



# **NVRP4**

## **4CH Network Video Recorders**



### ***User's Manual***

## FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Federal Communications Commission Statement

**NOTE-** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/television technician for help.

## CE NOTICE

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EC.

**Warning** - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

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The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

## Battery Safety Information

- Store the batteries in a cool dry place.
- Do not dispose of used batteries in domestic waste. Dispose of batteries at special collection points or return to point of sale if applies.
- Remove the batteries during long periods of non-use. Always remove exhausted batteries from the remote control. Battery leakage and corrosion can damage this remote control, dispose of batteries safely.
- Do not mix old and new batteries.
- Do not mix different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire. The batteries may explode or leak.
- Never short circuit the battery terminals.

**WARNING**

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

**CAUTION**

IF THERE IS ANY DAMAGE, SHORTAGE OR INAPPROPRIATE ITEM IN THE PACKAGE, PLEASE CONTACT YOUR LOCAL DEALER. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION

**NOTICE**

- INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.
- THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCT ONLY.

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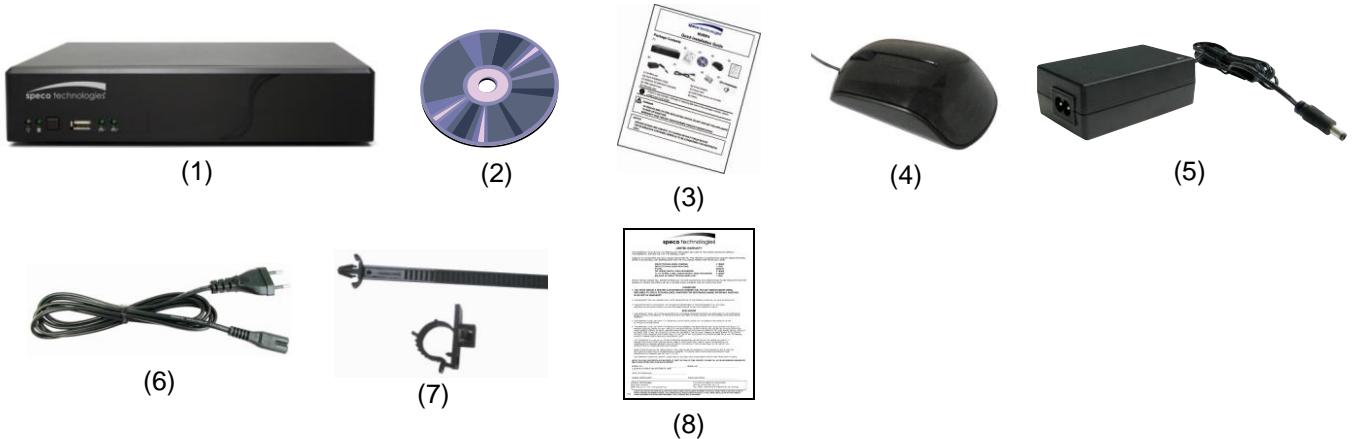
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# Chapter 1 Introduction

NVRP4 brings you the new version of pure NVR. With Compact size, it provides 4 channel video and audio inputs. Shattering marketing limitation by supporting full range of IP camera from all major manufactures worldwide and accepting H.264, MPEG4 and MJPEG video streaming format.

## 1.1 Package Content



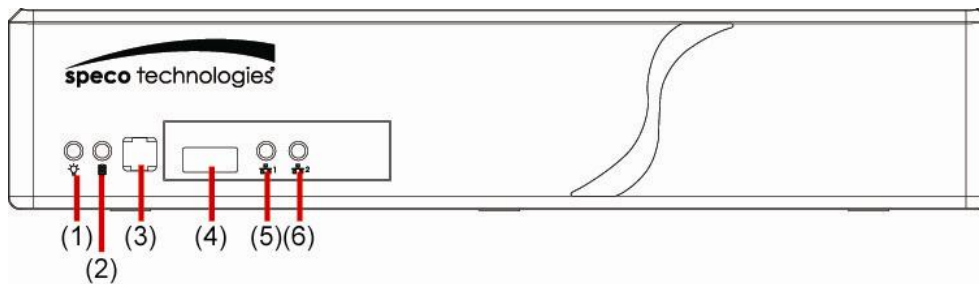
- ☐ (1) NVRP4 unit
- ☐ (2) Software CD (User Manual included)
- ☐ (3) Quick User Guide
- ☐ (4) USB optical mouse
- ☐ (5) Power Cord
- ☐ (6) Power Adapter
- ☐ (7) Clamp(see [Chapter 1.4.2.1](#) for installation)
- ☐ (8) Warranty card





If there is any damage, shortage or inappropriate item in the package contents, please contact your local dealer

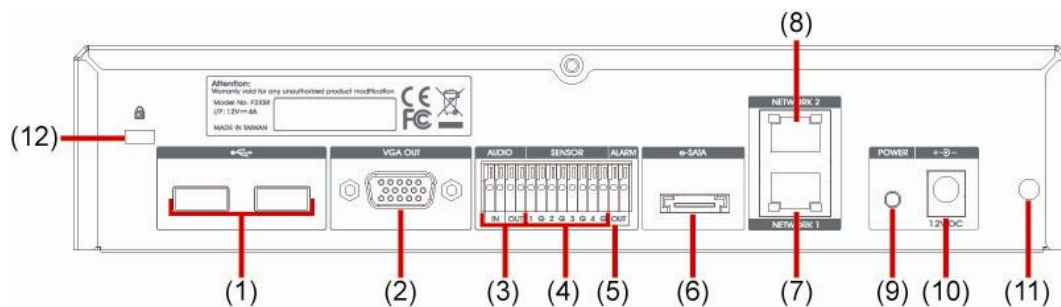
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## 1.2 Front Panel



Name	Function
(1) NVR Power LED 	Light when the unit is power on
(2) HDD LED 	Indicate the hard disk running state. Light when the HDD is running (Read/Write)
(3) IR Sensor	Receive signal from the remote control to operate the unit
(4) USB 2.0 Port	For flash drive/DVD-ROM connection
(5) Network 1 Indicator	Indicate the status of network 1(Port LAN 1)
(6) Network 2 Indicator	Indicate the status of network 2(Port LAN 2)

## 1.3 Back Panel



Name	Function
(1) 2* USB 2.0 ports	For USB keyboard, mouse, and other USB devices connection.
(2) VGA Out	Output the video signal to a CRT or LCD monitor
(3) Audio In/Out	<ul style="list-style-type: none"> <li><b>Audio In:</b> Input the audio signal from audio input device such as microphone</li> <li><b>Audio Out:</b> Output the audio signal to a audio out device such as speaker</li> </ul>
 The audio input/output device has its own power supply is necessary.	
(4) Sensor In	Support 4 sensor devices
(5) Alarm Out	Support 1 relay device (Relay: 1A @ 125V AC/30V DC)
(6) e-SATA port	For connecting external RAID
(7) Gigabit LAN 1 port	<ul style="list-style-type: none"> <li>LAN connection only but default assign as a DHCP service port. User also can connect the IP camera through the Ethernet cable.</li> <li>LAN 1 supports Static and DHCP mode.</li> </ul>
(8) Gigabit LAN 2 port	<ul style="list-style-type: none"> <li>To connect the switch of your network for internet connection, remote accessing, and connection of IP camera.</li> <li>LAN 2 support Static, DHCP, and PPPOE mode.</li> </ul>
(9) Power button	Press it to power on the NVR unit.
 To shutdown the fan, please disconnect the power cord cable from NVR unit.	
(10) 12V DC	Power cable connection

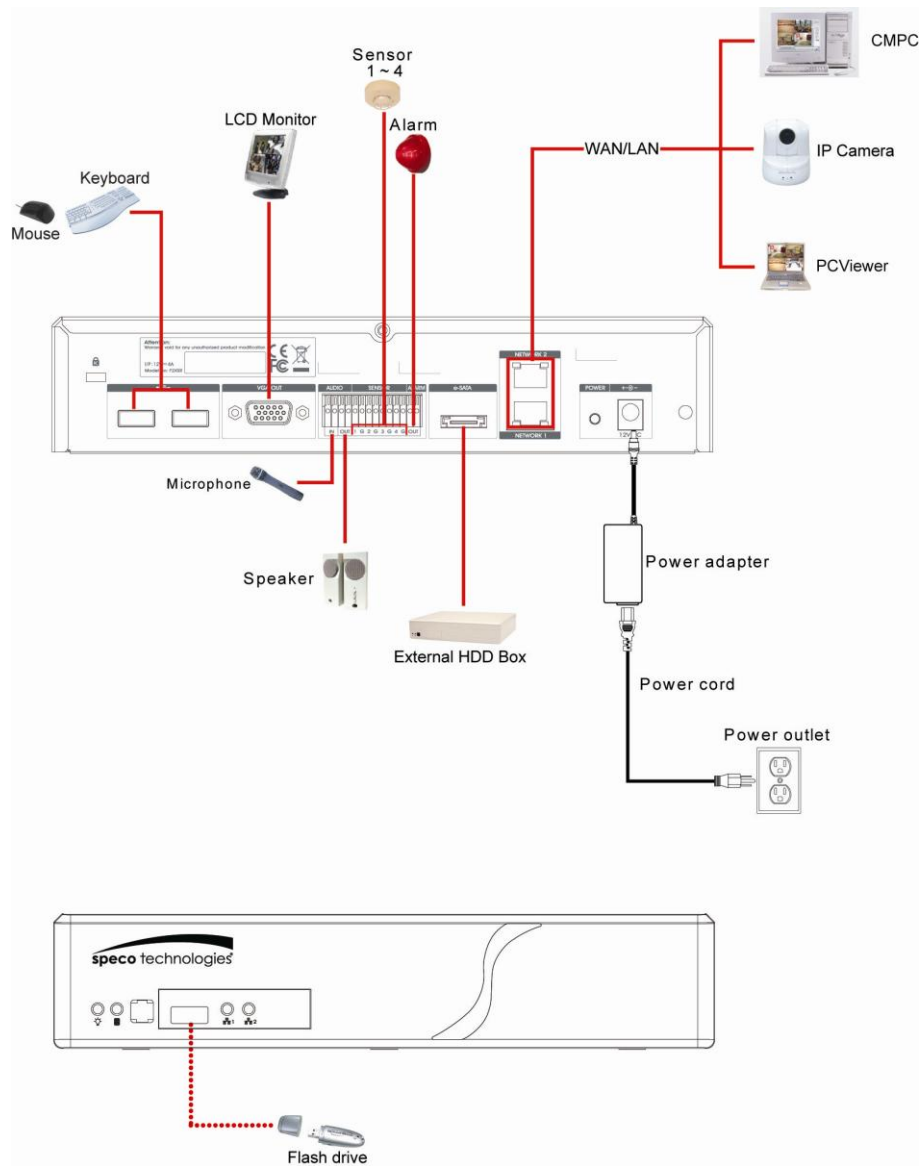
Name	Function
(11) Clamp hole	For clamp plug-in to clamp the power cord(see <a href="#">Chapter 1.4.1.1</a> )
(12)Lock hole	For locking the NVR unit to avoid NVR unit been taken.

## 1.4 Setting Up the NVR Unit

### 1.4.1 Connecting Devices

The back panel of the NVR unit, user can connect the 4 sensor devices, 1 alarm device, audio input/output device and an external HDD storage device. Through the two Gigabit LAN ports can balance the network bandwidth for IP camera connection and remote accessing. The USB ports can connect the mouse and keyboard for more easily to operate NVR server.

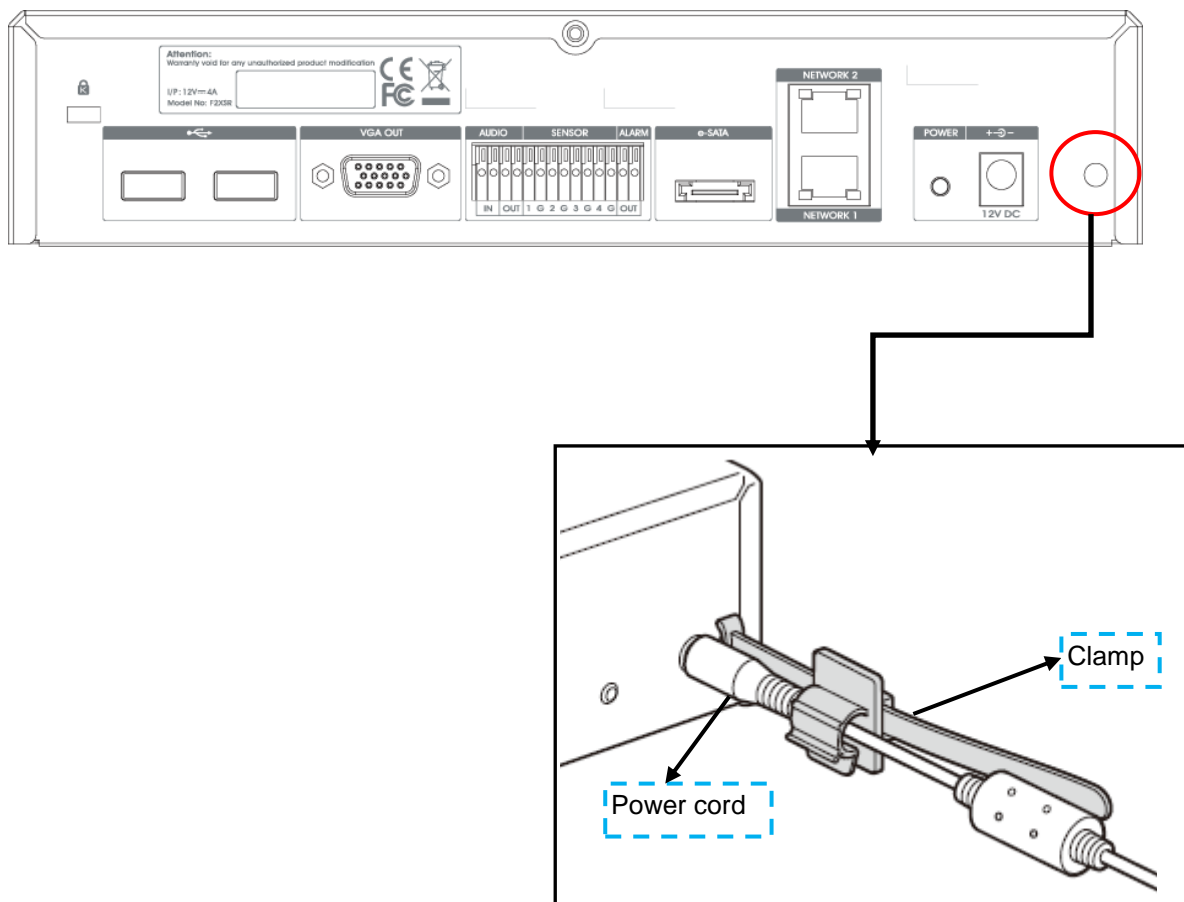
Follow the illustration below to make the connection:



- Both two LAN ports can be connecting with IP camera and remote accessing.
- To complete shutdown (power off NVR unit and fan) the NVR unit, please disconnect the power cord cable from NVR unit.

### 1.4.1.1 Clamping the power cord

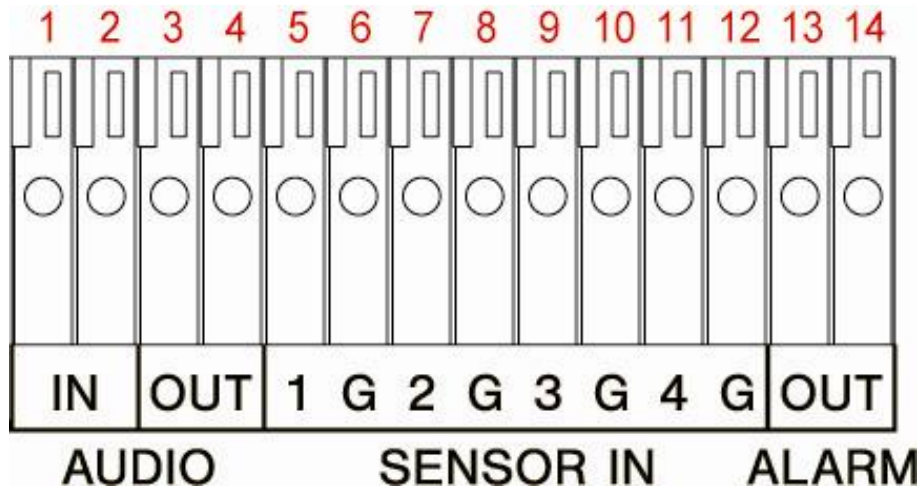
User can use the clamp that included in package content to clamp the power cord that prevents external force to slide the power cord.



## 1.4.2 Connecting the Audio, Sensor and Relay Device

The Sensor, Alarm, and audio port enable you to connect 4 sensor inputs, 1 relay outputs, and 1 audio in and 1 audio out device. Just connect the external sensor, relay, and audio in/out device pin directly to the pinhole.

Check the table below and locate which pinhole is assigned to sensor input, relay output, and audio in/out.



The signal from the sensor (i.e., infrared sensors, smoke detectors, proximity sensors, door sensors, etc.) is being transmitted to the unit and this triggers the system to respond and send signal to relay device (i.e., alarm, telephone etc).

### Audio in and out pinhole:

Pin #	Definition
1	Audio input signal
2	Audio Ground signal
3	Audio output signal
4	Audio Ground signal

### Sensor and Alarm pinhole:

Pin #	Definition
5	Sensor 1 signal
6	Sensor 1 Ground signal
7	Sensor 2 signal
8	Sensor 2 Ground signal
9	Sensor 3 signal
10	Sensor 3 Ground signal
11	Sensor 4 signal
12	Sensor 4 Ground signal
13	Relay signal
14	Relay signal



# Chapter 2 Operating the NVR unit

## 2.1 First Time Using the NVR Unit

1. Connect the mouse to the USB port located at front panel of the NVR unit.
2. Using the mouse and virtual keyboard (see also [Chapter 2.1.1](#)) to operate the NVR system.
3. Power on the NVR unit.
4. For security purpose, the NVR system would require you to enter User ID and Password before it can be accessed. (If this is the first time, enter the default ID [admin] and password [admin]).




Preview UI

5. Formatting the hard disk.
  - a. Click **Setup** and enter the password
  - b. Click **System** → **Add**
  - c. Select the hard disk from device list and select **Format type**
  - d. Click **Format** button to start formatting
  - e. When formatting is done, click **OK**.
6. Setup the date and time in order to have correct recording time and date.
  - a. Click **Setup** and enter the password
  - b. In **Time** section, click **Setting** button of **System Time**.
  - c. Select the date and adjust the time, and then, click **OK**.
7. Connect the IP camera.
  - a. Click **Setup** → **Camera**
  - b. Select camera channel and type of camera – IP Camera
  - c. And then, enable the camera
  - d. Click **IP Setting**
  - e. Enable **Protocol**, and then, select **protocol**, **mode**, **video format**, and **channel** of IP camera.
  - f. Enter **IP address** or **URL** of IP camera.
  - g. Enter **ID** and **password** if IP camera's access authority is required.
  - h. Click **OK**.

- i. To connect another IP camera, follow the above steps.

### 2.1.1 Using the Virtual Keyboard

User can use the Virtual Keyboard when the keyboard is not available. Just click  or right-click screen to call out the virtual keyboard. For uppercase, click **Caps** button. To exit, click **Esc**.



## 2.2 Familiarizing Yourself with the Buttons in Preview Mode



Name	Function
(1) Exit	Call up the Logout dialog box.
<div data-bbox="440 1079 973 1258" data-label="Image"> </div> <p>In the logout dialog box, you may do the following:</p> <ul style="list-style-type: none"> <li>- <b>Reboot:</b> To restart the NVR system. It is required to enter the password</li> <li>- <b>Power OFF:</b> To shutdown the NVR system.</li> <li>- <b>Login:</b> Using different ID to login to NVR system.</li> <li>- <b>Cancel:</b> To close the logout dialog.</li> </ul>	
(2) Split Screen Mode	Select from 2 different split screen types to view all the cameras or one camera on a single screen. It also allows you to switch and view different camera number. When user is in single screen mode, user can <b>right-click</b> and <b>drag</b> a square on the area you want to enlarge the view. Right-click on the screen again will return to the normal view.
(3) Record	Start/stop video recording.
(4) EMap	Display the map in each area, and the location of camera/ sensor/ relay and the warning (see also <a href="#">Chapter 2.2.1</a> ).
(5) Network	Enable/disable remote system access. This feature allows you to access NVR server from a remote location via internet connection. The default is disabled.
(6) Setup	Configure the system settings. (see also <a href="#">Chapter 3</a> )
(7) PTZ	To call out the PTZ control panel(see also <a href="#">Chapter 2.2.2</a> )
(8) Preview	Switch to Preview mode. This allows you to view live camera display.
(9) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also <a href="#">Chapter 2.3</a> ).
(10) Status bar	Display the recoding date, time and hard disk space of NVR unit.



Name	Function
(11) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(12) Snapshot	Capture and save the screen shot in *.jpg format.
(13) Event log	Show the record of activities that take place in the system. (see also <a href="#">Chapter 2.2.3</a> )
(14) AutoScan	Start/Stop video screen cycle switch.
(15) Full screen	View in full screen. To return, press the right button of the mouse or <b>ESC</b> on the keyboard or click the arrow icon.

When you switch to full screen in multiple-screen mode, **Left** click to toggle to only display one of the video in the multiple-screen mode or all.

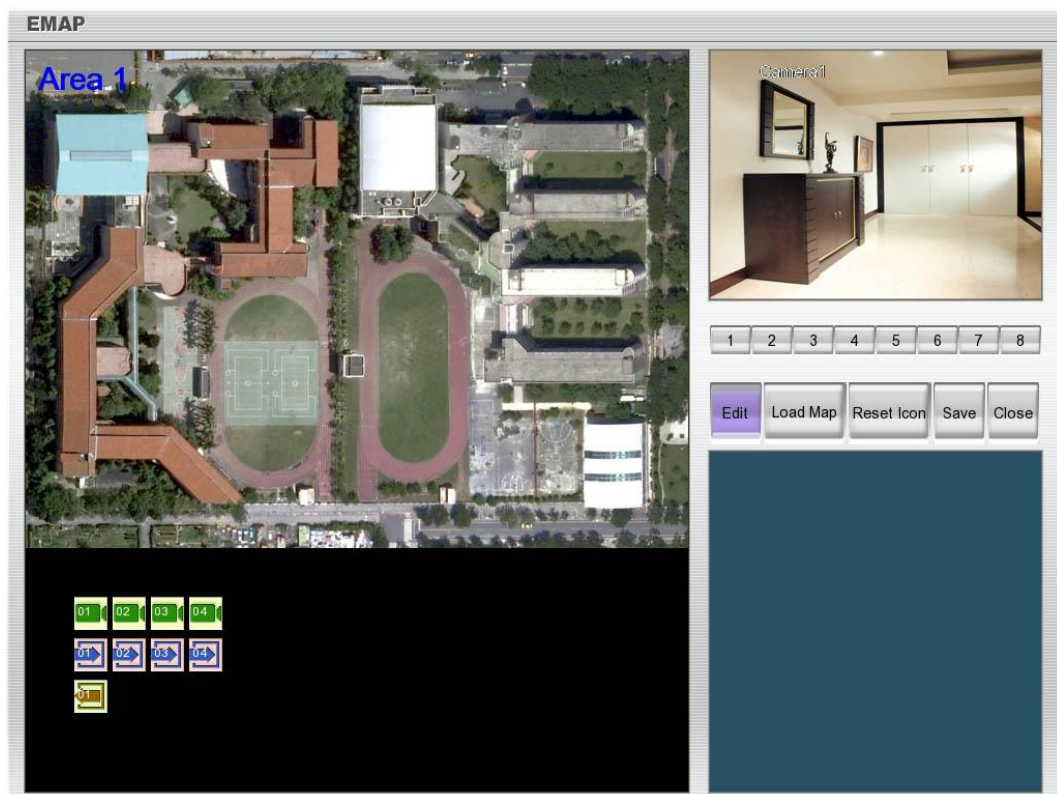
(16) Alarm	Alert and display warning information.
(17) Virtual Keyboard	If the keyboard is not available, you may use the virtual keyboard.

## 2.2.1 Setting Up and Using the Emap

E-Map can hold up to 8 maps in \*.jpg format. You may locate the camera, sensor and relay on the map.

### 2.2.1.1 To Set Up the Emap

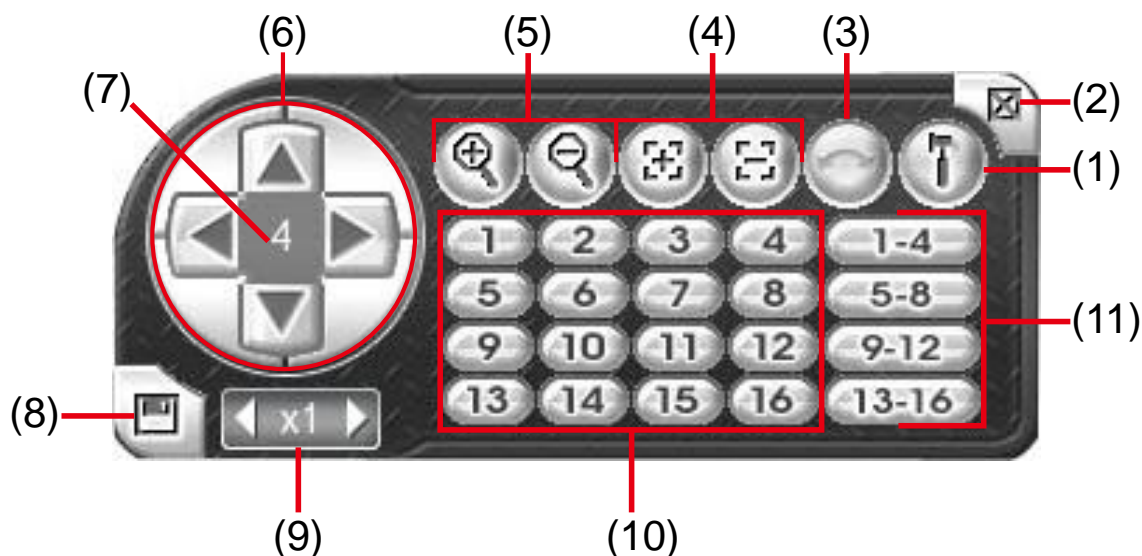
1. Click **Emap**.
2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.
3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
4. When the inserted map appears on the Emap screen, click **Edit**. You may now drag the camera, sensor, and relay icons to its place on the map. Icons on the map can be relocated anywhere. If you are going to locate the icon on the map to other area, you need to drag the icon to the black pane at the bottom of the Emap screen and then switch to the area on where you want to locate the icon. To bring all the icons back to the black pane at the bottom of the Emap screen, click **Reset Icon**.
5. When you are done, click **Save** button to save the new setting. To exit Emap screen, click **Close**.



### 2.2.1.2 To Use the Emap

1. Click **E-map**.
2. In the Emap screen, click the camera icon to switch on the area where the camera is located on the map and to display the video at the upper right corner of the Emap screen. At the lower right corner of the Emap screen, it lists all the warning message.
3. To view different Emap, click Emap number button (1 ~ 8).
4. Click **Close** to exit Emap screen.

## 2.2.2 Familiarizing Yourself with the Buttons in PTZ Camera Controller



Name	Function
(1) Setup	Configure PTZ cameras.(see also <a href="#">Chapter 2.2.2.1</a> )
(2) Close	Exit PTZ camera controller.
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the image.
(6) Direction buttons	Adjust and position the focal point of the PTZ camera.
(7) Camera ID pane	Display the PTZ camera number that is being operated.
(8) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(9) Camera lens speed controller	Adjust the moving speed of the PTZ camera lens.
(10) Camera preset position number	Move the PTZ camera to the preset point.
(11) Group AutoPan	Select to automatically operate PTZ camera in group.

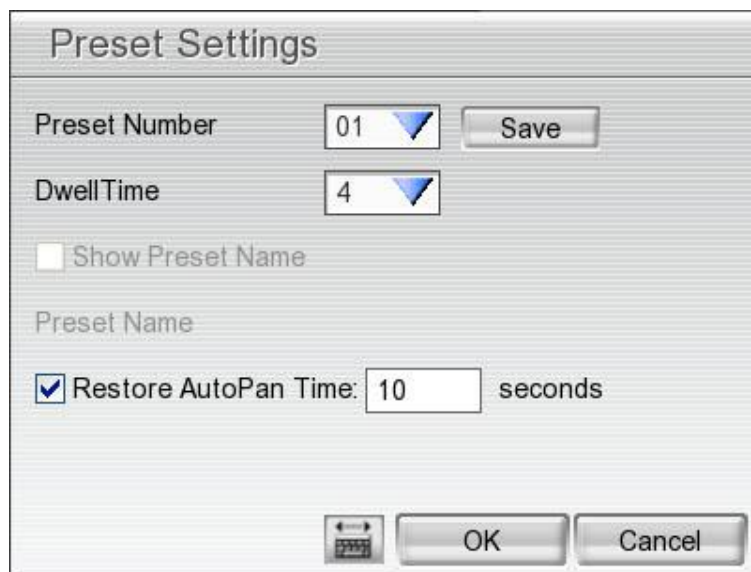
### 2.2.2.1 Setup the IP PTZ Camera

When IP PTZ camera has successful connected with the NVR system, user can use the PTZ function directly without any configuration. To make connection of IP PTZ camera, please refer to [Chapter 3.2.1](#).

In PTZ camera panel, user can setup the preset position of the camera. The number of preset positions are depend on the IP PTZ camera that user has connected. For example: A brand of IP PTZ camera only supports 4 preset positions. Therefore, user only can setup 4 preset positions on the NVR system. User can refer to the user's manual of the IP PTZ camera to make sure the number of the preset positions has supported.

Please follow the below steps to configure the preset position.

1. On Preview UI, select the channel that is an IP PTZ camera connection.
2. Click **PTZ** button from Preview UI and PTZ control panel will show up.
3. In the PTZ control panel, using the arrow button to adjust the position of IP PTZ camera.
4. And then, click **Setup** (see also [Chapter 2.2.2](#)). The Preset Settings window will show.

The image shows a 'Preset Settings' dialog box. It has a title bar with the text 'Preset Settings'. Inside the dialog, there are several fields and controls: 'Preset Number' with a dropdown menu showing '01' and a 'Save' button; 'DwellTime' with a dropdown menu showing '4'; a checkbox labeled 'Show Preset Name' which is currently unchecked; a text field labeled 'Preset Name' which is empty; a checkbox labeled 'Restore AutoPan Time:' which is checked, followed by a text field showing '10' and the word 'seconds'; and at the bottom, there is a keyboard icon, an 'OK' button, and a 'Cancel' button.

5. Select the **Preset Number** to assign a number for the PTZ camera current position. And then, click **Save** to save the setting.
6. Set the **DwellTime** for how long the PTZ camera stays in that position before it moves to the next one.
7. Repeat step 3 to 6, if you want to save another preset position.
8. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved manually. Mark the check box and set the time period in second.
9. Click **OK** to complete the setting.

## 2.2.3 Using Event Log Viewer

Show the record of activities that take place in the system.

Time	Camera	Type	Event
2010/12/22 10:34:12	00	SYSTEM	Start DVR
2010/12/22 10:34:12	00	SYSTEM	Load LastGood
2010/12/22 10:37:58	00	SYSTEM	Start DVR
2010/12/22 10:37:58	00	SYSTEM	Load LastGood
2010/12/22 10:41:45	00	SYSTEM	Start DVR
2010/12/22 10:41:45	00	SYSTEM	Load LastGood
2010/12/22 10:44:43	00	SYSTEM	Start DVR
2010/12/22 10:44:43	00	SYSTEM	Load LastGood
2010/12/22 10:48:31	00	SYSTEM	Start DVR
2010/12/22 10:48:31	00	SYSTEM	Load LastGood
2010/12/22 10:52:18	00	SYSTEM	Start DVR
2010/12/22 10:52:18	00	SYSTEM	Load LastGood
2010/12/22 14:04:17	00	SYSTEM	Start DVR
2010/12/22 14:04:17	00	SYSTEM	Load LastGood
2010/12/22 14:08:14	00	SYSTEM	Start DVR
2010/12/22 14:08:14	00	SYSTEM	Load LastGood

1. Click the **Event Log** button on NVR system main interface. The Event log viewer window will show up.
2. Select the **Date** to view.
3. To filter the records, select and click the select button to display **Event**, **System**, **Operation**, **Network** or **All**.
4. Use the scroll button to go next, previous, first, or last page ((←), (→), (↑), (↓)) of event list.
5. To find event log by keyword, enter keyword in **Find Text** column and click **Search**.
6. The events list which display on the screen can be saved as text file format. To save the events list, click **Save** button.



## 2.3 Familiarizing Yourself with the Buttons in Playback Mode

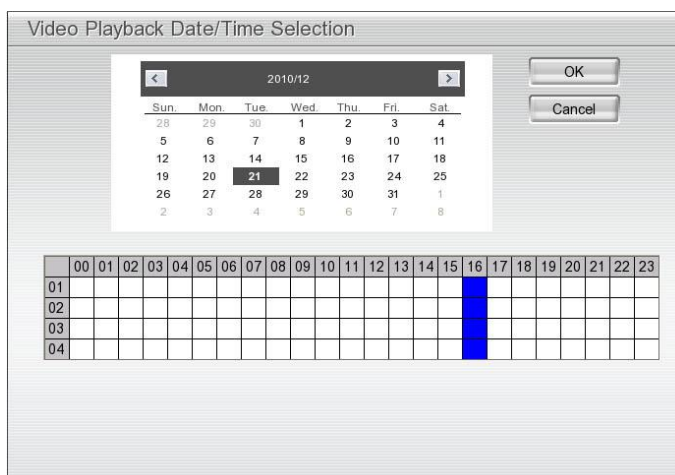
To switch in Playback mode, click **Playback** button at the lower right corner of Preview mode user interface.



Name	Function
(1) Split Screen Mode	Select from 2 different split screen type to playback the recorded video file of all the camera or one camera on a single screen. When user is in single screen mode, user can <b>right-click</b> and <b>drag</b> a square on the area you want to enlarge the view. Right-click on the screen again will return to the normal view.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
<b>i</b>	The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.
(4) Playback Control Buttons	From left to right order: <b>Begin:</b> Move at the beginning of the recorded video file. <b>Previous:</b> Go back to the previous frame. <b>Slower:</b> Play the recorded video file at the reduce speed from 64x, 32x, 16x, 8x, 4x, 2x, 1x, 1/2x, 1/4x. <b>Rewind:</b> Wind back the recorded video file. <b>Pause:</b> Briefly stop playing the recorded video file. <b>Play:</b> Play the recorded video file. <b>Faster:</b> Play the recorded video file at the speed of 2X, 4X, 8X, 16x, 32x, or 64x. <b>Next:</b> Go to the next frame. <b>End:</b> Go to the end of the recorded video file.

Name	Function
------	----------

(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
----------	---



**i** The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(6) Preview	Switch to Preview mode.
(7) Playback	Switch to Playback mode to view the recorded video file.
(8) Status bar	Display the recorded date, time and play speed.
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(10) Export	Export includes Snapshot, Output Video Clip, and Backup function. <ul style="list-style-type: none"> <li>■ <b>Snapshot:</b> Capture and save the screen shot in *.jpg format.</li> <li>■ <b>Output Video Clip:</b> Save the segmented file in *.dvr format to external USB storage device (see also <a href="#">Chapter 2.3.1</a>).</li> <li>■ <b>Backup:</b> Save the playback file to external USB device or external DVD burner.</li> </ul>
(11) Segment	Keep a portion of the recorded video (see also <a href="#">Chapter 2.3.1</a> ).
(12) Full screen	View in full screen. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.



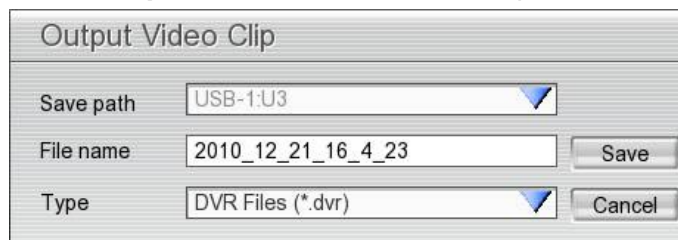
When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.

(13) Event log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or All.
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference (see also <a href="#">Chapter 2.3.2</a> ).

Name	Function
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Event Search function.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss)(see also <a href="#">Chapter 2.3.3</a> )

### 2.3.1 To Segment and Save the Desired Portion of the Recorded Video

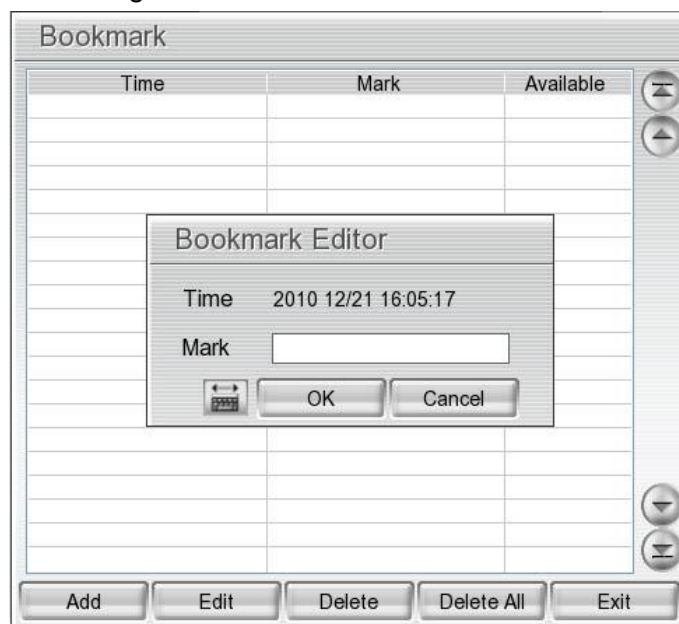
1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again.
3. Click **Export > Output Video Clip** button to save the wanted portion.



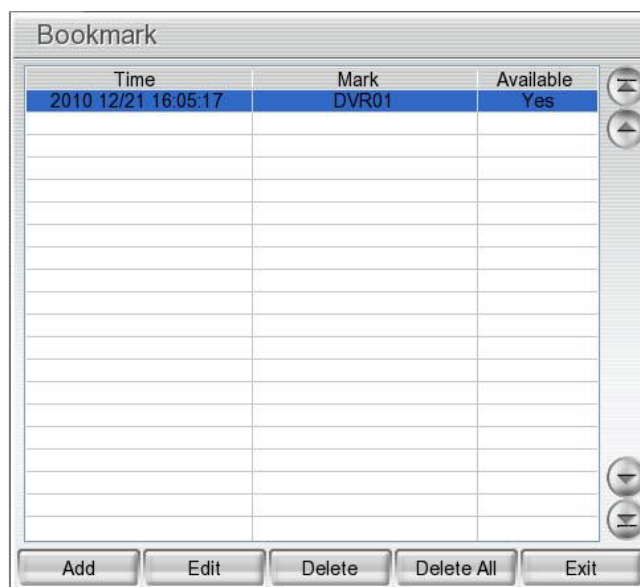
4. In the **Output Video Clip** dialog box, locate on where user wants to save the file, type the filename, and select the video format and click **Save** to save the video segment.

## 2.3.2 To Bookmark a Video Section

1. Click **Bookmark** button
2. In the Bookmark dialog box, you may do the following:
  - **Add** to create the new reference mark in the bookmark list. In Bookmark Editor window, enter the name or a short description in **Mark** column for this bookmark.
  - **Edit** to change the mark description.
  - **Delete** to remove the selected reference mark in the list.
  - **Delete All** to remove all the reference marks in the list.
  - **Exit** to close Bookmark dialog box.




3. Select and click one in the bookmark list to review the file.





### 2.3.3 Using the Event Search

1. Click on the video screen on where you want to search.
2. Click **Event Search**. The Event Search Setting dialog box would appear on the screen.
3. In the Event Search Setting dialog box, check the type of condition you want to search. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click **Find Next**( button).
4. You may also set to search and list all the result. Set the **Begin Time** and **End Time**. Set the **Searching Interval** time for during the interval time if system has found same event and will not list out. Then, click **OK** to start searching.



The NVR system will set the date of **End Time** at 3 days later of Begin Time automatically. If event data are less than 3 days, the NVR system will set End Time at current date. Time of End Time is adjustable.

### Event Search Setting

**Searching Condition**

☒ Sensor      ☒ Motion      ☒ Video Loss

**Searching Duration**

Begin Time    2010/12/21    P.M.02:46:24

End Time      2010/12/24      P.M.02:46:24


Searching Interval    3    Seconds

OK      Cancel

5. When the Event list appear, click and select the item you want to view.

[illegible]

## Chapter 3 Customizing the NVR System

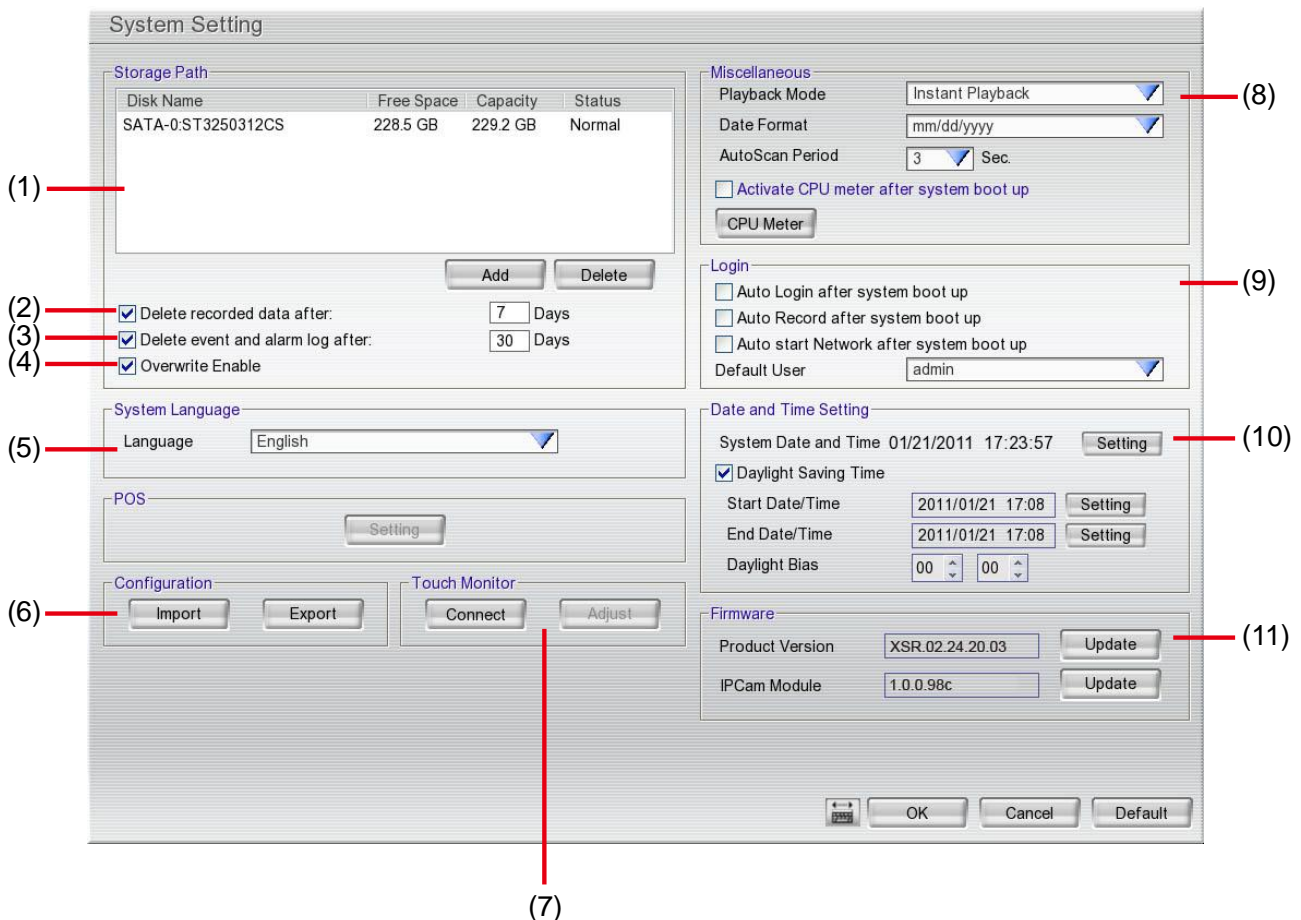
In the Preview screen mode, click  button to customize your NVR. Enter the ID and password to authenticate(Default ID is **admin** and password is **admin**).

When the NVR configuration setup selection appears, select and click the buttons you want to change the setting.



### 3.1 System Setup

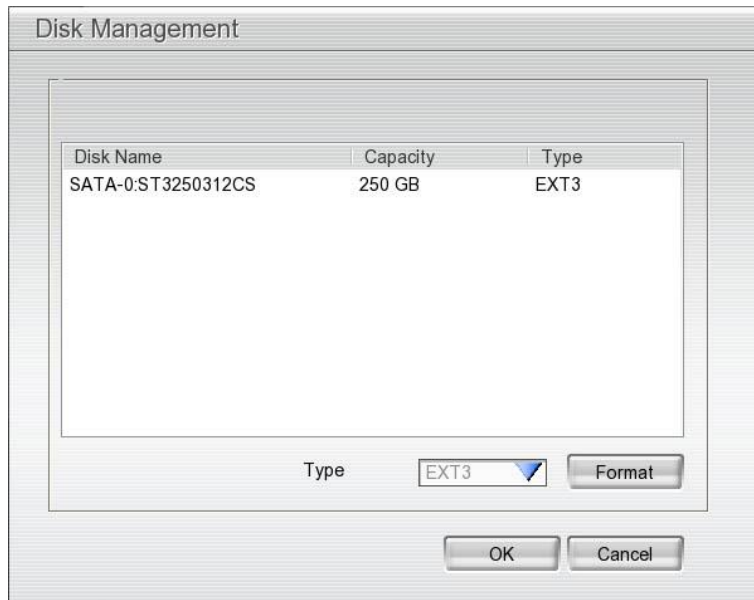
In the System Setting dialog box, click **OK** to accept the new settings, click **Cancel** to exit without saving.



#### (1) Storage Path

Set the HDD on where to save the data. In case you have more than one storage device, the system automatically saves the data to the next storage device. To insert another storage device, click **Add** and select the storage path. To remove the selected path, click **Delete**.

If the hard disk is the first time for NVR system, please format the hard disk before starting to use it. To format the hard disk, click **Add** and select the hard disk and **Format** in Disk Management window, and then, click **Format** button.



## (2) Delete recorded data after

If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the number of days in **Days** text box.

## (3) Delete event and alarm log after

If you want the system to automatically erase the event and alarm log after a certain days, enable the **Delete event and alarm log after** check box and enter the number of days in **Days** text box.

## (4) Overwrite Enable

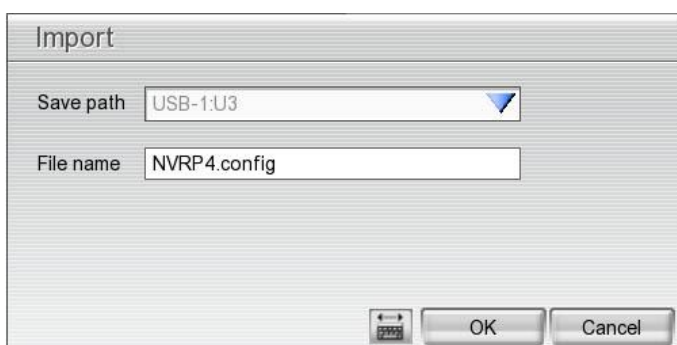
When there is not enough free space to record one hour data, the system automatically replaces the oldest data.

## (5) Language

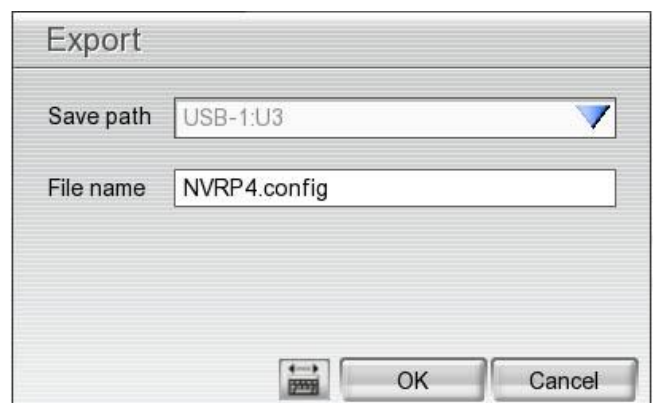
Customize the system to display the tool tips and dialogs based on the selected language. Default language is in English.

## (6) Configuration

Backup a copy of all the settings and allows you to regain the same settings back. To save the current settings, click **Export**. To replace the settings with the one you have saved, click **Import**.



Import UI

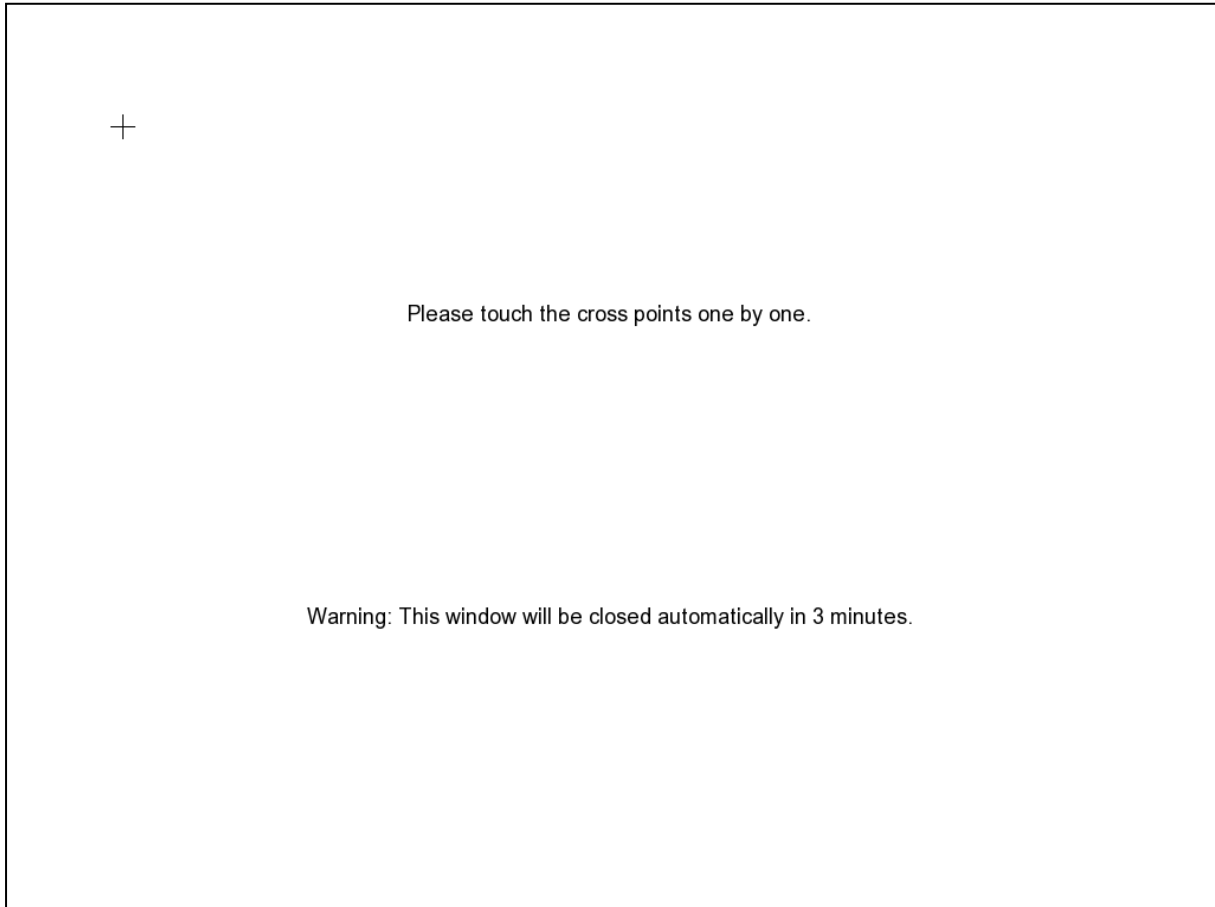


Export UI

## (7) Touch Monitor

When NVR server is connected with touch monitor, user needs to adjust touch monitor in order to work normally.

1. Connect the touch monitor with NVR server.
2. Turn on the NVR server and touch monitor power.
3. Select **Setup** → **System** → **Touch Monitor** → **Adjust**.
4. The adjusting window will show up.



5. Click **+** one by one to complete the adjustment.
6. To disconnect touch monitor, click **Disconnect** button first, and then, turn off the power of touch monitor and remove the connection between NVR server and touch monitor.

## (8) Miscellaneous

- **Playback mode:** Select the mode of playback the video.
  - **Select date and time:** Select the date and time which user wants to playback.
  - **Play the last file:** Automatically playback the video from the last hour
  - **Instant Playback:** Automatically playback the video which has just recorded
- **Date Format**  
Select the date format which wants to display in select date and time playback mode
- **Auto Scan Period**  
Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

## (9) Login

Enable the conditions in Login section you want the system to automatically carry out.

- **Auto Login after system boot up**  
Execute the NVR when the operating system is started.
- **Auto Record after system boot up**  
Automatically start video recording when the NVR is executed.
- **Auto start Network after system boot up**



Automatically start network connection when the NVR is executed.

- **Default user**

Automatically log in to the selected default user when the NVR is executed.

## (10) Date and Time Setting

- **System Date and Time:** Adjust the NVR system time and date. Click **Setting** button to select the month, date, hour, and minute.

The screenshot shows the 'System Setting' window with the 'Date and Time Setting' dialog box open. The dialog box displays a calendar for December 2010, with the date '21' selected. Below the calendar, the time is set to 'P.M.05:27:48'. The 'Setting' button is highlighted in blue. The background window shows various settings like 'Storage Path', 'Miscellaneous', 'Login', 'System Language', 'POS', 'Configuration', and 'Touch Monitor'.

- **Daylight Saving:** Mark **Daylight saving** check box to enable daylight saving function. And then, select the **Start Date/Time** and **End Date/Time** by click **Setting** button.
- **Daylight Bias:** Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.

The screenshot shows the 'System Setting' window with the 'Date and Time Setting' dialog box open. The dialog box displays a calendar for December 2010, with the date '21' selected. Below the calendar, the time is set to '17:08'. The 'Setting' button is highlighted in blue. The background window shows various settings like 'Storage Path', 'Miscellaneous', 'Login', 'System Language', 'POS', 'Configuration', and 'Touch Monitor'.

## (11) Firmware

### ■ **Product Version Update:** Upgrading the firmware of NVR system.

1. Click **Update** button, a **Firmware Upgrade** window will show up.



2. Save the firmware on root directory of USB disk. And then, plug USB disk into NVR unit.
3. Select the USB disk if there is more than one USB disk from drop down list. The NVR unit will auto detects the firmware. The current firmware version will show in **Current firmware version** and the new firmware version will show in **New firmware version**.
4. Click **OK** to start upgrading.

### ■ **IPCam Module Update:** Upgrading the firmware of IP camera.

1. Click **Update** button, a **IPCam Module Firmware Upgrade** window will show up.

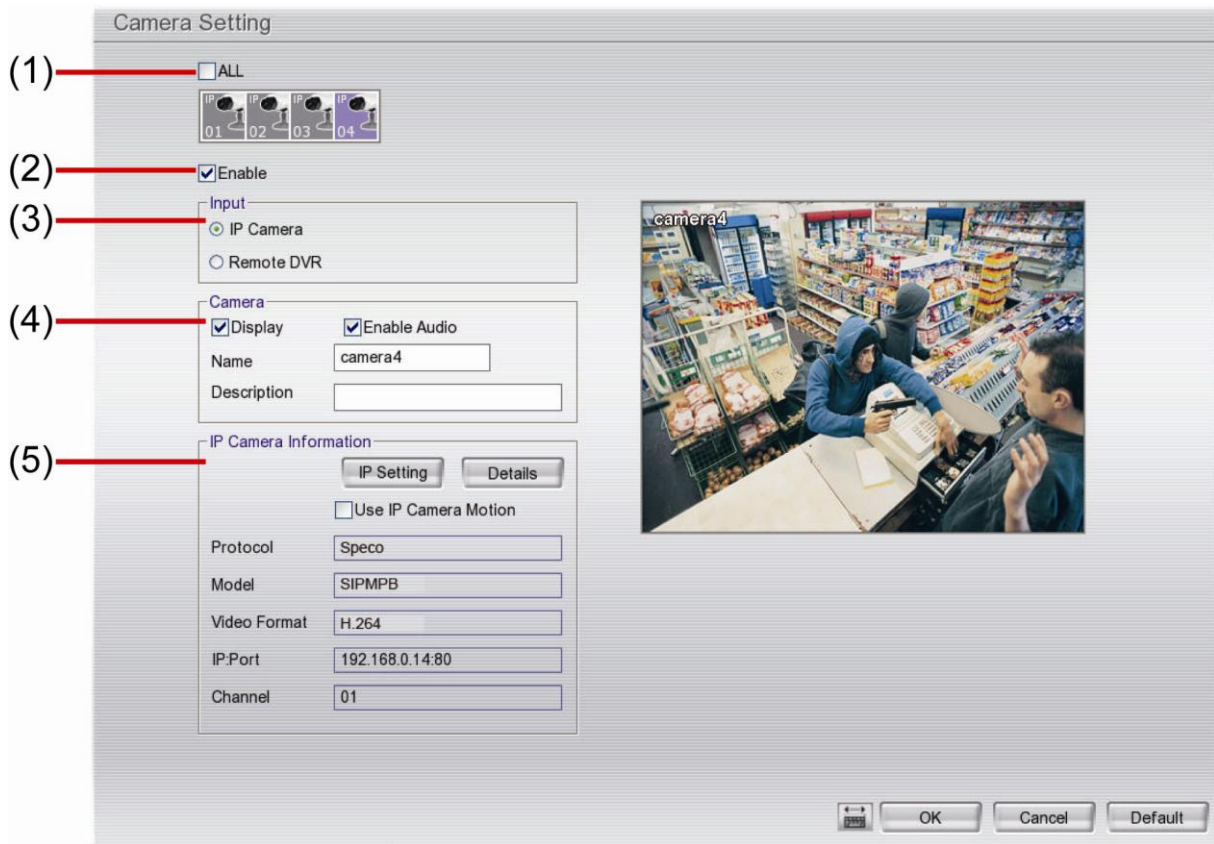


2. Save the firmware on root directory of USB disk. And then, plug USB disk into NVR unit.
3. Select the USB disk if there is more than one USB disk from drop down list. The NVR unit will auto detects the firmware. The current firmware version will show in **Current IP Cam Module version** and the new firmware version will show in **New IP Cam Module version**.
4. Click **OK** to start upgrading.

## 3.2 Camera Setup

Click **Default** will back to the factory default value.

### 3.2.1 To Setup the IP Camera



#### (1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click **ALL** check box.

#### (2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

#### (3) Input

Select the camera type as **IP Camera**.

#### (4) Camera

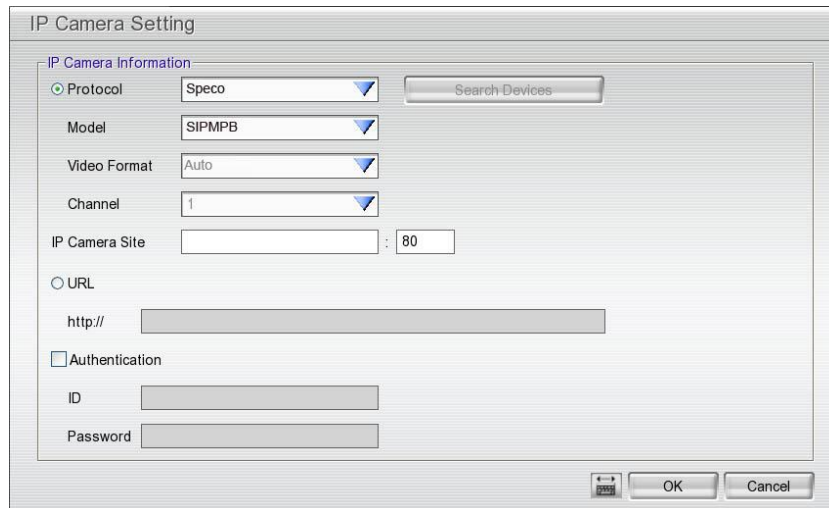
- **Display**  
Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.
- **Enable Audio**  
Enable/disable audio of the camera.
- **Name**  
Change the camera name
- **Description**  
Add a short comment

#### (5) IP Camera Information

- **Use IP Camera Motion:** Mark to enable the motion detected function if the IP camera has supported. Once this function has enabled, the motion detection will based on the IP camera has supported.

To setup IP camera and display current IP camera information.

■ **IP Setting:** Click **IP setting** to add the IP camera.



The 'IP Camera Setting' dialog box contains the following fields and controls:

- IP Camera Information:**
  - ☒ **Protocol**: Speco (dropdown)
  - Model**: SIPMPB (dropdown)
  - Video Format**: Auto (dropdown)
  - Channel**: 1 (dropdown)
  - IP Camera Site**: [ ] : 80
  - ☐ **URL**: http:// [ ]
  - ☐ **Authentication**:
    - ID**: [ ]
    - Password**: [ ]
- Buttons**: Search Devices, OK, Cancel

1. Click the radio button of **Protocol** to start setup IP camera.
  2. Select the **Protocol**, **Model**, **Video Format**, and **Channel** of the IP camera.
  3. Enter IP address and connecting port in **IP Camera Site** column.
  4. Also, user can enter URL of IP camera instead of IP address.
  5. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
  6. Click **OK** to connect with the IP camera.
- **Detail:** To adjust IP camera parameters, click **Detail**. Click **Default** will back to the factory default value.



The 'Advanced IP Camera Setting' dialog box contains the following sections and controls:

- Video Setting:**
  - Video Size**: 4CIF (dropdown)
  - Frame Rate**: N/A (dropdown)
  - Bitrate Mode**: Variable Bit Rate (dropdown)
  - Quality**: [Slider] 58
  - Bright**: [Slider] 59
  - Contrast**: [Slider] [ ]
  - Hue**: [Slider] [ ]
  - Saturation**: [Slider] [ ]
- I/O Control:**
  - Sensor**: [Button]
  - Relay**: [Button]
- Preview:** camera4 [Image of a store interior] Max Resolution: 2560 X 1920
- Buttons**: OK, Cancel, Default

User can select **Video size**, **Frame rate**, **Bitrate mode** and **Quality** of camera. Also, user can adjust **Bright**, **Contrast**, **Hue**, **Saturation**, and **I/O Control** of the camera.



The selection and adjustment items may vary by the camera supported.

**I/O Control:** Setup the sensor and relay that is embedded on the IP camera.

#### ■ **Sensor Setting**

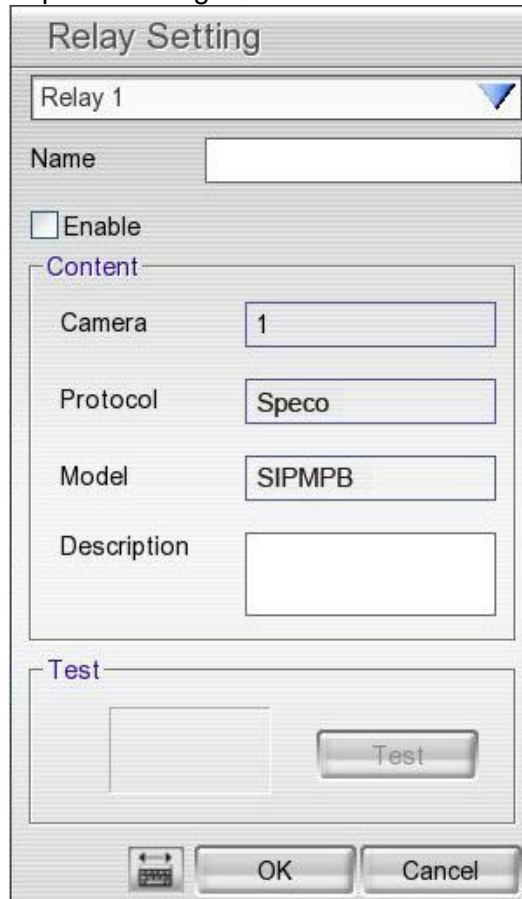
1. Click **Sensor** button.
2. Click the drop-down list and select the sensor ID number.
3. Enter sensor name in **Name** column
4. The system automatically detects the camera and input relates information. In the Content section, enter sensor **Description**.
5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



The image shows a 'Sensor Setting' dialog box. At the top, there is a title bar 'Sensor Setting'. Below it is a drop-down menu showing 'Sensor 1'. Underneath is a 'Name' label followed by an empty text box. The 'Content' section is enclosed in a box and contains four labels with corresponding text boxes: 'Camera' with '1', 'Protocol' with 'Speco', 'Model' with 'SIPMPB', and 'Description' with an empty box. Below the 'Content' section is the 'Test' section, which contains an empty box and a 'Test' button. At the bottom of the dialog are three buttons: a small icon button, 'OK', and 'Cancel'.

## ■ Relay Setting

1. Click **Relay** button.
2. Click the drop-down list and select the relay ID number.
3. Enter relay name in **Name** column
4. The system automatically detects the camera and input relates information. In the Content section, enter relay **Description**.
5. In the test section, click **Test** to check the relay status. **Red** is high and **Green** is low.
6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



The image shows a 'Relay Setting' dialog box. At the top, there is a title bar 'Relay Setting'. Below it is a drop-down menu showing 'Relay 1'. Underneath is a 'Name' label followed by an empty text box. Below that is an 'Enable' checkbox, which is currently unchecked. The dialog is divided into two main sections: 'Content' and 'Test'. The 'Content' section contains four labels with corresponding text boxes: 'Camera' with '1', 'Protocol' with 'Speco', 'Model' with 'SIPMPB', and 'Description' with an empty box. The 'Test' section contains an empty text box and a 'Test' button. At the bottom of the dialog are three buttons: a small icon button, 'OK', and 'Cancel'.



### 3.2.2 To Setup Camera from the Remote NVR

User can add the camera from another NVR through the network.

The screenshot shows a 'Camera Setting' window. On the left, there are four camera icons labeled 01, 02, 03, and 04. A red line labeled (1) points to the 'ALL' checkbox above them. Below the icons, a red line labeled (2) points to the 'Enable' checkbox. A red line labeled (3) points to the 'Input' section, which has radio buttons for 'IP Camera' and 'Remote DVR'. A red line labeled (4) points to the 'Camera' section, which includes a 'Display' checkbox, an 'Enable Audio' checkbox, a 'Name' text field (containing 'camera1'), and a 'Description' text field. A red line labeled (5) points to the 'IP' section, which includes text fields for 'IP', 'Port' (containing '80'), 'User ID', 'Password', and a 'Channel' dropdown menu (set to '1'). A 'Connect' button is at the bottom of the IP section. To the right of the settings is a video preview window showing a person at a control desk. At the bottom right of the window are 'OK', 'Cancel', and 'Default' buttons.

#### (1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click **ALL** check box.

#### (2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

#### (3) Input

Select the camera type as **Remote NVR**.

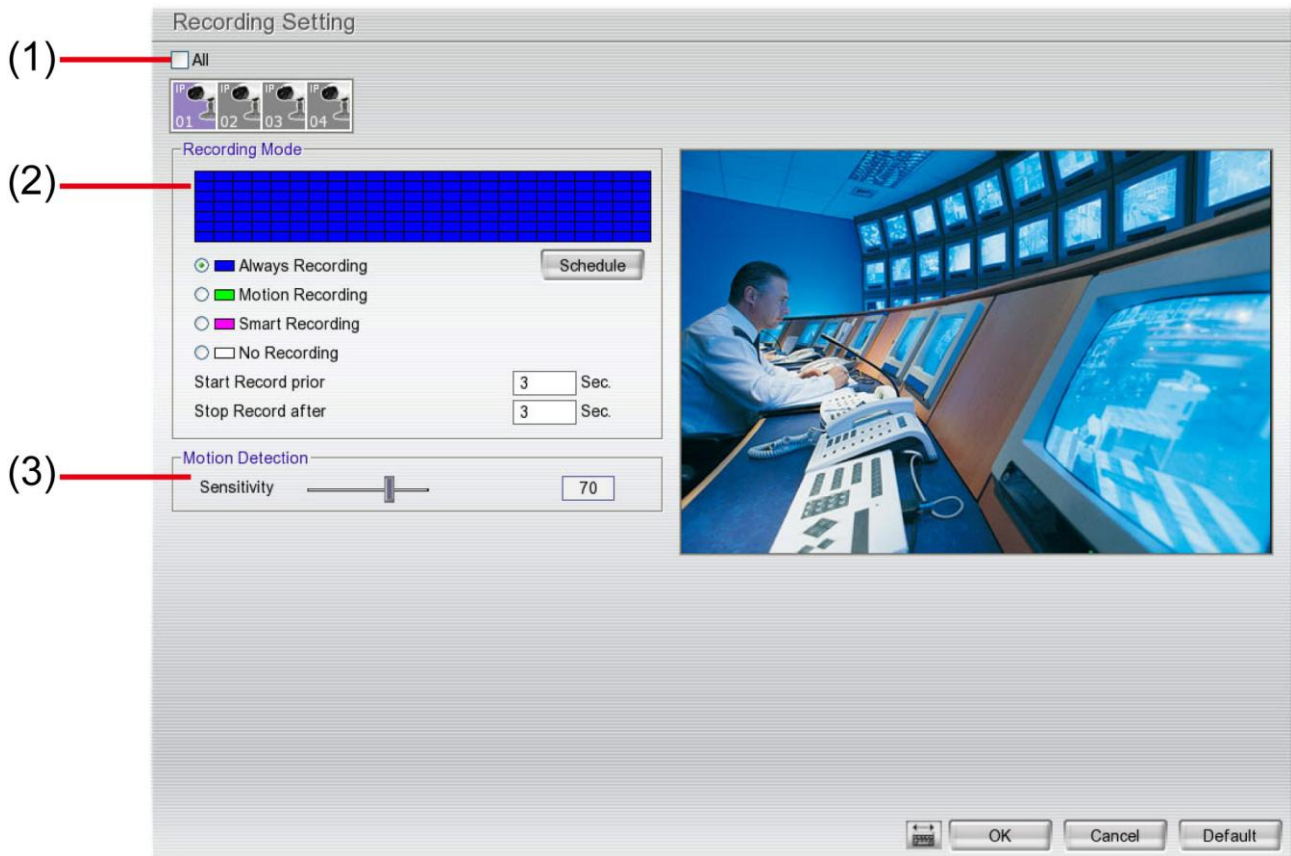
#### (4) Camera

- **Display**  
Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.
- **Enable Audio**  
Enable/disable audio of the camera.
- **Name**  
Change the camera name
- **Description**  
Add a short comment
- **IP**  
Enter the IP address of the camera
- **Port**  
The port for connection
- **User ID**  
Enter the user id that for connecting authority
- **Password**

Enter the password that is for connecting authority

- **Channel**  
Select the channel of connected camera
- **Connect**  
Click to connect the camera when all configurations are set.

### 3.3 Recording Setup

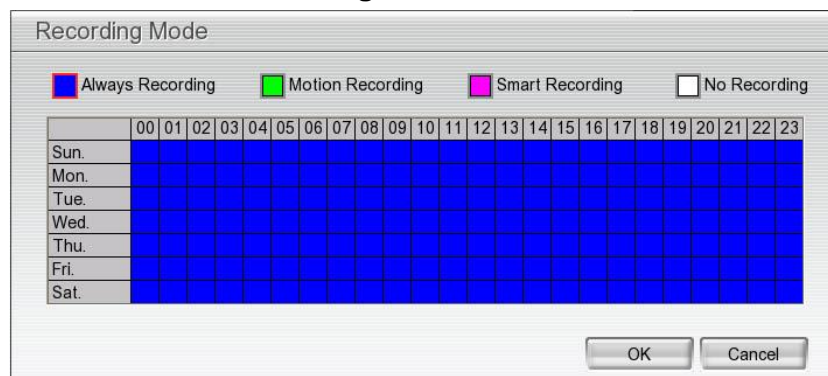


#### (1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

#### (2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the **⊙** button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks.



When the system starts recording a red triangle mark would appear at the upper left corner of the screen. The recording modes are listed below:



- **Always Recording**

Record the video from the selected camera and save it to the designated storage device

- **Motion Recording**

Start recording the video from the selected camera only when the system detects movement.

Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

- **Smart Recording**

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

- **No Recording**

The system won't do any recording.

### **(3) Motion Detection**

Adjust the sensitivity of the motion detection. The higher the value, the finer the sensitivity is detected.

When it detects a motion, a green triangle mark would appear at the upper left corner of the screen.

## 3.4 Network Setup

Click **Default** will back to the factory default value.

The screenshot shows the 'Network Setting' window with the following sections and callouts:

- (1) **Server Name**: A text input field.
- (2) **Transmitting Cameras**: A section with an 'All' checkbox and four individual checkboxes labeled 1, 2, 3, and 4.
- (3) **Main Configuration**: A section containing 'Server IP' (a dropdown menu showing '192.168.2.9' and a 'Setting' button), and 'Remote Console PORT' (a text input field showing '5550').
- (4) **Remote Update Configuration**: A section with a 'PORT' text input field showing '5005'.
- (5) **WebViewer Configuration**: A section with an 'Enable Anonymous Login' checkbox and a 'WebViewer PORT' text input field showing '80'.
- (6) **Network Time Synchronization**: A section with a 'Time Server' text input field, a 'Time Zone' dropdown menu showing 'GMT+00:00', an 'Automatic synchronize at' dropdown menu showing '00:00', and a 'Synchronize Time Right Now' button.
- (7) **Other Configuration**: A section with two checkboxes, 'Enable White List' and 'Network Bandwidth Limit', each followed by a 'Detail' button.

At the bottom of the window are buttons for 'OK', 'Cancel', and 'Default'.

### (1) Server Name

Assign a name for the NVR unit. Alphabet letters and numbers only.

### (2) Transmitting Cameras

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer, Remote Console, CMPC, PDA Viewer and JavaViewer (still image). To select all the cameras, enable the **ALL** check box.

### (3) Main Configuration

Set the NVR IP address and **Remote Console Port**. You need this when accessing NVR server from the remote location via internet.

The NVR system supports dual LANs; therefore, user can select the **Server IP** from the drop-down list and click **setting** to configure the detail. The dual LAN ports can balance network bandwidth to avoid the network traffic congestion.



- The default IP of the NVR server is 192.168.1.155 for LAN1 (lower LAN port in the back of the NVR) and 192.168.2.155 for LAN2 (upper LAN port in the back of the NVR).
- LAN1 and LAN 2 both support Static, DHCP, or PPOE mode.
- We recommend setting LAN 1 as a default gateway.



- 2 LAN ports cannot set in same LAN segment; it will cause the network connection failure.
- When only using port **LAN2**, please set IP address of port **LAN 1** in different LAN segment from port LAN 2.

■ **Using the following IP address:** Assigns an IP address for the NVR system. Fill in the IP related parameters in **IP information** section.

- **IP:** Assign a constant IP address which a real IP address gives from ISP to NVR system.
- **Mask:** It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to NVR system.
- **Gateway:** A network device acts as a passageway to internet. Enter the network gateway IP address



User only can setup one gateway for the NVR system. We do recommend setting the LAN 1 as default gateway and set the DDNS function within LAN 1 as well.

- **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
- **MAC Address:** An identifier hardware address of NVR unit that is assigned by the manufacturer for identification. User don't need to fill in, it will generated by system automatically.

■ **Obtain an IP automatically (DHCP):** Assign the IP address by local DHCP server to NVR system.

■ **PPPOE:** Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Enter **User ID** and **Password** that is given by your ISP for PPPOE connecting authority.

■ **DDNS:** DDNS(Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. Users can register their own domain name on <http://ddns.specoddns.net>. (See [Appendix A](#))

- **DDNS Server Name**  
Displays the DDNS server.
- **DVR Name**  
Enter the domain name (ex. NVRP4) that user wants to register in **DVR Name** column and click **OK** to confirm. Then, the NVR system will connect to DDNS server that list in DDNS Server Name column and register the domain name. If domain name registration is successful, no message will show up. User also can go to web site <http://specoddns.net/ddns/query.asp> to check the domain name registration status.
- **Web Server Port**  
Fill in the port that connects to DDNS server. Default is 100.
- **EZ-DDNS**  
Click **EZ-DDNS** button to get a domain name that is provided by NVR system and will not repeat with other registered domain name. User can use the domain name that is provided by NVR system or think your own.

#### (4) Remote Upgrade Configuration

A port is using for the remote firmware upgrade through network.

### (5) WebViewer Configuration

Activate **Enable Anonymous Login** to remotely access the NVR server without the need of password. Fill in the **WebViewer PORT** for remote accessing connection.

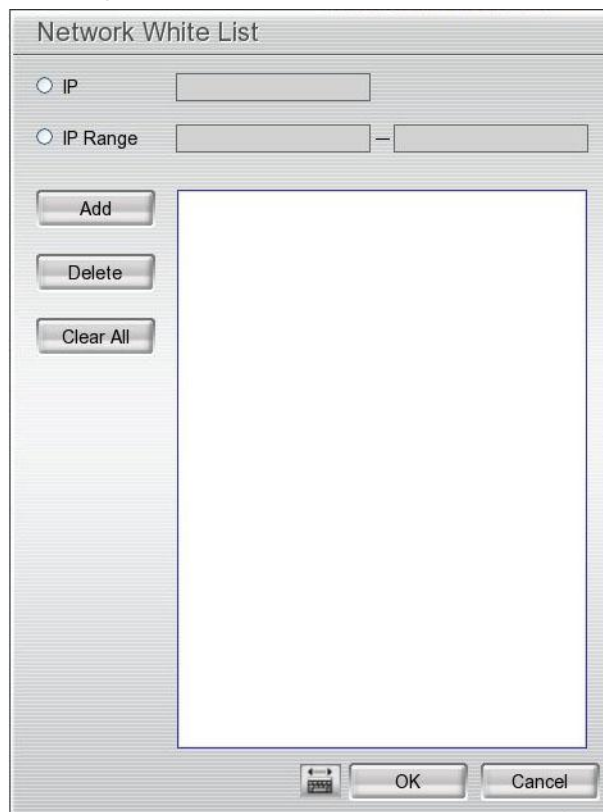
### (6) Network Time Synchronization

Adjust the NVR system time same as network time server. Fill in the **Time Server** IP address or domain name and select the **Time Zone**. User can enable **Automatic Synchronize at** to set automatic synchronize time on a daily basis. Or, user can click **Synchronize Time Right Now** to adjust time right away.

### (7) Other Configuration

#### - Enable White List

An access permit list for the remote accessing of NVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



The 'Network White List' dialog box features a title bar with the text 'Network White List'. Inside, there are two radio buttons: 'IP' and 'IP Range'. The 'IP' option is selected, and it is followed by a text input field. The 'IP Range' option is followed by two text input fields separated by a hyphen. Below these input fields are three buttons: 'Add', 'Delete', and 'Clear All'. To the right of these buttons is a large, empty rectangular list area. At the bottom of the dialog, there are three buttons: a small icon button, 'OK', and 'Cancel'.

#### - Network Bandwidth Limit

**By Channel:** Set the network bandwidth by each channel.

**All:** Set the total network bandwidth consumption limit.



The 'Bandwidth Settings' dialog box has a title bar with the text 'Bandwidth Settings'. It contains two radio buttons: 'By Channel' (which is selected) and 'All'. Under the 'By Channel' option, there is a dropdown menu showing 'Camera 01' with a blue arrow, followed by a text input field containing '64' and the unit 'KB/s'. Under the 'All' option, there is a text input field labeled 'Total Limit' containing '1024' and the unit 'KB/s'. At the bottom, there are three buttons: a small icon button, 'OK', and 'Cancel'.

## 3.5 Schedule Setting

Schedule to record, enable network, reboot and disable alarm of all the cameras either weekly or one time. The number from 00 to 23 represent the time in 24-hour clock. The left most column display the days in a week.

**Schedule Setting**

2010/12

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Record

☒ WEEKLY

☐ ONE TIME

☐ Remove

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
12/19 Sun																								
12/20 Mon																								
12/21 Tue																								
12/22 Wed																								
12/23 Thu																								
12/24 Fri																								
12/25 Sat																								

Save Clear All OK Cancel

### To Set the Schedule Setting:

- Select the date in the calendar. Use ◀ and ▶ buttons to shift the calendar to the left or right.
- Select the condition you want to schedule in the drop down list.
  - Record**  
Activate all the cameras to start video recording at the set time based on the Recording setting
  - Enable Network**  
Activate NVR remote system to access at the set time. After the appointed time, the Network function will be disabled. If the Network function is already enabled, the Network function will not be disabled when the appointed time has ended.
  - Reboot**  
Restart the PC at the appointed time.
  - Disable Alarm**  
Deactivate the alarm at the set time temporarily.
- Set the schedule as weekly or one time. Click ☒ to make a selection.
- Click on the blocks to set the schedule or click **All** to select all. To un-select the specific schedule blocks, click the **Remove** and click blocks to un-select. To store the setting, click **Save**. To remove the settings, click **Clear**.
- To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

## 3.6 Backup Setup

In the Backup Setting dialog box, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera number. When you back up the file, you may find Qplayer application included in the backup folder. To run the Qplayer application, click Oplayer.exe in back folder. (see also [Chapter 3.7.1](#))

Backup Setting

2010/12

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

☐ Delete recorded files after Backup

Save path: USB-1:U3

Folder Name: Backup

Require Space: 80.49 MB

Free Space: 13.25 MB

Rescan Device

Backup Now

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01																								
02																								
03																								
04																								

All Clear All Exit

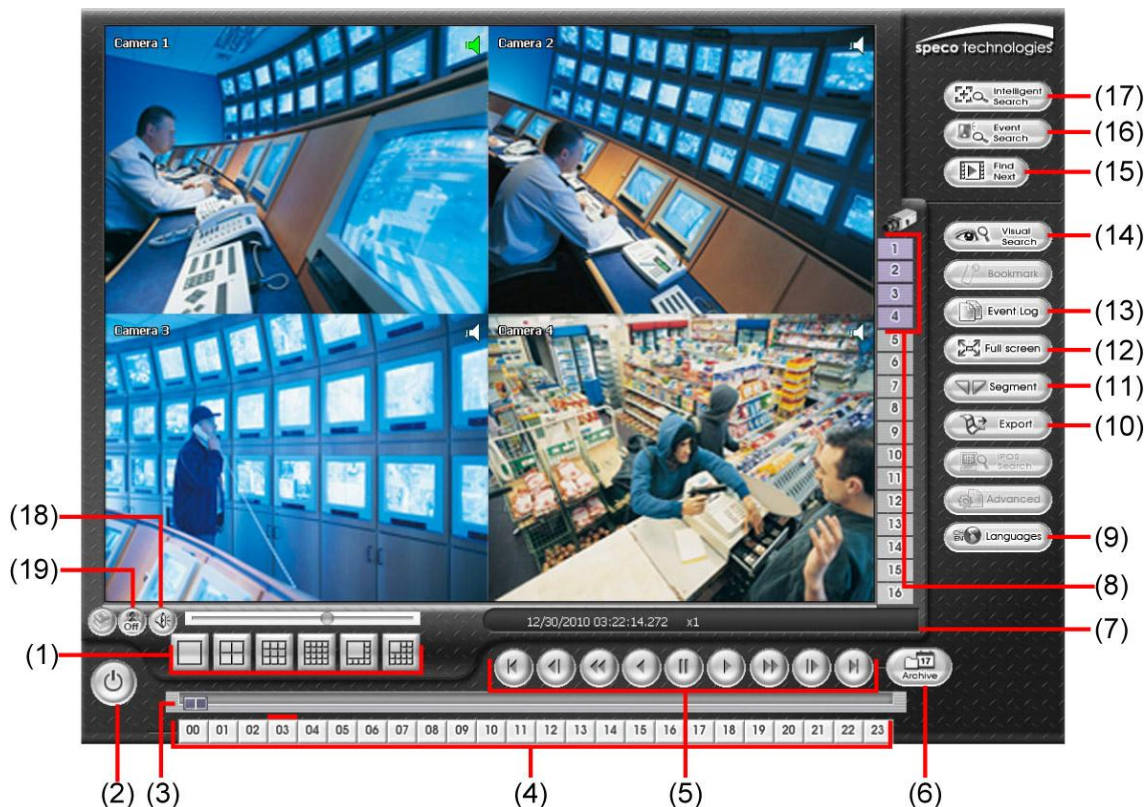
1. Select the date of the recorded file in the calendar you want to backup. Use ◀ and ▶ buttons to shift the calendar to the left or right.
2. In the table above, click on the blue block to select the recorded file or click camera (01~04) or time (00~23) to select the whole row or column. The blue block turns red when it is selected. The block that appears in white doesn't have data. If you want to set the specific time, right-click on the selected block. Then, set the time to start and end.
3. Check the space need for backup next to the calendar. Click **Rescan Device** to calculate the space for backup.
  - **Require Space**: Show the total size of the backup file.
  - **Free Space**: Show the available storage space
4. If you do **NOT** want to keep the recorded file in the storage folder, enable **Delete files after Backup** check box.
5. Select the backup device – USB disk or DVD-ROM device.
6. NVR system will give **Folder Name** automatically.
7. Click **Backup Now** button to start archiving the selected file.



## 3.6.1 Using QPlayer to Playback Backup Video

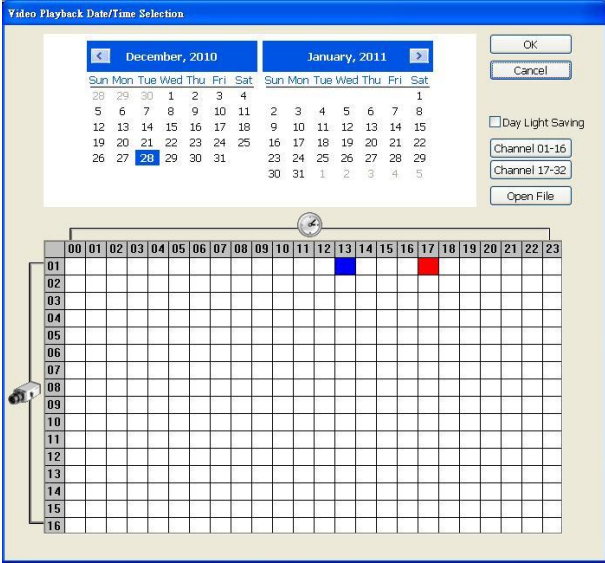
You can playback the backup files using QPlayer applications on the PC. When you back up the recorded file, QPlayer applications are automatically included in the backup folder. With QPlayer, it is the same as in Playback mode and supports different split screen types to view all the video at the same time. The only difference is that there are no Preview and Playback buttons.


To run the application, go to backup folder and double-click **Qplayer.exe** to run the QPlayer.



Name	Function
(1) Exit	To close the application
(2) Split Screen Mode	Select from 1 and 4-split screen type to playback the recorded video file.
<b>i</b>	- If there are only 4 cameras, when user select the 8,9,13,and 16-split screen mode, only 4 channels have video display and rest of channels will be black screen.
	- To zoom in an area on the screen, <b>Right</b> click and <b>Drag</b> a square on the area you want to enlarge.
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
<b>i</b>	The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.
(5) Playback Control Buttons	<b>Begin:</b> Move at the beginning of the recorded video file. <b>Previous:</b> Go back to the previous frame. <b>Slower:</b> Play the recorded video file at the speed of 1/2X, 1/4X, 1/8X, 1/16X, or 1/32X. <b>Rewind:</b> Wind back the recorded video file. <b>Pause:</b> Briefly stop playing the recorded video file. <b>Play:</b> Play the recorded video file. <b>Faster:</b> Play the recorded video file at the speed of 2x, 4x, 8x, 16x, or 32x. <b>Next:</b> Go to the next frame. <b>End:</b> Go to the end of the recorded video file.



Name	Function
(6) Archive	<p>Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.</p> <ul style="list-style-type: none"> <li>– <b>Day Light Saving:</b> the playback calendar will show the available video records during day light saving time period.</li> <li>– <b>OPEN FILE:</b> user can open the recorded file from other storage location on hard disk.</li> <li>– <b>Channel 01~16/Channel 17~32:</b> Click it to switch between channel group 01~16 and channel 17~32 on calendar if NVR server supports more than 16 channels.</li> </ul>
	
<p><b>i</b> The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.</p>	
(7) Status bar	Display the recorded date, time and play speed.
(8) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(9) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
(10) Export	<p>Export includes Snapshot, Print, and Output Video Clip function.</p> <ul style="list-style-type: none"> <li>▪ <b>Snapshot:</b> Capture and save the screen shot either in *.jpg format.</li> <li>▪ <b>Print:</b> Print the screen shot.</li> <li>▪ <b>Output Video Clip:</b> Save the segmented file in *.dvr, *.avi, or *.mpg format.</li> </ul>
(11) Segment	Keep a portion of the recorded video (see also <a href="#">Chapter 3.6.2</a> ).

Name	Function
(12) Full screen	View in full screen mode. To return, press the right button of the mouse or <b>ESC</b> on the keyboard or click the arrow icon.
	 <p>When you switch to full screen in multiple-screen mode, <b>Left</b> click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(13) Event Log	When backup, the NVR system will include event logs. User can view the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also <a href="#">Chapter 3.6.3</a> )
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss). (See also <a href="#">Chapter 3.6.4</a> )
(17) Intelligent Search	Search the changes in the motion detector frame (See also <a href="#">Chapter 3.6.5</a> ).
(18) Audio	Enable/disable volume
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

### 3.6.2 To Segment and Save the Desired Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.



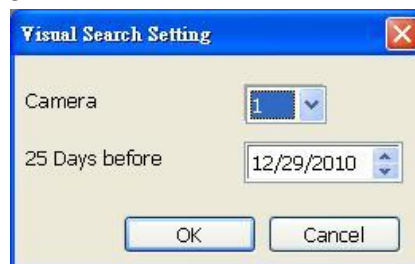
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.






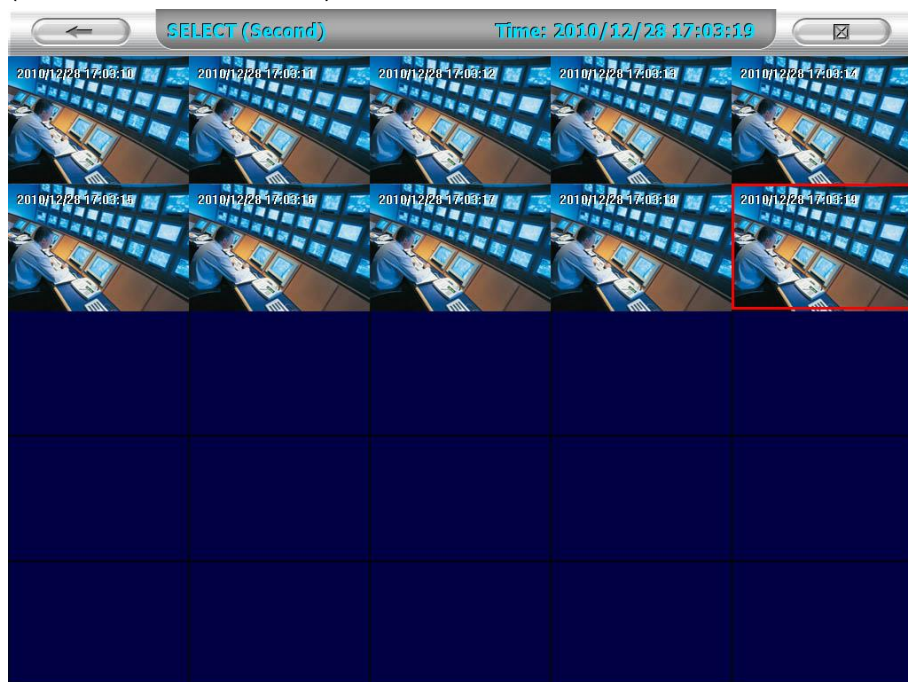
3. Click **Export > Output Video Clip** button to save the wanted portion.
4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

### 3.6.3 Using the Visual Search


1. Click **Visual Search**.
2. In the Visual Search Setting dialog box, select the Camera number and the date. Then click **OK**.

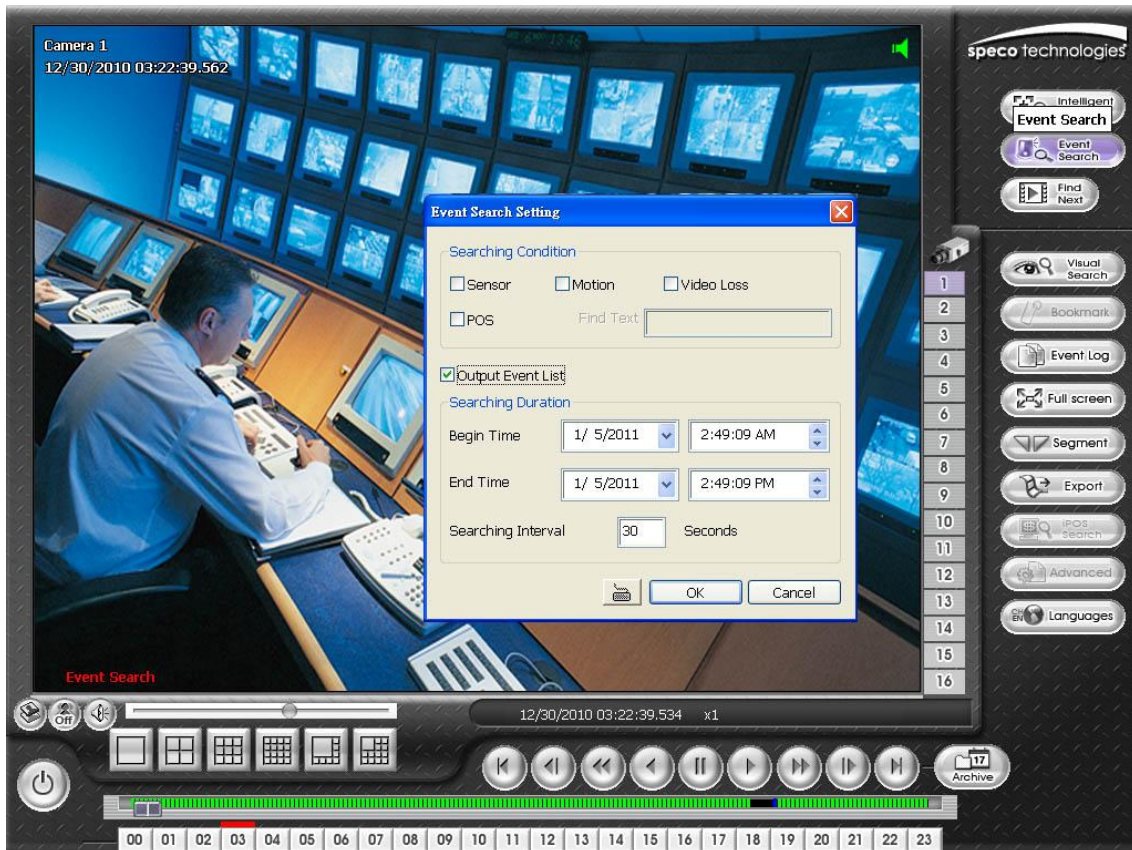


3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minutes of that hour, 10 Seconds, 3 Seconds, and every Second of that minute. Using  and  to go next and last page of time page. To go back last time selection (hour, minute, or second), click . To close event search, click .



### 3.6.4 To Search Using the Event Search


1. Click on the video screen on where you want to search.
2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
3. In the Event Search Setting dialog box, check the type of condition you want to search. The video search would stop at the frame that matches the condition. To keep on searching click **Find Next** ().
4. You may also set to search and list all the result. In the **Search Duration** section, set the **Begin Time** and **End Time**. Set the **Searching Interval** time that system won't list out the same events in a period of time that user has setup. Then, click **OK** to start searching.

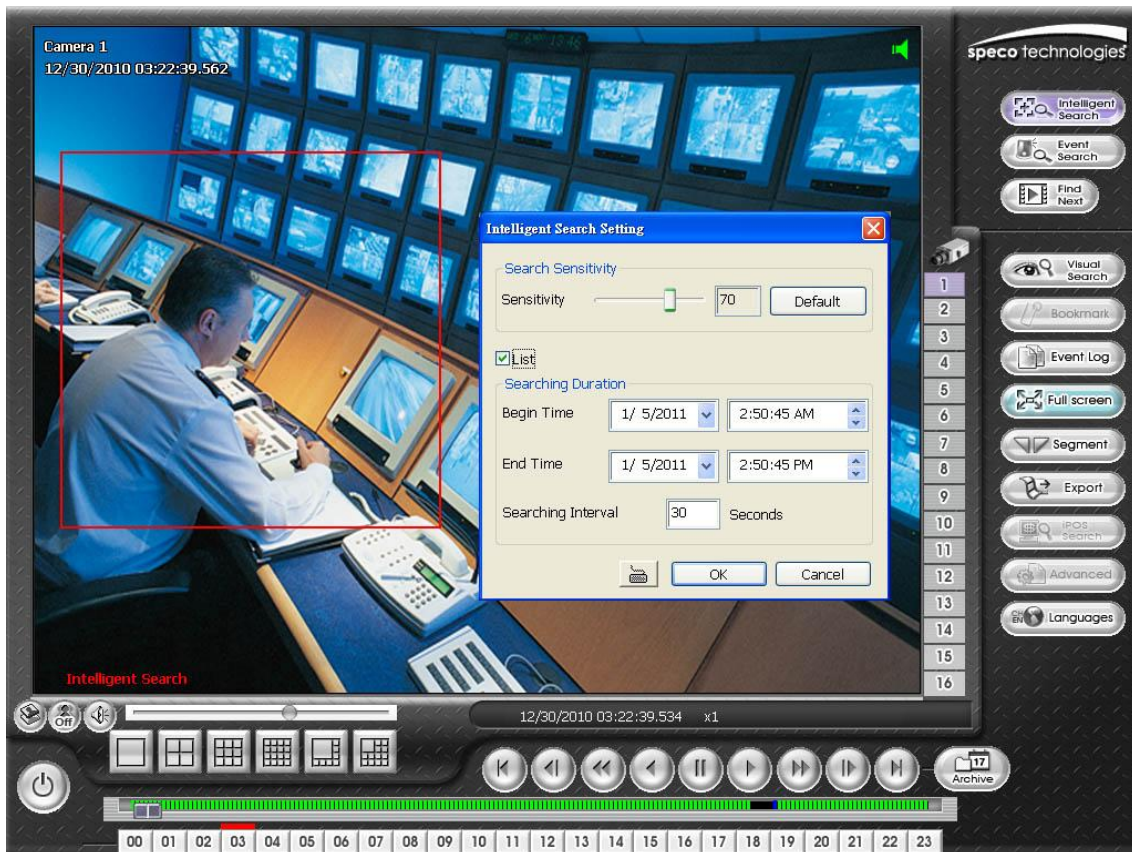


5. When the Event list appear, click and select the item you want to view.



### 3.6.5 To Search Using the Intelligent Search

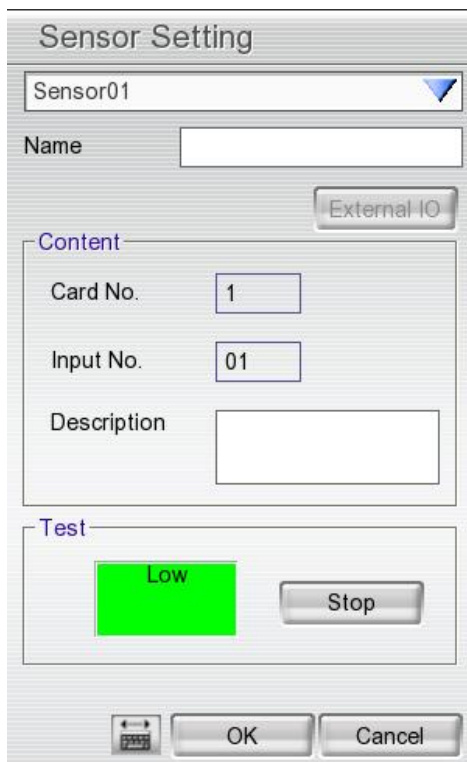
1. Click on the video screen on where you want to search.
2. Click **Intelligent Search**. The Intelligent Search text (red) would appear at the lower left corner of the screen.
3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click **Find Next** (  ). You may also set to search and list all the result. Just check the **List** box. In the **Search Duration** section, set the **Begin Time** and **End Time**. Set the **Searching Interval** time that system won't list out the same events in a period of time that user has setup. Then, click **OK** to start searching.



## 3.7 Sensor Setting

The I/O device must be installed to use this function.

1. The system automatically detects the I/O device that has connected with NVR system and display on the drop-down list column. Click the drop-down list and select the sensor that user wants to configure.
2. Enter sensor name in **Name** column.
3. In the **Content** section, enter **Description** of sensor.
4. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
5. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

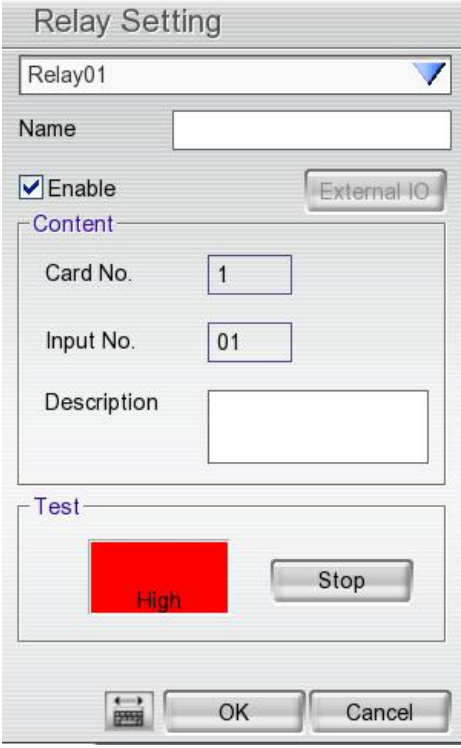


The image shows a 'Sensor Setting' dialog box. At the top, there is a title bar 'Sensor Setting'. Below it is a drop-down menu showing 'Sensor01'. Underneath is a 'Name' label followed by an empty text box. To the right of the 'Name' box is a button labeled 'External IO'. Below this is a section titled 'Content' in blue. Inside the 'Content' section, there are three labels: 'Card No.' with a text box containing '1', 'Input No.' with a text box containing '01', and 'Description' with an empty text box. Below the 'Content' section is a section titled 'Test' in blue. Inside the 'Test' section, there is a green rectangular indicator with the word 'Low' in black text, and a button labeled 'Stop'. At the bottom of the dialog box, there are three buttons: a small icon button, an 'OK' button, and a 'Cancel' button.

## 3.8 Relay Setting

The I/O device must be installed to use this function.

1. The system automatically detects the I/O device that has connected with NVR system and display on the drop-down list column.
2. Enter sensor name in **Name** column.
3. In the **Content** section, enter **Description** of relay.
4. In the test section, click **Test** to trigger relay. **Red** is high and **Green** is low.
5. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



The image shows a 'Relay Setting' dialog box. At the top, there is a dropdown menu showing 'Relay01'. Below it is a 'Name' label followed by an empty text box. A checked checkbox labeled 'Enable' is present, along with a button labeled 'External IO'. The 'Content' section contains three fields: 'Card No.' with the value '1', 'Input No.' with the value '01', and a 'Description' label followed by an empty text box. The 'Test' section features a red rectangular button labeled 'High' and a 'Stop' button. At the bottom of the dialog are three buttons: a keyboard icon, 'OK', and 'Cancel'.



## 3.9 Alarm Setting

In the Alarm Setting dialog box, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **OK** to exit and save the setting, **Cancel** to exit without saving. Click **Default** will back to factory default value.

The screenshot shows the 'Alarm Setting' dialog box. It includes fields for 'No.', 'Name', and 'Description'. Below these is an 'Enable Time' section with a 24-hour clock grid. The 'Conditions' section has radio buttons for 'Trigger if any' and 'Trigger if all', followed by 'Camera' and 'Sensor' sections with checkboxes for 'Motion Detected', 'Video Loss', 'High', and 'Low'. The 'Action' section contains a list of checkboxes for various actions like 'Launch E-Map', 'Enlarge Camera View', 'Relay Output', etc. On the right is an 'Alarm Setting List' table with columns 'No.', 'Name', and 'Description'. At the bottom are 'Add', 'Delete', 'OK', 'Cancel', and 'Default' buttons. Red callouts (1) through (8) point to specific elements: (1) No. field, (2) Enable Time grid, (3) Trigger if any/all radio buttons, (4) Motion Detected checkbox, (5) Sensor High/Low checkboxes, (6) Alarm Reset checkboxes, (7) OK button, and (8) Alarm Setting List table.

1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8) Alarm Setting List** if you want to modify the alarm setting.
2. In **(1) No./Name/Description** enter alarm name and description. Alarm **No.** will be created by NVR system.
3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
4. In **(3) Conditions**, you can set “**Trigger if any**” to activate if it falls to one of the conditions or “**Trigger if all**” to activate if it falls to all conditions.
5. In **(4) Camera** section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
6. In **(5) Sensor**, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
  - **IP Camera Sensor:** To adjust sensor high/low that is connected on the IP camera.
  - Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.



- **Reboot:** when the NVR system reboot without abnormal condition, the system will send out the alarm message.
  - **Abnormal Reboot:** when the NVR system reboot in irregular condition, the system will send out the alarm message.
  - **Recording is switched off:** when the recording has been stopped, the system will send out the alarm message.
  - **Network is switched off:** when the network connection of NVR system is lost, the system will send out the alarm message.
  - **Hard Disk failed:** when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
7. In **(6) Alarm Reset**, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
8. In **(7) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.
- **Launch E-Map:** Display mini E-map screen.
  - **Enlarge Camera View**
- Switch to only display video in Preview mode from where the alarm is activated.
- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
  - b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0~ 600 seconds.



### - Relay Output

Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

1. Next to the Relay Output check box, click **Detail**.
2. In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
3. In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

No.	Name	Status
01	Relay01	Off

☐ Retrieve time    0    Sec.

### - IP Camera Relay

Set to enable/disable the relay operation when the alarm is activated.

### - Play Warning Sound

Play alarm sound.

### - Send E-mail

Send an electronic text message. Next to the Send Email check box, click **Detail**.

In the E-mail Setting dialog box, click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

(1) **Mail Server**

SMTP Server:  Port: 25

☐ Authentication

ID:  Password:

(2) **Mail**

From:  To:  CC:  Subject:

Message:

**Snapshot**

☐ Enable

Select Camera: N/A Video Size: N/A

#### (1) Mail Server

Enter the **SMTP Server** and **port**. If your e-mail system requires user identification, enable **Authentication** check box and enter **ID** and **Password**.

#### (2) Mail

Fill the mailing information.

**From:** Enter the sender e-mail address.

**To and CC:** Enter the recipient email address and separate it with comma or a semicolon (;).

**Subject:** Enter the message title.

**Message:** Type the message.

- **Start Recording**

Record the video from the selected camera.

1. Next to the Start Recording check box, click **Detail**.
2. In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable **All** to select all cameras.
3. In the Frame Rate selection, select **As Setting** to record the number of frames based on the Recording Setting.
4. In the **Start Record prior** text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.
5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
6. Click **OK** to accept the new settings and **Cancel** to exit without saving.



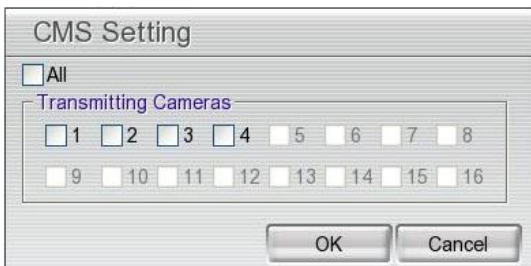
The 'Alarm Recording Setting' dialog box contains the following elements:

- An ☐ **All** checkbox at the top left.
- A section titled 'Recording Cameras' with a grid of 16 checkboxes numbered 1 through 16.
- A section titled 'Frame Rate' with two radio buttons: **As Setting** (selected) and **Max**.
- Two text input fields: 'Start Record prior' and 'Stop Record after', both currently showing '0' and followed by 'Sec.'.
- At the bottom right, there are **OK** and **Cancel** buttons, preceded by a keyboard icon.

- **Send to CMS (Central Management System)**

Enable/disable the selected camera to send video to CMS when the alarm is activated.

Next to the Send to CMS check box, click **Detail**. In the CMS Setting, select the camera to enable/disable sending the video to CMS. Enable **All** to select all cameras. Then, click **OK** to accept the new settings and **Cancel** to exit without saving.



The 'CMS Setting' dialog box contains the following elements:

- An ☐ **All** checkbox at the top left.
- A section titled 'Transmitting Cameras' with a grid of 16 checkboxes numbered 1 through 16.
- At the bottom right, there are **OK** and **Cancel** buttons.

### 3.10 User Setup

Only administrator level authority can access User Setting. The maximum user accounts are 32.

In the User Setting dialog box, click **Add** to insert a new user, **Delete** to remove the selected user, **Edit** to modify the user control right, **OK** to exit and accept the setting, and **Cancel** to exit without saving the setting.

[illegible]

### **To Add a User Account:**

1. In the User Setting dialog box, click **Add**.
2. Select and fill in the following information.

The screenshot shows the 'User Setting' dialog box with the following configuration options highlighted by numbered callouts:

- (1) **Authorization Level**: The 'User' radio button is selected.
- (2) **Control Right**: A list of permissions where 'System Setting', 'Relay', 'Camera', 'Alarm Setting', 'Record', 'Playback', 'Network', 'Power OFF', 'Scheduler', 'Reboot', 'Backup', 'PTZ', and 'Sensor', 'E-Map' are all checked.
- (3) **WebViewer**: The 'Remote Console', 'Remote LogViewer', 'Remote Record', 'IP Camera', and 'Remote Setup' checkboxes are all unchecked.
- (4) **Visible camera**: The 'All' checkbox is checked, and cameras 1 through 16 are listed with checkboxes.
- (5) **Time Span**: The 'Enable' checkbox is checked, and the 'Activation Date' and 'Expiry Date' are both set to '2010/12/22'.
- (6) **Name, Description, Password, Confirm Password**: These fields are empty text boxes.

At the bottom of the dialog, there are buttons for 'OK', 'Cancel', and 'Default'.

### (1) Authorization level

Select the status of the user.

## (2) Control Right

Enable the items that would allow the user to access.

## (3) Web Viewer

Enable/disable Web Viewer control right that allow the user to operate from a remote location using internet explorer.

- **Remote Console**

Allow the user to remote modify NVR system setting.

- **Remote LogViewer**

Allow the user to view the event log from remote site.

- **IP Camera**

Enable/disable user to add new IP camera when using the Web Viewer.

- **Remote Access Time**

Enable **Infinite** check box to access NVR without time limit. If you want to set time limit, enter the number of minutes in **Minute** text box.

## (4) Visible Camera

Select the camera number that would allow the user to access or view. To select all the cameras, enable the **ALL** check box.

## (5) Time Span

Set the user account a specific time period that user only can use given account to login NVR program in that specific period. Mark **Enable** check box and select the **Activation Date** and **Expiry Date**.

## (6) Name

Enter the user name.

### **Description**

Enter the user description.

### **Password**

Enter the user password.

### **Confirm Password**

Enter the same user password for confirmation.

# Chapter 4 Using the USB Playback Console

## 4.1 Recommended system requirements

- ☐ Pentium®4 2.4GHZ or above
- ☐ Windows®2000/ XP/ Vista/ 7
- ☐ DDR 256 MB
- ☐ Graphic function must support DirectDraw
- ☐ Audio card or built-in
- ☐ Speaker
- ☐ 1 available USB2.0 port

## 4.2 Installing the USB Playback Console

To install the USB Playback Console:


1. Place Installation CD into the CD-ROM drive. When the installation main screen appears, click **Install USB Playback Console** and then follow the on screen instructions
2. Select the language you prefer




3. Click **OK** to install the application
4. Click **Exit** to close the installation main screen.
5. You may now connect the external USB enclosure that has recorded files HD inside to the PC. Also, user can install the hard disk that contains recorded files inside the PC.












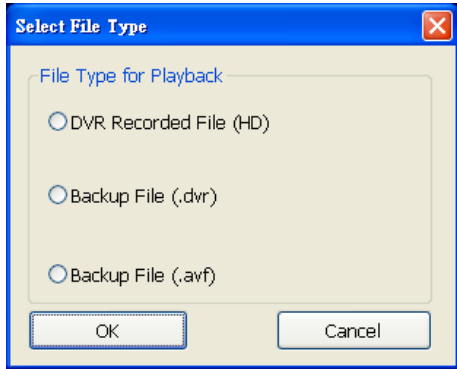
## 4.3 Running the USB Playback Console

To run the application, click the  icon on the PC desktop. The USB Playback Console UI will be difference according to the source of file (**DVR Recorded File(HD)** or **Backup File(.dvr)**)



Name	Function
(1) Split Screen Mode	Select from different screen view to playback the recorded video file of the entire camera or one camera on screen. If NVR server only supports 4 channels, the channel screen 5~16 will be no video display.
(2) Exit	To close the application.
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame. The Hour button will be available when file source is <b>Backup File(.dvr)</b> and backup file is open by <b>date</b> .
<div>  <p>The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.</p> </div>	

(5) Playback Control button	<p>From left to right order:</p> <ul style="list-style-type: none"> <li> <b>Begin:</b> Move at the beginning of the recorded video file.</li> <li> <b>Previous:</b> Go back to the previous frame by frame.</li> <li> <b>Slower:</b> Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x.</li> <li> <b>Rewind:</b> Wind back the recorded video file.</li> <li> <b>Pause:</b> Briefly stop playing the recorded video file.</li> <li> <b>Play:</b> Play the recorded video file.</li> </ul>
-----------------------------	--

Name	Function
(5) Playback Control button	<p> <b>Faster:</b> Play the recorded video file at the speed of 2x, 4x, 8x, 16x, or 32x.</p> <p> <b>Next:</b> Go to the next frame by frame.</p> <p> <b>End:</b> Go to the end of the recorded video file.</p>
(6) Archive	<p>To select the video file source for playing.</p>  <ul style="list-style-type: none"> <li>- <b>DVR Recorded File (HD):</b> To playback the recorded video from the hard disk which was recording video on the NVR system. (see also <a href="#">Chapter 4.3.2</a>)</li> <li>- <b>Backup File(.dvr):</b> The file is backup and save in *.dvr file format. (see also <a href="#">Chapter 4.3.3</a>)</li> <li>- <b>Backup File (.avf):</b> The file is backup and save to external USB storage device in *.avf format. Select the file source folder and click <b>OK</b> to playback (NVRP4 doesn't support *.avf file format).</li> </ul>
(7) Status bar	Display the recorded date, time and play speed.
(8) Language	To switch language of function tips.
(9) Advanced	<p>Advanced function is including :</p> <ul style="list-style-type: none"> <li>■ <b>HDD Backup:</b> to call out HDD Backup application. (see also <a href="#">Chapter 4.3.4</a>)</li> <li>■ <b>iEnhance:</b> to call out iEnhance application. ( see also <a href="#">Chapter 5</a>)</li> <li>■ <b>AVF to AVI:</b> Transferring the AVF file to AVI file format(NVRP4 doesn't support this function)</li> </ul>
(10) Export	<p>Export includes Snapshot, Print, Output Video Clip, and Export KML function.</p> <ul style="list-style-type: none"> <li>■ <b>Snapshot:</b> Capture and save the screen shot either in *.jpg or *.bmp format.</li> <li>■ <b>Print:</b> Print the screen shot.</li> <li>■ <b>Output Video Clip:</b> Save the segmented file in *.dvr, *.mpeg, or *.avi format (see also <a href="#">Chapter 4.3.1</a>).</li> </ul>
(11) Segment	Keep a portion of the recorded video (see also <a href="#">Chapter 4.3.1</a> ).
(12) Full screen	<p>Use the entire area of the screen to only display the video. To return, press the right button of the mouse or <b>ESC</b> on the keyboard.</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(13) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera. The Camera ID will be available when source file is <b>NVR Recorded File (HD)</b> .
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second(See also <a href="#">Chapter 3.6.3</a> ). The Visual Search function will be available when file source is <b>Backup File(.dvr)</b> and file open is by <b>date</b> .
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function. When file source is <b>NVR Recorded File (HD)</b> , the Find Next is not available.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss). (See also <a href="#">Chapter 3.6.4</a> ) When file source is <b>DVR Recorded File (HD)</b> , the Event Search is not available.

Name	Function
(17) Intelligent Search	Search the changes in the motion detector frame (See also <a href="#">Chapter 3.6.5</a> ). When file source is <b>DVR Recorded File (HD)</b> , the Intelligent Search is not available.
(18) Sound /Sound bar	Turn on and off the sound Increase and decrease the volume
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

### 4.3.1 To Segment and Save the Desired Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.



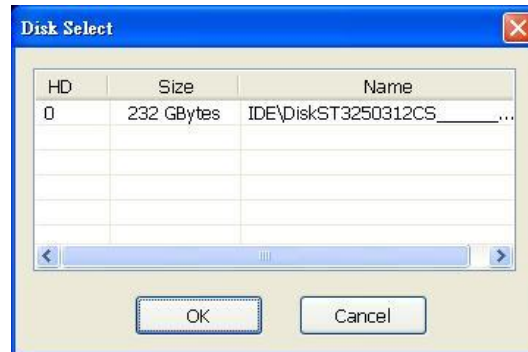
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.



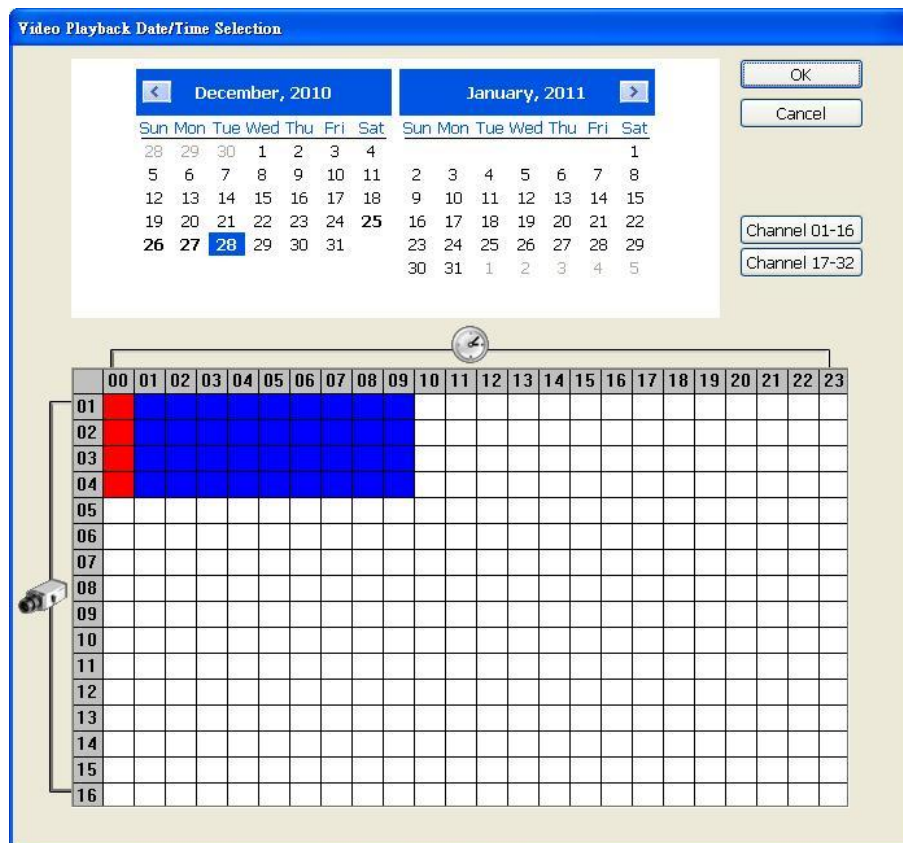
3. Click **Export > Output Video Clip** button to save the wanted portion.
4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format (\*.dvr, \*.mpeg, or \*.avi).

### 4.3.2 Playback NVR Recorded File from Hard Disk

1. Please have the hard disk which containing of recorded video data install on your PC or using external USB enclosure to connect to your PC.
2. Run the USB Playback Console program or click **Archive** from UPC program UI.
3. Select **DVR Recorded File(HD)** and click **OK**.
4. Select the hard disk drive from **Select Disk** window and click **OK**.



5. And then, Video Playback Date/Time Selection window appears. Select the date and time and click **OK**.

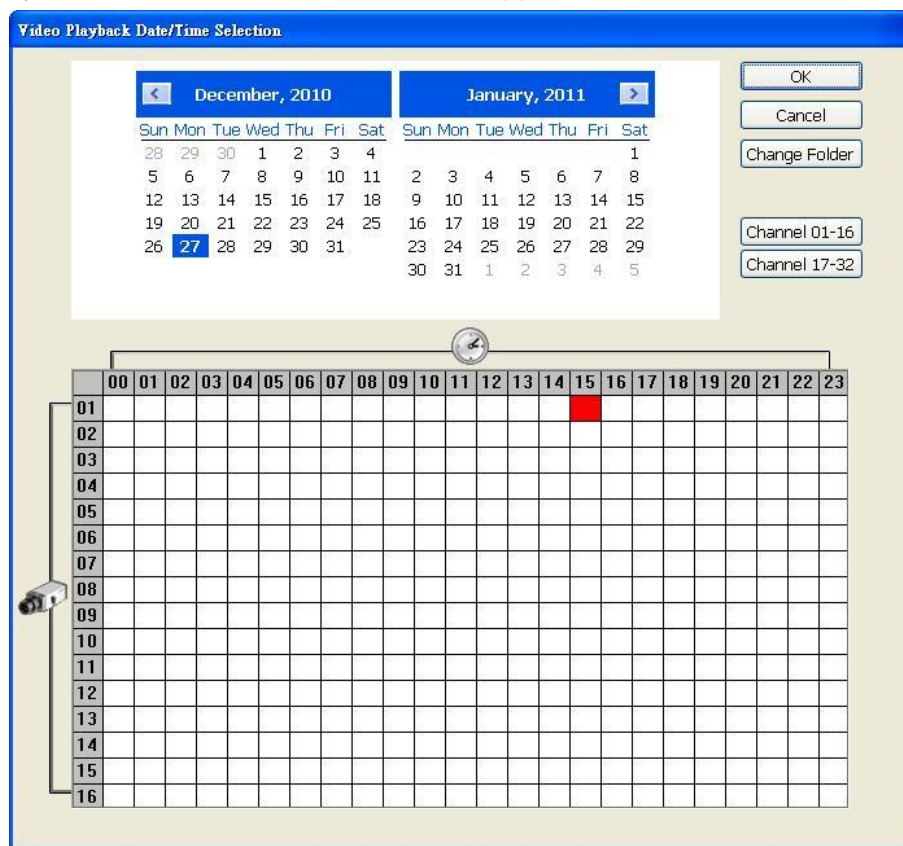


### 4.3.3 Playback Backup File(\*.dvr)

1. Click Open File button.
2. Select **Backup File(\*.dvr)** and click **OK**.
3. Select to open by date or by file.



4. **Open Date:** Located the backup file and select the date folder.
5. And then, Playback Date/Time Selection window appears. Select the date and time and click **OK**.



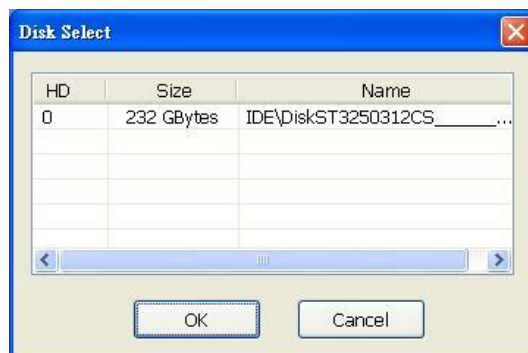
6. **Open File:** Located the backup file folder and click **OK**.



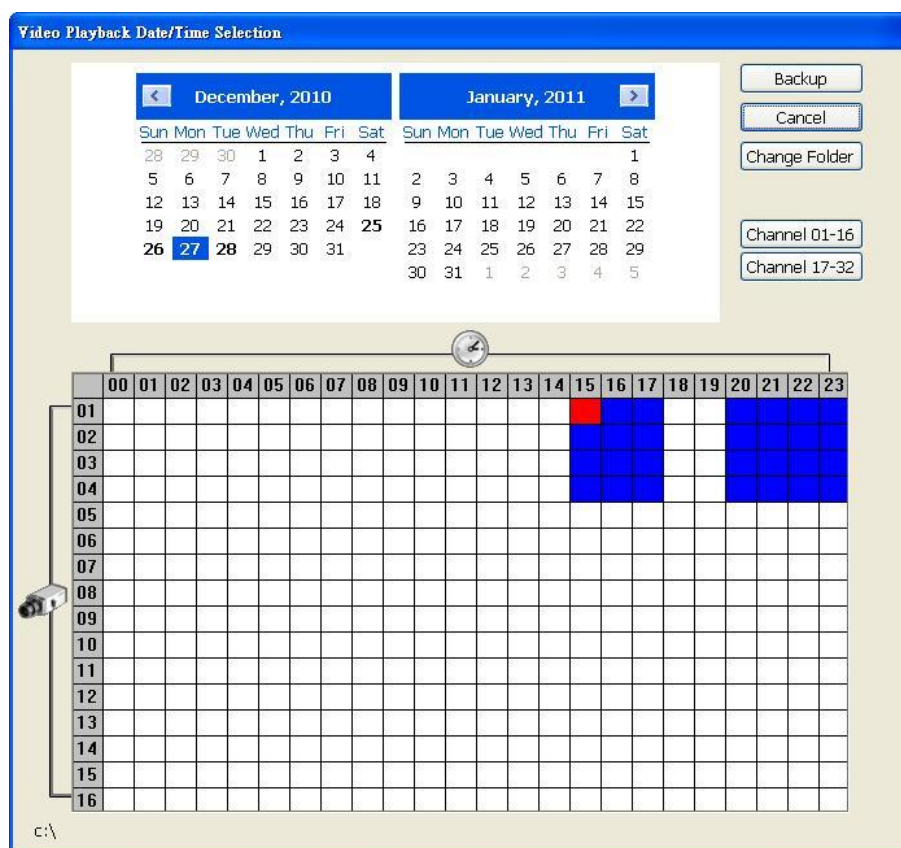
### 4.3.4 To Backup Recorded File

HDD backup function allows user to backup recorded file from hard disk.

1. Click **Advance >> HDD Backup** on UPC UI.
2. Select the source hard disk.



3. In Backup date/time selection window, select the date and time. 00-24 represents hours and 01-04 represents channels. Blue block means there has recorded file. Red block means the block has been selected. Click-and-drag can select multiple blocks at once. If user wants to change the backup file location, click **Change Folder** to select new save location.



4. Click **Backup** to start backup file.



5. When backup complete, the complete information window will display.



## Chapter 5 Using the Remote Programs

User can use Microsoft Internet Explorer to access NVR system by entering the IP address. To use this feature, make sure that your PC and NVR server both are connected to the internet and the Network feature is enabled.

Accessing this feature for the first time you will be prompted by your browser to install PCViewX.cab, allow the installation and you should be able to connect and login afterwards.

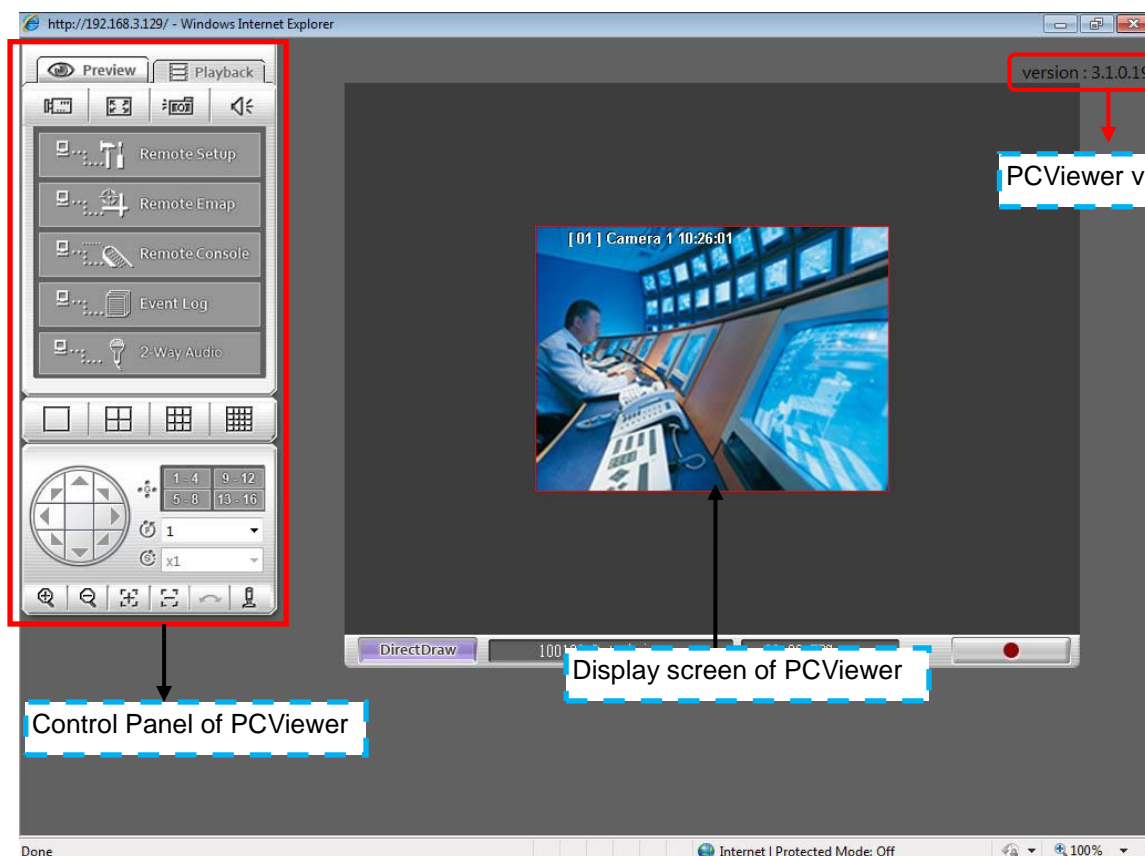
For Windows XP/Vista/7, click Install when the Internet Explorer - Security Warning dialog box appears.

After installing the PCViewX.cab and when connecting to the NVR system, you are required to enter account ID and password; then, select the type of network. **Admin** account has the authority to remote setup the NVR system configuration on PCViewer. User account only can preview the video on PCViewer and Remote Console.



- To have smooth remote frame rate, it's suggested to connect NVR by selecting **WAN (512K/64K)** as the Network Type on PCViewer.
- To operate full remote function, please use "Administrator" account to execute IE browser.

After login, the PCViewer interface is displayed.

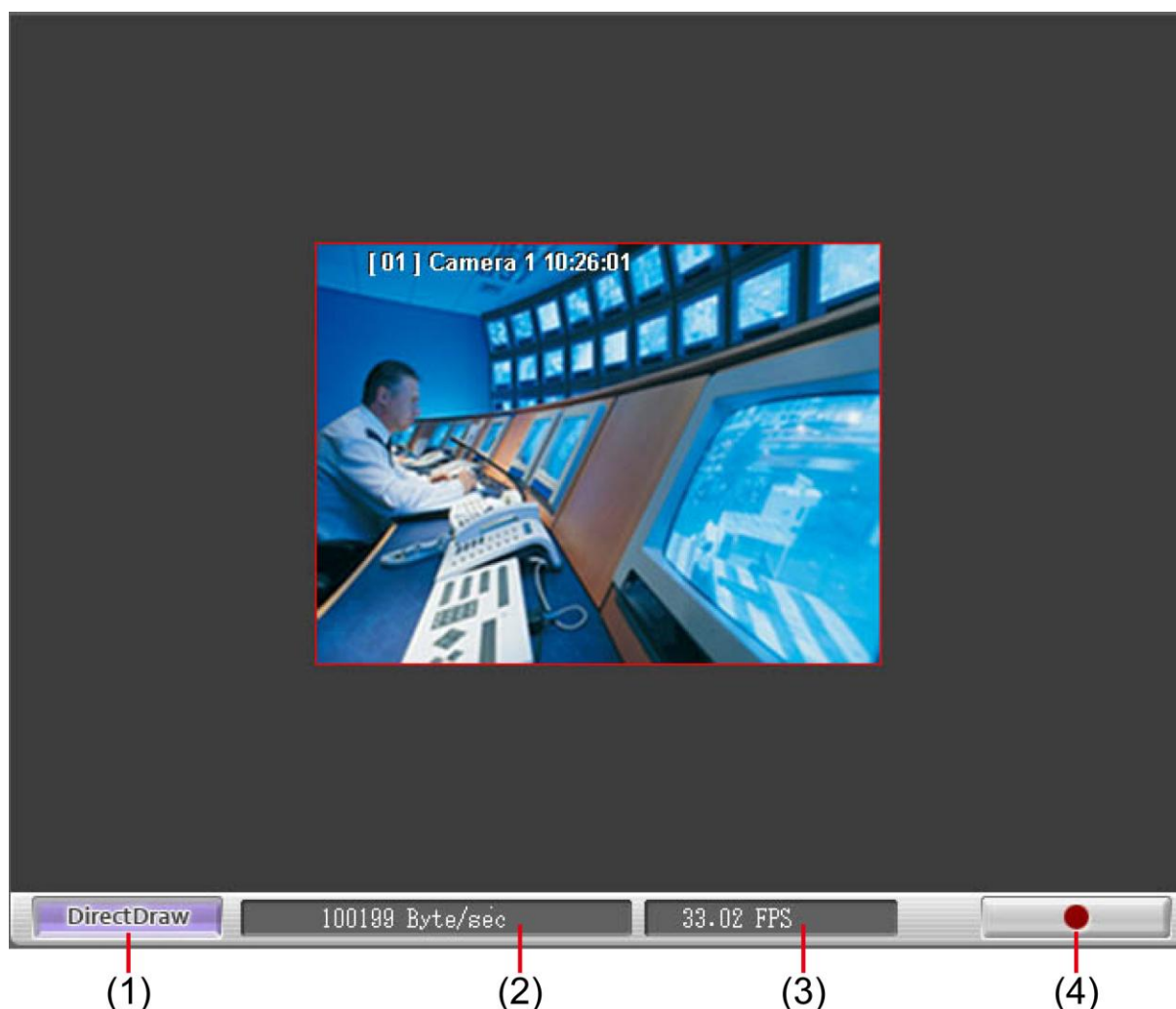


## 5.1 Familiarizing the Buttons in PCViewer

### 5.1.1 PCViewer Screen

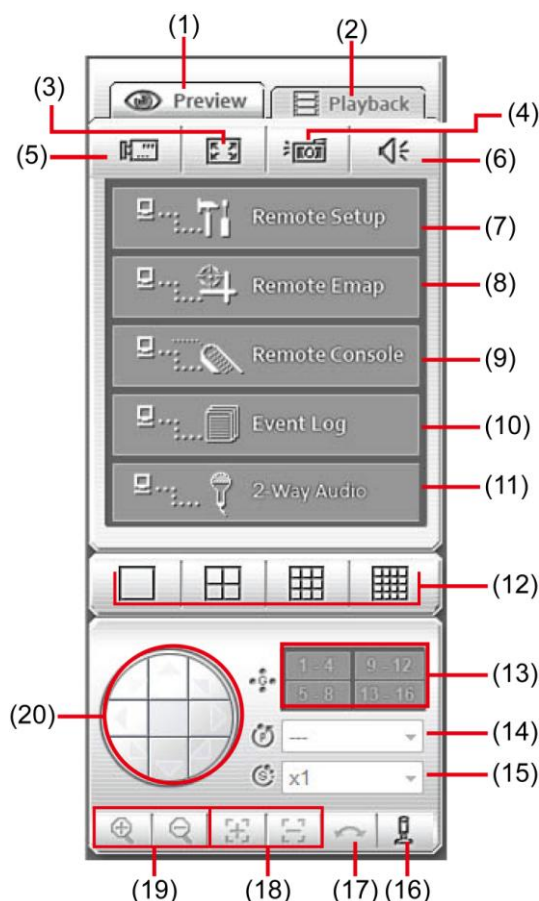
Right-clicking on the PCViewer video screen, enables user to start video recording, change video quality, switch camera, enable/disable DirectDraw and view server information.

- **Start Recording:** To operate the start recording on short-cut menu, the account authority that user uses to access NVR system needs to be enabled on User setting (see [Chapter 5.10](#)).
- **Select Camera:** Select a camera channel to view.
- **Enable DirectDraw:** Enable/disable DirectDraw function.
- **Server Information:** The server information is shown NVR server's information, not the PC that user has to connect with NVR server.



Name	Function
(1) DirectDraw	Enhance the video quality.
<b>i</b> Not all graphic cards can support this function. If you cannot see the screen display correctly or screen is messed, please check with VGA card vendor.	
(2) Received file size	Indicate the size of the data being sent per second.
(3) Camera frames	Indicate the number of frames per second.
(4) Record	Start to record the video of the selected camera in AVI format. Directly click screen to select the channel that user wants to record and press <b>Record</b> button.

## 5.1.2 PCViewer Control Panel



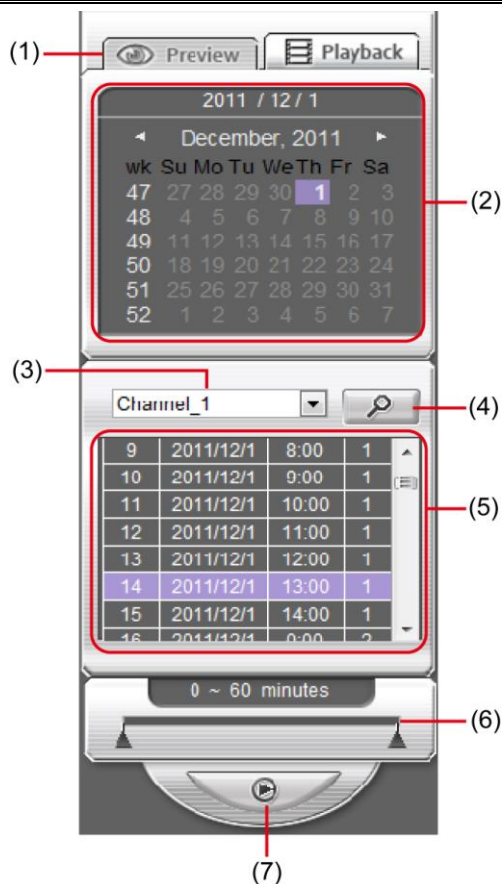
Name	Function
(1) Preview Mode	Switch to preview mode control panel.
(2) Playback Mode	Switch to playback mode control panel(see also <a href="#">Chapter 5.1.3</a> )
(3) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press ESC on the keyboard.
(4) Snapshot	Capture and save the screen shot in *.bmp format.
(5) Select cameras to view	Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera. Click <b>Add Server</b> and select the server type between NVR and IP Cam to add. Click <b>Delete Server</b> to delete the selected item. Click <b>Import</b> to load the previous saved list. Click <b>Export</b> to save the list. Click <b>Apply All</b> to change all the camera video quality based on the selected setting.
(5) Select cameras to view	Click <b>OK</b> to exit. <b>i</b> To add IP Cam, user need to enable IP Camera control right at the <b>User setting</b> of NVR system.
(6) Audio	Enable/disable remote sound.
(7) Remote setup	Change the NVR server settings (see also <a href="#">Chapter 5.1.4</a> ).
(8) Remote Emap	Display the NVR server Emap screen.
(9) Remote Console	Initiate Remote Console. The interface is the same as NVR application and allows you to control NVR server (see also <a href="#">Chapter 5.2</a> ). Remote Console application can be installed from Software CD, too.
(10) Event Log Viewer	Display the Event logs, Operation logs, POS logs, System logs, and Network logs.

Name	Function
(11) 2-Way Audio	<p>Enable/disable 2-way audio function. This function allows the client and server to talk via internet using MIC.</p> <p>Make sure your microphone and speakers work before using this function. If the NVR server Talk to web-client setting is disabled, you won't be able to hear from the other side.</p>
(12) Split screen view	Select from four different split screen types to view all the cameras.
(13) Auto Pan Group	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(14) Camera preset position number	Move the PTZ camera to the preset point.
(15) Direction buttons' moving speed	Adjust the moving speed of the PTZ camera lens. This speed will apply to the <b>(20) Direction buttons'</b> moving speed only.
(16) Select PTZ	<p>Choose to enable/disable the PTZ camera. In the Select PTZ dialog box, Select column, click to enable/disable viewing and controlling the PTZ camera.</p> <p>Click <b>OK</b> to exit and save the setting and <b>Cancel</b> to exit without saving the setting.</p>
(17) Auto Pan	Enable the PTZ cameras automatically based on the selected camera group preset position number.
(18) Zoom +/-	Zoom the image in or out.
(19) Focus +/-	Adjust the focus manually to produce clear image.
(20) Direction Buttons	Adjust and position the focal point of the PTZ camera. The supported direction buttons are depended on the PTZ camera has supported.

### 5.1.3 Playback Mode Control Panel



The PCViewX.cab. installation is required for first time using PCViewr playback function. The PCViewX.cab installation requirement is appeared when user select Playback function.



Name	Function
(1) Preview Mode	Switch to preview mode control panel
(2) Date	Select the date that user wants to playback. Click ◀ ▶ icon can switch month and year. The selected date is highlight with purple color.
(3) Channel	After select the date, please select the channel that user wants to playback or select all channels.
(4) Search button	After selected date and channel, click search button to find the recorded file. The result of search result is displayed below area.
(5) Search result	Display the search result that is searched base on the date and channel user has selected. Select the recorded time file in result table and click play button to playback.
(6) Playback time progress bar	User can setup the certain time period for playback. The recorded file default is playback in 60 minutes long. User can adjust to the specific time period to playback instead to move the scroll bar while playback.

## Name

## Function

(7) Play button

After select the file, click it to start playback.



Move to the begin



Move to the end

Playback  
starting time

Current playback information

Playback  
end time

13:03:00 Channel 1 2011/12/1 13:03:00.980 14:00:00

Time progress





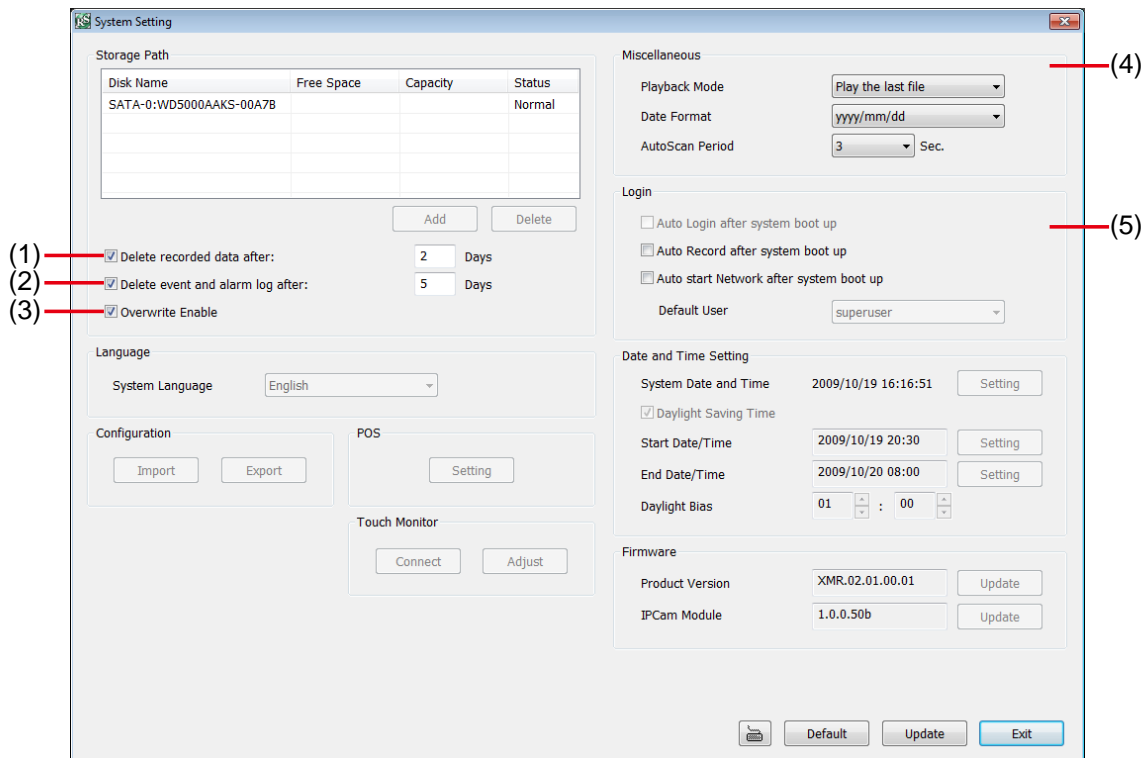
## 5.1.4 To Setup Remote System Setting

The setting here applies to Remote NVR only. Click the selection to configure.



### 5.1.4.1 System Setting

In the System Setting window, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting.



#### (1) Delete recorded data after

If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the numbers of days in **Days** text box.

#### (2) Delete event and alarm log after

If you want the system to automatically erase the event and alarm log files after a certain days, enable the **Delete event and alarm log after** check box and enter the numbers of days in **Days** text box.

#### (3) Overwrite Enable

When there is not enough free space to record one hour data, the system automatically replaces the oldest data.

#### (4) Miscellaneous

Enable the conditions in **Miscellaneous** section you want the system to perform.

##### - Playback Mode

Select the mode of playback the video.

- ✓ **Select date and time:** Select the date and time which user wants to playback.
- ✓ **Play the last file:** Automatically playback the video from the last hour
- ✓ **Instant Playback:** Automatically playback the video which has just recorded

##### - Date Format

Select the date format which wants to display in **Select date and time** playback mode

- **Auto Scan Period**

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

### (5) Login

Enable the conditions in Login section you want the system to automatically carry out.

- **Auto Record after system boot up**

Automatically start video recording when the NVR is executed.

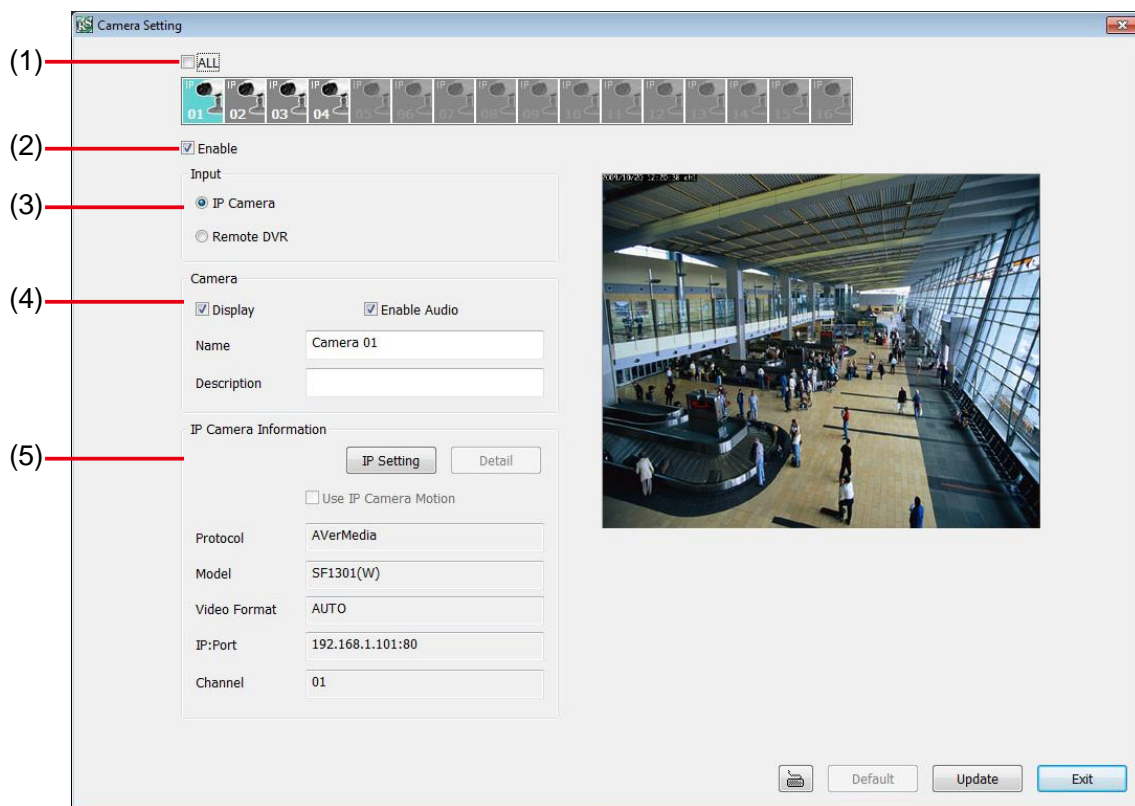
- **Auto start Network after system boot up**

Automatically connect to network when the NVR is executed.

## 5.1.4.2 Camera Setting

Select the camera from remote NVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

### IP Camera Setting



#### (1) Camera Icons

Select the camera number you want to adjust the video setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, Right click on the camera icon. To select one camera only, Left click on the camera icon. The camera icon turns red when it is selected.

#### (2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

#### (3) Input

Select the type of camera as IP camera. To modify camera of remote NVR, see [Remote NVR Camera Setting](#).

#### (4) Camera

- **Display**

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- **Enable Audio**  
Enable/disable audio of the camera.
- **Name**  
Change the camera name
- **Description**  
Add a short comment

#### (5) IP Camera Information

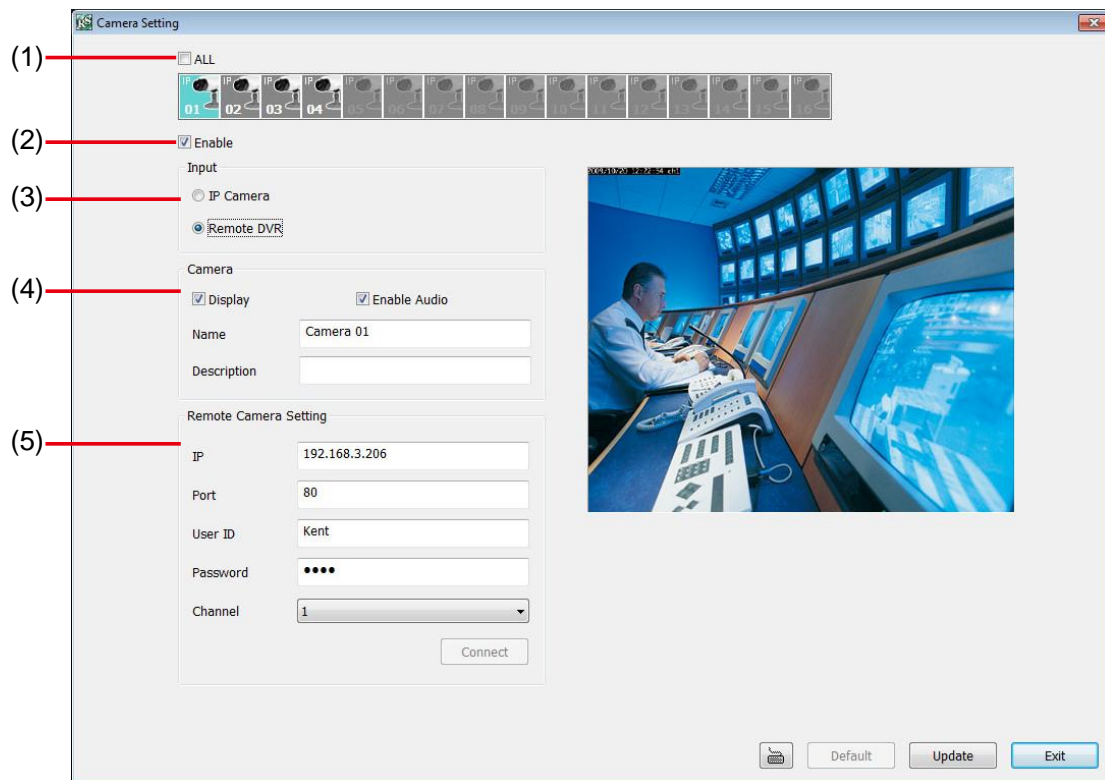
Click **IP Setting** to setup the parameters of the IP camera.

The screenshot shows the 'IP Camera Settings' window. Under the 'IP Camera Information' tab, the 'Protocol' is set to 'SPECO', 'Model' to 'SIPMPB', 'Video Format' to 'AUTO', and 'Channel' to '1'. The 'IP Camera Site' is configured with the IP address '192.168.201.181' and port '80'. The 'URL' option is not selected. The 'Authentication' checkbox is checked, with 'ID' set to 'admin' and 'Password' masked with asterisks. 'OK' and 'Cancel' buttons are at the bottom.

1. Select the **Protocol**, **Model**, **Video Format**, and **Channel** of the IP camera.
2. Enter IP address and connecting port in **IP Camera Site** column.
3. Also, user can enter URL of IP camera instead of IP address.
4. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
5. Click **OK** to connect with the IP camera.

## **Remote NVR Camera Setting**

Select the camera to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.



### **(1) Camera Icons**

Select the camera number you want to view. To enable/disable all cameras, click **ALL** check box.

### **(2) Enable**

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

### **(3) Input**

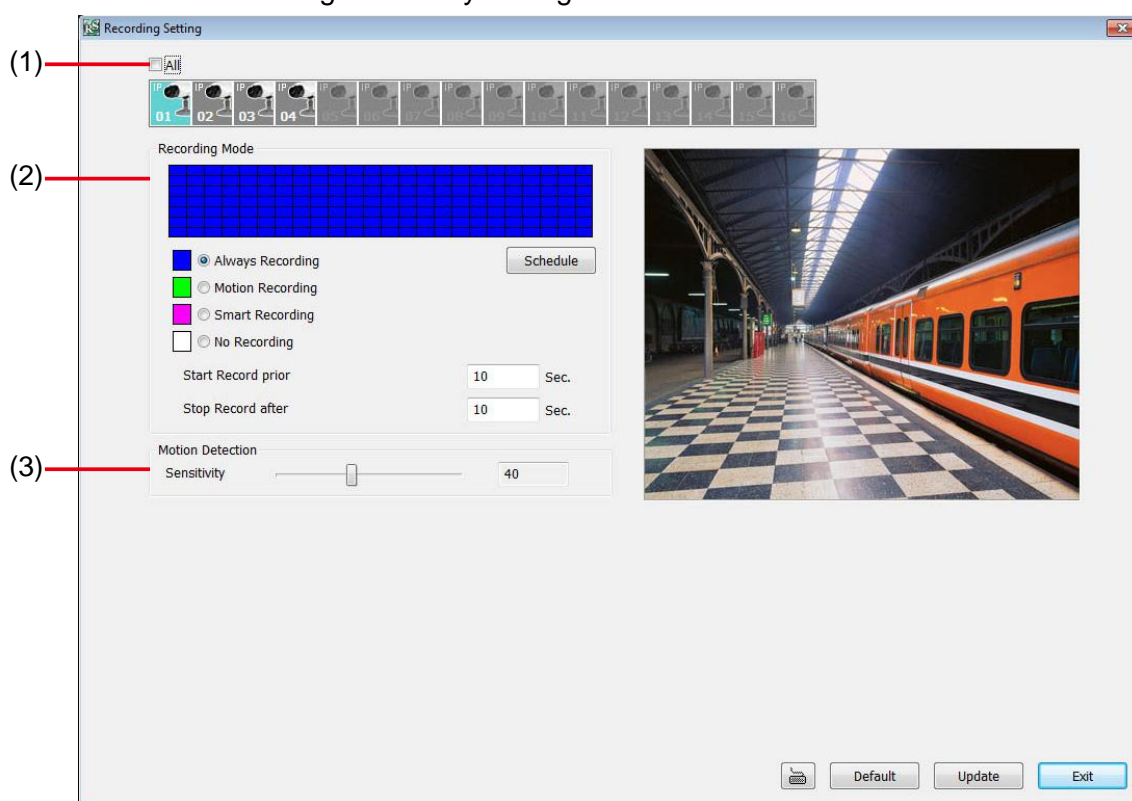
Select the camera type as **Remote DVR**. For IP camera setting, see [IP Camera Setting](#).

### **(4) Camera**

- **Display**  
Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.
- **Enable Audio**  
Enable/disable audio of the camera.
- **Name**  
Change the camera name
- **Description**  
Add a short comment
- **IP**  
Enter the IP address of the camera
- **Port**  
The port for connection
- **User ID**  
Enter the user id that for connecting authority
- **Password**  
Enter the password that is for connecting authority
- **Channel**  
Select the channel of connected camera

### 5.1.4.3 Record Setting

In the Recording setup window, click **OK** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting.

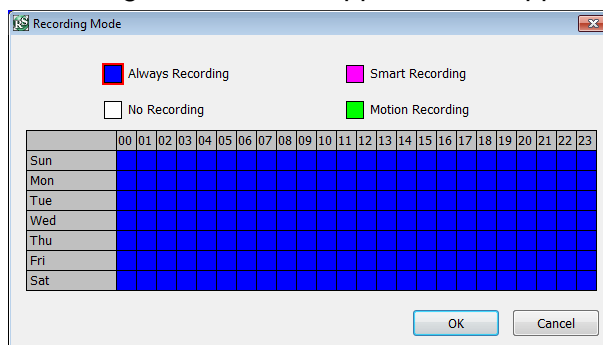


#### (1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

#### (2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the **☉** button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

- **Always Recording**

Record the video from the selected camera and save it to the designated storage path

- **Motion Recording**

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

- **Smart Recording**

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

- **No Recording**

The system won't do any recording.

**(3) Motion Detection**

Adjust the sensitivity of the motion detection. The higher the value, the finer the sensitivity is detected. When it detects a motion, a green triangle mark would appear at the upper left corner of the screen.



### 5.1.4.4 Network Setting

In the Network Setting dialog box, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting. For the network service ports that use by NVR server, please see [Appendix A](#).



If user has changed the configuration and cause remote NVR's IP address has changed, the remote NVR system will disconnect the remote access connection automatically.

The screenshot shows the 'Network Setting' dialog box. It contains several sections: 'Server Name' (EXR6004WiFi), 'Transmitting Cameras' (with checkboxes for cameras 1-16 and an 'All' checkbox), 'Main Configuration' (Server IP: 192.168.2.61, Remote Console PORT: 5550), 'Remote Update Configuration' (PORT: 5005), 'WebViewer Configuration' (Enable Anonymous Login: unchecked, WebViewer PORT: 80), 'Network Time Synchronization' (Time Server: time.stdtime.com.tw, Time Zone: GMT+00:00, Automatic synchronize at: 01:00), and 'Other Configuration' (Enable White List: checked, Network Bandwidth Limit: checked). At the bottom are buttons for 'Default', 'Update', and 'Exit'. Red lines with numbers (1) through (4) point to specific fields: (1) points to 'Server Name', (2) points to the 'Transmitting Cameras' section, (3) points to the 'Time Server' field, and (4) points to the 'Detail' button next to 'Enable White List'.

#### (1) Server Name

Assign a name for the NVR unit. Alphabet letters and numbers only.

#### (2) Transmitting Cameras

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer, Remote Console, PDA Viewer and JavaViewer (still image). To select all the cameras, enable the **ALL** check box.

#### (3) Network Time Synchronization

Adjust the NVR system time same as network time server. Fill in the **Time Server** IP address or domain name. Select the **Time Zone** that NVR is located. And then, mark the **Automatic Synchronize** time to set automatic synchronize time on a daily basis.

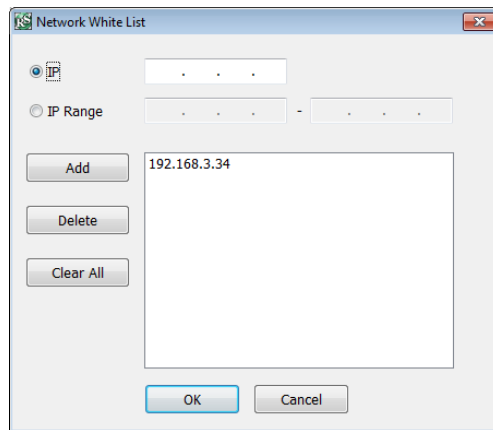
#### (4) Other Configuration

##### - Enable White List

An access permit list for the remote accessing of NVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



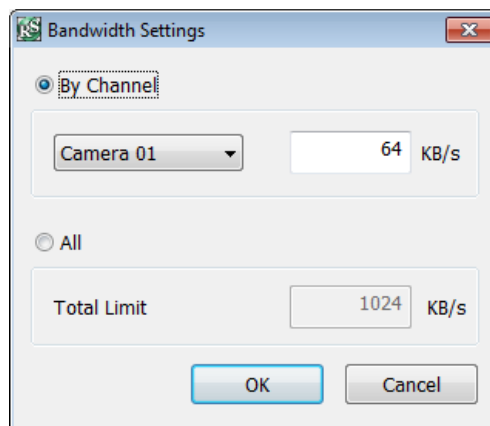
- When user changed IP range in white list setting and it causes the IP address of PC that connected with remote NVR server has been excluded in white list, the remote NVR server will disconnect the connection automatically. Please change the IP address of PC to the IP range in white list and re-connect with remote NVR server.
- Without any IP address/IP range is assigned in White List table, none of IP address/IP range is allowed to access NVR when White List function is enabled.



- **Network Bandwidth Limit**

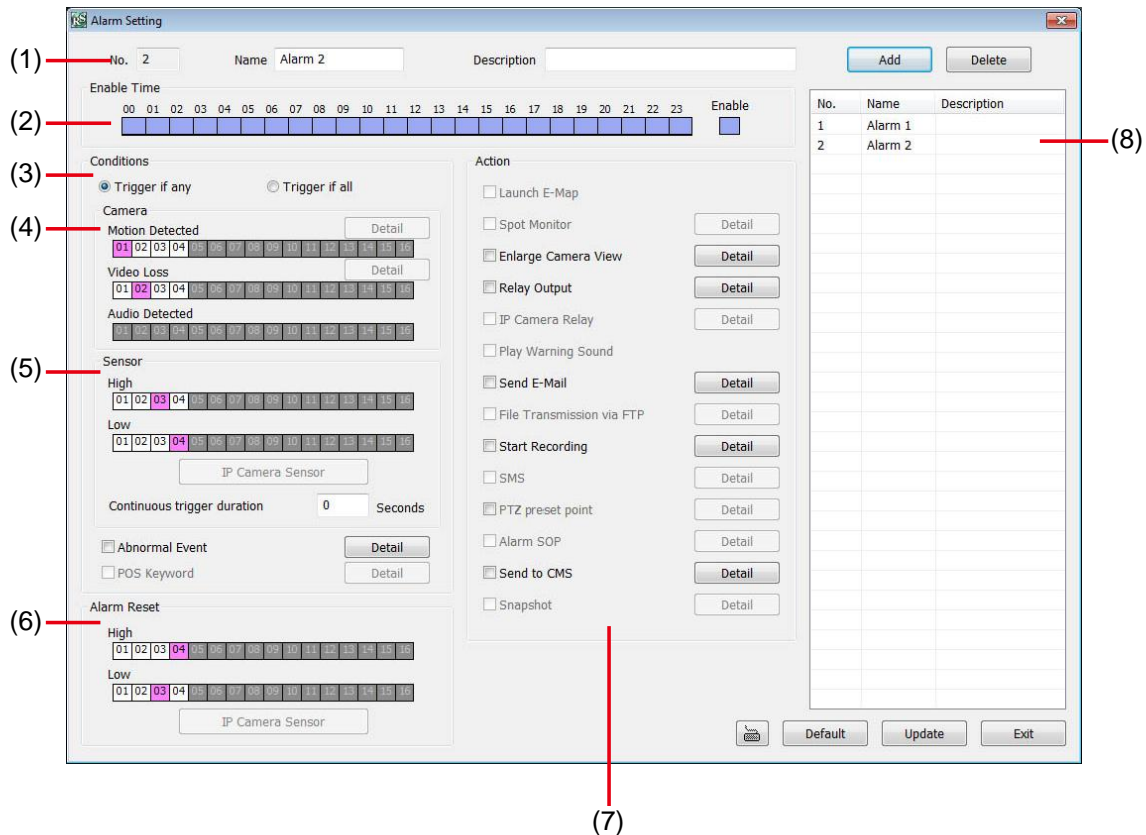
**By Channel:** Set the network bandwidth by each channel.

**All:** Set the total network bandwidth consumption limit.



### 5.1.4.5 Alarm Setting

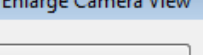
In the Alarm Setting dialog box, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **Update** to save the setting, **Exit** to exit without saving, and **Default** to revert back to original factory setting.



1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8) Alarm Setting List** if you want to modify the alarm setting.
2. In **(1) No./Name/Description** enter alarm name and description. Alarm **No.** will be created by NVR system.
3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
4. In **(3) Conditions**, you can set “**Trigger if any**” to activate if it falls to one of the conditions or “**Trigger if all**” to activate if it falls to all conditions.
5. In **(4) Camera** section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
6. In **(5) Sensor**, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
  - Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.
    - **Reboot:** when the NVR system reboot without abnormal condition, the system will send out the alarm message.
    - **Abnormal Reboot:** when the NVR system reboot in irregular condition, the system will send out the alarm message.
    - **Recording is switched off:** when the recording has been stopped, the system will send out the alarm message.
    - **Network is switched off:** when the network connection of NVR system is lost, the system will send out the alarm message.
    - **Hard Disk failed:** when the hard disk doesn't work normally, the system will send out the

alarm message.

- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6) Alarm Reset**, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.
- **Enlarge Camera View**  
Switch to only display video in Preview mode from where the alarm is activated.
  - a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
  - b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0~ 600 seconds.



Enlarge Camera View

Camera02

Retrieve time 10 Sec.

OK Cancel

- **Relay Output**

Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

  1. Next to the Relay Output check box, click **Detail**.
  2. In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
  3. In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
  4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

The screenshot shows a software window titled "Alarm Relay". It features a close button (X) in the top right corner. The main area contains a table with three columns: "No.", "Name", and "Status". The first row has the values "01", "Relay01", and "On". Below this are several empty rows. At the bottom left, there is a checked checkbox labeled "Retrieve time". To its right is a text input field containing the number "10", followed by the label "Sec.". At the very bottom are two buttons: "OK" and "Cancel".

No.	Name	Status
01	Relay01	On

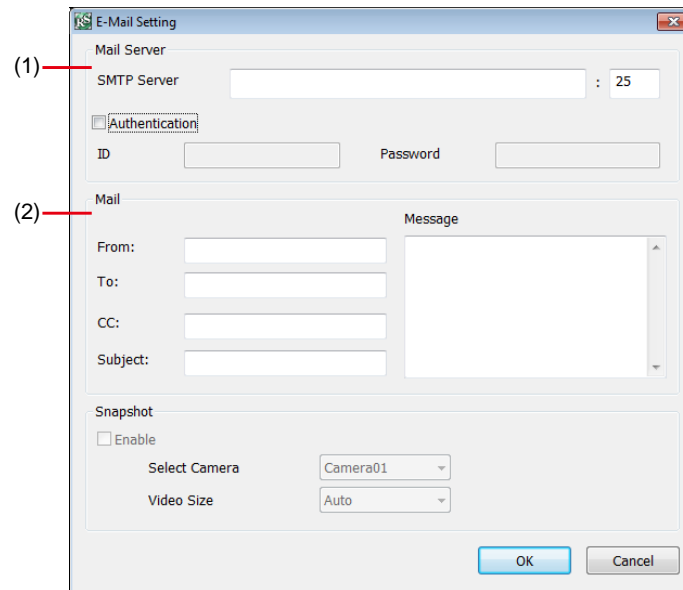
☒ Retrieve time      10      Sec.

OK Cancel

## - Send E-mail

Send an electronic text message. Next to the Send Email check box, click **Detail**.

In the E-mail Setting dialog box, click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.



### (1) Mail Server

Enter the **SMTP Server** and **port**. If your e-mail system requires user identification, enable **Authentication** check box and enter **ID** and **Password**.

### (2) Mail

Fill the mailing information.

**From:** Enter the sender e-mail address.

**To and CC:** Enter the recipient email address and separate it with comma or a semicolon (;).

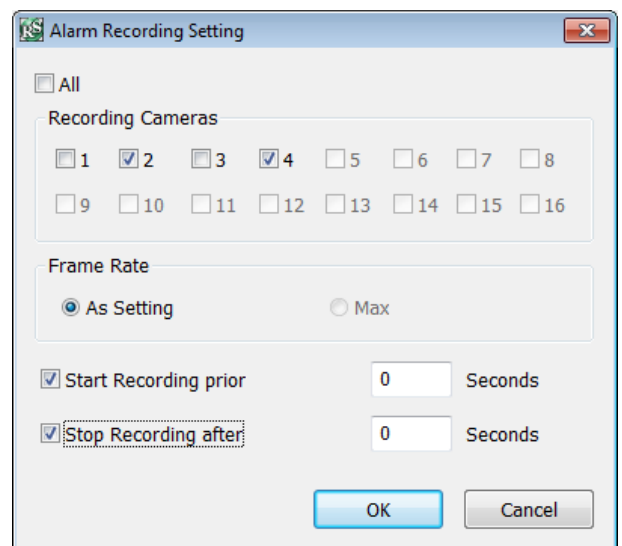
**Subject:** Enter the message title.

**Message:** Type the message.

## - Start Recording

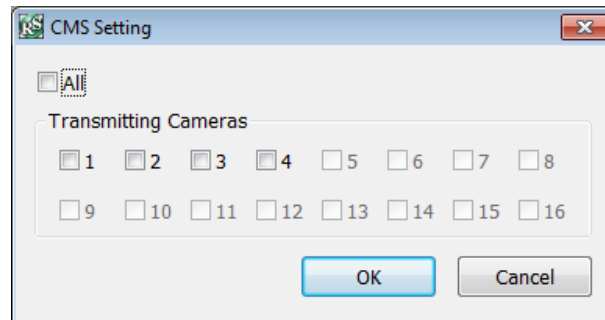
Record the video from the selected camera.

- Next to the Start Recording check box, click **Detail**.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable **All** to select all cameras.
- In the Frame Rate selection, select **As Setting** to record the number of frames based on the Recording Setting.
- In the **Start Record prior** text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.
- In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- Click **OK** to accept the new settings and **Cancel** to exit without saving.



- **Send to CMS (Central Management System)**

Enable/disable the selected camera to send video to CMS when the alarm is activated. Next to the Send to CMS check box, click **Detail**. In the CMS Setting, select the camera to enable/disable sending the video to CMS. Enable **All** to select all cameras. Then, click **OK** to accept the new settings and **Cancel** to exit without saving.





## 5.2 Familiarizing Yourself with the Buttons in Remote Console



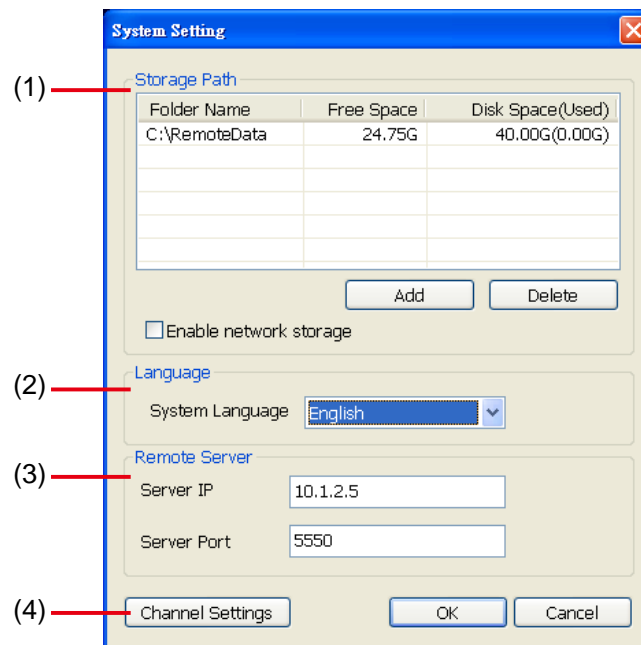
Name	Function
(1) Exit	Close the Remote Console.
(2) Split Screen Mode	Select from 1, 4, or 7+1 split screen type to playback the recorded video file.
(3) Record	Start/stop video recording.
(4) Network	Enable/disable remote system access. This feature allows you to access NVR server from a remote location via internet connection.
(5) Setup	Configure the Remote Console setting. (see also <a href="#">Chapter 5.2.1</a> )
(6) PTZ	Access PTZ control panel (see also <a href="#">Chapter 5.2.2</a> ).
(7) Preview	Switch to Preview/Playback mode. This allows you to view live camera display.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also <a href="#">Chapter 5.3</a> )
(9) Status Bar	Display the current date, time and hard disk free space.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Event Log	Display the Event logs, Operation logs, System logs, and Network logs.
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(13) Auto Scan	Start/stop video screen cycle switch.
(14) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press <b>ESC</b> on the keyboard.
(15) Alarm	Alert and display warning info. Administrator and user both can reset the alarm.
(16) Audio button	Enable/disable the sound.
(17) DirectDraw	Enhance the video quality.



Direct Draw function supports for certain VGA card. For more information, please contact your VGA card vendor.

## 5.2.1 To Setup Remote Console Setting

Click **Setup** button to call out the **System Setting** window. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.



### (1) Storage Path

Set the directory on where to save the data. When there is not enough free space to record one hour data, the system automatically replaces the oldest data. In case you have more than one storage path, the system automatically saves the data to the next storage path. By default the data is stored in C:\RemoteData, to insert another storage path, click **Add**. To remove the selected path, click **Delete**.

- **Enable network storage**

Select the Enable network storage check box to send the recorded video in network-attached storage.



To add network storage, the Internet storage drive/folder must be mapped as Network Driver in NVR server. To know how to assign or connect to a network drive, please refer to your Windows help file and search "Map Network drive".

### (2) Language

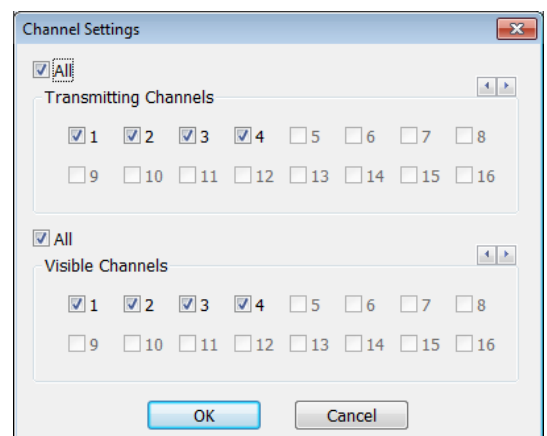
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

### (3) Remote Server

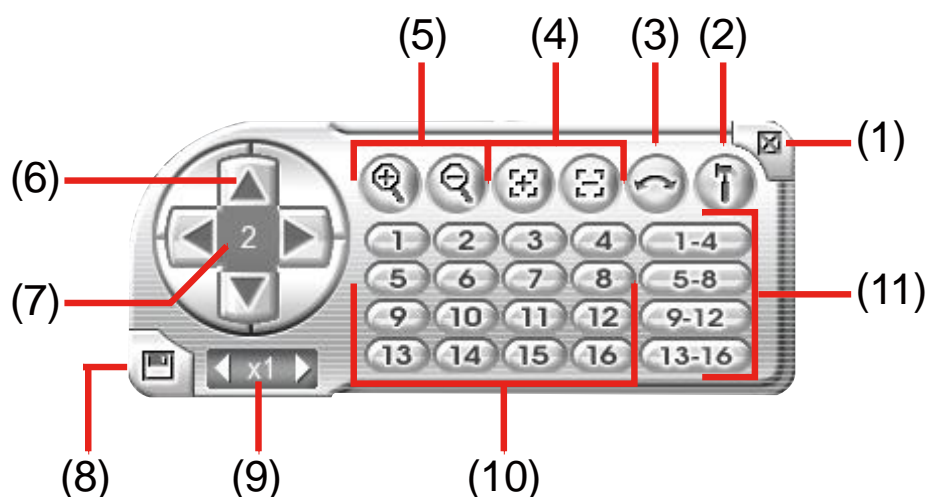
Enter the NVR Server IP and Server Port number.

### (4) Channel Settings

The numbers from 1 to 4 represent the camera ID. In Transmitting Channels section, enable the camera number to receive the camera signal from the server. In Visible Channels section, enable the camera number to view the camera signal on Remote Console screen. To select all the cameras, enable the **ALL** check box.



## 5.2.2 Familiarizing Yourself with the Buttons in PTZ Camera Controller



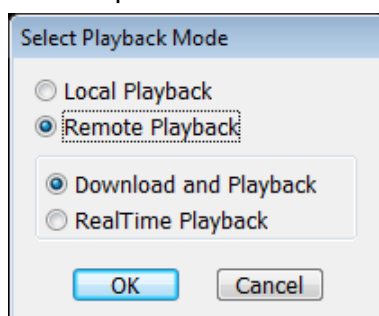
Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Configure PTZ cameras.
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the image.
(6) Direction buttons	Adjust and position the focal point of the PTZ camera.
(7) Camera ID pane	Display the PTZ camera number that is being operated.
(8) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(9) Camera lens speed controller	Adjust the moving speed of the PTZ camera lens.
(10) Camera preset position number	Move the PTZ camera to the preset point.
(11) Group AutoPan	Select to automatically operate PTZ camera in group.

## 5.3 Using the Remote Playback

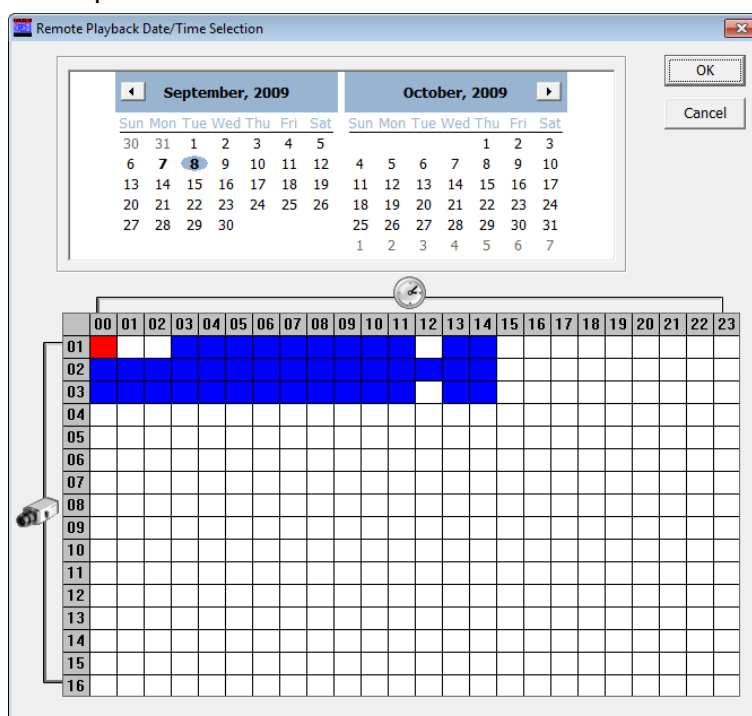
To use this feature, first you need to select the source of the file. In the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the NVR server. When you choose Remote Playback, select **RealTime Playback** if your internet bandwidth is fast and big enough, otherwise choose **Download and Playback**.



Click **OK** to proceed and **Cancel** to void this operation.



In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera number.



### To Make a Selection:

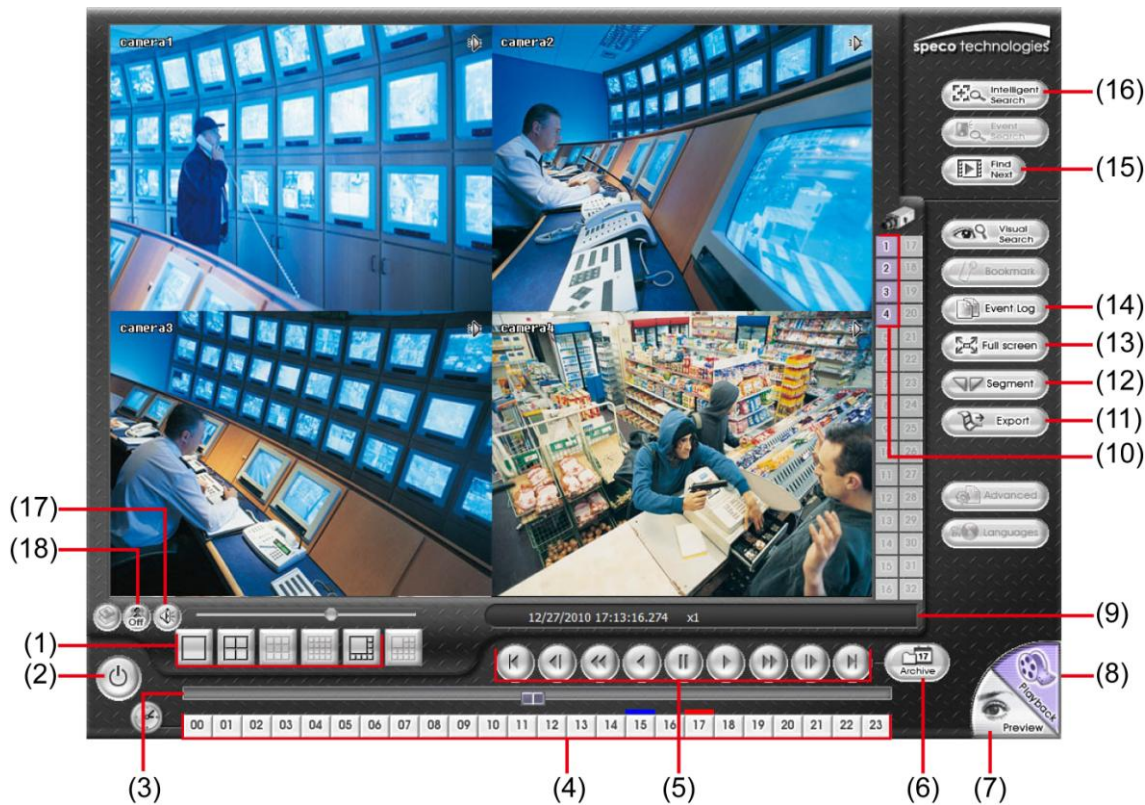
1. Select the date in the calendar. Use ◀ and ▶ buttons to shift the calendar to the left or right.
2. In the table below, click on the blue block to select and open the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.
3. Click **OK** to proceed and **Cancel** to void this operation.
4. If you select Download Playback and after making the selection, the system divides the selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to



download (see also [Chapter 5.3.3](#)).












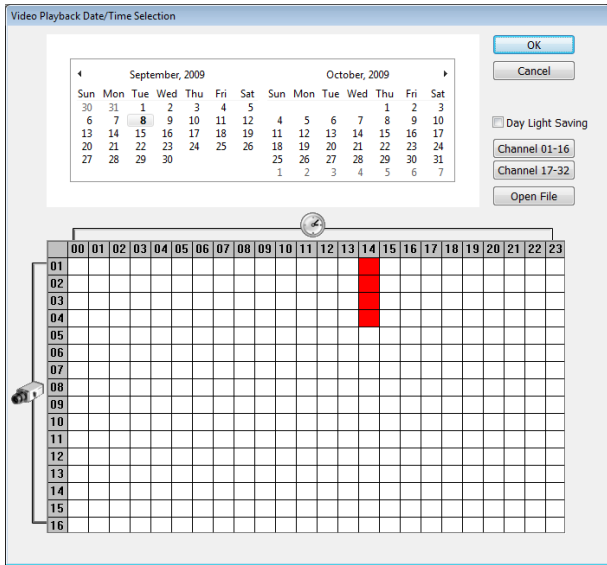

### 5.3.1 Familiarizing Yourself with the Buttons in Local Playback



Name	Function
(1) Split Screen Mode	Select from 1, 4, or 7+1 split screen type to playback the recorded video.
(2) Exit	To close the application
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.



The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. If there is no recorded data within the hour, there will be no color bar on top of the hour button. While the red bar indicates that you are currently viewing the recorded video file.

Name	Function
(5) Playback Control Buttons	<p>From left to right order:</p> <p> <b>Begin:</b> Move at the beginning of the recorded video file.</p> <p> <b>Previous:</b> Go back to the previous frame.</p> <p> <b>Slower:</b> Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x.</p> <p> <b>Rewind:</b> Wind back the recorded video file.</p> <p> <b>Pause:</b> Briefly stop playing the recorded video file.</p> <p> <b>Play:</b> Play the recorded video file.</p> <p> <b>Faster:</b> Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.</p> <p> <b>Next:</b> Go to the next frame.</p> <p> <b>End:</b> Go to the end of the recorded video file.</p>
(6) Archive	<p>Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.</p> <ul style="list-style-type: none"> <li>– <b>OPEN FILE:</b> Click to open the recorded file from certain location.</li> <li>– <b>Channel 01~ 16 &amp; Channel 17 ~ 32:</b> Click to switch to different channel group of playback calendar if the NVR supports more than 16 channels.</li> <li>– Mark <b>Day Light Saving</b>, the playback calendar will show the available playback records during day light saving period.</li> </ul> 
	<p>The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. While the red colored column indicates on where to start playing the recorded video file. If there is no any video data, it will be no color bar on top of the date button.</p>
(7) Preview	Switch to Preview mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the record date, time, HDD capacity in preview mode and play speed in playback mode.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	<p>Export includes Snapshot, Print, and Output Video Clip function.</p> <ul style="list-style-type: none"> <li>■ <b>Snapshot:</b> Capture and save the screen shot either in *.jpg format.</li> <li>■ <b>Print:</b> Print the screen shot.</li> <li>■ <b>Output Video Clip:</b> Save the segmented file in *.dvr, *.avi, *.mpg format (see also <a href="#">Chapter 5.3.1.1</a>).</li> </ul>



Name	Function
(12) Segment	Keep a portion of the recorded video you want (see also <a href="#">Chapter 5.3.1.1</a> ).
(13) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard.
(14) Event Log	Show the record of activities that take place in the system
(15) Find Next	Search for the next event. You can use this when you are using Event Search function.
(16) Intelligent Search	Search the changes in the motion detector frame (See also <a href="#">Chapter 3.6.5</a> ).
(17) Audio	Enable/disable volume
(18) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

### 5.3.1.1 To Cut and Save the Wanted Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click Segment to set the begin mark.



2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click Segment to set the end mark. To cancel segmentation or set the segment marks from the start, click Segment button again.



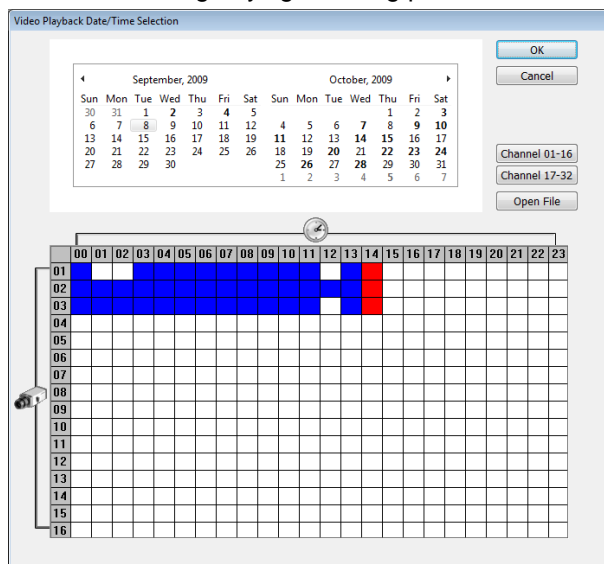
3. Click **Export >> Output Video Clip** button to save the wanted clip.
4. In the Save As dialog box, locate on where you want to save the file, type the filename, and select the video format.

## 5.3.2 Familiarizing Yourself with the Buttons in RealTime Playback



Name	Function
(1) Split Screen Mode	Select 1, 4, or 7+1 split screen type to playback the recorded video file.
(2) Exit	To close the application
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
<b>i</b>	The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.
(5) Playback Control Buttons	From left to right order: <ul style="list-style-type: none"> <li><b>Begin:</b> Move at the beginning of the recorded video file.</li> <li><b>Previous:</b> Go back to the previous frame.</li> <li><b>Slower:</b> Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x.</li> <li><b>Rewind:</b> Wind back the recorded video file.</li> <li><b>Pause:</b> Briefly stop playing the recorded video file.</li> <li><b>Play:</b> Play the recorded video file.</li> <li><b>Faster:</b> Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.</li> <li><b>Next:</b> Go to the next frame.</li> <li><b>End:</b> Go to the end of the recorded video file.</li> </ul>

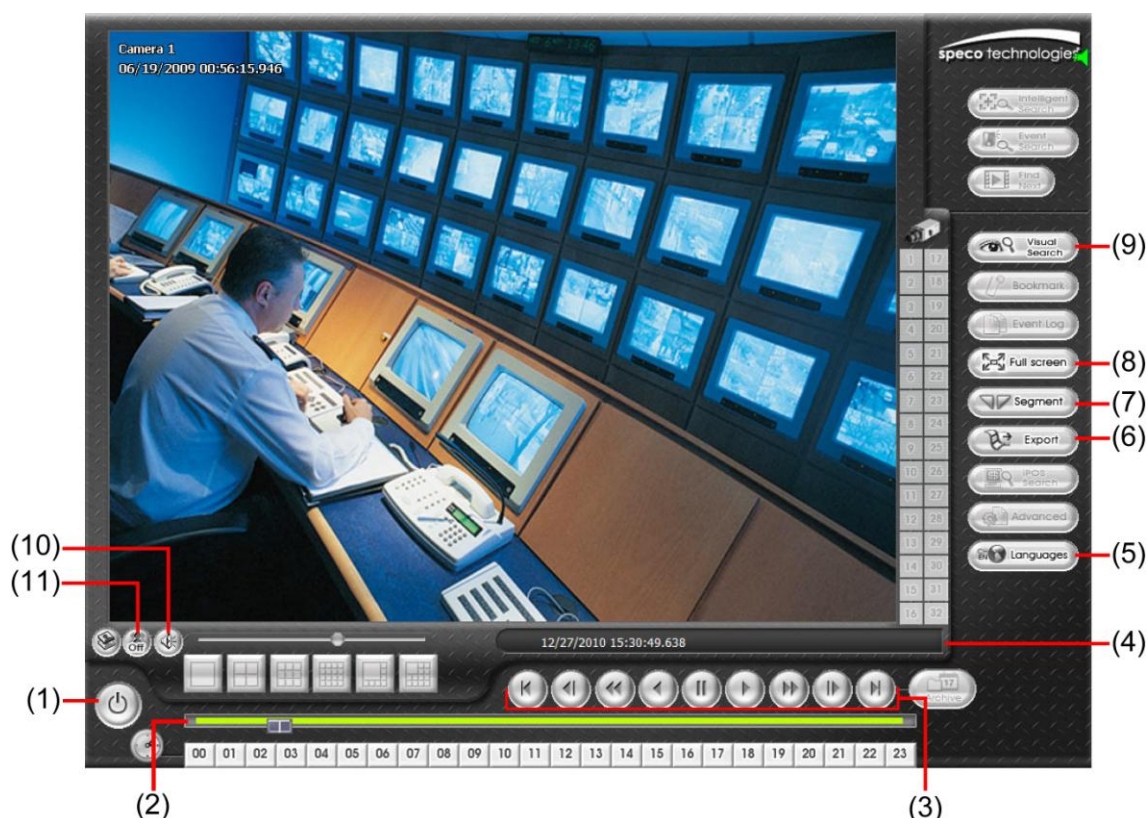
Name	Function
(6) Archive	<p>Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.</p> <ul style="list-style-type: none"> <li>– <b>OPEN FILE:</b> Click to open the recorded file from certain location.</li> <li>– <b>Channel 01~ 16 &amp; Channel 17 ~ 32:</b> Click to switch to different channel group of playback calendar if the NVR supports more than 16 channels.</li> <li>– Mark <b>Day Light Saving</b>, the playback calendar will show the available playback records during day light saving period.</li> </ul>



The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(7) Preview	Switch to Preview/Advanced mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the recorded date, time and play speed.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	<b>Snapshot:</b> Capture and save the screen shot either in *.jpg or *.bmp format.
(12) Full screen	<p>View in Playback-compact mode. To return, press the right button of the mouse or <b>ESC</b> on the keyboard.</p> <p>When you switch to full screen in multiple-screen mode, <b>Left</b> click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(13) Event Log	Show the record of activities that take place in the system
(14) Audio	Enable/disable volume
(15) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

### 5.3.3 Familiarizing Yourself with the Buttons in Download and Playback



Name	Function
(1) Exit	To close the application.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Playback Control Buttons	<b>Begin:</b> Move at the beginning of the recorded video file. <b>Previous:</b> Go back to the previous frame. <b>Slower:</b> Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x. <b>Rewind:</b> Wind back the recorded video file. <b>Pause:</b> Briefly stop playing the recorded video file. <b>Play:</b> Play the recorded video file. <b>Faster:</b> Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x. <b>Next:</b> Go to the next frame. <b>End:</b> Go to the end of the recorded video file.
(4) Status bar	Display the recorded date, time and play speed.
(5) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
(6) Export	Export includes Snapshot, Print, and Output Video Clip function. <ul style="list-style-type: none"> <li>■ <b>Snapshot:</b> Capture and save the screen shot either in *.jpg or *.bmp format.</li> <li>■ <b>Print:</b> Print the screen shot.</li> <li>■ <b>Output Video Clip:</b> Save the segmented file in *.mpg, *.avi, or *.dvr format (see also <a href="#">Chapter 5.3.1.1</a>).</li> </ul>
(7) Segment	Keep a portion of the recorded video you want (see also <a href="#">Chapter 5.3.1.1</a> ).
(8) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or <b>ESC</b> on the keyboard. When you switch to full screen in multiple-screen mode, <b>Left</b> click to toggle to only display one of the video in the multiple-screen mode or all.
(9) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second.
(10) Audio	Enable/disable volume
(11) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.



# Chapter 6 Using Mobile Device to Access NVR Server

## 6.1 Using PDAViewer to Access NVR Server

Users can also use a PDA to access the NVR through Internet. Make sure your PDA support IE browser and is connected to the internet. To use this feature, you need to install the PDA Viewer software either thru ActiveSync connection or download it from the internet. Please check if your PDA meets the 2 requirements below.

**OS: Microsoft Pocket PC 4.20.0, Windows Mobile6 Professional CE OS 5.2.1437, MS Windows CE 4.0, PocketPC 2002/2003, Mobile 5 PDA version**  
**CPU: ARM architecture**

### 6.1.1 To install PDAViewer thru ActiveSync

1. Connect your PDA to your PC. Place the CD into the CD-ROM drive then click **Install Web Tool >> PDA Viewer >> PDAViewer.exe**. And follow the on screen instructions.
2. Click **Next** to continue. The system will then automatically install the application.
3. When you are prompted, click **Yes** to install the application using the default directory.

### 6.1.2 To install PDAViewer from the Internet

Make sure you are connected to the internet.

1. Open the web browser and enter the server IP. Then click the hyperlink **Download PDAViewer**.



2. When the Download dialog box appears, enable **Open file after download** and click **Yes**.

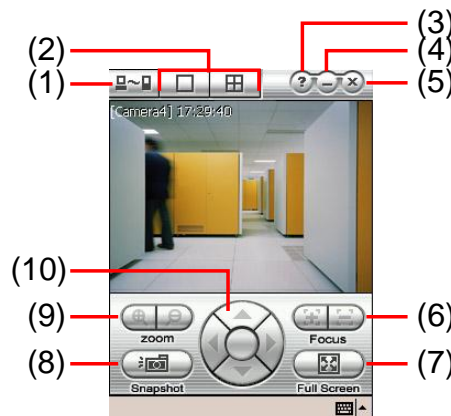


3. After the installation, the PDAViewer icon will appear in the Programs list.



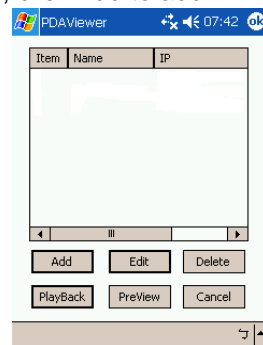
## 6.1.3 To Use the PDAViewer

1. Run the **PDAViewer** in the Programs.
2. Familiarizing the PDAViewer buttons.

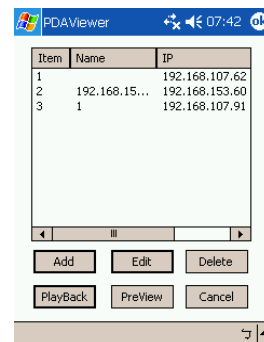
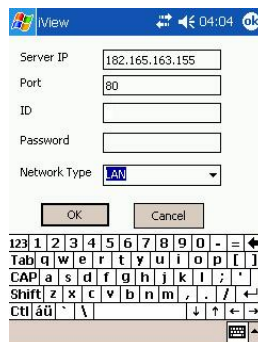


Name	Function
------	----------

- |             |   |
|-------------|---|
| (1) Connect | Hook up to the NVR server. Make sure you are connected to internet. When the iView screen appears, click Add to add NVR server. |
|-------------|---|



Enter the server IP, port, user ID, password and select the connection type. Then, click **OK**.



User can playback the recorded video from remote NVR server in PDAViewer.(see also [Chapter 6.1.4](#))

(2) Split Screen Mode	Select between 2 screen display types. It also allows you to switch and view different camera number or channels.
(3) About	Display the PDAViewer software version.
(4) Minimize	Reduce the size to taskbar.
(5) Exit	Close the PDAViewer.
(6) Focus	Adjust the focus of PTZ camera to produce clear image.
(7) Full Screen	Use the entire screen to only display the video.
(8) Snapshot	Capture and save the screen shot in *.bmp format.
(9) Zoom	Zoom in and out the PTZ camera image.
(10) Direction buttons	Adjust and position the focal point of the PTZ camera.

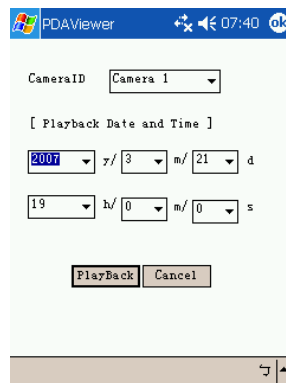


3. To change the video quality, enable/disable audio, and select to display different camera, tap on the video screen longer the popup menu will appear.



## 6.1.4 To Playback in PDAViewer

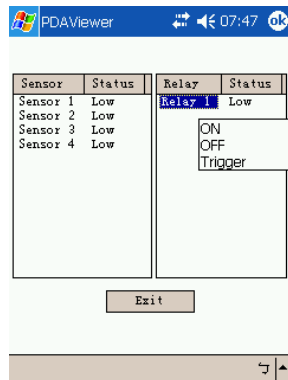
1. Run the **PDAViewer** in the Programs.
2. Hook up to the NVR server.
3. Click **Connect** icon and select the NVR server
4. Click **Playback** to enter playback option screen
5. Select the **camera**, **data**, and **time**
6. Click **Playback** to start playing the recorded video



7. While playback, user can view and change status of I/O devices
8. On the playback screen, tap on video screen longer the pop up menu will appear
9. Select the **Remote IO**



10. The sensor and relay devices will list as below:



11. User can change the relay status. Select the relay and tap on video screen longer the pop up menu will appear, and then, select the status (ON, OFF, Tigger)

## 6.2 Using JavaViewer to Access NVR Server

Using the mobile phone within Symbian Smart Phone OS to access the NVR through Internet. Make sure your mobile phone supports Symbian Smart Phone OS and can be connected to the internet. To use this feature, you need to install the JAVA Viewer program that it can be downloading it from the NVR server through the internet.

### 6.2.1 To install JavaViewer from the NVR Server

1. Open the web browser and enter the NVR server IP (<http://NVR server IP: port/JAVA-Viewer.html>). Then click **Connect**.
2. When the Download screen appears, select **JAVA-Viewer.jad** and download it to your mobile phone.
3. After the installation, the JavaViewer will be in your mobile phone system. To find the JavaViewer program where is located, please refer to your mobile phone user's manual.

## 6.2.2 To Use the JavaViewer

1. Run the JavaViewer program.
2. Enter the NVR IP address, port number, user ID, and password. Please refer to your NVR server setting for that information.
3. And then, select the Connect to connect to NVR server.
4. Click **Yes** to accept the data from NVR server.
5. When connection is success, you will see the camera video on the screen.
6. To switch to different camera view, select menu and select the channel.
7. The JavaViewer support PTZ control function, you can refer to **Help** file for detail function control key. Select **menu** and go the way down to select the **Help** file.



## 6.3 Using iPhone to Access Remote NVR Server

Using the iPhone can connect to remote NVR server through the Internet to view the live image.

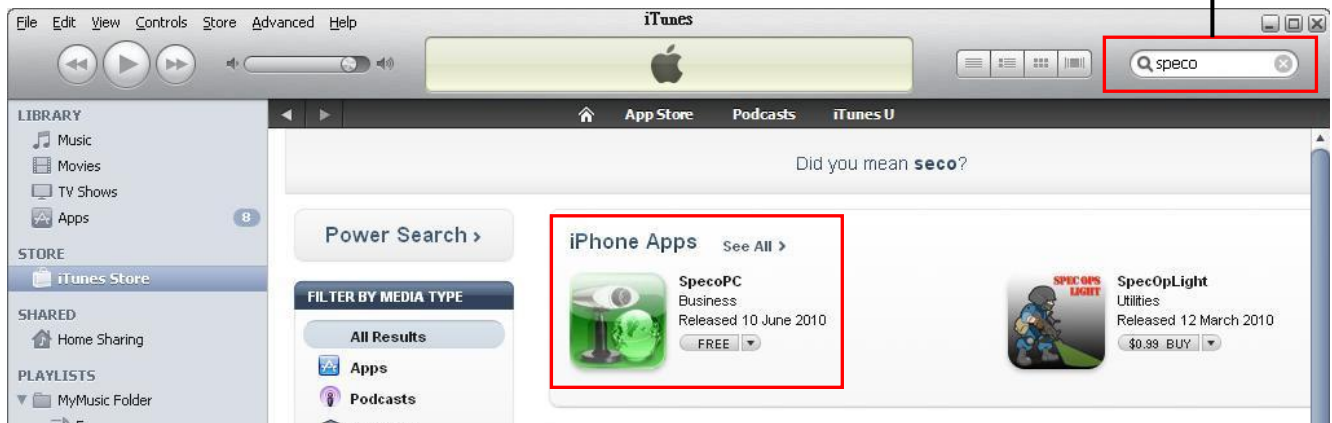
### 6.3.1 Download the SpecoPC Application

To use this feature, it is required to download the SpecoPC application to your iPhone. There are 2 ways to download the SpecoPC application to your iPhone. User can chose one of way to download.

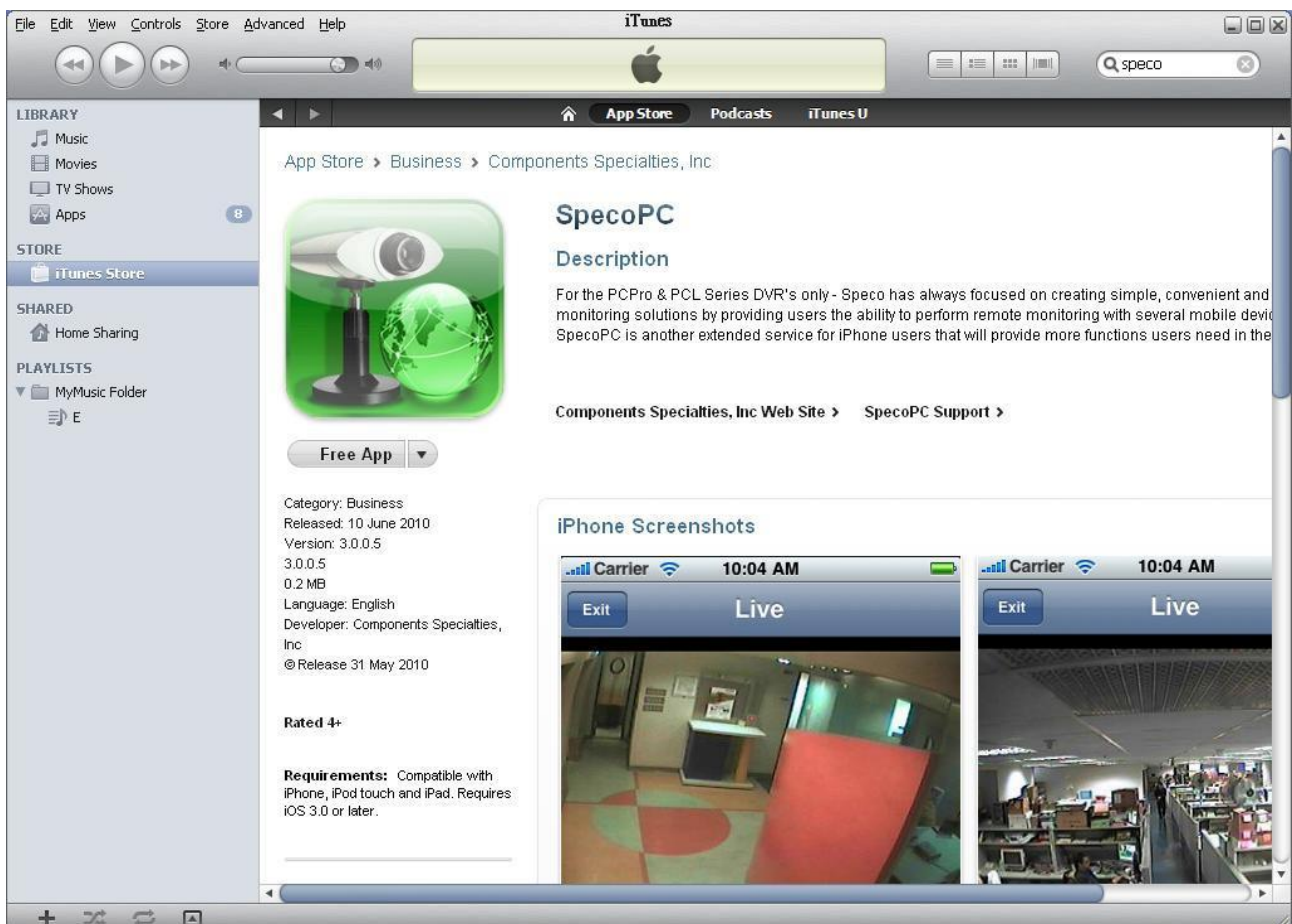
#### 6.3.1.1 Download through the PC

1. Connect your iPhone to the PC.
2. In iTunes UI, enter keyword “**speco**” to search.
3. And then, the SpecoPC application will be found and display on iTunes UI.

Enter the search keyword here



4. Click SpecoPC application and click **GET APP** to download the application. And then, enter the **ID** and **Password** to download.





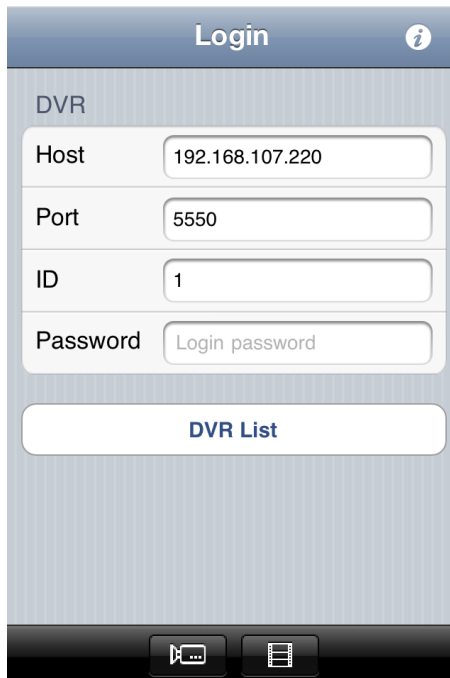
5. After download the SpecoPC application, click **Application** and mark the SpecoPC application.
6. Click **Apply** button. The SpecoPC application will load into your iPhone.
7. To use SpecoPC application, select the SpecoPC application icon on your iPhone. How to use SpecoPC application, please refer to [Chapter 7.3.2](#).

### 6.3.1.2 Using iPhone to Download


1. Please make sure your iPhone connect to the Internet.
2. Select **App Store** from iPhone main screen.
3. Select **Search** and enter the keyword “**speco**” to search.
4. In search result list, select the **SpecoPC**. User will see a brief introduction of the SpecoPC application. Select the **Free** button, the button will change to the **Install** button. Select **Install** to download the application.
5. And then, enter **ID** and **Password** for login iTunes to start download processing.
6. After download completed, go back to iPhone main screen and user should see **SpecoPC** icon on the menu list. Select it to run the application. How to use SpecoPC application, please refer to [Chapter 6.3.2](#).

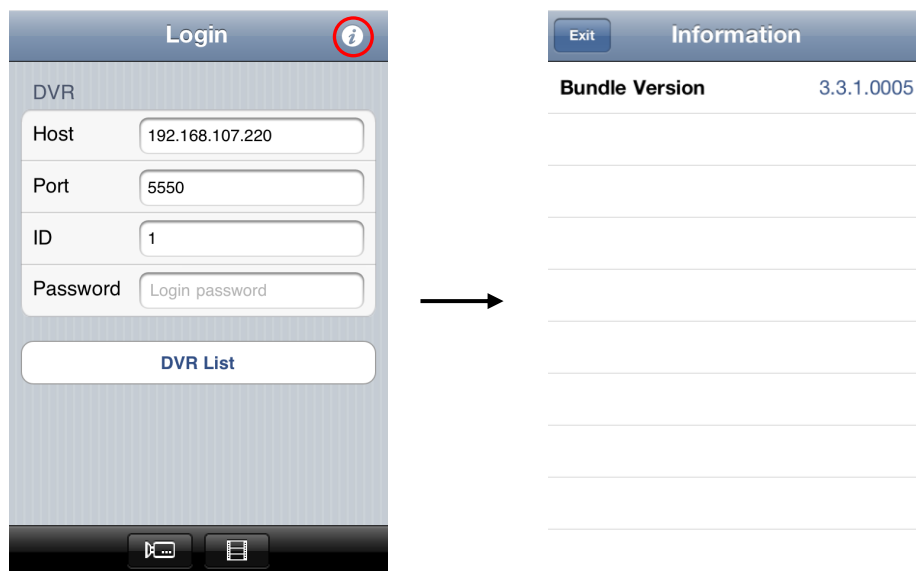
### 6.3.2 Using the SpecoPC Application



1. After SpecoPC has been downloaded to your iPhone, select the SpecoPC to run.
2. In login screen, enter the following information to make a connection with the remote DVR server. After entered all necessary information, select  (preview) or  (playback) icon to preview live video or playback recorded video.
  - **Host:** IP address of the remote DVR server.
  - **Port:** The connection port of the remote DVR server.
  - **ID:** The user account to login the remote DVR server.
  - **Password:** The password for login authentication.



The screenshot shows the 'Login' interface of the SpecoPC application on an iPhone. The interface includes a header with the title 'Login' and an information icon. Below the header is a section titled 'DVR' containing four input fields for login credentials: 'Host' (pre-filled with '192.168.107.220'), 'Port' (pre-filled with '5550'), 'ID' (pre-filled with '1'), and 'Password' (pre-filled with 'Login password'). A 'DVR List' button is located below these fields. At the bottom of the screen, there are two icons: a camera icon for 'preview' and a film strip icon for 'playback'.

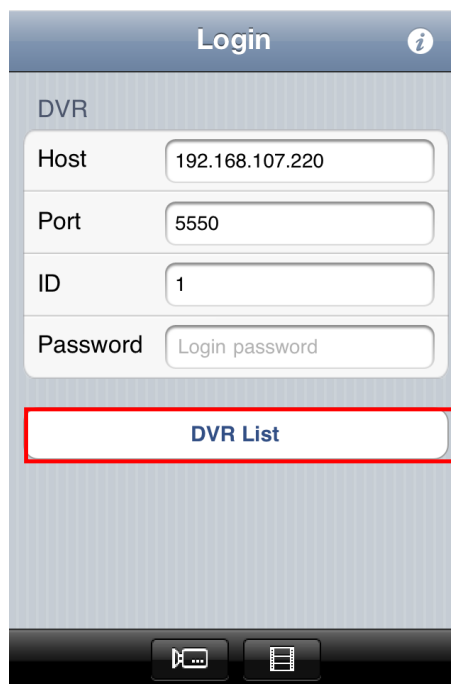
3. Select  icon can view the information of SpecoPC firmware.



4. Select  icon to switch to preview (live video) mode.
5. Select  icon to switch to playback mode.
6. Select “DVR List” can edit and save remote DVR data for selecting.

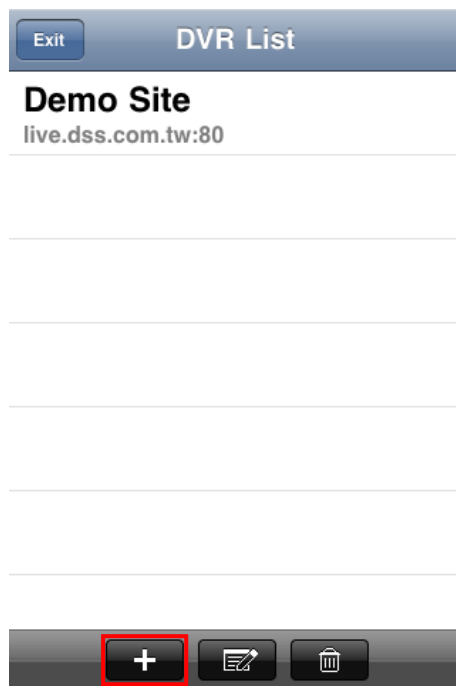
■ **Add DVR List**

- a. In login screen, select **DVR List**.



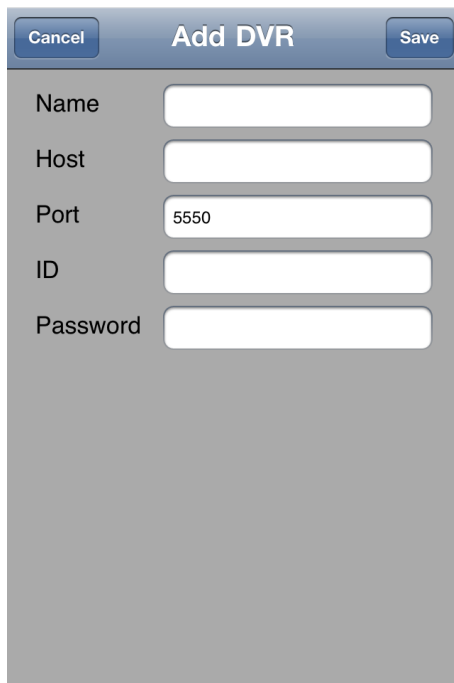


b. In DVR List screen, select  button to add DVR server.




c. In Add DVR screen, enter the following data:

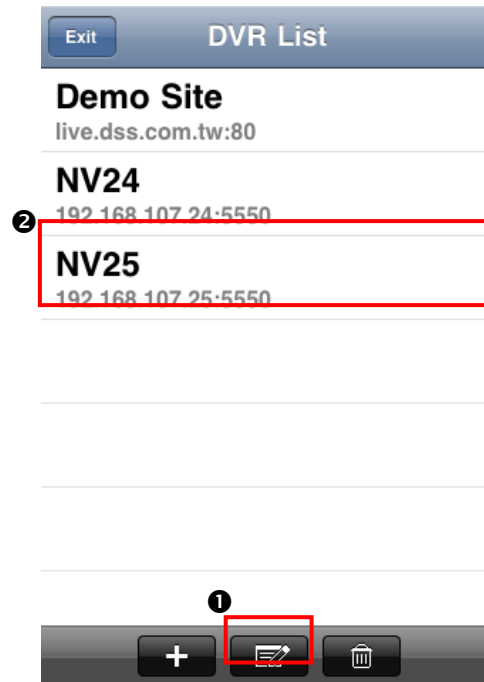
- **Name:** Give a name to the DVR server for recognizing.
- **Host:** IP address of the remote DVR server.
- **Port:** Enter the port number of WebViewer port that user has setup on remote DVR server.  
*[Note] WebViewer port might also be called "Video port" on some NVR/DVR servers.*
- **ID:** The user account to login the remote DVR server.
- **Password:** The password for login authentication.




d. And then, select **Save** button to complete the adding. User should see the DVR in DVR List.


e. To add another DVR server, please repeat above step 2~4.

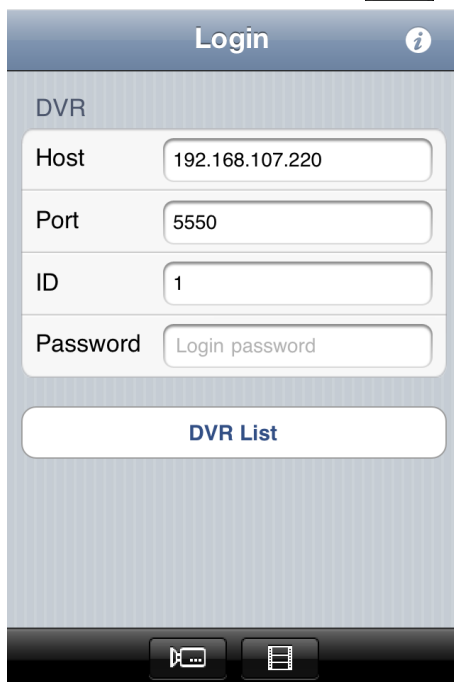
- f. To edit the DVR server, select  (edit) button first, and then, select the DVR server from DVR List. After edit, select **Save** to save the changes.



- g. To delete the DVR server, select  (delete) button, and then, select the DVR server that user wants to delete and select OK to confirm.

### 6.3.3 To Preview the Live Video on iPhone

1. After SpecoPC has been downloaded to your iPhone, select the SpecoPC to run.
2. In login screen, enter the NVR's **IP**, **Port**, **ID**, and **Password** to make a connection with the remote NVR server. After entered all necessary information, select  (preview) icon.





3. Then, user should see the live video on iPhone screen.



Go to next page if  
channels are over  
16 channels

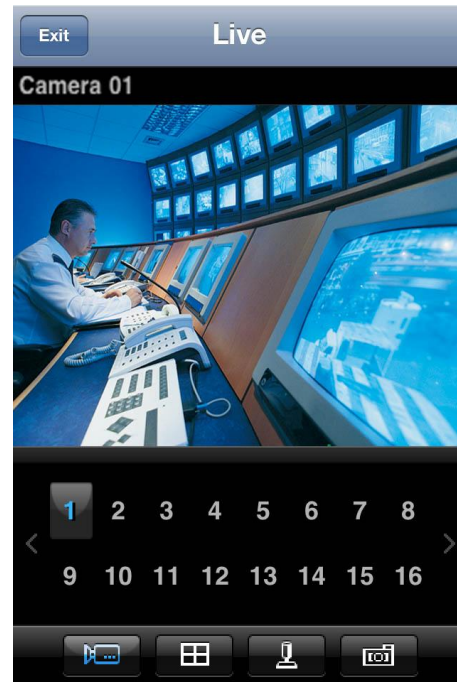


The horizontal screen display is supported.



4. Select  or  button can switch the channel display between 1 and 4-split channels screen.

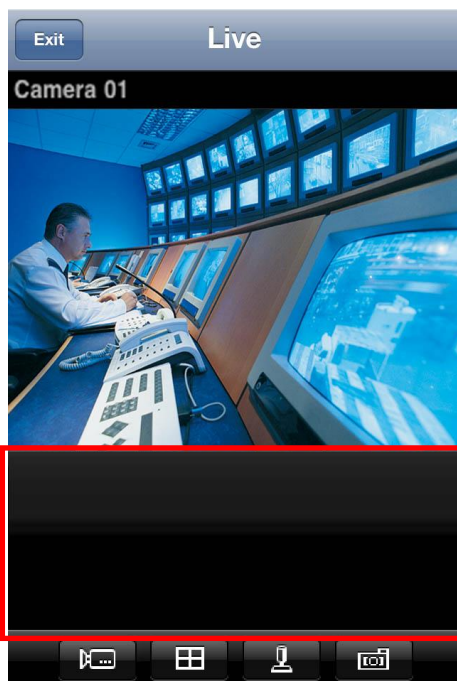
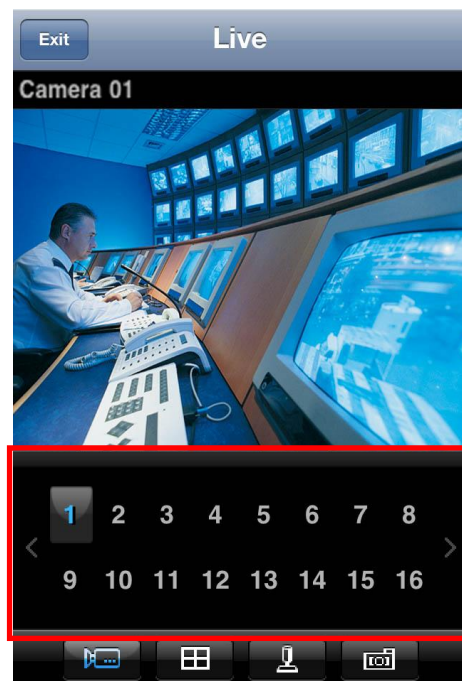



**4-split screen**



**1 channel screen**

5. In 4-split screen mode, click the channel group can switch to view different group channel.  
 6. In single screen mode, click channel button to view the channel. User also can change the channel by sliding your figure horizontally across the screen to left or right of the display screen.  
 7. Select < or > to go back last page or next page of channels.  
 8. Select  icon can hide the channel number buttons. Select  icon again to display the channel number buttons.









9. Select  icon can snapshot the current video screen and save on phone. The snapshot file is saved on your default photo folder on the phone.

10. Select the PTZ camera channel and click  button to switch to PTZ operation mode.




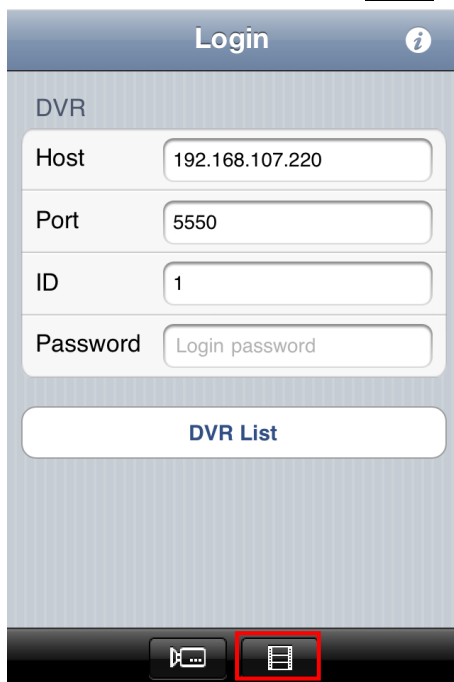
PTZ mode

Button	Description
	Click direction button to move lens of PTZ camera. The directions are depends on the PTZ camera has supported.
	Zoom in and out the image.
	Adjust the focus manually to produce clear image.
	Move the PTZ camera to the preset point. Select the preset point position and select <b>GO</b> button. To leave the preset point position selection, select <b>Exit</b> .
	
	Adjust the moving speed of PTZ camera.

- 11. To return to main login screen, select **Exit** icon.
- 12. To close the SpecoPC application, press the Home button of iPhone.

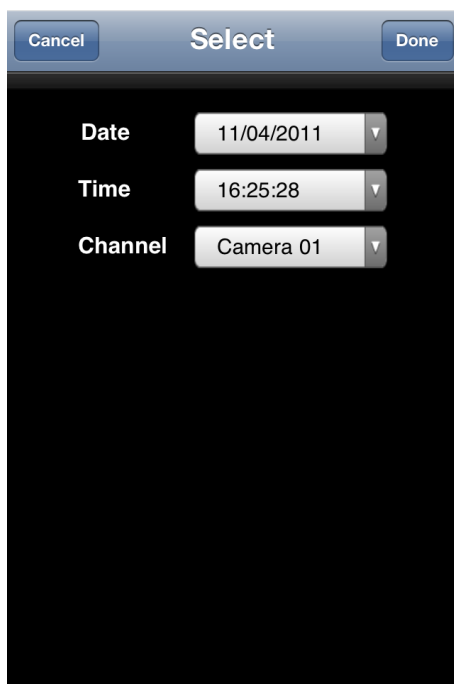
### 6.3.4 Using the SpecoPC to Palyback on iPhone

1. After SpecoPC has been downloaded to your iPhone, select the SpecoPC to run.
2. In login screen, enter the NVR's **IP**, **Port**, **ID**, and **Password** to make a connection with the remote NVR server. After entered all necessary information, select  (playback) icon.



The image shows the 'Login' screen of the SpecoPC application on an iPhone. The screen has a blue header with the title 'Login' and an information icon. Below the header, there is a section labeled 'DVR' containing four input fields: 'Host' with the value '192.168.107.220', 'Port' with '5550', 'ID' with '1', and 'Password' with 'Login password'. Below these fields is a button labeled 'DVR List'. At the bottom of the screen, there is a dock with two icons: a camera icon and a playback icon (represented by a film strip). The playback icon is highlighted with a red rectangle.

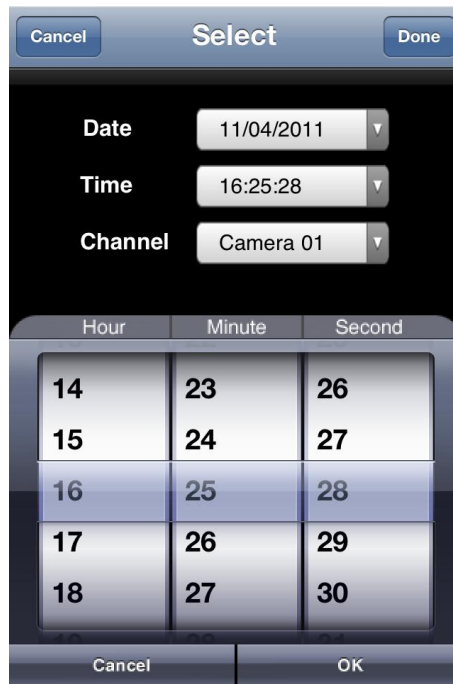
3. In Select screen, select the **Date**, **Time**, and **Camera** that user wants to playback. After select Date, Time, or Camera, select **OK** to confirm the selection.




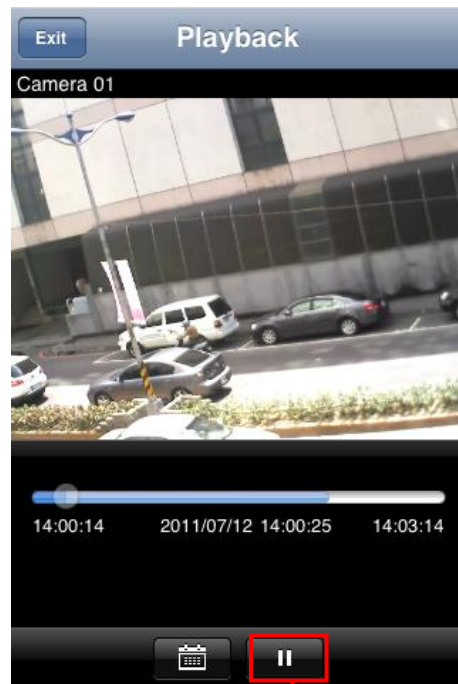
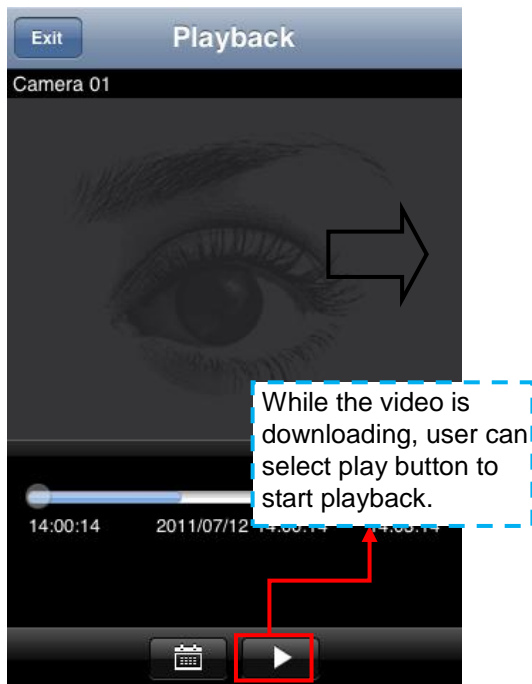
The image shows the 'Select' screen of the SpecoPC application on an iPhone. The screen has a blue header with the title 'Select' and buttons for 'Cancel' and 'Done'. Below the header, there are three dropdown menus: 'Date' with the value '11/04/2011', 'Time' with '16:25:28', and 'Channel' with 'Camera 01'. Each dropdown menu has a small downward arrow on the right side.

- **Date:** The SpecoPC supports the date before and after 10 years from present year. For example: present date is 07/19/2011, then, user can select the date range from 01/01/2000 to 12/31/2021.



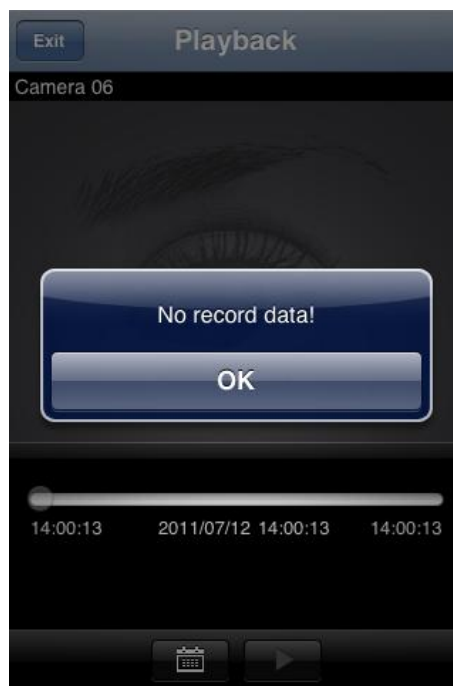


4. After selected the Date, Time, and Camera, select **Done** to switch to playback screen. In Playback screen, select  button to start playback.

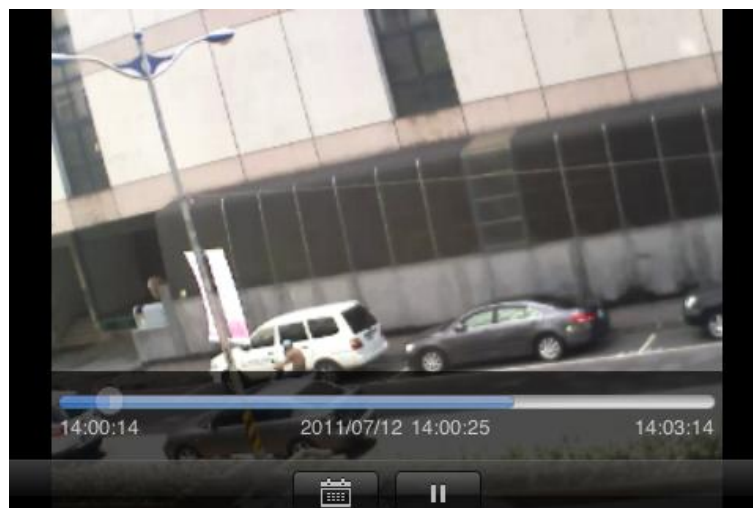


Press it to temporary stop playback

If r the “**No record data**” message is displayed that means the date, time or camera user has selected is no recorded video for playback. Then, please select **OK** and select another date, time, or camera.




5. The Playback mode support horizontal screen display.



# Chapter 7 Web Tools

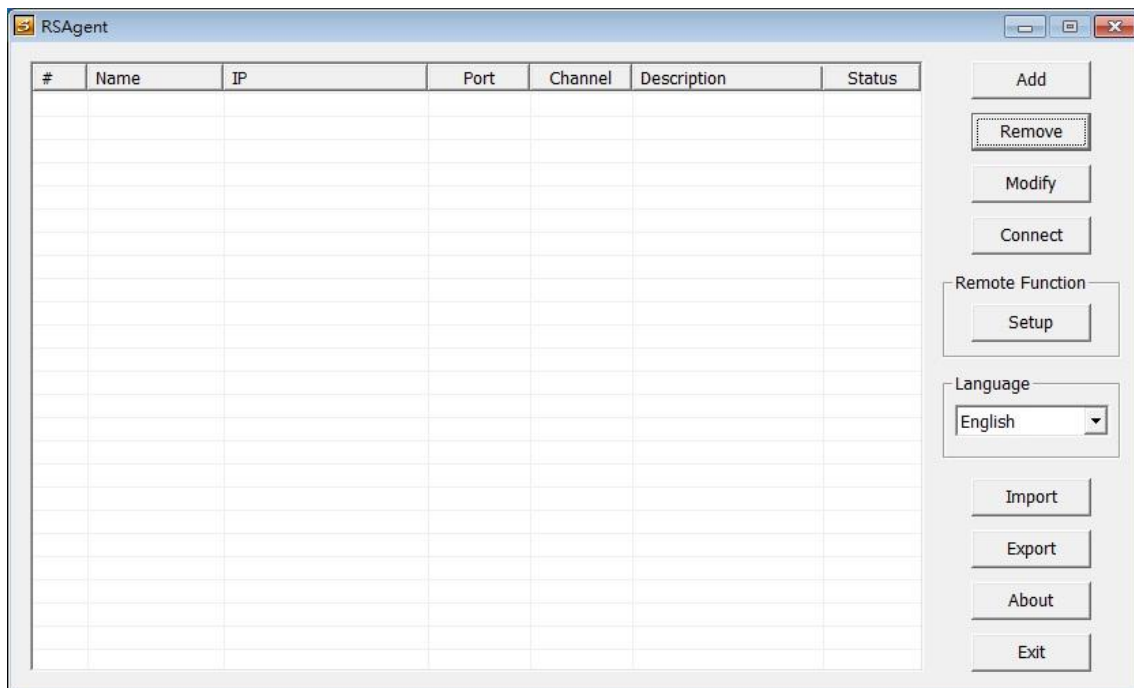
The bundled Web Tools includes Dispatch Server , Remote Backup, and Remote Setup program. To install Web Tools, place the CD into the CD-ROM drive then click **Install Web Tool**. And then, select the application to install or install all (default).

## 7.1 Remote Setup

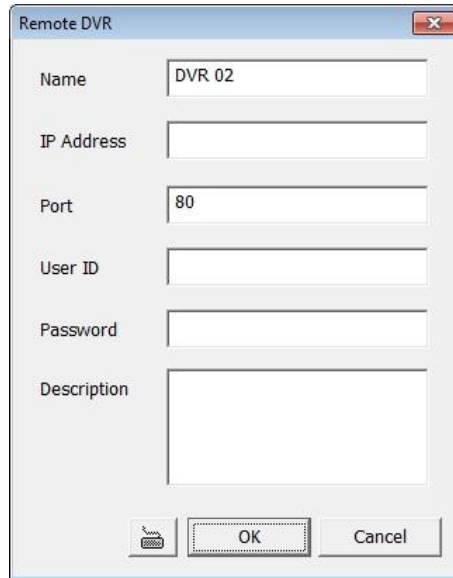
Remote Setup is a tool for configuring NVR server from remote site. To install Remote Setup application, insert the Installation CD into CD-ROM drive and click **Install Web Tool**. After installation, click  to start the Remote Setup application.

### 7.1.1 To Add NVR server

User need to add a NVR server and make connection in order to setup remote NVR server.



1. Click **Add** and fill in the following items:
  - **Name:** give a name for remote NVR server for easy managing
  - **IP:** fill in remote NVR server's IP address
  - **Port:** the port use to connect to remote NVR server. The port number is same the WebViewer port on the remote NVR server. The default is 80.
  - **User ID:** fill in the remote NVR server's login account
  - **Password:** fill in the remote NVR server's login password
  - **Description:** fill in a short description for the remote NVR server

A screenshot of a 'Remote DVR' configuration window. The window has a title bar with 'Remote DVR' and a close button. It contains several input fields: 'Name' with the value 'DVR 02', 'IP Address' (empty), 'Port' with the value '80', 'User ID' (empty), 'Password' (empty), and 'Description' (empty). At the bottom, there are three buttons: a small icon button, an 'OK' button, and a 'Cancel' button.

2. Click **OK** to complete adding remote NVR server.
3. The added NVR server will be listed and auto connects to NVR server.
4. Once the connecting is success, user can start to configure NVR server.
5. When connection is lost, click **Reconnect** to connect again.
6. To modify or delete the added NVR server, select the NVR server from listing and click **Modify** to change the setting and click **Delete** to remove the NVR server.
7. User also can import the setting by clicking **Import** button. To save the setting to local hard disk, click **Export** button.

## 7.1.2 To Setup Remote System Setting

The setting here applies to Remote NVR only. Please refer to [Chapter 5.1.4](#) for detail setting.

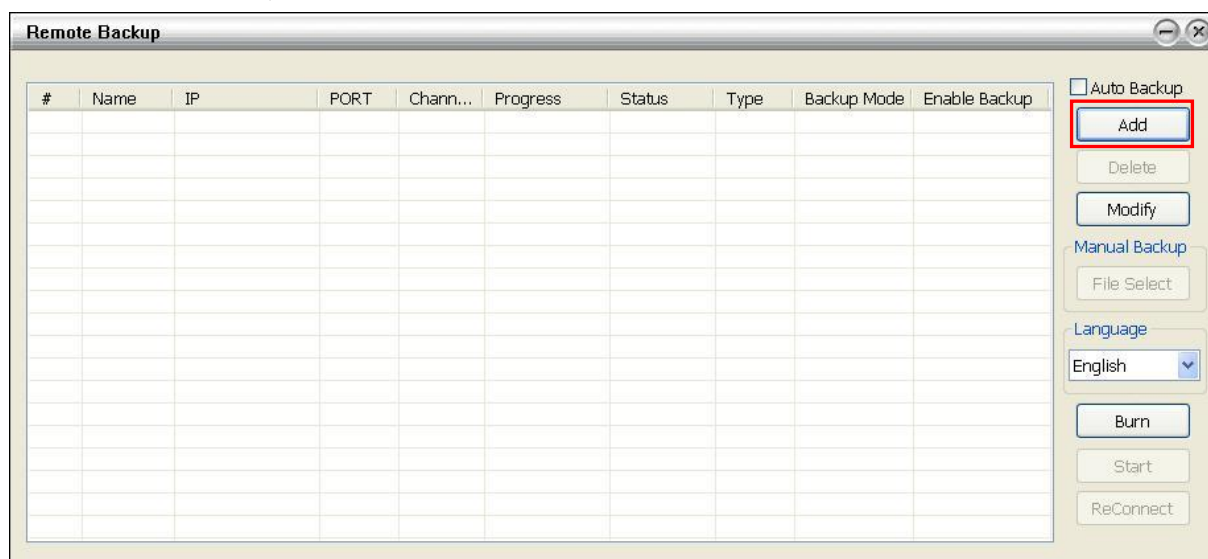
## 7.2 Remote Backup

Remote Backup is purely for backing up the \*.dvr file from the NVR sever. You can select between Auto Backup and Manual Backup. Auto Backup continuously archives one hour of the recorded data at a time, starting from the specified date. As for Manual Backup, it only archives the recorded data of selected date.

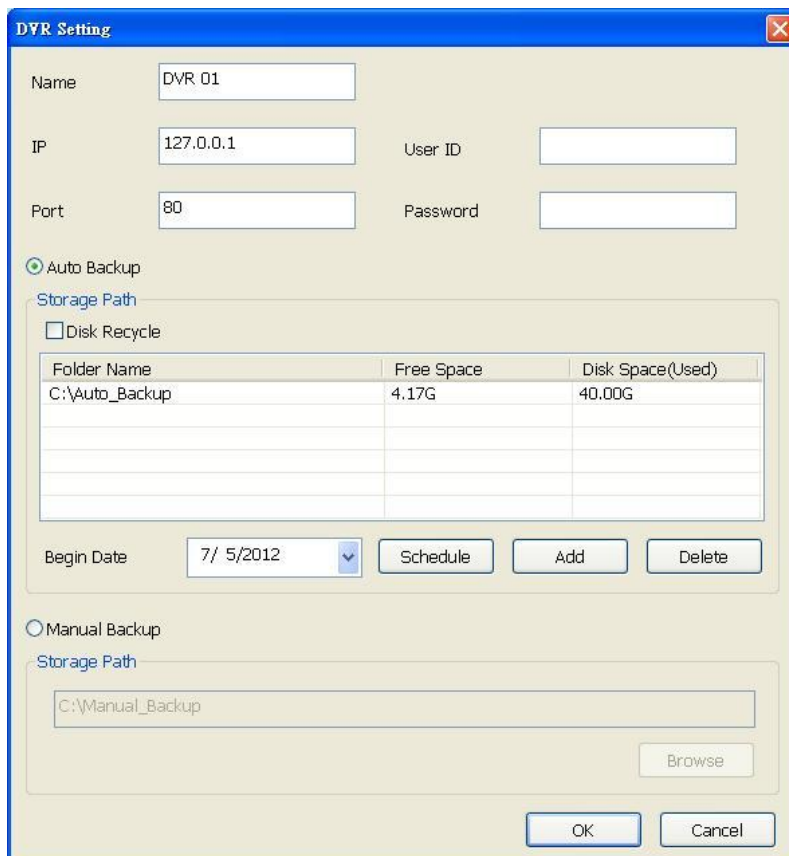
**i** To back up the data, you must have at least 2G hard disk space.

### 7.2.1 To back up the recoded data from the NVR server:

1. Make sure you are connected to the internet.
2. Click **Start >> Program >> Web Tool >> Remote Backup**
3. To add the NVR server, click **Add**



4. In the DVR Setting window, enter the Name, IP, User ID, and password.



5. Select the Backup mode:

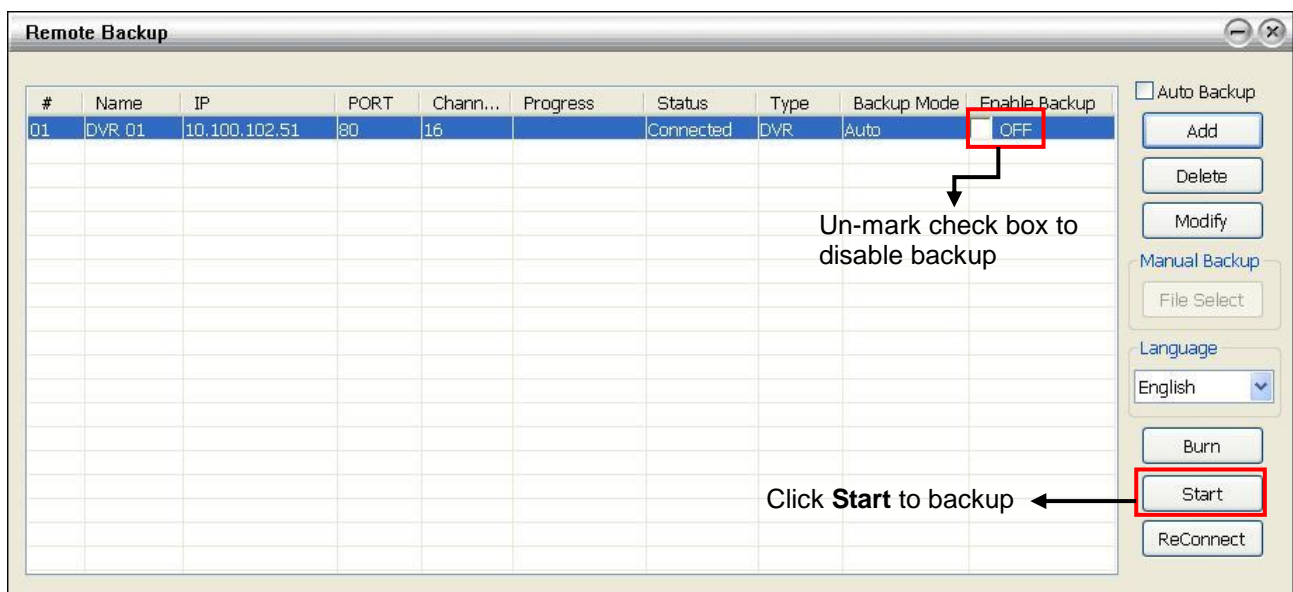
**Auto Backup mode:** the backup will automatically execute when the setup is completed

- In Begin Date drop down calendar, select the date from where to start
- Click **Add** to set the storage path.
- Click **Delete** to remove the selected storage path.
- Click **Schedule** to select/unselect the time you want to backup. The red block turns white when it is unselected.
- Enable/disable **Disk Recycle** check box, to automatically overwrite the oldest file when there is not enough free space to backup the file.

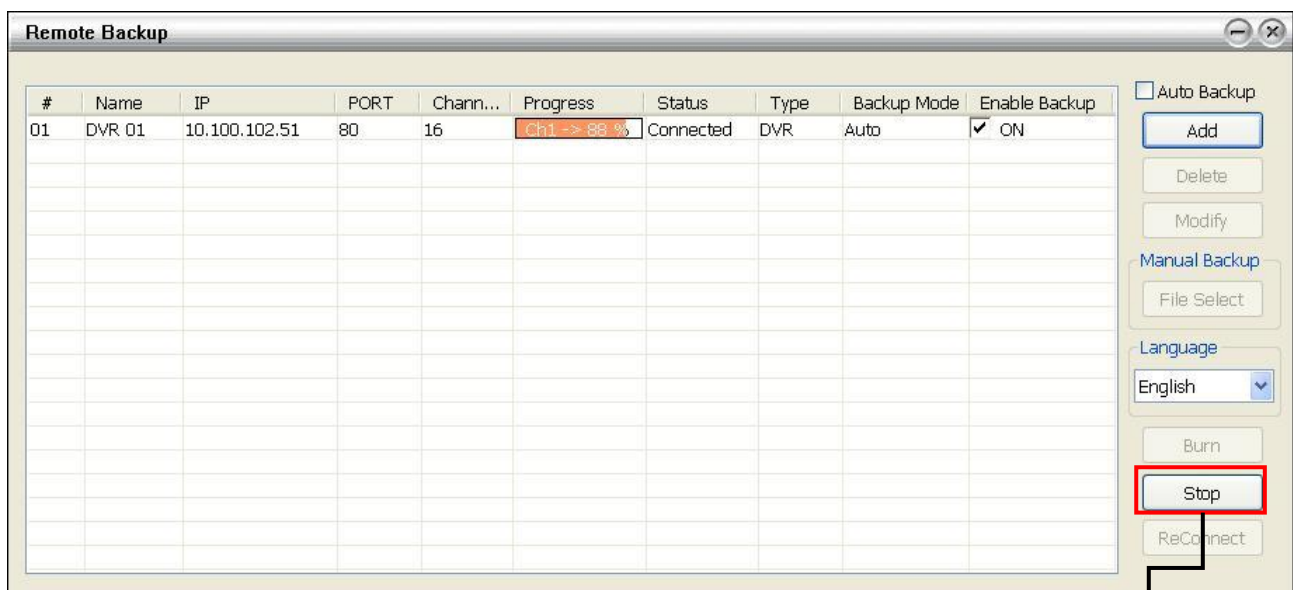
**Manual Backup mode:** the backup progress will start when user press the backup button

- Click **File Select** to choose the date, time and camera you want to back up.
- Click **Browse** to set the storage path.

6. Click **OK** to complete the adding NVR server. The added NVR server will display in Remote Backup main window.



7. Click **Start** to begin backup and click Stop to stop backup progress.





8. For manually backup, click **File select** button and select the NVR to backup.

[illegible]

## Appendix A Registering Domain Name

DDNS (Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. It allows remote clients to intelligently search dynamic servers without any previous enquiring for servers' Internet addresses.

In order to take advantage of this intelligent service, first register your domain name on the following Web site <http://speco.dss.com.tw>

### 1. User Login

Browse the website **speco.dss.com.tw** with Microsoft IE browser to access the following dialog.

A dialog box titled "User Login" with a blue header. It contains two input fields: "CD-Key No." and "Product". The "Product" field is a dropdown menu. Below the input fields are two buttons: "OK" and "Reset".

User Login	
CD-Key No.	<input type="text"/>
Product	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Reset"/>	

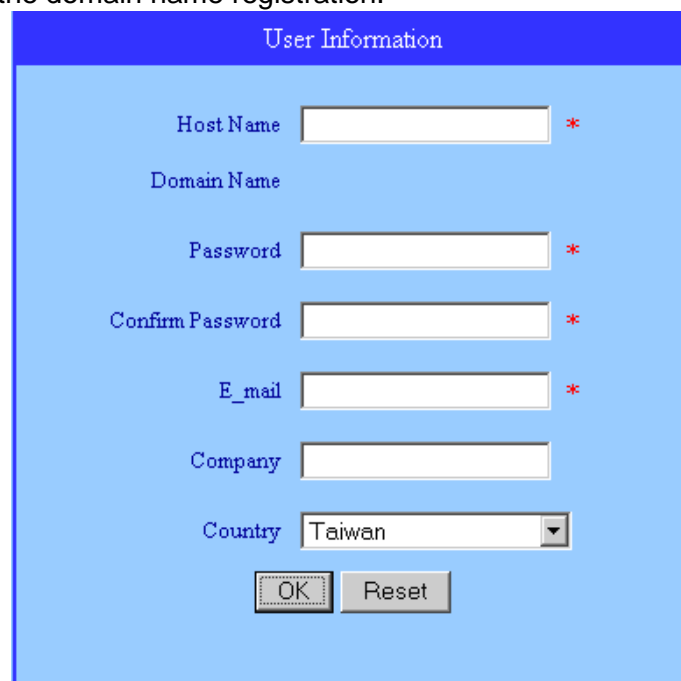
- First input the MAC address of NVR unit as the **CD-Key No.** and select the **Product**. Then click **OK** to login or **Reset** to clear the previous input.



- To know the MAC address of NVR unit, please check the sticker on the back panel of NVR unit.
- Also, user can find the MAC address of NVR unit from the Main Configuration of Network Setting. Please select **SETUP** → **NETWORK** → **Main Configuration**.

### 3. User Information

Please provide the following user information, **Host Name** (user can choose any name he/she likes except the one violence with other users), **Password**, **E-mail**, **Company**, and **Country**. And then, click **OK** to complete the domain name registration.

A dialog box titled "User Information" with a blue header. It contains several input fields: "Host Name", "Domain Name", "Password", "Confirm Password", "E\_mail", "Company", and "Country". The "Country" field is a dropdown menu. Below the input fields are two buttons: "OK" and "Reset".

User Information	
Host Name	<input type="text"/>
Domain Name	<input type="text"/>
Password	<input type="text"/>
Confirm Password	<input type="text"/>
E_mail	<input type="text"/>
Company	<input type="text"/>
Country	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Reset"/>	