Motion sub-page, please refer to Configure the Event Function → Configure Hardware Motion Detection
	Sensor Record : Recording the video and audio when the following detection is triggered: ● Digital Input of camera (the sensor connected to camera): Except configure the schedule, you need also configure the I/O function in I/O sub-page, please see Configure the Event Function → Configure Digital I/O .
	Sensor / Motion Record : Enable both "Motion Record" and "Sensor Record". When one of "Hardware Motion Detection" or "Digital Input of camera" is triggered, recording the video and audio
	No Record : Stop recording on the selected time.
	Apply to All Channel : If you want all channels use same schedule, click this button to apply this schedule to all channels
	To do the pre and post-alarm recording when an event is triggered, please enable the "Pre & Post Alarm Recording" option in "General" sub-page, and setup the period.

3. To add a specific period for recording, click the arrow buttons on "Start Time" and "End Time" to select the date/time, and then click **[Add Schedule]** button to add it. Click and select the schedule in the list and then click "Record Method" button to set it.



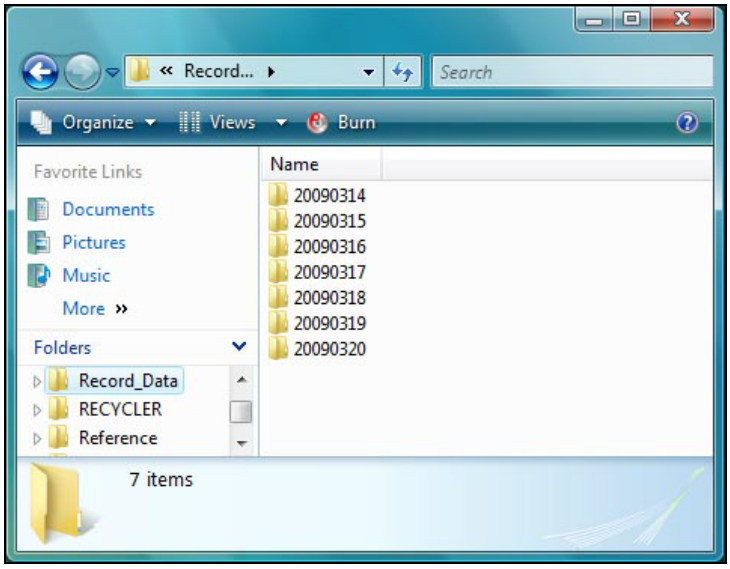
4. After complete the configuration, click Save **[Save]** to save the settings.

5. Now the recording is starting, click Exit **[Exit]** go back to Live-View screen.

5.3. Backup and Restore Recorded Files

Backup the Recorded Files

In the recording storage of recording software, each day has a folder for recording the video, the folder name is “YearMonthDay” (i.e. the folder name of 14th, March, 2009 is “20090314”), backup this “Date folder” is equal to backup the video of this day.



You can manually copy the folders contains recorded files to a safety place for backup.

If the recording software is running, because the software is always recording data into the concurrent day, please DO NOT copy the folder of concurrent day, otherwise, the software will not work properly.

Restore the Recorded Files

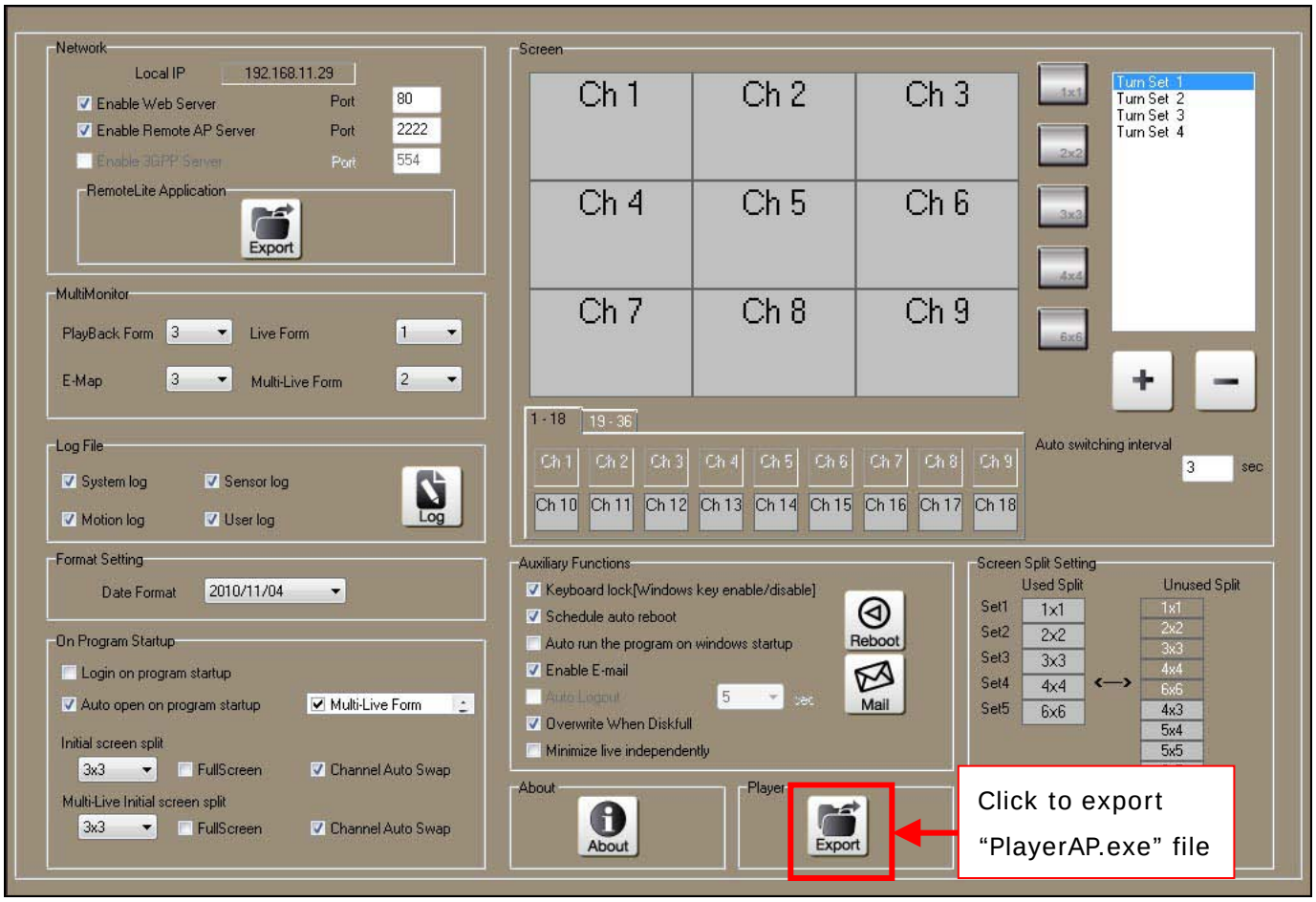
To restore the recorded files, close and exit the recording software first, and then copy the backup folders into the recording storage of the software.

If you want to add the backup folders into the software, create a new folder (assume the folder name is “Record”) and copy the backup “Date folder” into the “Record” folder just created, and then add the “Record” folder as a storage path for the software, pleases see Configure the Recording Function → Configure Recording Storage for the detail.

Play Back the Recorded Files without Recording Software

If you want to play back the backup recorded files in another PC without recording software installed, the “PlayerAP.exe” software can do this.

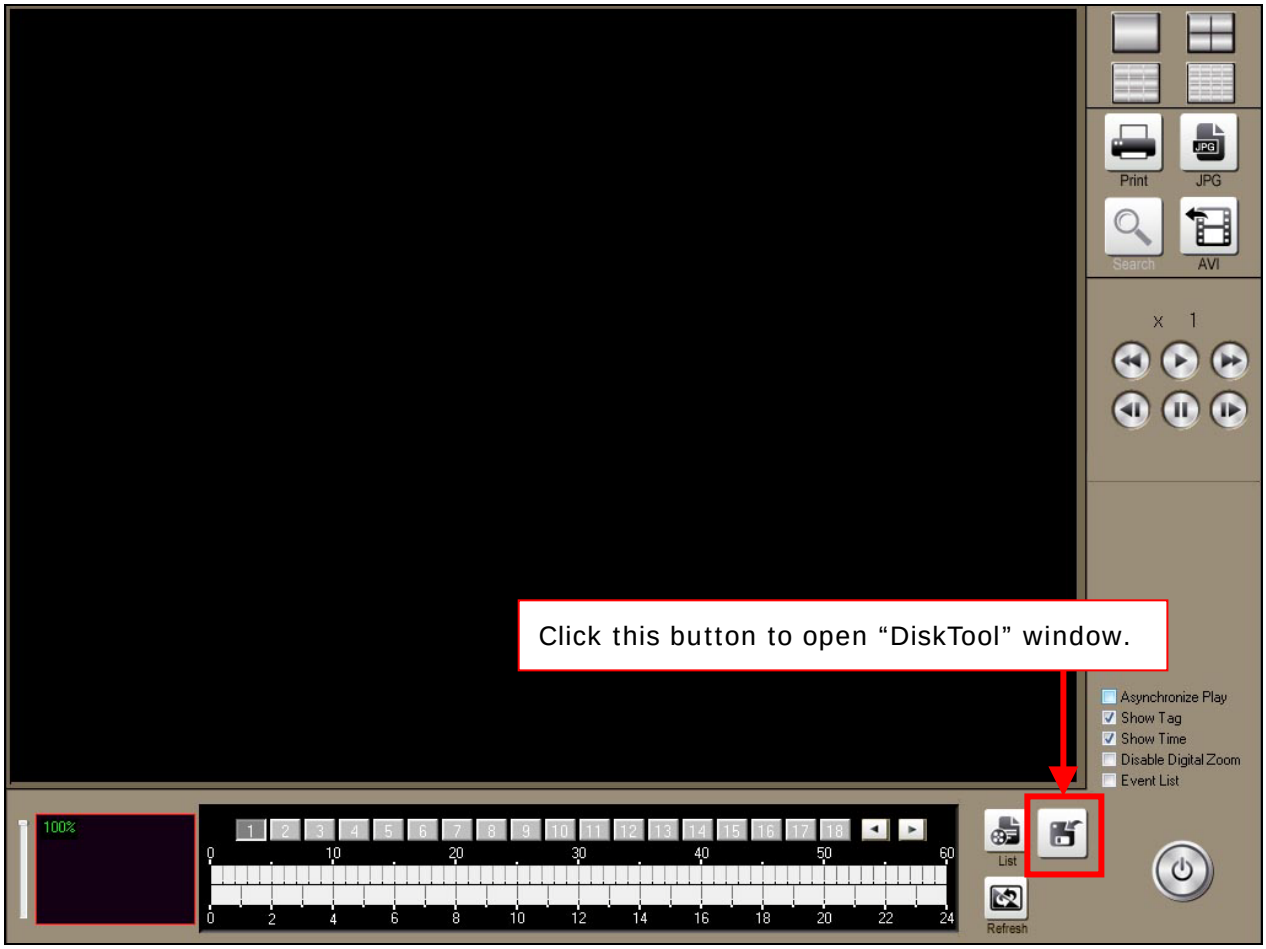
1. First, get the “PlayerAP.exe” from the installed recording software. Click **[System]** on the top to enter the “System Setup” page. Click **[Export]** and save the “PlayerAP.exe” file.



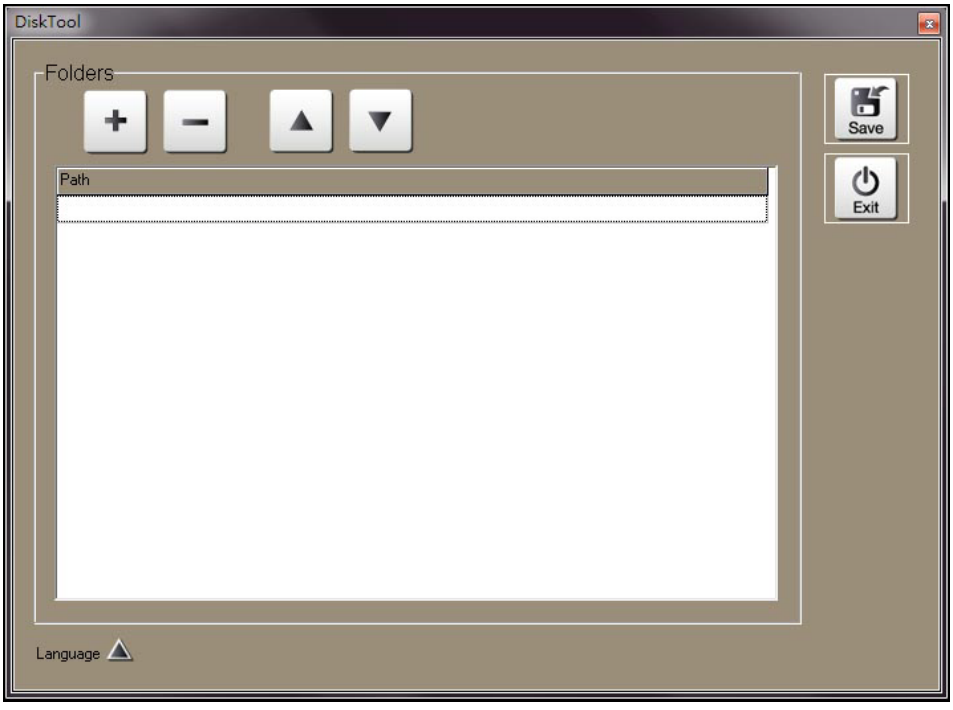
2. In another PC, make sure the backup recorded files can be accessed by this PC.

3. Copy the “PlayerAP.exe” to this PC and run it.

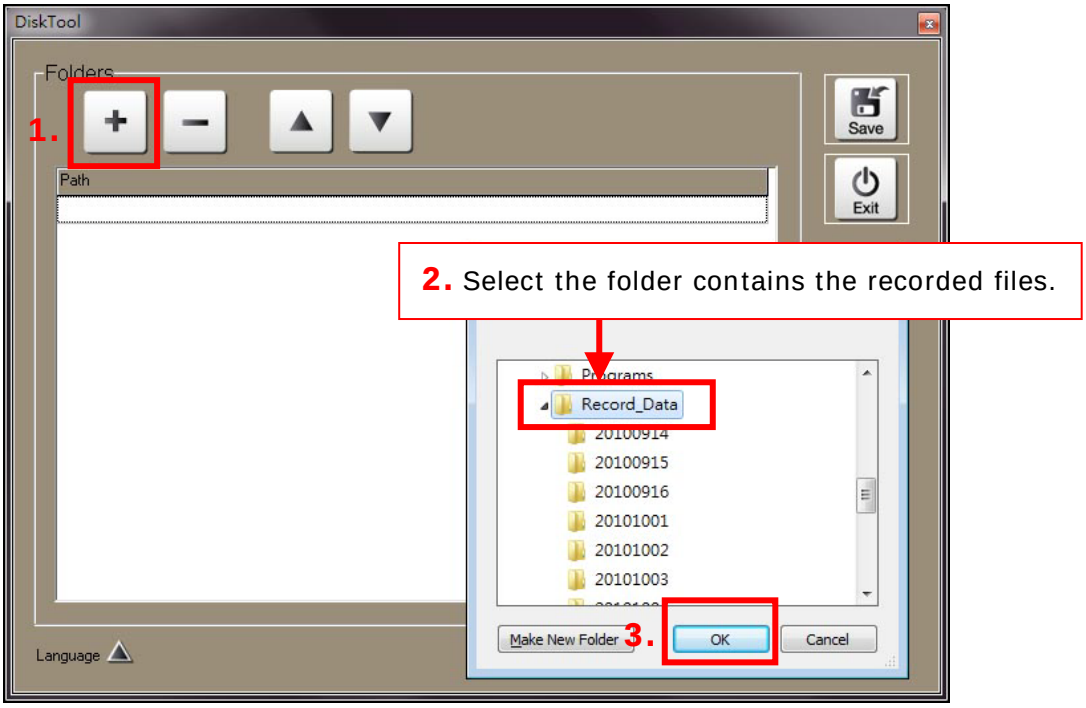
4. Select the language. Then, the PlayerAP appears as below.



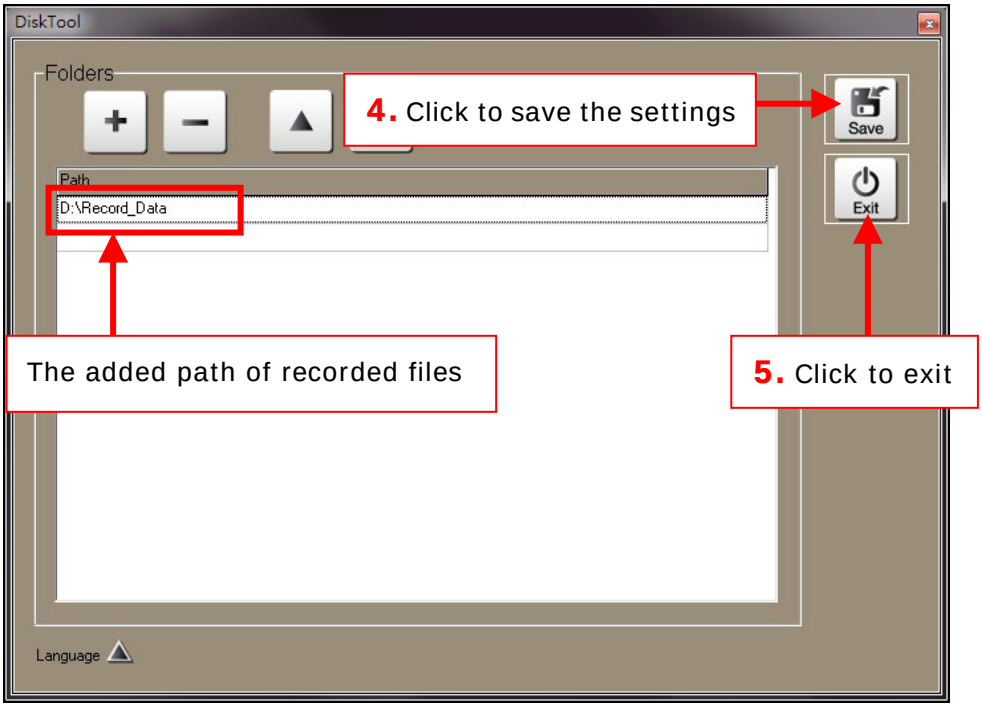
5. Click the button that indicated on above figure to open “DiskTool”.



6. Refer to the below figure to add the recorded files.



Do not select the “Date folder” directly, you should select the upper layer of folder (the “Record_Data” folder that indicated on above figure).

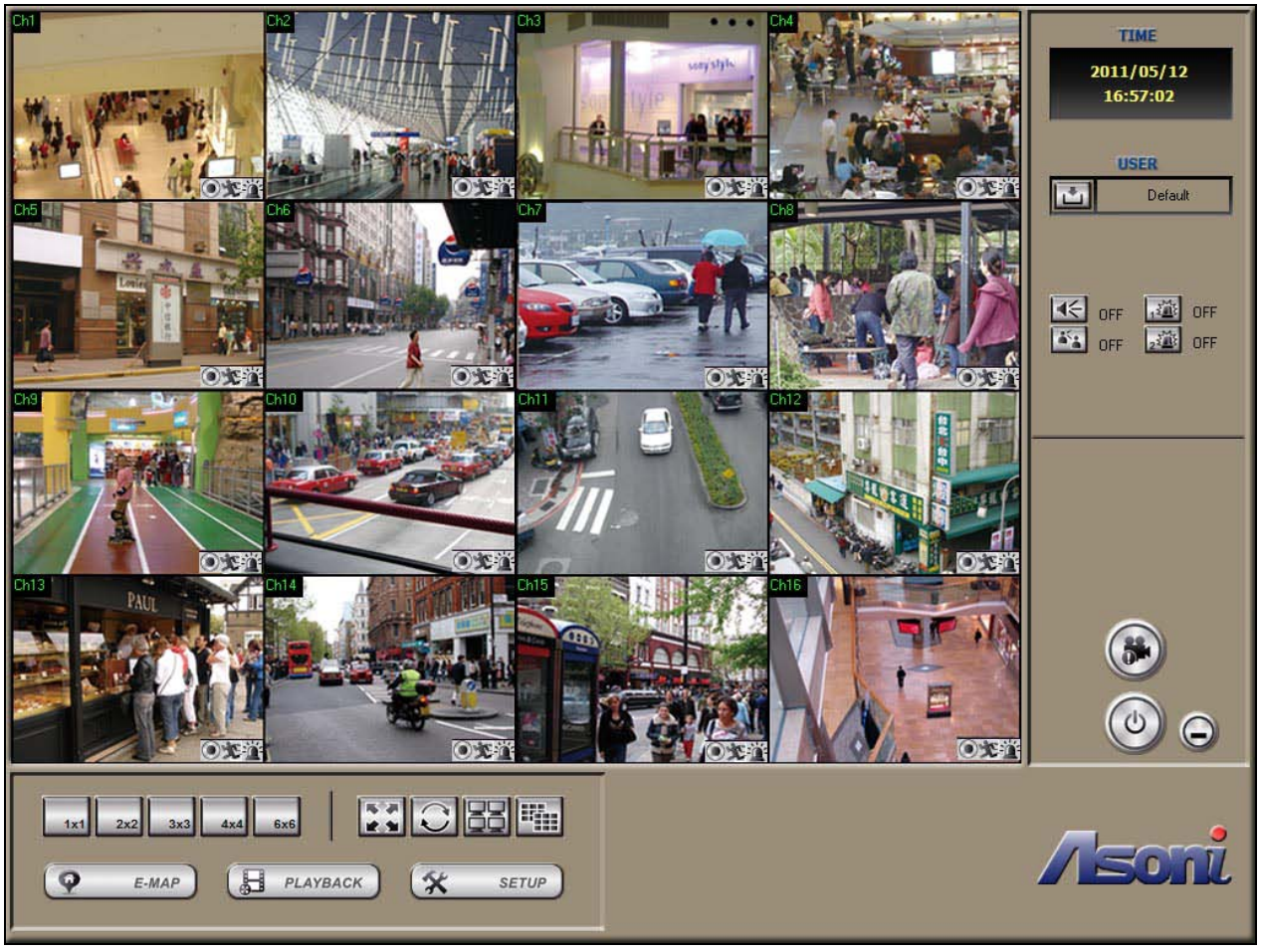


7. Now you can select and view the recorded files. The operation is same as Playback screen in IPCamera Recorder, please see Video Playback page for the detail.

6. Live View

From Live-View screen, you can:

- View the live video and hear the live audio of channels.
- Monitor the status of channels.
- Chatting with one channel.
- Broadcasting to all channels.
- Turn on/off the Digital Output.
- Operate the PTZ device.



This software provides various layouts for viewing the channels:

You can define the view layout for each split window, please see Configure Screen Layout for the detail.

	NxN-Window View : Shows a NxN video channels at once. If this view layout can't show all channels, the channels will be split into multiple pages. Click this button again will show the next page. The screen layout can be configured in Configure Screen Layout.
Double Click	**Enlarge Channel :** Double-click the channel can enlarge it. Double-click it again to resume the split-view.
	Full Screen : Full screen mode. To exit the full screen mode, right-click the mouse or press the **Esc** key on keyboard.
	Minimize : Minimize the software. To resume the software screen, double-click icon on the taskbar.
	Channel Auto Swap : Automatically show the next pages of channels. The interval time can be configured in Configure Screen Layout
	Turn On/Off Multiple Monitors : If the computer equips multiple monitors, click this button to turn on/off the multiple monitors function. The screen arrangement for multiple monitors can be configured in Other Configuration → Configure Multiple Monitors
	Arrange Channels for Dual Monitors : This button is available when Multiple Monitors is turned on. The channels will be arranged for 2 monitors automatically:
	Login / Logout : Login or logout the current user. The default username and password are "**admin**" and "**admin**".
	Audio Broadcast : Click this button to turn on/off the audio broadcast function. When this function is ON, if the cameras equips Audio Output and connects an amplified speaker, the voice from the microphone of PC can be heard from the audio out of all channels.
	Emergency Record : Manually record the video and audio of all channels, click it again to stop the recording.
	E-Map : Click this button to turn on/off the E-Map screen.
	Playback : Enter the Playback screen for playing back the recorded video. Please see Video Playback page for the detail.

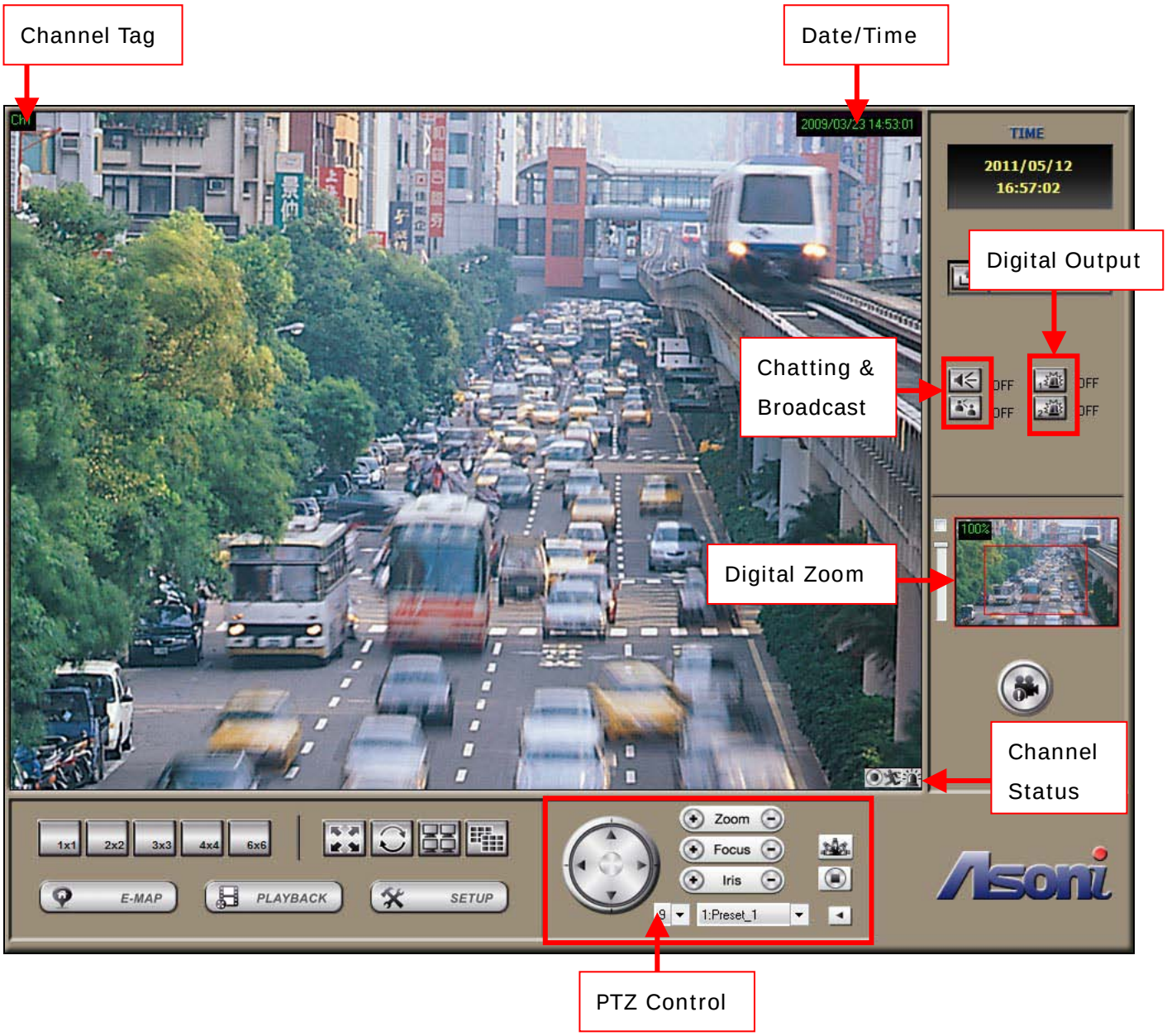
	Setup : Enter the Setup screen for configuration.
	Exit : Close and exit the software. If you didn't login previously, a pop-up window appears and asks you to input the username and password.

6.1. Operating the Specific Channel

To operate the channel, you have to select the channel by one of the following ways:

- Double-click the channel to enlarge the video.
- Click

[1x1] button and change to the channel.



Information on the Video	
Channel Tag	**Tag :** Shows tag on video to identify the channel.
Date & Time	**Date & Time :** Shows date & time on video.
(Inactive) **(Active)**	**Channel Status :** Shows the status of each channel. ● : Status indicator for recording. ● : Status indicator for Motion Detection. ● : Status indicator for Digital Input detection.

Control the Channel	
	Audio Broadcast : Click this button to turn on/off the audio broadcast function. When this function is ON, if the cameras equip Audio Output and connects an amplified speaker, the voice from the microphone of PC can be heard from the audio out of all channels.
	Chatting : Click this button to turn on/off the audio chatting function. When this function is ON, if the cameras equips Audio Output and connects an amplified speaker, the voice from the microphone of PC can be heard from the audio out of concurrent channel.
	Digital Output : Click this button to turn on/off the Digital Output or Relay Output of concurrent channel.
	Digital Zoom : This function allows digitally zoom in/out the video, and select the area for viewing. Please see Live View → Digital Zoom for the detail.
	PTZ Control : If the concurrent channel is a PT/PTZ camera or video server, this panel appears for operation. Depending on the feature that camera supports, the panel provides Pan, Tilt, Zoom, Focus, Iris, Pan/Tilt speed (select the speed from the pull-down list on the left side), Go preset point (select the preset point from the pull-down list on the

	right side) and Auto patrol. The pull-down list on the right side is for selecting the preset point. If this channel has been setup with “PTZ Custom Commands”, click ◄ **[Switch List]** to switch the “Preset Point List” and “PTZ Custom Commands List”. The PTZ function can be configured in Configure the PTZ Function

6.2. Digital Zoom

When enable the Digital Zoom function, user can zoom in/out the image to get proper view. If the channel is “Attached Channel”, use this function to select the area for viewing.

Digital zoom can be functionalized in live-view and playback view.

1. Click and check the “Zoom Status” box to enable the Digital Zoom function. Click it again will uncheck the box and disable the Digital Zoom function.

2. Shift the “Ratio Bar” upward or downward, the video in live-view window and preview window will be zoomed in or out. The zoom ratio is from 100% to 1000%.

3. Use mouse to drag “View Area” (red frame) to select the area for viewing, you can see the video is moving in live-view window.

7. Video Playback

Click

[Playback] to enter the Playback screen.

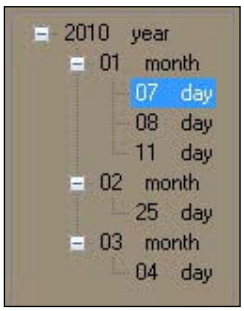
The Playback screen provides the following functions:

- Select and play back the recorded data.
- Export the selected range of recorded data to video file.
- Take the snapshot of the video image.
- Playback and download the recorded file from camera's SD card.

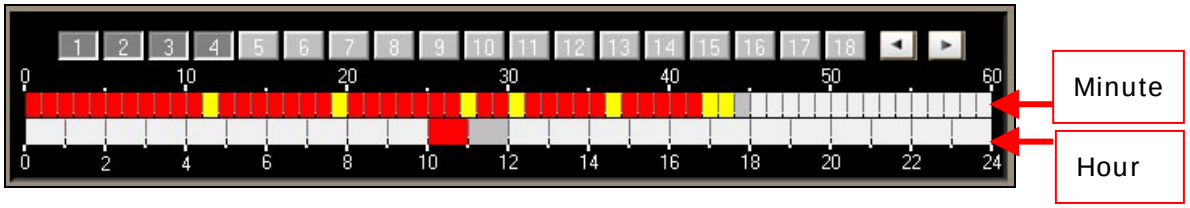
7.1. Play Back Video

1. Click channel number to select the channel you want to view the playback, up to 16 channels can be selected simultaneously.

2. Click on the video to select and highlight a channel, the "day" has recorded videos will be shown in the calendar.



3. Click and select the date in calendar, it will show the time table of recorded data.



The time table uses colorful boxes identify the data which was recorded by different recording schedule:

- **Light Gray:** No recorded data.
- **Red:** Normal recording data.
- **Yellow:** Recorded data contains Motion Detection event video.
- **Blue:** Recorded data contains Digital Input event video.
- **Dark Gray:** The time you choose to play.

4. Click and select a box in time table, and then click to start playback.

Click will stop the playback.

5. Use to adjust the playback speed. 1x, 2x, 4x, 8x, 16x and 32x are available (depends on the PC performance and number of channels).

6. Use to display the previous/ next frame.

7. Click **[Refresh]** will update the time table of recorded data.

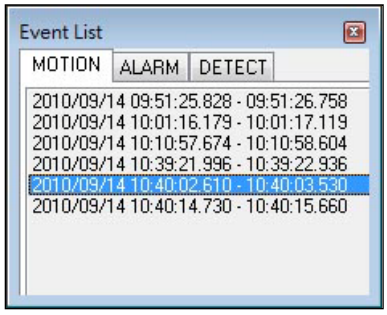
8. Check “Asynchronize Play” means play the video of the highlighted channel.

9. Uncheck “Asynchronize Play” can enable the “Synchronize Play”, the video of multiple channels will be played at the same recorded time simultaneously.

10. Check “Show tag”, “Show time” to show title & time on each channel.

11. Check “Disable Digital Zoom” to see the original size of the video.

12. Check “Event List” to display the list of event records. Click and select the event record to play the video clip for preview.



There are three types of event records:

- **Motion:** Recorded when “Hardware Motion Detection” (detected by camera itself) is triggered.
- **Alarm:** Recorded when “Digital Input of camera” is triggered.

The video clip selected from “Event List” is for preview only, to play the whole event video, select the video from the time table of recorded data and play it.

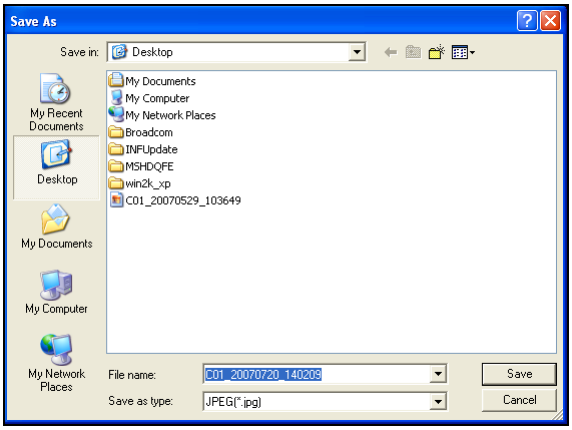
7.2. Export Video

Recorded video data can be exported as snapshot or video file.

Export as Snapshot (JPEG Format)

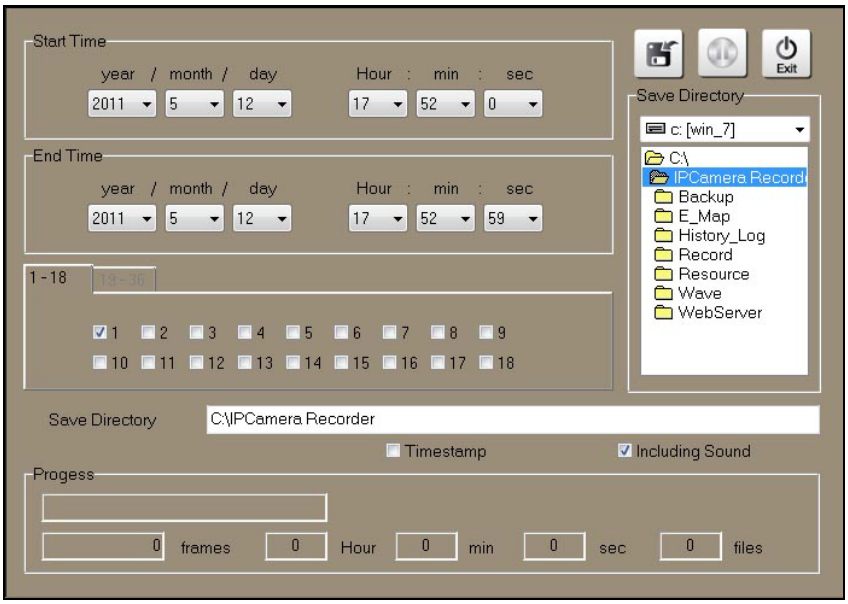
Pause the playback, click **[Save to JPEG]** and the following appears.

Select a path to save the file. The filename will be:
“channel number_yyyymmdd_hhmmss.jpg”.



Export as Video File (AVI Format)

1. Stop the playback, click **[Save to AVI]** and the below page appears.



2. Select “Start Time” and “End Time”, check to select the channel or multiple channels, and the folder to save the video file.

3. If you want to export the video including timestamp or audio, check the following options.

4. Click **[Start AVI Save]** to start the procedure.

5. If multiple channels have been selected, the selected range of video will be exported to different AVI files for each channel.

6. Click

[Exit AVI Save] to close the window.

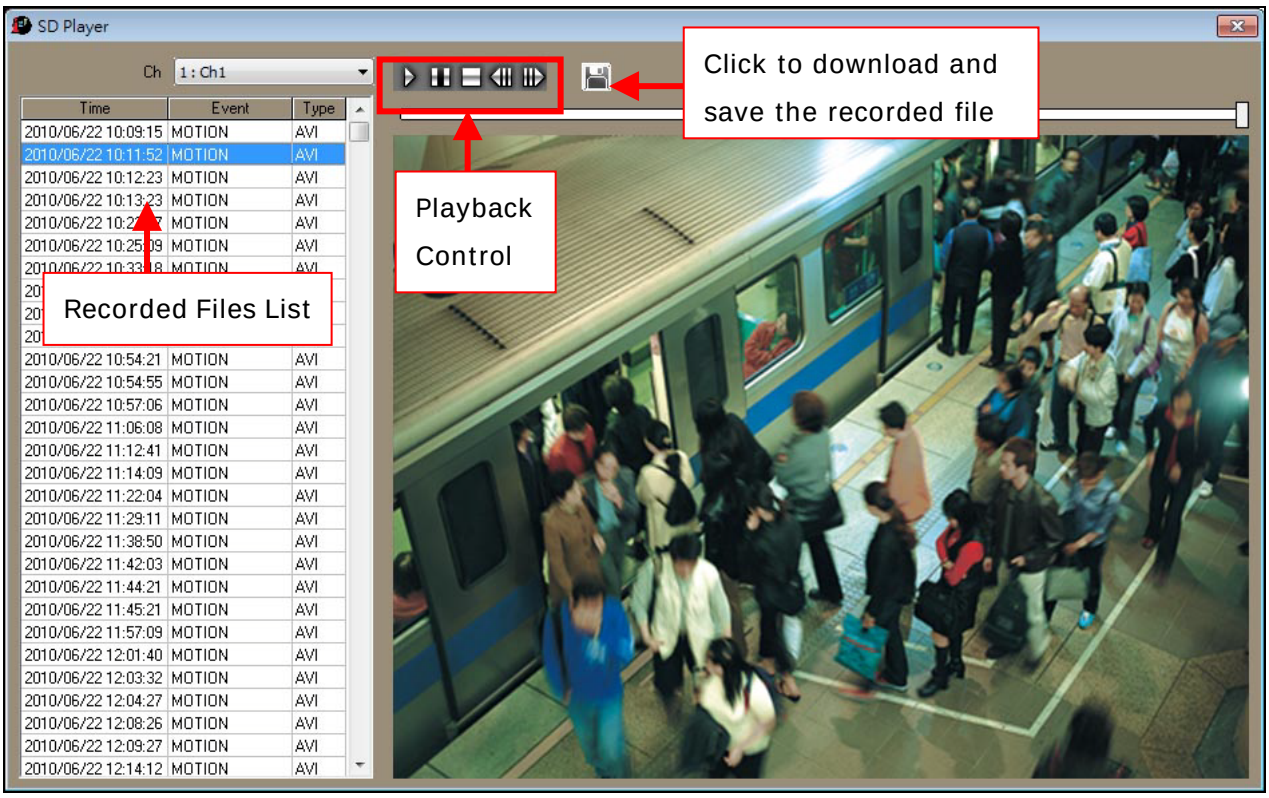
The encode format of exported video is same as the connected camera. For example, if the video stream from the connected camera is H.264, the exported video will be H.264 too.

To play back the exported video file, the PC must install the H.264/MPEG-4 decoder (such as “FFdshow”, you can install this decoder from the included CD), and then play the file with Windows Media Player.

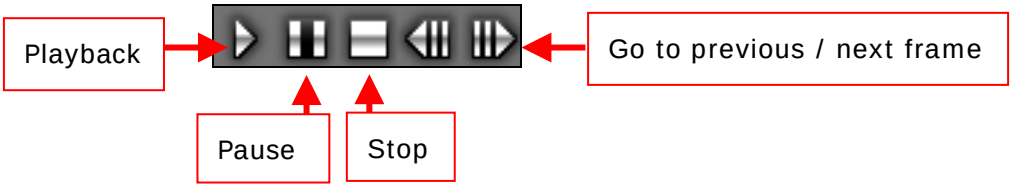
7.3. Playback / Download from SD Card

If the selected camera equips SD Card slot and the SD Card is inserted, you can play back or download the recorded files in Playback screen.

1. After select channel, click **[SD]** to open “SD Player” window.



2. The recorded files in SD Card are listed in the table on left side, click and select the file to play it. You can use the control buttons to control the playback.



3. Click to download the file from camera’s SD Card and save it into local drive.

8. Configure the Event Function

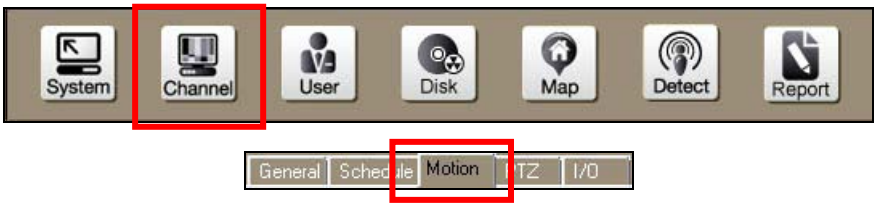
This software provides two kinds of event functions:

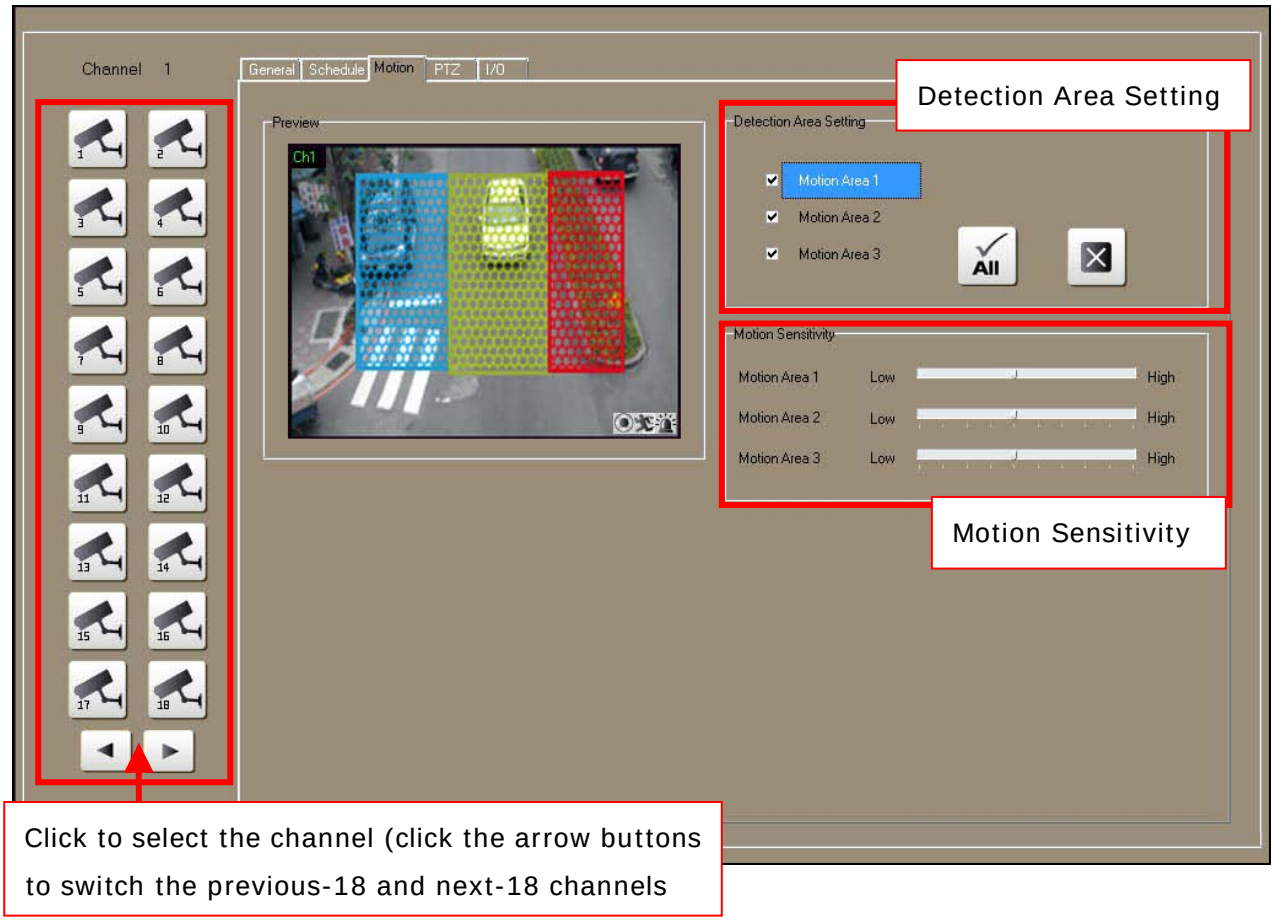
- Hardware Motion detection (detected by camera itself).
- Digital Input detection (the sensor connected to camera).

8.1. Configure Hardware Motion Detection

Configure the Motion Detection Area and Sensitivity

Click **[Channel]**, and then click **[Motion]** tab to enter the “Motion” sub-page.





1. Select channel to configure the motion detection areas.

2. Check and select the “Motion Area 1”, then use mouse to draw the area for detect.

3. If you want to setup the second or third motion area, check and select the “Motion Area 2” or “Motion Area 3”, then use mouse to draw the area for detect.

4. To adjust the sensitivity of motion detection, shift the bar of “Motion Sensitivity”.

5. Click

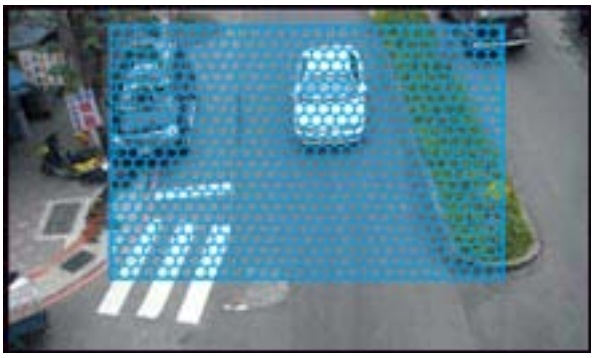
[Save] to save the settings.

Please save the settings of the concurrent channel before leave this page, or the Motion Detection Area will not be saved.

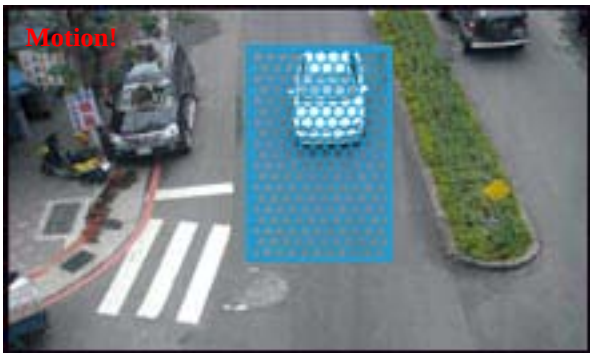
Recommendation of Motion Detection Area

To ensure the Motion Detection works well, and avoid unnecessary trigger, please follow the rules to draw the Motion Detection Areas:

- The moving object larger than the 50% of the Motion Detection Area, it will be detected, and the Motion Detection is triggered.
- The moving object smaller than the 50% of the Motion Detection Area, it will not be detected, and the Motion Detection will not be triggered.
- Recommend use 3 smaller Motion Detection Areas to replace a large area.

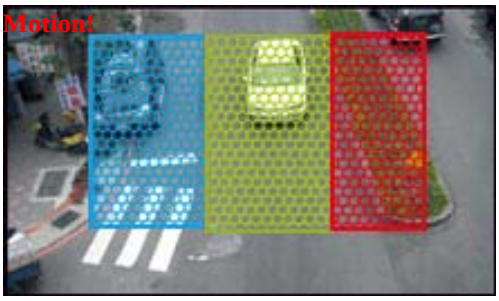


The moving object smaller than the 50% of the motion area, it will not be detected!



The moving object larger than 50% of the motion area, it will be detected, and the motion is triggered!

To detect the smaller moving object, use 3 motion areas to replace a large motion area, refer the figure below:



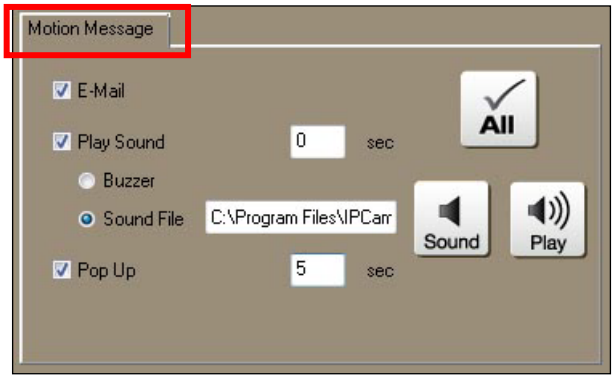
The moving object will be detected when it is in any of the 3 motion areas, and the motion is triggered!

Configure the Notification from Hardware Motion Detection

Once the Hardware Motion Detection is triggered, the software may take the following actions depending on the configuration:

- Recording the event video as the configuration in recording schedule (Configure the Recording Function → Configure Recording Schedule)
- Send E-mail with attached image.
- Play sound to notify the operator in live-view screen.
- Enlarge the video to notify the operator in live-view screen.

Click **[I/O]** tab to enter the "I/O" sub-page, and then click **[Motion Message]**.



1. Select channel to configure the notification from Motion Detection.

2. To let the software send E-mail when Motion Detection is triggered, check and enable the "E-Mail". You should also create the recipient's E-mail address and enable the E-mail function in Configure and Enable E-Mail Function .

3. To let the software plays the warning sound when Motion Detection is triggered, check and enable the “Play Sound”, also configure the following settings:

- **Sec:** How many seconds the sound will be lasting.

  “0 sec” means the sound is continuing played and will not back to the split screen mode, until user double-click on the video.

- **Buzzer:** Play the sound from the buzzer of PC.
- **Sound File:** Play the sound from the speaker of PC, and the sound file can be selected by clicking Sound **[Alarm Sound File]**. Moreover, after complete the sound file setting, you may click Play **[Play Sound]** to play the sound for test.

4. To let the software enlarge the video when Motion Detection is triggered, check and enable the “Pop Up”, and configure lasting time.

   “0 sec” means the enlarged video is continuing displayed and will not back to the split screen mode, until user double-click on the video.

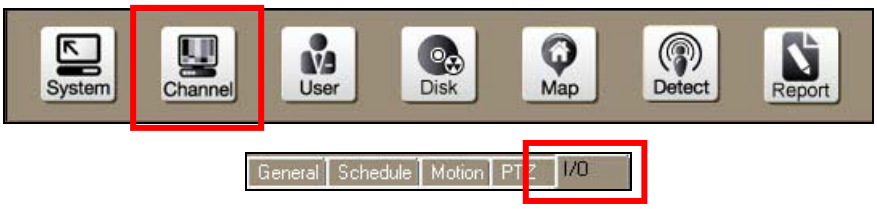
5. Click All **[Apply to all channel]** can apply the above settings to all channel.

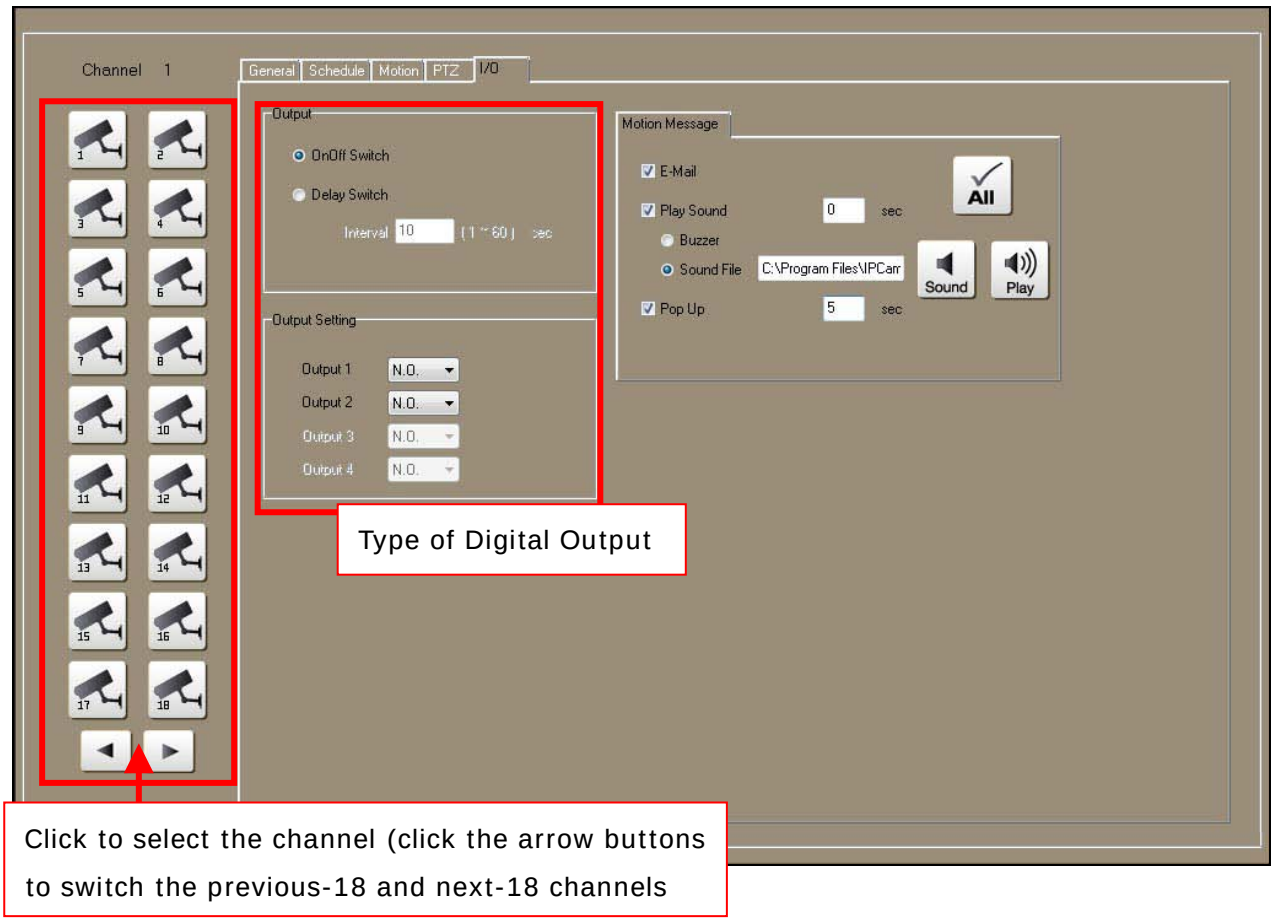
6. Click Save **[Save]** to save the settings.

8.2. Configure Digital I/O

Configure the Type of Digital Output

Click **[Channel]** on the top, and then click **[I/O]** tab to enter the "I/O" sub-page.





1. Select channel to configure the Digital Output.

2. Check and select the type of Digital Output switch:
   - **On/Off Switch:** This type of switch will be triggered to On or Off constantly.

- **Delay Switch:** This type of switch will be triggered to “On” and lasting for a period time, and then “Off” automatically.
- **Interval:** If the Digital Output switch is a “Delay Switch”, the lasting time of the “On” period can be set here.

3. Click and select the ON/Off mode from the pull-down list for the Digital Output switch:
   - **N.C:** This mode means “Normally Closed” when the switch is turned off.
   - **N.O:** This mode means “Normally Opened” when the switch is turned off.

Configure the Notification from Digital Input Detection

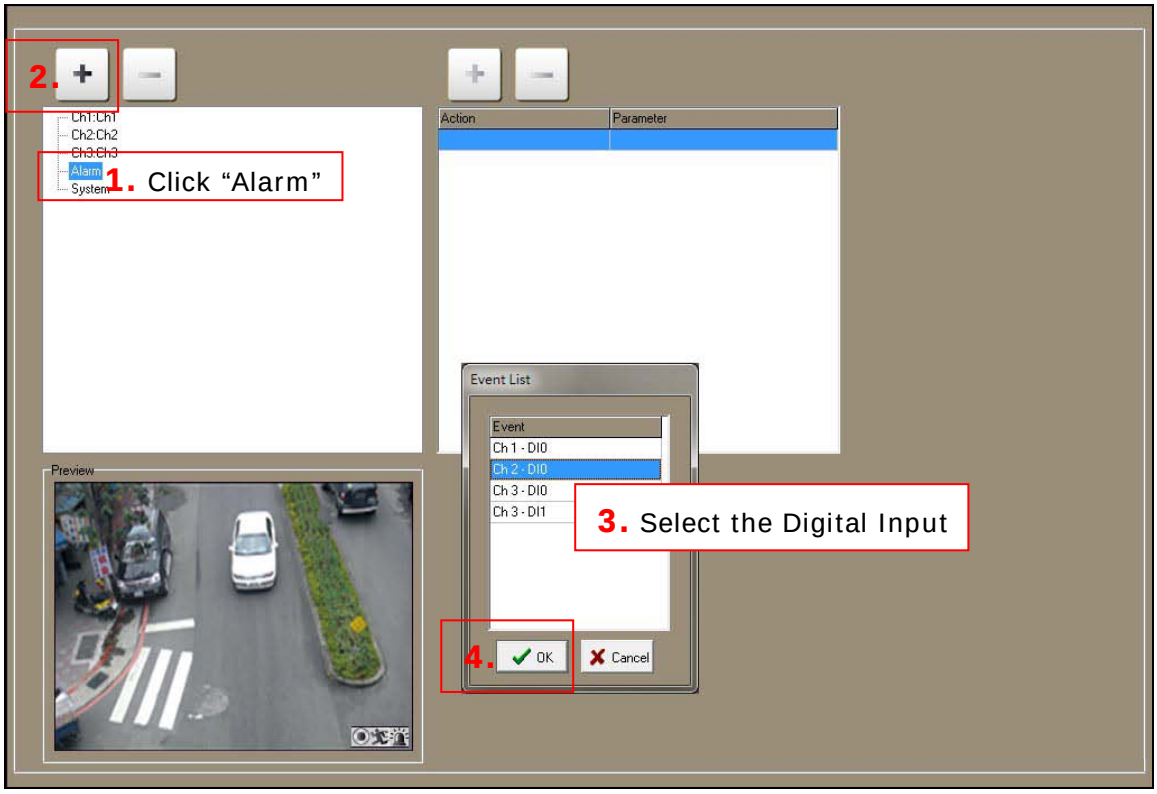
Once the Digital Input Detection is triggered, the software may take the following actions depending on the configuration:

- Recording the event video as the configuration in recording schedule (Configure the Recording Function → Configure Recording Schedule)
- Send E-mail with attached image.
- Play sound to notify the operator in live-view screen.
- Enlarge the video of the selected channel (this channel or the other channel) to notify the operator in live-view screen.
- Move the selected Pan/Tilt channel (this channel or the other channel) to the preset point(s).

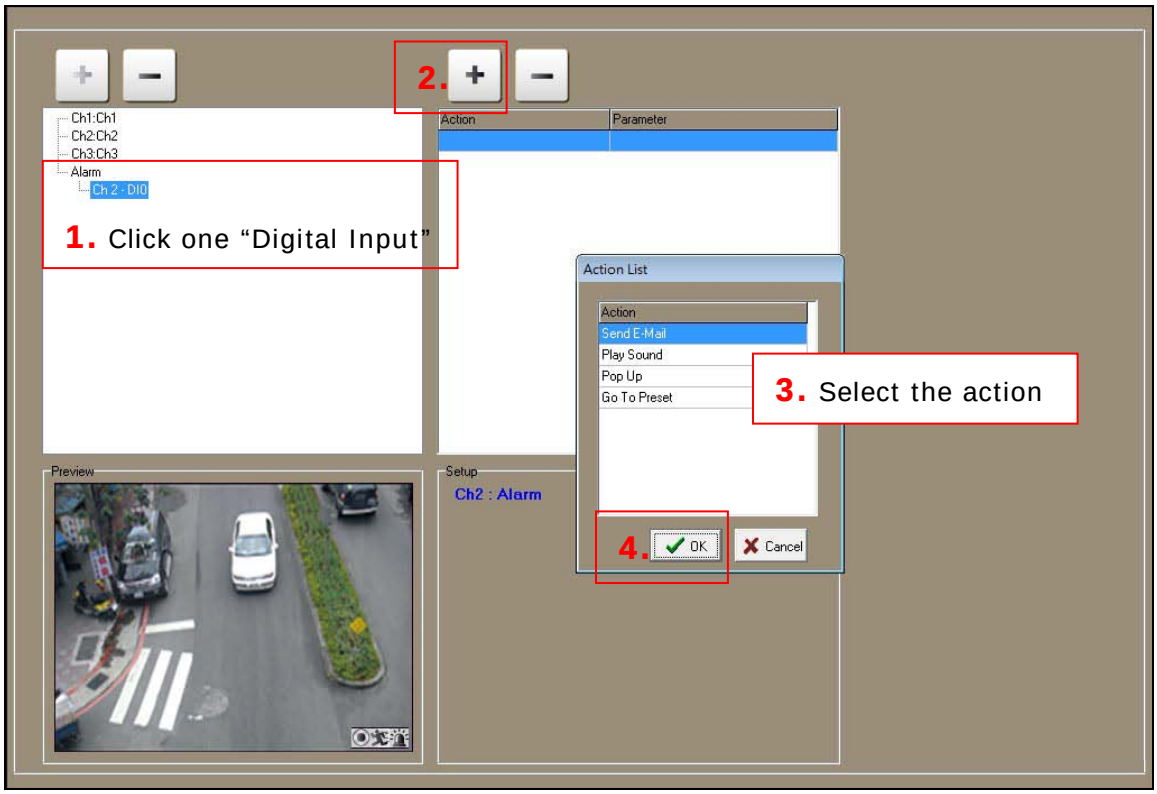
Click **[Detect]** on the top to enter the “Detect” page.

1. At the first, you have to select the channel and Digital Input for detect. Refer to the below figure, click “Alarm” and then click + **[Add]** button on the top-left corner.

2. In the pop-up window, click and select the channel and Digital Input, and then click **[OK]** to add it into the “Detection Table” on the left side.



3. After add the Digital Input for detect, you have to select the action will be taken once it is triggered.



4. Refer to the above figure, click one Digital Input and then click **[Add]** button on the top of “Action Table” on the right side.

5. In the pop-up window, click and select the action and then click **[OK]** to add it into the “Action Table”. You can add multiple actions for this trigger.

6. To let the software send E-mail when Digital Input Detection is triggered, add “Send E-Mail” as the action. You should also create the recipient’s E-mail address and enable the E-mail function in Configure and Enable E-Mail Function .

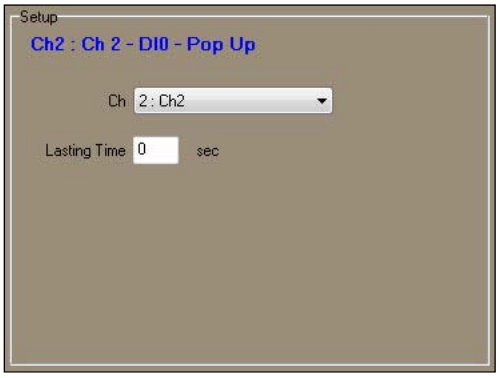
7. To let the software plays the warning sound when Digital Input Detection is triggered, add “Play Sound” as the action, and then configure the following settings:

   - **Play Time:** How many seconds the sound will be lasting.

     “0 sec” means the sound is continuing played and will not back to the split screen mode, until user double-click on the video.

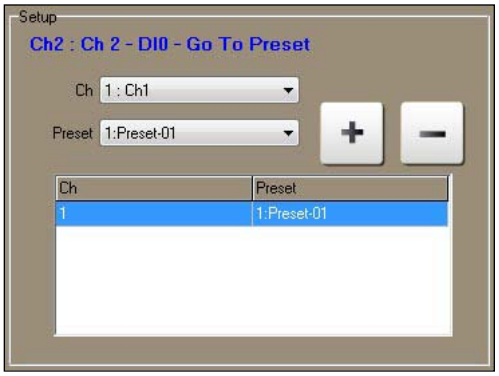
   - **Buzzer:** Play the sound from the buzzer of PC.
   - **Sound File:** Play the sound from the speaker of PC, and the sound file can be selected by clicking **[Alarm Sound File]**. Moreover, after complete the sound file setting, you may click **[Play Sound]** to play the sound for test.

8. To let the software enlarge the video (this channel or the other channel) when Digital Input Detection is triggered, add “Pop Up” as the action, and then select the channel will be pop-up, and configure the lasting time.



“0 sec” means the enlarged video is continuing displayed and will not back to the split screen mode, until user double-click on the video.

9. To let the software move the Pan/Tilt camera (this channel or the other channel) to selected preset point(s) when Digital Input Detection is triggered, add “Go To Preset” as the action, and then select the Pan/Tilt channel, and select the preset point(s).



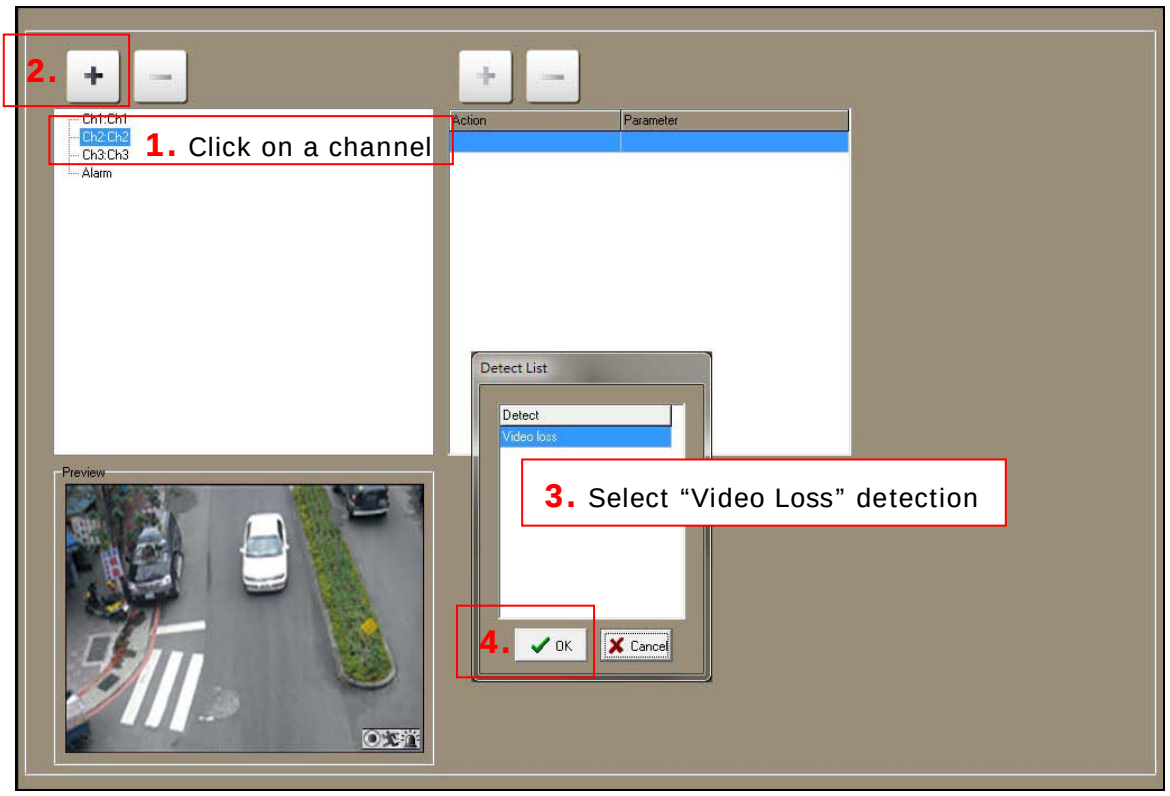
10. After configure the Digital Inputs, click

[Save] to save the settings.

8.3. Configure “Video Loss” Detection

While the IP camera is disconnected, or the IP video server looses the video of connected analog camera, it will trigger the response action which is select.

On Setup screen, click **[Detect]** on the top to enter the “Detect” page.



1. At the first, you have to select the channel for detect. Refer to the above figure, click and select a channel and then click + **[Add]** button on the top-left corner.

2. In the pop-up window, click and select “Video Loss” and then click **[OK]** to add it into the “Detection Table” on the left side.

3. You don't need to configure the "Video Loss" detection, it will be activated after added to the "Detection Table.

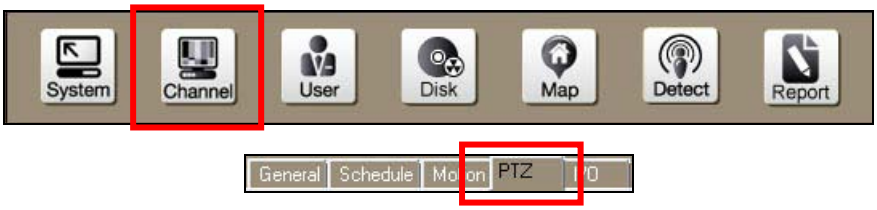
4. After configure the "Video Loss" detection, click

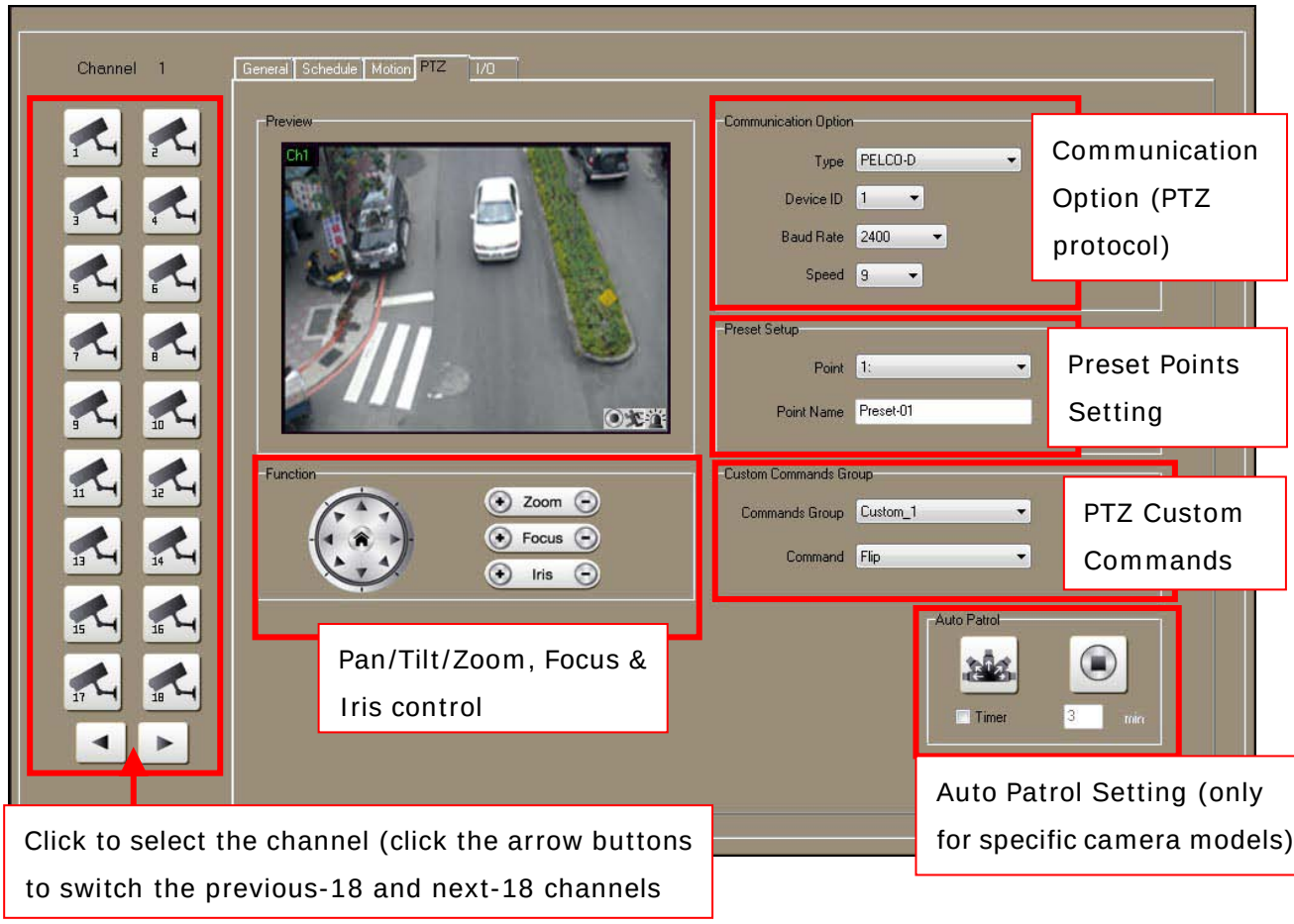
[Save] to save the settings.

9. Configure the PTZ Function

If the camera or video server equips PT or PTZ function, configure the function in this page.

Click **[Channel]** on the top, and then click **[PTZ]** tab to enter the PTZ sub-page.



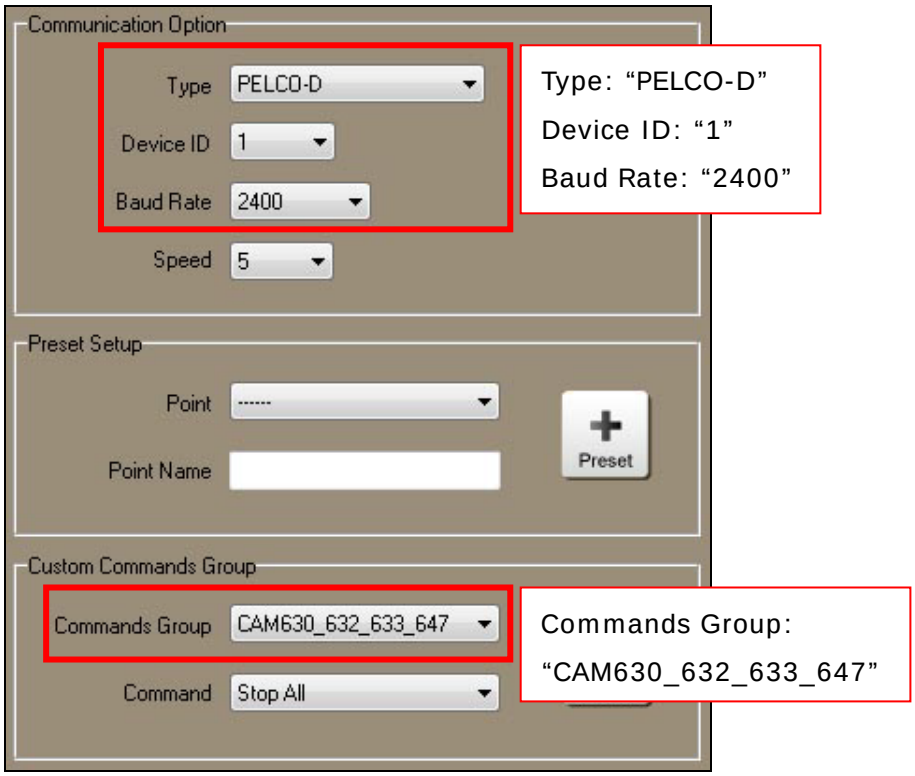


This page provides the following functions:

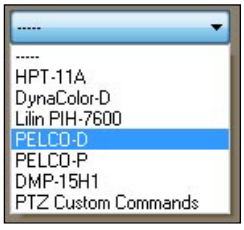
- Configure the PTZ protocol of the PTZ device.
- Setup preset points.
- Operate the PTZ device.

- Customize PTZ commands, to add more PTZ control commands, or create a set of commands to control the PTZ model which has not been supported by the software.
- Configure Auto Patrol function (only for specific camera models).

If you are using CAM630, CAM632, CAM633 or CAM647, please follow the below figure to configure the “Communication Option” and “Custom Commands Group”, and then, you can use more functions (such as “OSD Menu” and “Flip”) with the speed dome when in Live-View screen.



With the other model of PTZ devices, follow the below instructions:



1. Select channel to configure the PTZ function.
2. Select the PTZ protocol from the pull-down list of “Type”.
3. Make sure choosing the correct “Device ID” and “BaudRate”.
4. Select the moving speed for Pan / Tilt from the pull-down list of “Speed”.

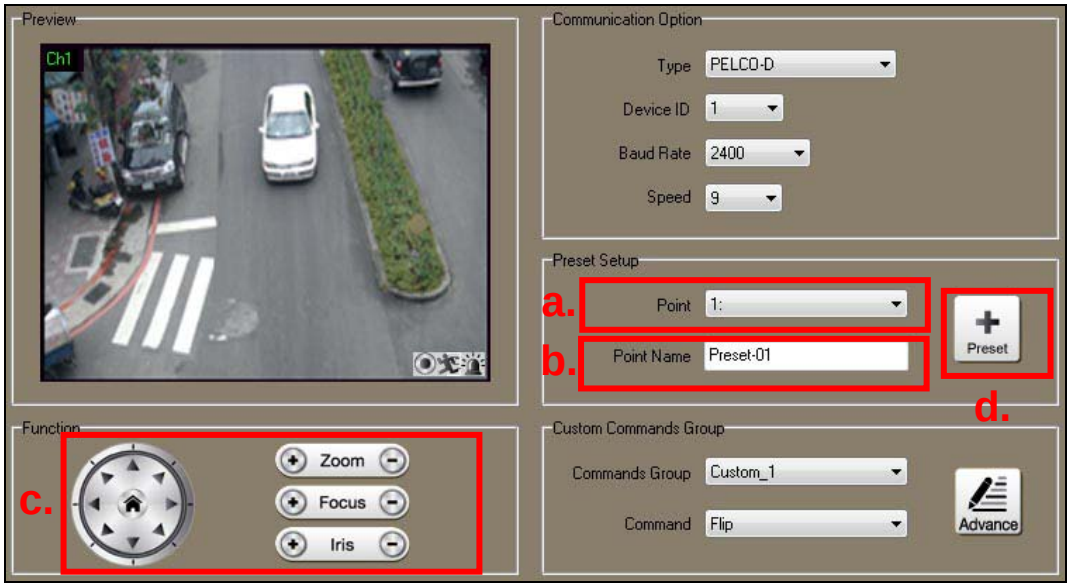
5. To setup the preset point, follow the steps:

   a. Select the point number from the pull-down list of “Point”.

   b. In “Point Name” field, input a name for this point.

   c. Pan / Tilt the camera to the position, and then adjust the zoom / focus / Iris.

   d. Click Preset **[Preset Setup]** button to save this preset point.



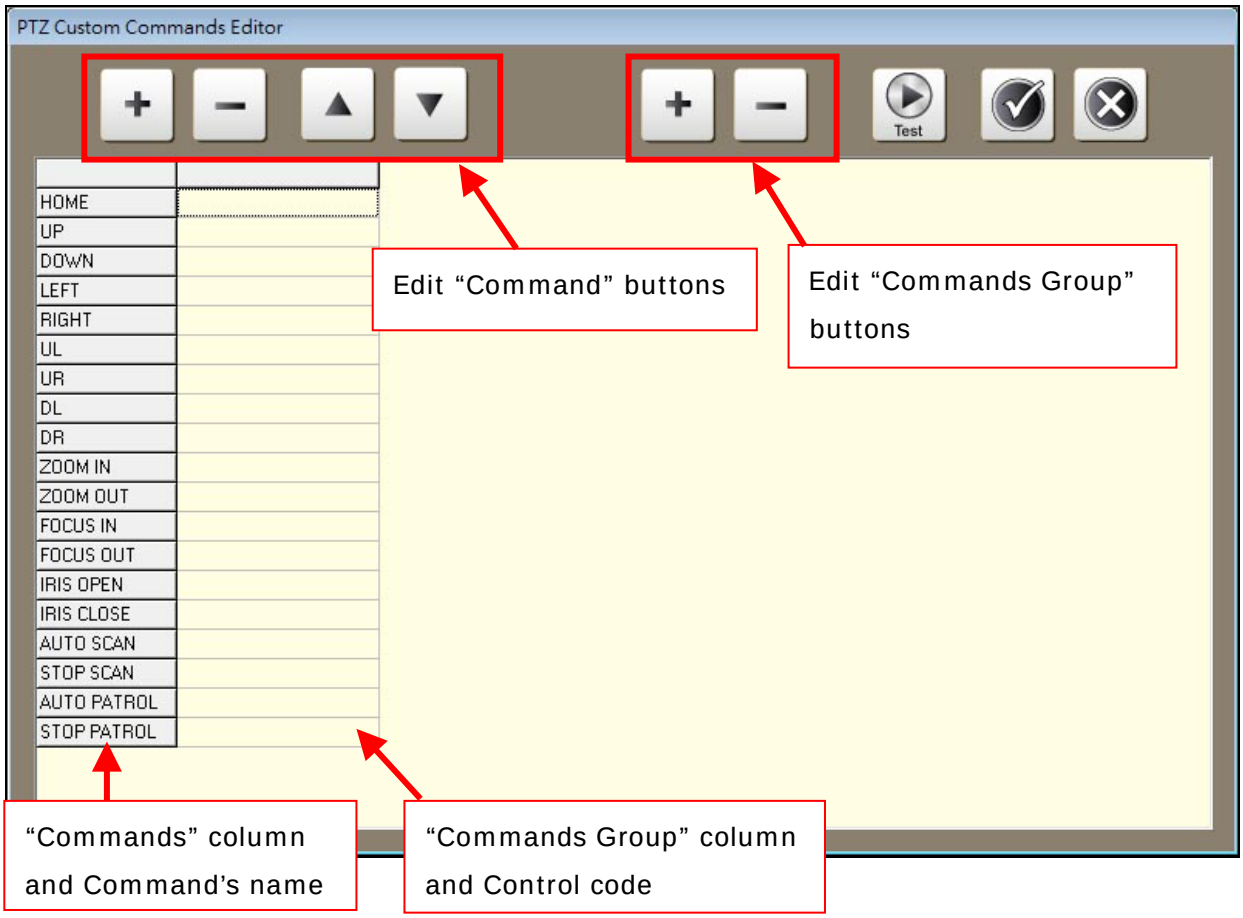
6. Click Save **[Save]** to save the settings.

PTZ Custom Commands

If the built-in PTZ control commands of the software don’t support the connected PTZ device, you can add or create the PTZ commands. You can use the built-in and added commands with the following combinations:

- Combine the built-in and added commands to control the PTZ device.
- Only use the added commands to control the PTZ device. The built-in commands will not work with this device.
- You can modify the built-in commands, and then control the PTZ device.

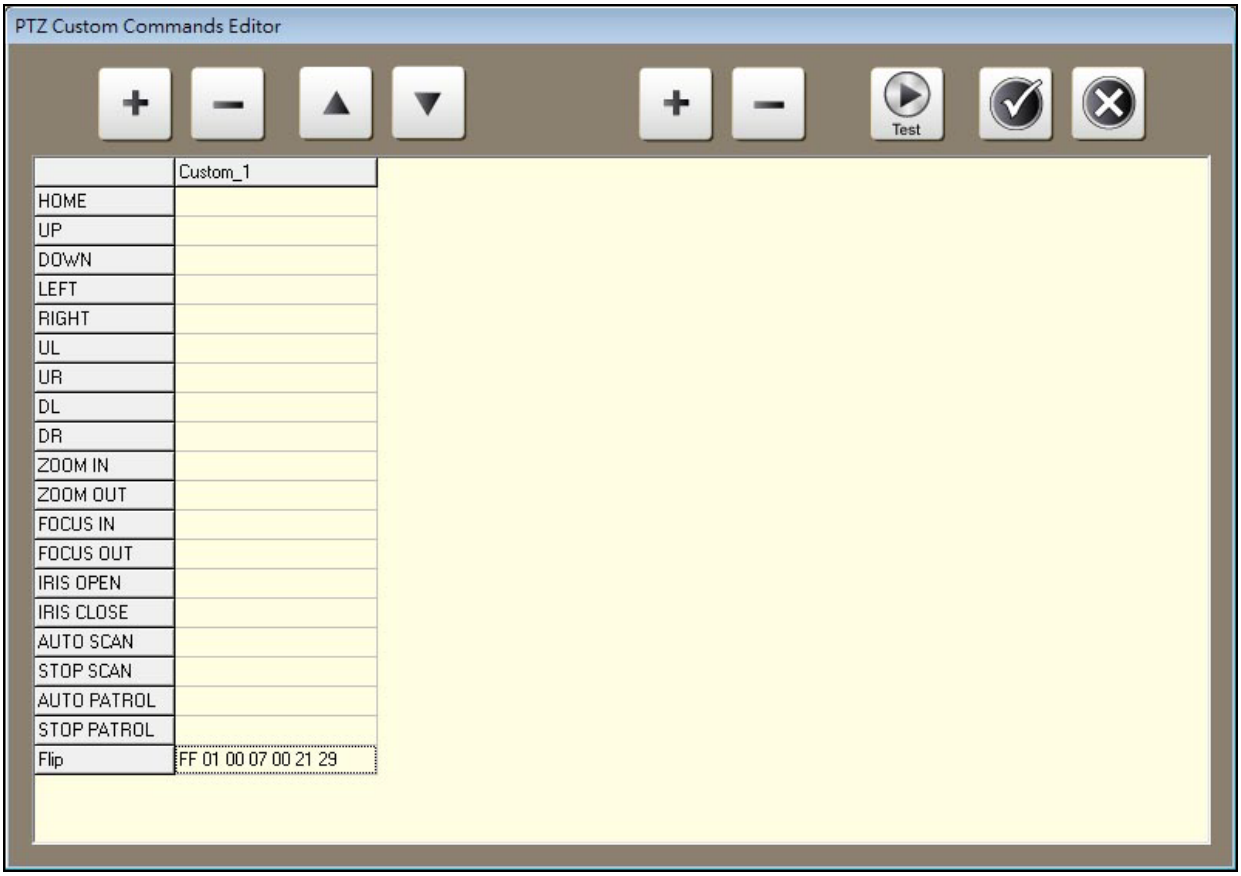
Click Advance **[PTZ Custom Commands]** button in “Custom Commands Group” field to open “PTZ Custom Commands Editor” sub-page.



1. You must create a “Commands Group” first and then create the commands. Click **[Add Commands Group]** button, assign a name in the pop-up window, and then click **[OK]**. A new “Commands Group” is added.

2. The built-in commands are already listed in the “Commands” column. If these commands can control the PTZ device, just leave them for empty.

3. To add a new command, click and select any empty box under the “Commands Group” column, click **[Add Command]** button, assign a name in the pop-up window, and then click **[OK]**. A new command is added.



4. Under the “Commands Group” column, left-click the box three times on the right side of command, and then input the PTZ control codes. The control codes are in hexadecimal, and separate with a space.

5. When complete the configuration, click **[OK]** to save the settings.

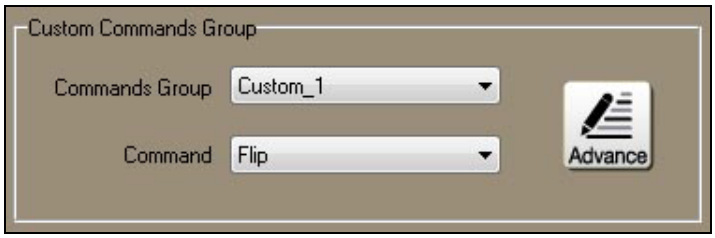
6. Back to “PTZ” sub-page, configure the following:

   a. Select the PTZ protocol from the pull-down list of “Type”. If you want to combine the built-in and added customized command to control the PTZ device, select a built-in protocol such as “PELCO-D”, and then go ahead

to the step c.

b. If you want to use only the customized PTZ commands, please select “PTZ Custom Commands”.

c. Select the “Commands Group” from the pull-down list of “Commands Group”.



d. Click Save **[Save]** to save the settings.

7. On the Live-View screen, you can switch the pull-down list between “Preset Points” and “PTZ Custom Commands” by clicking ◄ **[Switch List]** button. And control the PTZ device by the selected command.

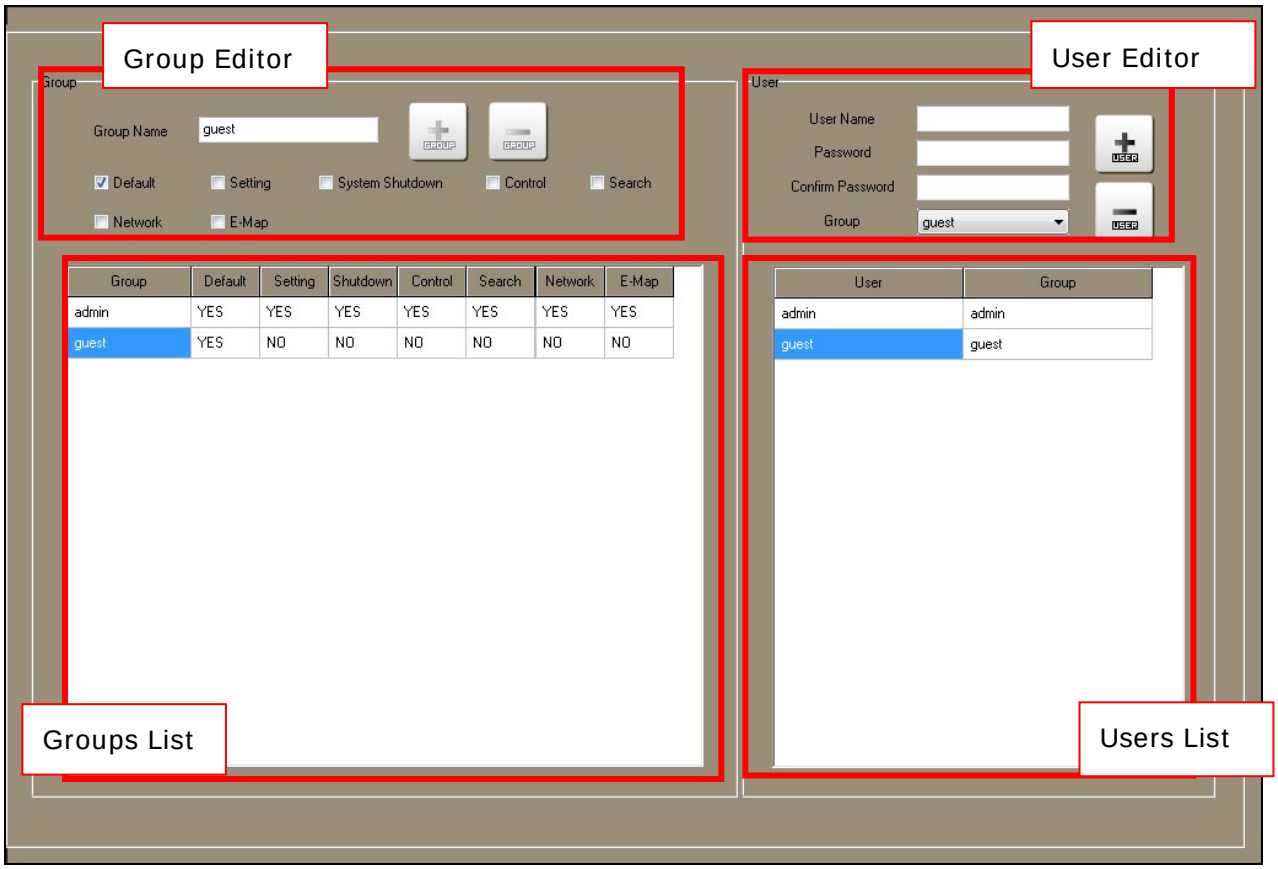
10. Manage User Accounts

This software provides 2 user groups by default: Admin and Guest group. In this page, you can:

- Add users into the group.
- Delete users into the Guest group.
- If more than 2 users in Admin group, delete users in the Admin group.
- Configure authority of the Guest group.
- Change the username of users.

The authority of Admin group can't be changed.

Click **[User]** on the top to enter the Password Setup page.



1. To add new user into the group, fill in User Name and Password in “User Editor”, and select the group, click **[ADD User]** to add this user.

2. To remove a user, click and select the user from the “Users List”, click **[DEL User]** to remove it.

3. To change the authority of Guest group, click and select the Guest group from the “Groups List”, and then check or un-check the authority type in “Group Editor”.

4. To change the name of user in Admin and Guest group, double-click the username from the “Users List”, and then type the new name in the field.

5. The password of user can’t be changed. To change the password of an exist user, you have to delete the user first, and then add an user with same name but different password.

6. To change or remove the default Admin username and password, please add a new user into Admin group, and then delete the default Admin user.

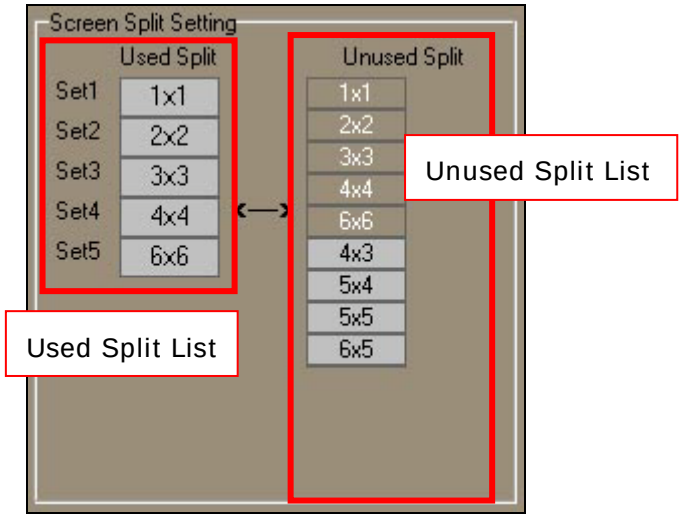
7. When complete the configuration, click **[Save]** to save the settings.

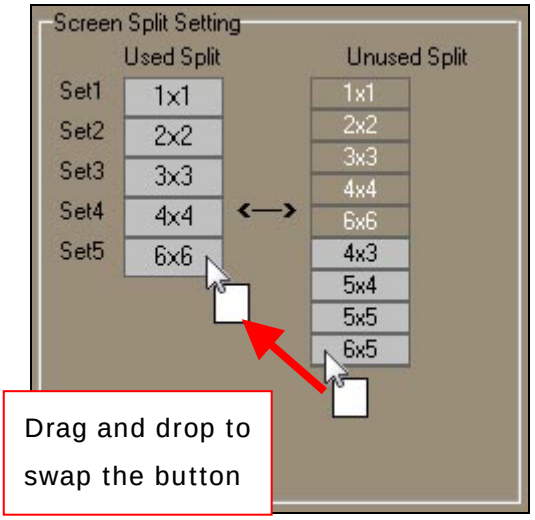
11. Configure Screen Layout

You can arrange the layout of Live-View screen previously.

Click **[System]** on the top to enter the System Setup page.

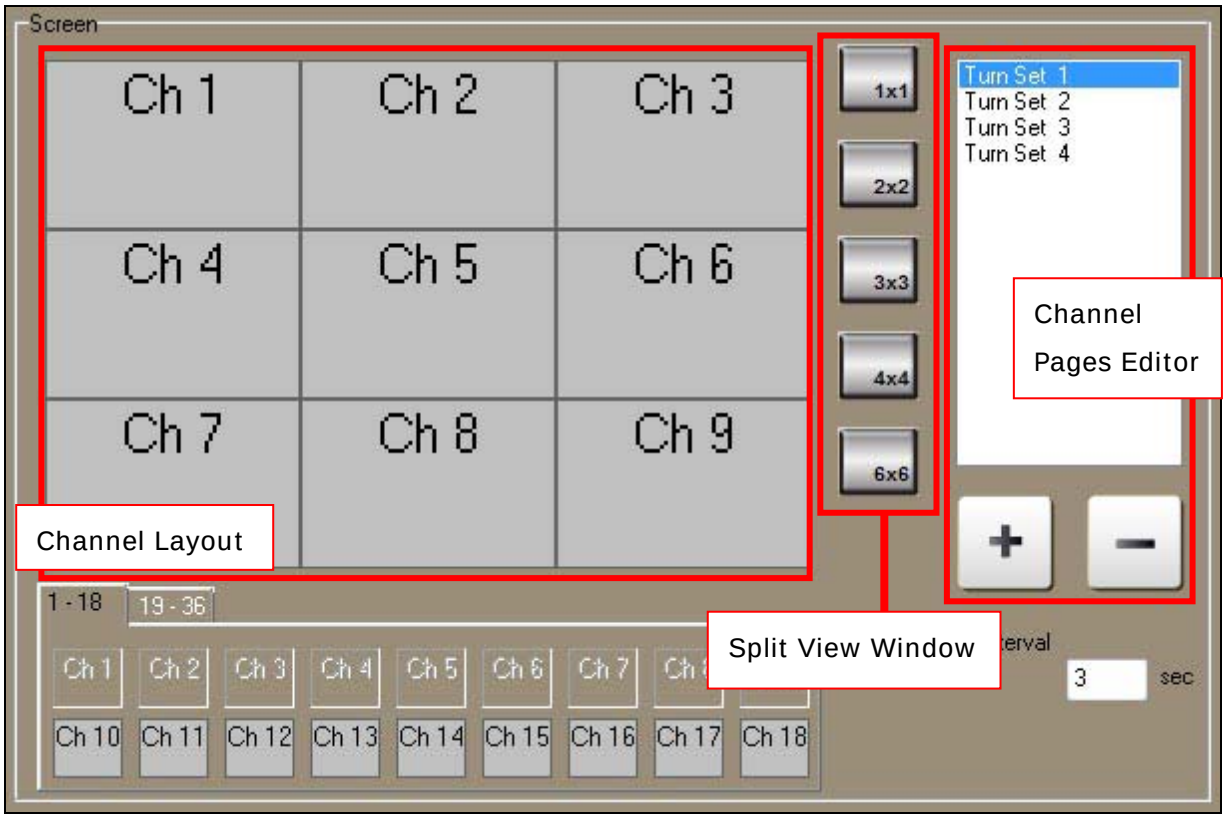
1. This software provides various split-view windows, you can change the split-view buttons on Live-View page. To change the split-view button, use mouse to drag a split-view button from “Unused Split List” and drop it to the button under “Used Split List”. Please refer to the figure shown on below.



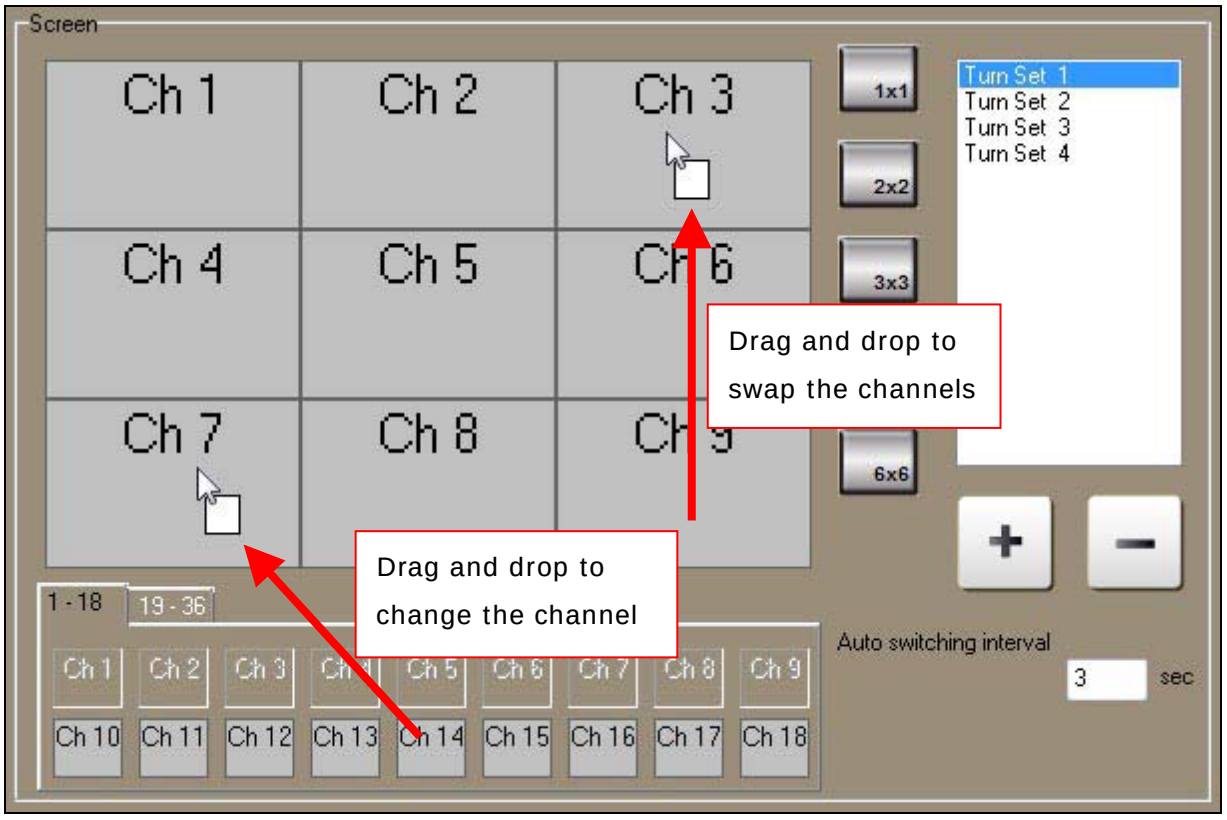


2. Each split-view window has its own “Turn Set” combination. The “Turn Set” means the view page of Live-View screen. You can arrange the channels for each “Turn Set”. The “Turn Set” can be removed if it is not used, or add a new “Turn Set” for the new lay out. Each split-view window has up to 40 “Turn Set”.

3. To manage the “Turn Set” of the split-view window, click the split-view button first. To add a new “Turn Set”, click + **[ADD]**. To remove a “Turn Set”, click and select the “Turn Set” and then click − **[DELETE]**.



4. To change the layout of “Turn Set”, click and select the “Turn Set”. Use mouse to drag the channel and drop it into the location. Please refer to the figure shown on below.



5. To change the layout of other “Turn Set” or split-view window, just repeat the above steps.

6. The “Auto Switching Interval” is the interval time for “Channel Auto Swap” function on Live-View screen. Change the time if necessary.

7. After complete the configuration, click

[Save] to save the settings.

8. When in Live-View screen, the channels will be shown with the layout of “Turn Set”.

12. Configure and Enable E-Mail Function

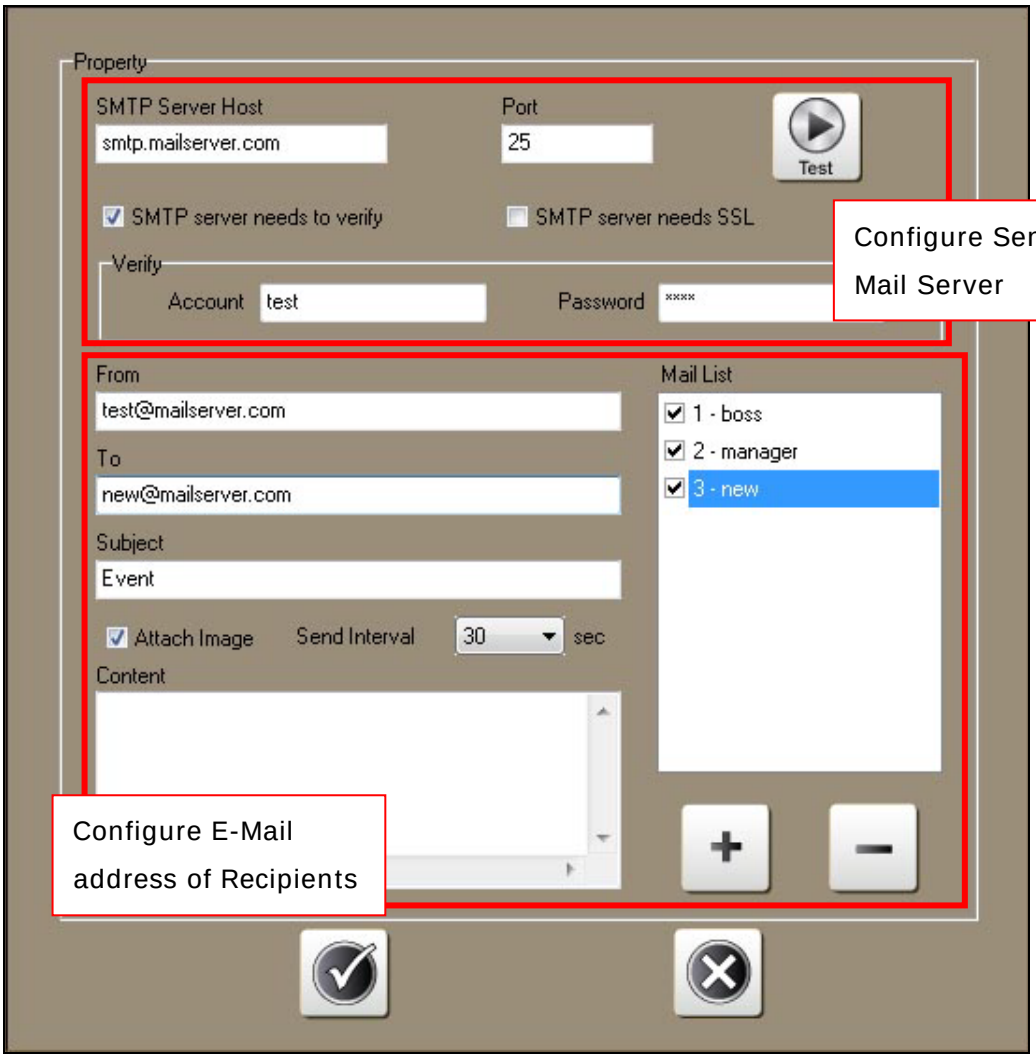
In the E-Mail Setup sub-page, you can manage the E-Mail address of multiple recipients, and enable the E-Mail message service. If you have configured the event system to notify the recipient via E-Mail, the recipients will get the notification once the event is triggered.

Click **[System]** on the top to enter the System Setup page.

1. On the bottom of page, check “Enable E-mail” to enable the E-Mail message service; or un-check “Enable E-mail” to disable the E-Mail message service.

2. To manage the E-Mail address of receiver, click

[Email Setting] to enter E-Mail Setup sub-page.



3. At the very first time, configure the Send Mail Server first.
   - **SMTP Server Host & Port:** The mail server for send out the E-Mail.
   - **SMTP server needs to verify or Needs SSL:** The verification method of the mail server.
   - **Verify:** If the mail server needs verify, input the account name and password for login the mail server.

4. To add a recipient, fill in the following fields:
   - **From:** The E-Mail address of the sender.
   - **To:** The E-Mail address of the recipient.
   - **Subject:** The subject of the E-Mail.
   - **Attach Image:** Determine whether attach a snapshot to the E-Mail.
   - **Send Interval:** The interval to send E-Mail once multiple events are

triggered.

- **Content:** Input the further message in the E-Mail if you want.

5. After fill in the information of recipient, click

[TEST] button to test the E-Mail service.

6. Click **[ADD]** to add this recipient into Mail List.

7. In Mail List, if the checkbox in front of the recipient is checked, the E-Mail notification will be sent to this recipient.

8. To modify the recipient, click and highlight the recipient in Mail List, modify the information, the recipient will be modified immediately.

9. To add more recipients, click **[ADD]** button to duplicate the added recipient, then, click and highlight the new recipient and modify the information.

10. To remove the recipient, click and highlight the recipient in Mail List, and then click **[DELETE]** to remove it.

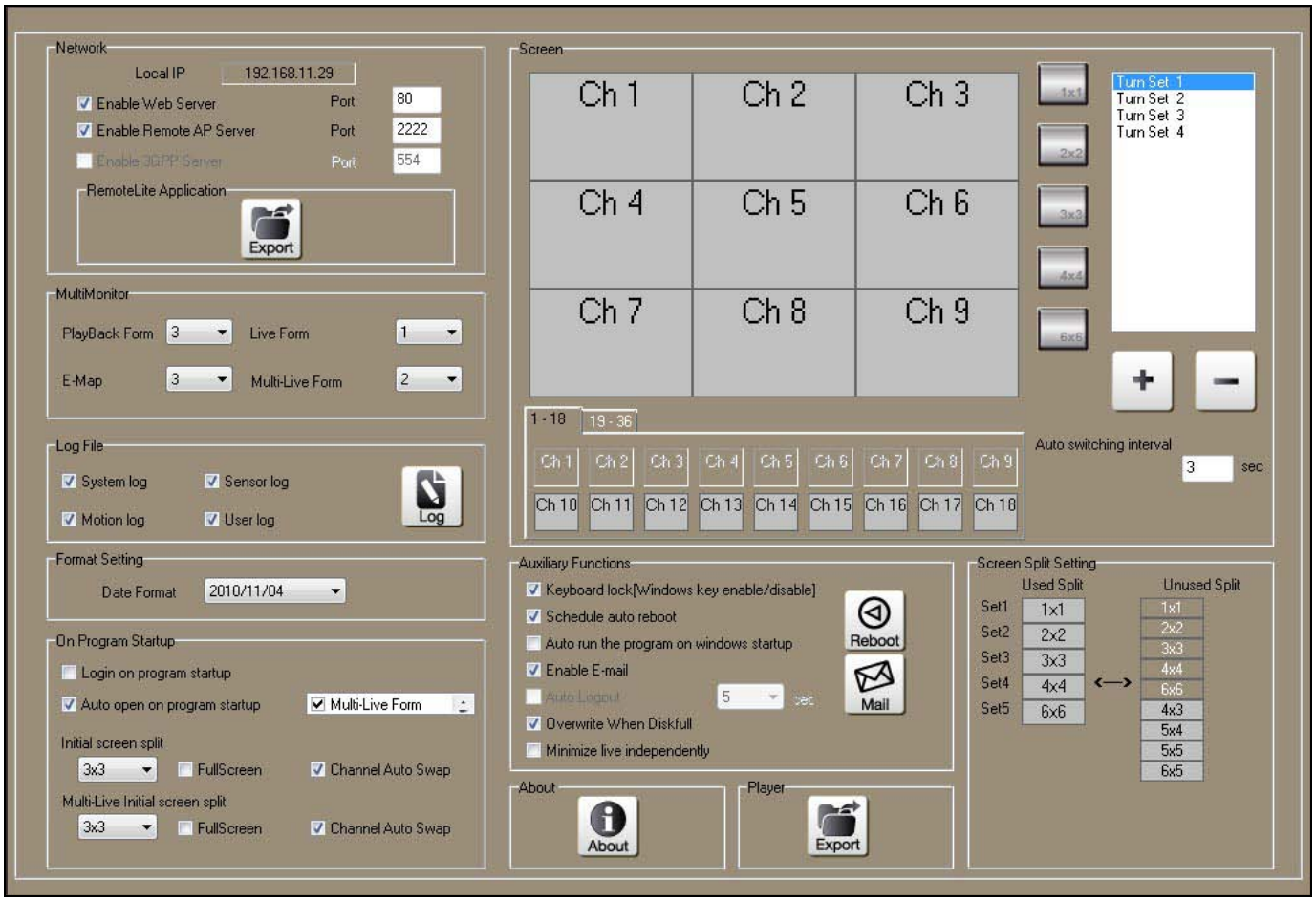
11. When complete the configuration, click **[OK]** to save the settings.

About “Attach Image” function, if the channel is under “No Record” schedule, the E-Mail notification will not contain the snapshot.

13. Other Configuration

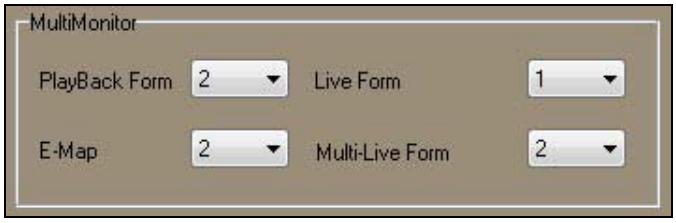
There are further configurations in the “System Setup” page.

Click **[System]** on the top to enter the “System Setup” page.



13.1. Configure Multiple Monitors

If the PC connects Multi-Monitors (it refers to exceed two monitors), the administrator can setup what is displayed on the connected monitors. This function can be worked while the PC installs display card which is supported Multi-Monitors and connects more than one monitor. Moreover, this software will detect the quantity of connecting monitors.



Depending on the hardware installed, there are more than 2 monitors can be displayed.

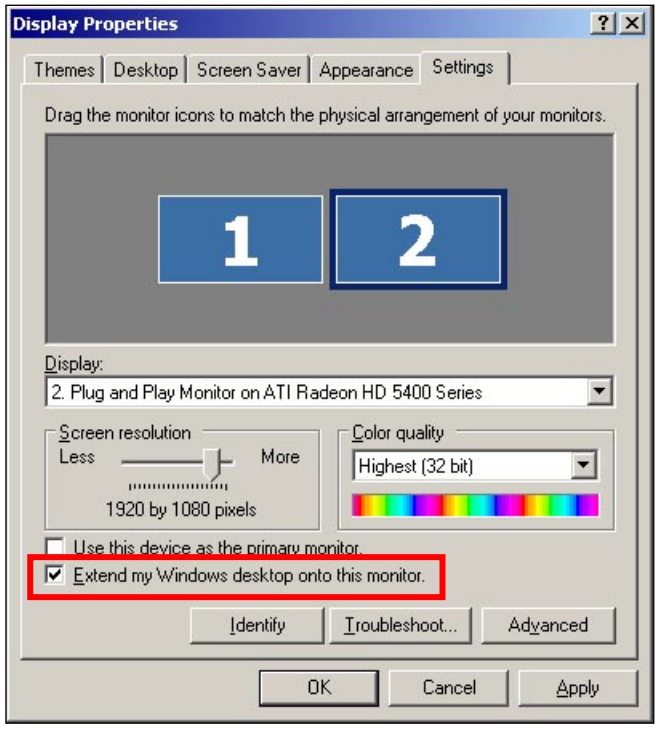
If the multiple monitors have different screen resolution, this software will be displayed with the smallest resolution.

It could be performed the following setting after connected multi-monitors:

1. Click the disabled monitor number (i.e. No.2 in the figure) and select “Extend my Windows desktop onto this monitor” option.

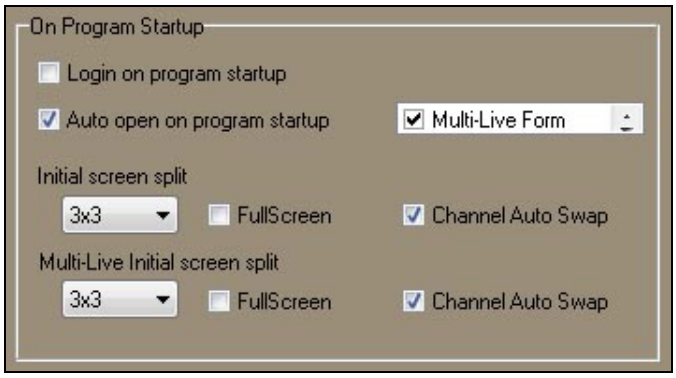
2. Drag and drop the monitor icon to correspond the actual monitor position.

3. Reboot the PC, and the dual monitor is activated.



13.2. Configure the Startup Options

You can configure the following options to determine how to present the software when it is started up.



Login on Program Startup

By enabling this option, this software will ask for login when it is startup.

Auto Open on Program Startup

By enabling this option and select the screen, this software will display the selected view screen when it is startup.

Initial Screen Split

This section including 3 options, configure these options to determine the display method for the first Live-View screen (the first monitor).

- **Initial Screen Split:** Select the split view window to display the first Live-View screen when the software is start up.
- **Full Screen:** By enabling this option, the first Live-View screen will be displayed in full screen mode when the software is start up.
- **Channel Auto Swap:** By enabling this option, when the software is start up, the first Live-View screen will automatically show the next pages of channels with the interval time. The interval time can be configured in Configure Screen Layout

Multi-Live Initial Screen Split

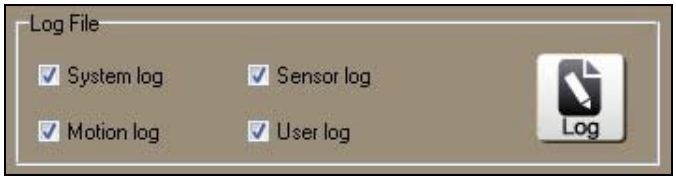
If you are using multiple monitors, configure these 3 options to determine the display method for the second Live-View screen (the second monitor).

- **Multi-Live Initial Screen Split:** Select the split view window to display the second Live-View screen when the software is start up.
- **Full Screen:** By enabling this option, the second Live-View screen will be displayed in full screen mode when the software is start up.
- **Channel Auto Swap:** By enabling this option, when the software is start up, the second Live-View screen will automatically show the next pages of channels with the interval time. The interval time can be configured in Configure Screen Layout

13.3. Other System Configurations

System Logs

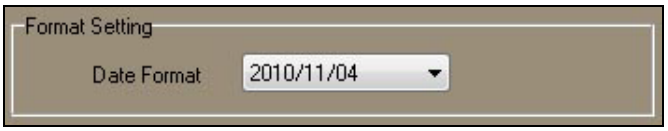
The log files record the status of the software, check the checkbox to enable the log files.



To read the log files, click the **[Log Files Reader]** button.

Date Format

There are 5 different date formats available, select the format from the pull-down list.



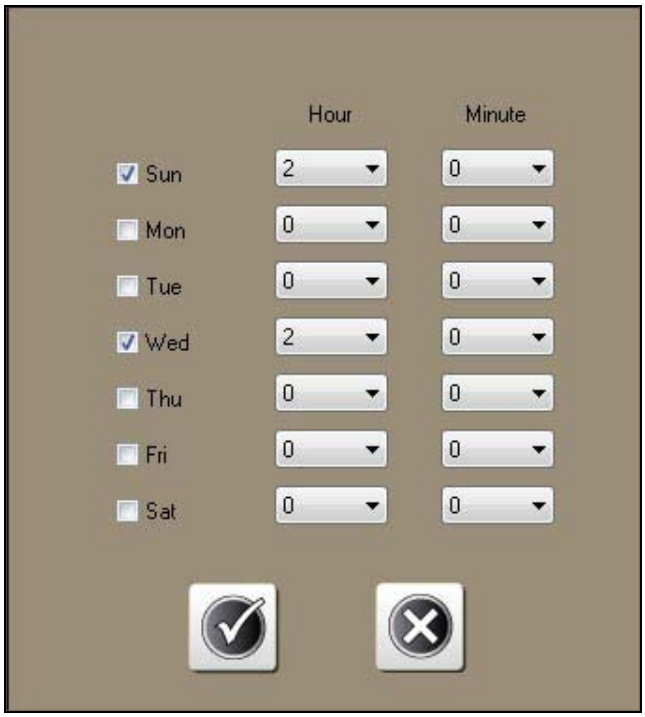
Keyboard Lock

By enabling this function, the application hotkey will be disabled (i.e. Ctrl+ESC, Alt+Tab, WIN and Alt+F4) to avoid illegal usage.

Schedule Auto Reboot

By enabling this function, the PC will be reboot at the scheduled date / time, this will keep the Windows system clean and stable.

1. Check the checkbox and then click **[Schedule Auto Reboot]** to enter Auto Reboot Schedule sub-page.



2. Select the weekday and the time to reboot the PC, and then click **[OK]** to complete the configuration.

3. With enable “Auto Run the Program on Windows Startup”, it will start the software after PC is reboot.

Auto Run the Program on Windows Startup

By enabling this function, this software will be started after Windows is start up.

To avoid the software stay at the login window when it is startup, please also disable the “Login on Program Startup” option under the “On Program Startup” section.

Overwrite When Disk Full

By enabling this function, when the storage path is full, the software will overwrite the earliest data.

The default configuration of the overwrite function is enabled.

Minimize Live Independently

If you are using multiple screen, when minimize the Live-View screen, all screens of the software will be minimized with default setting. After enable this function, when minimize the Live-View screen, the other screen will be keeping displayed.

About

Click

[About] to show the information of the software.

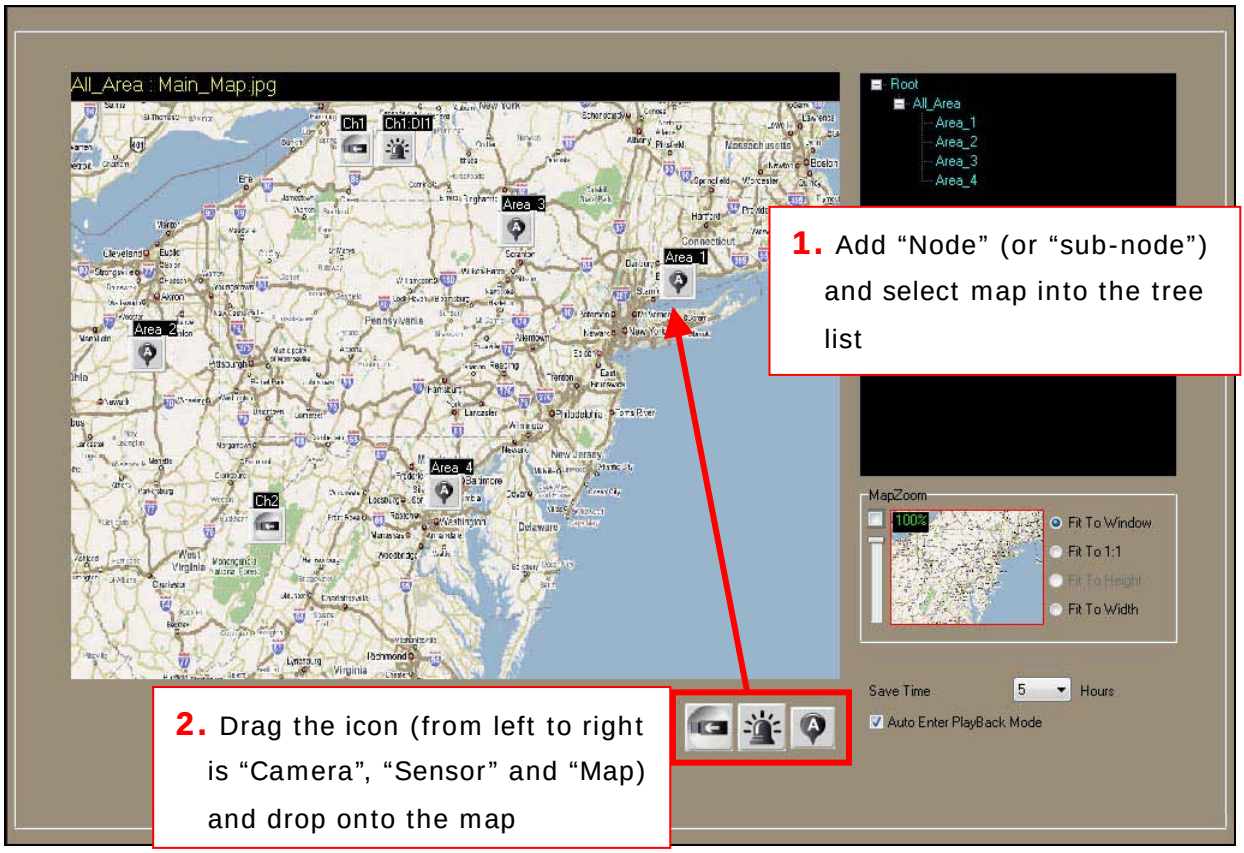
14. E-Map

14.1. Configure E-Map

1. Click

[Camera Setup] to enter the Camera Setup screen.

2. Click **[Map]** on the top to enter the “E-Map Setup” page.



3. Use mouse right-click on “Root” on the right side and select “Add Map”, select “Create new map”, and then click **[OK]**.

4. On “Map Image Path” field, select a picture (JPEG file) as the map. On “Map

Node Name" field, assign the name for this node (for example, assign "All_Area" as the name), and then click **[OK]** to create the node.

5. Now you can arrange the cameras and sensors onto the map. Just drag the camera or sensor icon to the location of map and drop it, and then select the channel and direction.

6. If this node contains few sub-nodes, you can drag the map icon to the location of map and drop it, and then select "Create new map" or "Link to: node name".

7. On "Map Image Path" line, select a picture (JPEG file) as the map. On "Node Name" line, assign the name for this node (for example, assign "Area_1" as the name), and then click **[OK]** to create this sub-node.

8. The E-Map is managed by a "Tree List", in the above figure on previous page, "All_Area" is the main-node, it contains few sub-nodes: "Area_1", "Area_2", "Area_3" and "Area-4". You can arrange different camera, sensor or map for each node.

9. To modify the node, right-click on the node from the tree list, and then select "Select Map", "Edit Name", "Add Map" or "Delete" from the pull-down list.

10.

Event Save Time: This value determines how long of the recorded motion or alarm event videos will be reserved for E-Map notification.

Except the time limitation, up to 5000 events can be reserved. The previous records will be over-write if exceeding 5000 records.

11.

Auto Enter Playback Mode: By enabling this function, when you are in E-Map Live-View screen, and the motion or alarm event is triggered, the event video will be played back automatically.

12. After complete the configuration, click

[Save] to save the settings.

13. Click

[Exit Setup] go back to Live-View screen.

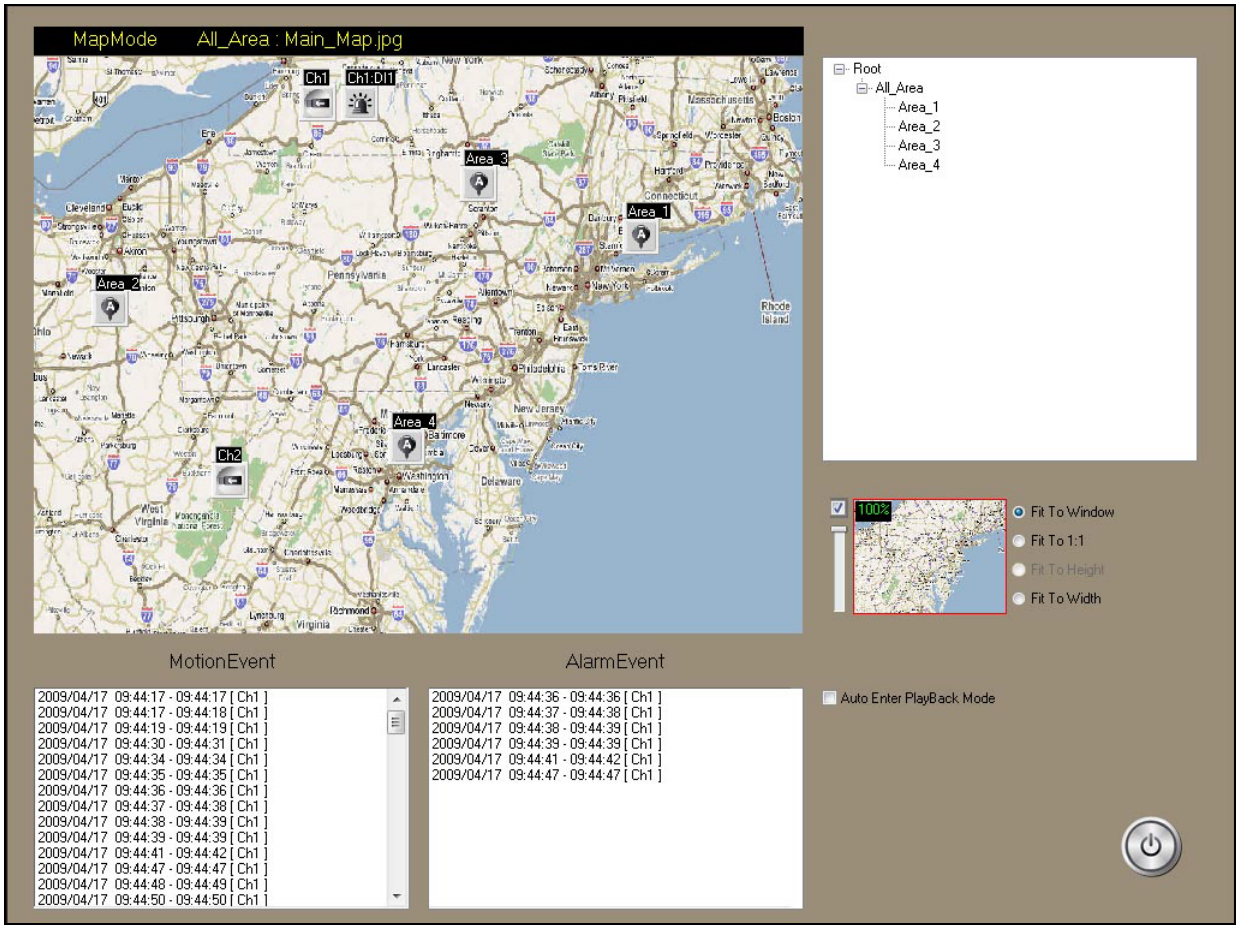
14.2. E-Map Live-View

Click

[E-Map] to enter the E-Map Live-View screen.

The E-Map Live-View screen provides the following functions:

- Monitor the cameras with multiple layers of nodes (maps).
- Select camera by location to see the live view video.
- Monitor the event status of cameras.
- Play back the event video automatically.



Select the Node (Map)

There are two methods to select the node (map) for monitoring:

- All nodes will be shown in a tree list on the right side. Select a node to

show the map and the cameras on it.

- If there is (Map) icon of sub-node on the map, double-click the icon will display the map of the sub-node immediately.

See the Live View Video of Camera

Double-click the camera icon on the map, the live video will be shown in the pop-up window.

Event Notification

All events (motion & alarm) will be listed on the bottom of the E-Map Live-View screen. To play the event video clip, just select the event from the list and play it. If “Auto Enter Playback Mode” is enabled, when the event is triggered, the event video clip will be played automatically.

If the channel is under “No Record” schedule, the software will not find the event video to play, and warning “No Record Data” message.

The event video clip is for preview only, to play the whole event video, go to Playback screen and play it.

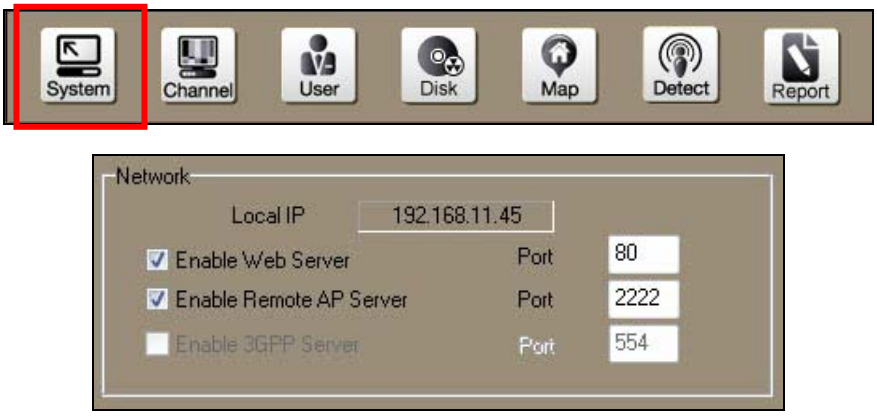
15. Remote Access

IPCamera Recorder provides 2 functions for remote access:

- Remotely live view the channels of the IPCamera Recorder server via IE browser.
- Remotely live view the specific channels of the IPCamera Recorder server via “RemoteLite” software.

15.1. Enable the Remote Access Function

Click **[System]** on the top to enter the “System Setup” page.



1. On the “Network” setting, check to enable “Enable Web Server” and “Enable Remote AP Server”.

2. Change the “Port” if necessary.

   If the remote client is through Internet, you have to configure the router or firewall and mapping the above ports to WAN side.

3. Click Save **[Save]** to save the settings.

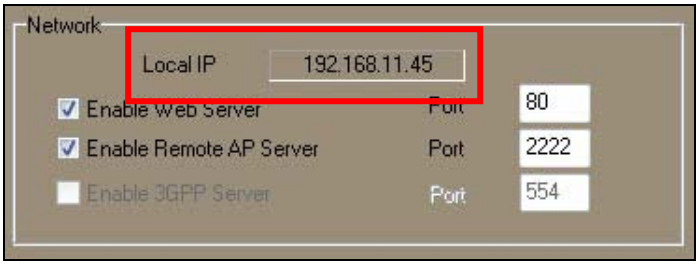
15.2. Live-View with IE Browser

Enable Web Server will allow IE browser to connect to recording software server to monitor real-time image. Please refer to instructions in the following.

The web server uses ActiveX technology to display the video, it only supports IE V7.0 or above, please do not use other browser.

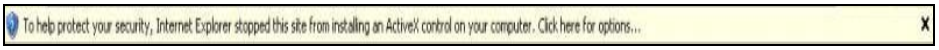
1. Within IE browser, input the address of the server, for example, http://192.168.11.45/

   In Windows Vista / Windows 7, please right-click on the shortcut of IE browser and select “Run as administrator” to start the IE browser.

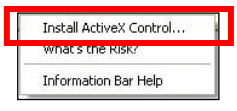


2. After successfully connected, the web page shown as the figure below. The upper-Left of the web page shows the Language options, select the language for the interface.

3. Click **[Online Monitoring]**, the “information bar” will pop-up at the first time entering the page.



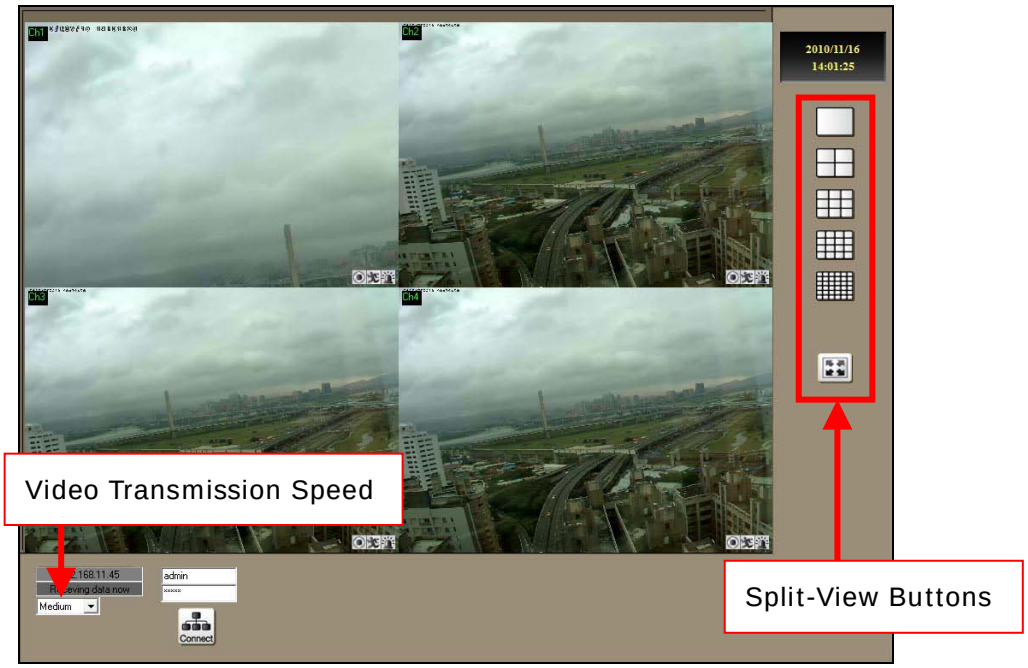
4. Within the pop-up drop down list, click “Install ActiveX Control…”. And then, click “Install” to perform the installation.



5. After install the ActiveX, the online monitoring page will be shown as below:

6. Input the correct User Name and Password, and then click

to connect with the live video.



7. During the connection, the user can adjust the image transmission speed.

8. Click the Split-View Buttons to change the channels for viewing:

	Connect to Server : Fill in the user name and password, and then click this button to connect to the server.
	1x1-Window View : Shows a video channel at once. Click this button again will show the next channel.
	2x2-Window View : Shows 4 video channels on the 2x2 split-window. Click this button again will show the next 4 video channels.
	3x3-Window View : Shows 9 video channels on the 3x3 split-window. Click this button again will show the next 9 video channels.
	4x4-Window View : Shows 16 video channels on the 4x4 split-window. Click this button again will show the next 16 video channels.
	6x6-Window View : Shows 36 video channels on the 6x6 split-window. Click this button again will show the next 36 video channels.
Double Click	**Enlarge Channel :** Double-click the channel can enlarge it. Double-click it again to resume the split-view.
	Full Screen : Full screen mode. To exit the full screen mode, right-click the mouse on the video.

15.3. Live-View with “RemoteLite”

RemoteLite is remote software which is different from IPCamera Recorder. RemoteLite is designed for live-viewing only. It does not allow user to playback or to change any setting.

The RemoteLite software is not installed within the IPCamera Recorder; instead, it is exported from the IPCamera Recorder.

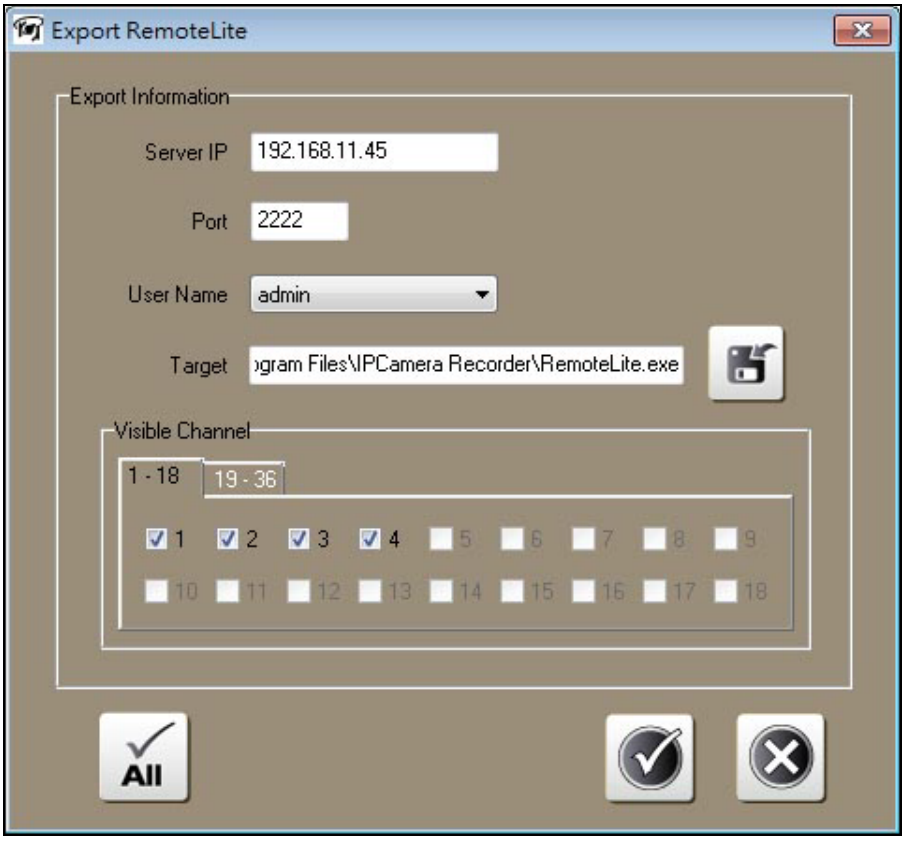
The IPCamera Recorder server can select specific channels for viewing by the remote client. The administrator of the IPCamera Recorder server can configure and publish different RemoteLite software to match different remote client’s demand.

Configure and Publish RemoteLite Software

Click **[System]** on the top to enter the “System Setup” page.

1. Click **[Export RemoteLite]** to open RemoteLite setup page.

2. On Export RemoteLite page, configure the following:
   - **Sever IP:** The IP address of the IPCamera Recorder server.
   - **Port:** The access port of the IPCamera Recorder server.
   - **User Name:** The available names are pre-defined in the Password Setup page. User should have the authority to get the access of Network.
   - **Visible Channel:** You can select which channel is allowed for viewing with RemoteLite software (up to 4 channels). For instance, if you only select channel 1 and channel 2 for viewing, the other channels will be hidden and displayed as “Private Channel” on the RemoteLite view screen.



3. After complete above setting, click **[Open File]** and select the folder to save the RemoteLite software, and then click **[Export]** to export the RemoteLite software.

4. Send the exported RemoteLite software to the remote client for use.

Live-View with RemoteLite Software

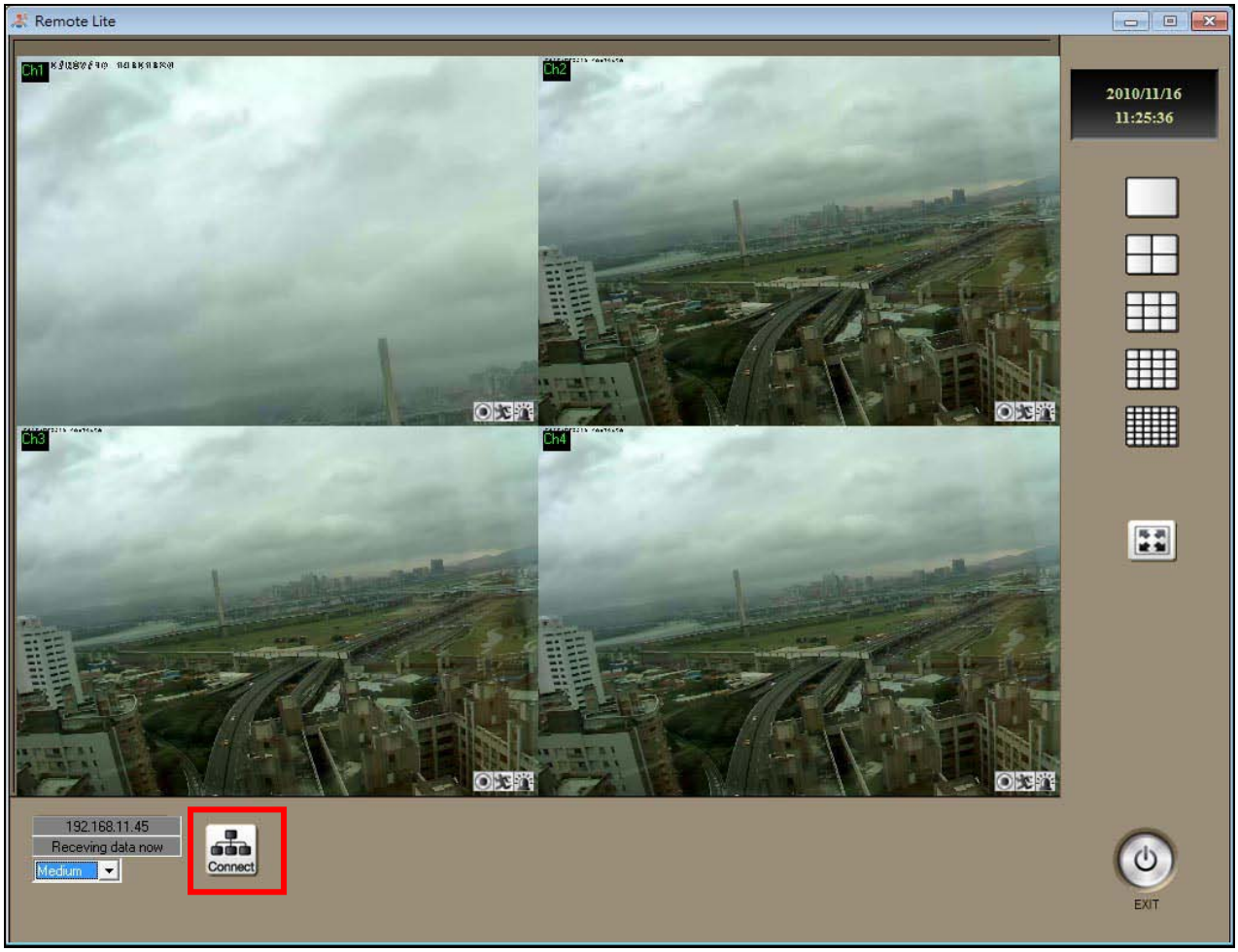
After the remote client receives the RemoteLite software, the client can use this software to see the live video from the IPCamera Recorder server.

1. Double-click on “RemoteLite.exe” to launch the software.

In Windows Vista / Windows 7, please right-click on the icon of the software and select “Run as administrator” to launch the software.

2. Click

, the software will connect to the server and display the live video.



3. During the connection, the user can adjust the image transmission speed.

4. Click the Split-View Buttons to change the channels for viewing:

	Connect to Server : Click this button to connect to the server.
	1x1-Window View : Shows a video channel at once. Click this button again will show the next channel.
	2x2-Window View : Shows 4 video channels on the 2x2 split-window. Click this button again will show the next 4 video

	channels.
	3x3-Window View : Shows 9 video channels on the 3x3 split-window. Click this button again will show the next 9 video channels.
	4x4-Window View : Shows 16 video channels on the 4x4 split-window. Click this button again will show the next 16 video channels.
	6x6-Window View : Shows 36 video channels on the 6x6 split-window. Click this button again will show the next 36 video channels.
Double Click	**Enlarge Channel :** Double-click the channel can enlarge it. Double-click it again to resume the split-view.
	Full Screen : Full screen mode. To exit the full screen mode, right-click the mouse on the video.
	Exit : Close and exit the software.

16. Configure System Environment

The “Config Tool” software provides the following functions:

- An easy way to search, add and manage multiple cameras and video servers. Please refer to Add Cameras and Video Servers → Add/Manage Multiple Devices in Configure Tool for the usage.
- Configure more system parameters depending on the Windows environment.
- Backup and restore the settings of the recording software.

To run the “Configure Tool”, close and exit the IPCamera Recorder first, then double-click the desktop icon - “Configure Tool”. Or, click “Start”→ “All Programs” → “IPCamera Recorder” → “Tools”→ “Configure tool”.

In Windows 7 / Vista, please right-click on the desktop icon or the short-cut in Start Menu, then select “Run as administrator” to start the program.

“Configure Tool” and IPCamera Recorder cannot run simultaneously. Please close and exit IPCamera Recorder before launch “Configure Tool”.

After configure the settings, remember to click **Save** button on the bottom of the page, otherwise the configuration will be ignored.

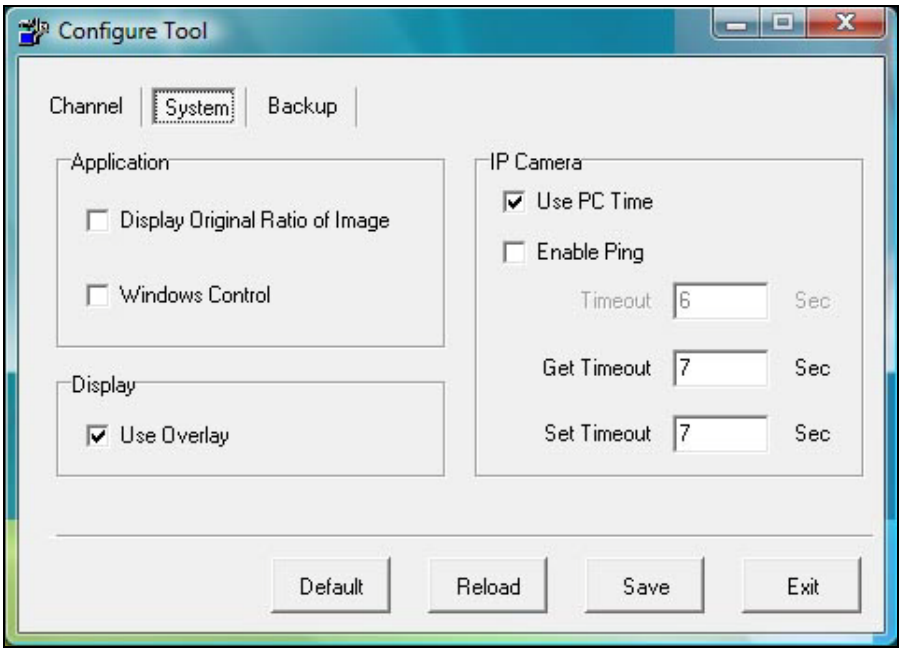
16.1. Channel Configuration

After “Configure Tool” is executed, click **Channel** tab on the top of the software to enter the “Channel Configuration” page.

Please refer to Add Cameras and Video Servers → Add/Manage Multiple Devices in Configure Tool for the usage.

16.2. System Configuration

Click **System** tab on the top of the software to enter the “System Configuration” page.



Display Original Ratio of Image

By enabling this function, the video of all channels will be displayed with the original ratio.

Windows Control

When this function is enabled, the recording software will be executed in a

1024x768 window. If the desktop resolution larger than 1024x768, you can drag this window to proper position.

Use Overlay

By enabling this function, the recording software will use the hardware accelerator of display card. This will reduce the CPU loading and enhance the performance.

Some display cards have incompatible issue with Overlay function. If the video on Live-View screen is abnormal, please disable this function.

Use PC Time

By enabling this function, system will record the video transferring time based on the PC.

If this function is disabled, the recording time of the cameras may different from the PC time.

Enable Ping

Some network device will disable the “Ping” function. To connect network cameras or video servers which are protected by the firewall, please disable this function to make sure it can connect correctly.

16.3. Backup and Restore Configurations

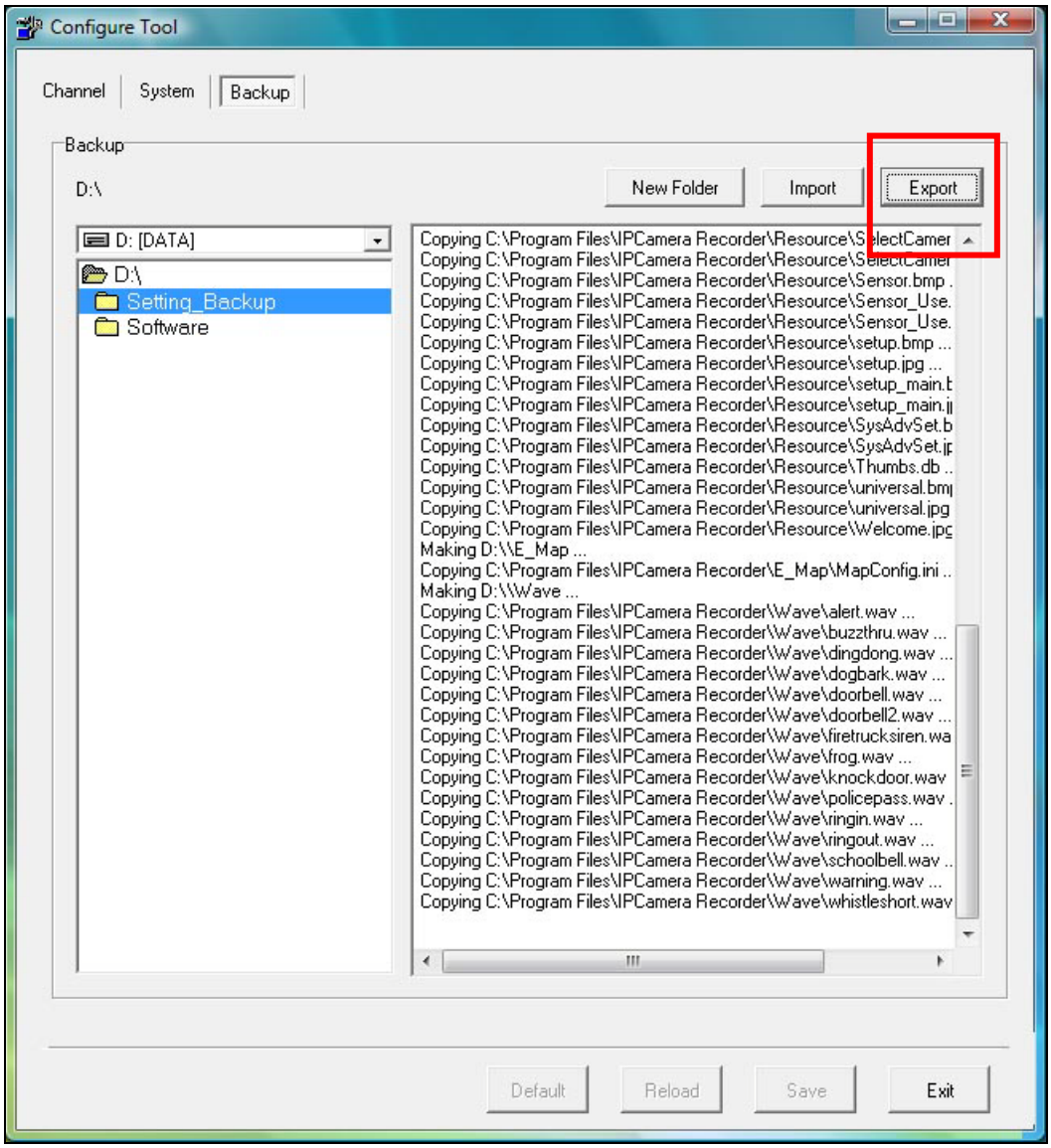
Click **Backup** tab on the top of “Config Tool” to enter the “Backup Configuration” page.

This page provides the following functions:

- Export to backup the settings of the recording software.
- Import to restore the settings of the recording software.

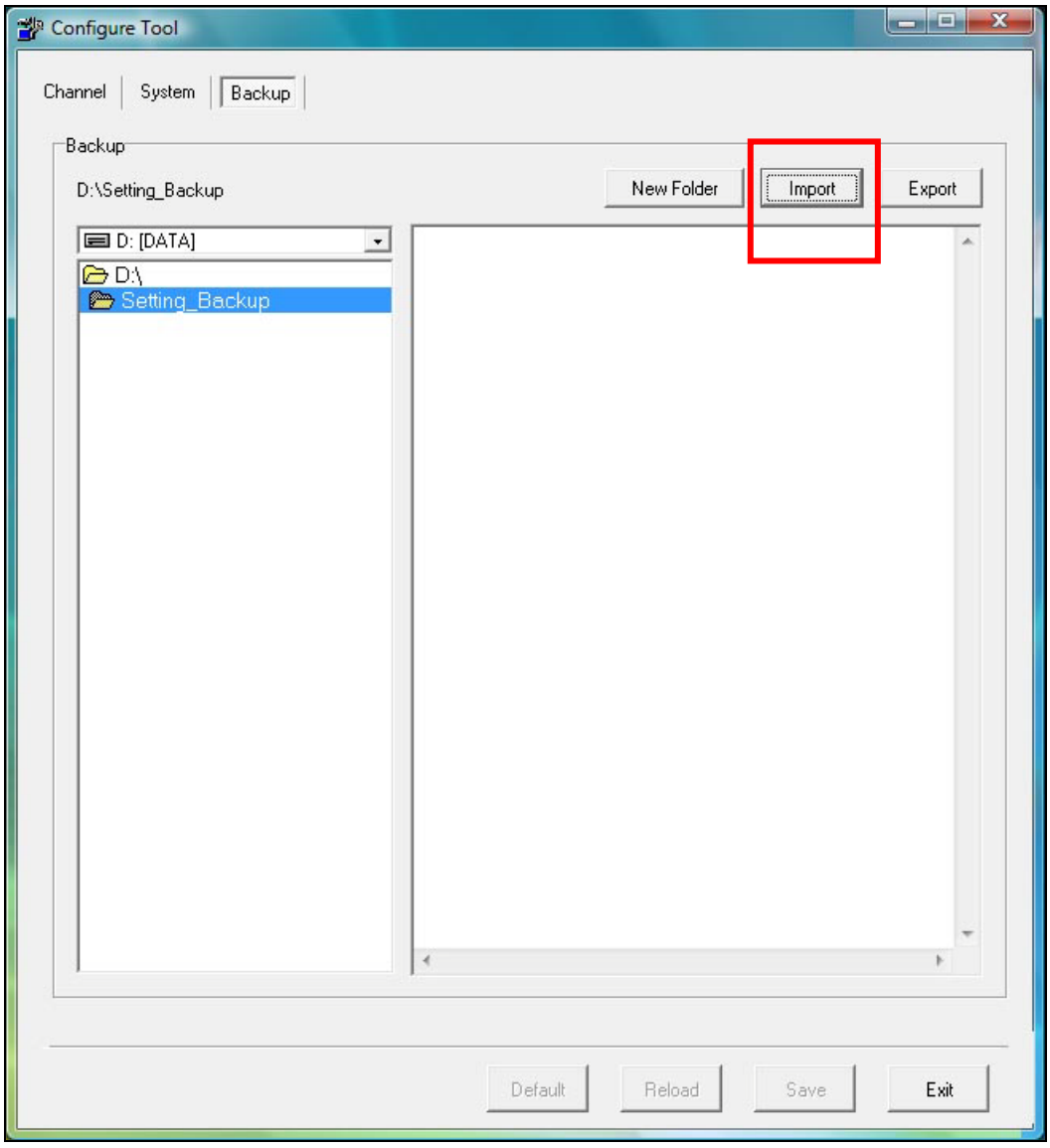
Export to Backup the Settings

Select the folder to store the settings, and then click **Export**.



Import to Restore the Settings

Select the folder which contains the backup settings, and then click **Import**. Then, click **Save** button.



17. Product Specifications

Live View	
Channel	36 Channels
Monitoring Split Window	1x1, 2x2, 3x3, 4x3, 4x4, 5x4, 5x5, 6x5, 6x6 View Window
Software UI Resolution	Apply for all desktop resolution, supports from 1024x768 up to 1920x1200
Multiple Monitor	Yes, Live View, Second Live View, Playback, E-MAP
Channel Rotation	Auto and Manual
Full Screen	Yes
Two-way Audio	Yes, Chatting with single channel and Broadcast to all
PTZ Control	Yes, via PTZ control panel. Provides Pan, Tilt, Zoom, Focus, Iris, Pan/Tilt speed, Go preset point, Auto patrol, Send “Custom PTZ Commands”.
Digital I/O Control	Yes, can activate alarm devices (connected to the camera) such as siren or alarm, It supports ON and OFF switch mode and Delay switch mode, up to 4 I/O Control.
Digital Zoom	Yes, via digital zoom control panel
Channel Status	Yes
E-Map View	Multiple-layer of maps, Live-view and Event notification
Recording	
Recording Mode	Schedule (Weekly and Specific Time), Motion Trigger, Digital Input Trigger, Motion or Digital Input Trigger, Manually

Recording Schedule	Yes, configurable by each channel
Recording Audio	Yes
Storage	Supports multiple storage, Overwrite once storage is full
Channel Setup	
Channel Management	Add / manage cameras and video server
View and Record Resolutions	Depends on the camera output resolution, up to 1920 x 1080
Video Quality	Best, High, Standard, Medium, Low
Hardware Motion Detection Configuration	Yes, configurable by each channel
Digital I/O Configuration	Yes, configurable by each channel
PTZ Configuration	Yes, configurable by each channel. Provide: Select PTZ protocol, Set preset point, User defined “Custom PTZ Commands”
Channel Type	Normal channel, Attached channel
Advanced Setup	Yes, configure Tag, Time/Date and Status location of shown channel and the font
Video Playback	
Video Search	Yes, Search by time or Event list
Video Export	H.264 or MPEG-4 video clip (AVI format), Snapshot (JPG format)
Video Simultaneous Playback	Yes, up to 4 channels
Video Forward / Backward	1x, 2x, 4x, 8x, 16x, 32x (depending on hardware or channel)
Digital Zoom	Yes, via digital zoom control panel
Event System	

Event Trigger from Camera	Hardware Motion Detection (detected by camera), Digital Input (connected to camera)
E-Mail Warning	Send E-mail with event attachment
On Screen Warning Method	Status Indicator, Warning message, Enlarge screen for viewing single channel, Play audio
System Setup	
Multi-Screen Configuration	Assign Live View, Second Live View, Playback, E-MAP for different monitor
Log Management	System log, Motion trigger, Digital Input trigger, User log
Date Format	Yes, 5 Date format selectable
Channel Layout Configuration	Yes, arrange channel layout by administrator
Auto Reboot Schedule	Yes
Auto Startup the Software	Yes
E-Mail Configuration	Yes, supports multiple E-Mail receivers
Lock up Widows System Keys	Yes
Security	
Account Authority	Yes, User account, password and Group management
Remote Access and Control	
Web Server	Remote view via IE browser
Remote View Server	Remote view via RemoteLite software
Configure Tool	
Channel Management	Add / manage multiple cameras and video server
Auto Search Camera	Yes
ON/OFF Time Synchronization	Yes, system will record the video transferring time based on the PC

ON/OFF Overlay	Enable/ disable hardware accelerator of display card
Backup Import / Export	Yes, Import / Export the settings of software