EXR6004 Mini

4CH Pure NVR

User's Manual

Oct. 2012

FCC NOTICE (Class A)

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.

Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:
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.

European Community Compliance Statement (Class A)

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/EEC.

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.

DISCLAIMER

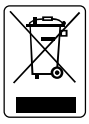
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The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste 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 WITH 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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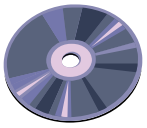
Chapter 1 Introduction

AVer™ EXR6004 Mini 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)



(2)



(3)



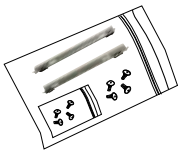
(4)



(5)



(6)



(7)

- ☐ (1) EXR6004 Mini unit
- ☐ (2) Software CD (User Manual included)
- ☐ (3) Quick User Guide
- ☐ (4) USB optical mouse
- ☐ (5) Power Cord

  * The power cord varies depending on the standard power outlet of the country where it is sold.
- ☐ (6) Power Adapter
- ☐ (7) Internal HDD holder (Screws are included)

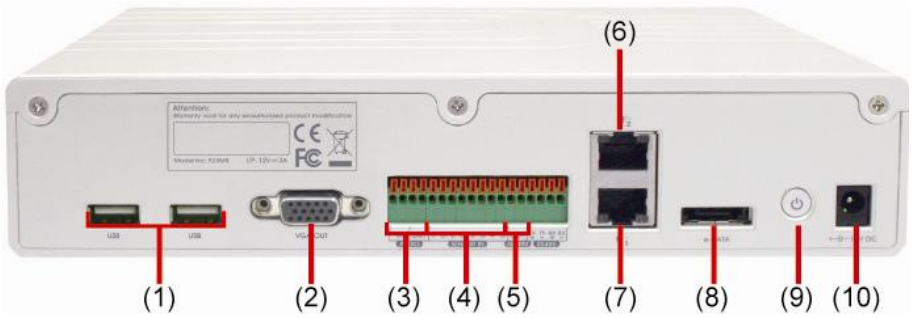
If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer

1.2 Front Panel



Name	Function
(1) DVR 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 pen 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	- **Audio In:** Input the audio signal from audio input device such as microphone - **Audio Out:** Output the audio signal to a audio out device such as speaker 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) Gigabit LAN 2 port	- To connect the switch of your network for internet connection, remote accessing, and connection of IP camera. - LAN 2 support Static, DHCP, or PPPOE mode.
(7) Gigabit LAN 1 port	- LAN connection only but default assign as a DHCP service port. User also can connect the IP camera through the Ethernet cable. - LAN 1 supports Static or DHCP mode.
(8) e-SATA port	For connecting external hard disk(up to 2 TB).
(9) Power Off button	Press button shortly to power off the DVR unit, but the fan still will be work. To shutdown the fan, please disconnect the power cord cable from DVR unit.
(10)12V DC	Power cable connection

1.4 Setting Up the DVR Unit

1.4.1 Installing the Hard Disk

- For hard disk spec, please referring to http://surveillance.aver.com/download-center → **Pure NVR** → **EXR6004 Mini** → **Hardware Recommendations**
- The DVR unit may include hard disk that depends on the model user has purchased. If the model user has purchased is included hard disk, user doesn't need to install the hard disk by yourself.

The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVer™ products and functioned well under normal operation conditions. AVer Information Inc. does not guarantee or provide warranties, explicitly, implied or statutory with respect to the reliability of the hard disk function or its compatibility. In no event AVer Information Inc. shall be liable for damages, with respect to any business interruption of clients, lost profits, loss of programs or other data on your information handling system or otherwise. This includes direct, indirect, incidental, special, or consequential damages, resulting from the incompatibility caused by the usage of these hard disks, even if AVer Information Inc. has expressly advised about the risk of such damages. The entire risk arising out of the use of any information attached here with is borne by the recipient.

The DVR unit allows user to install one hard disk. Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws



2. Push the cover backward and lift



3. Secure the HDD holder on the hard disk. The position to screw the HDD holder on hard disk must same as figure shown. Otherwise, the hard disk won't be able to fit into inside the DVR unit.



4. Connect the the SATA cable and the power connector to the hard disk



5. Secure the hard disk inside the unit then place unit cover



6. Push the cover forward and secure the cover

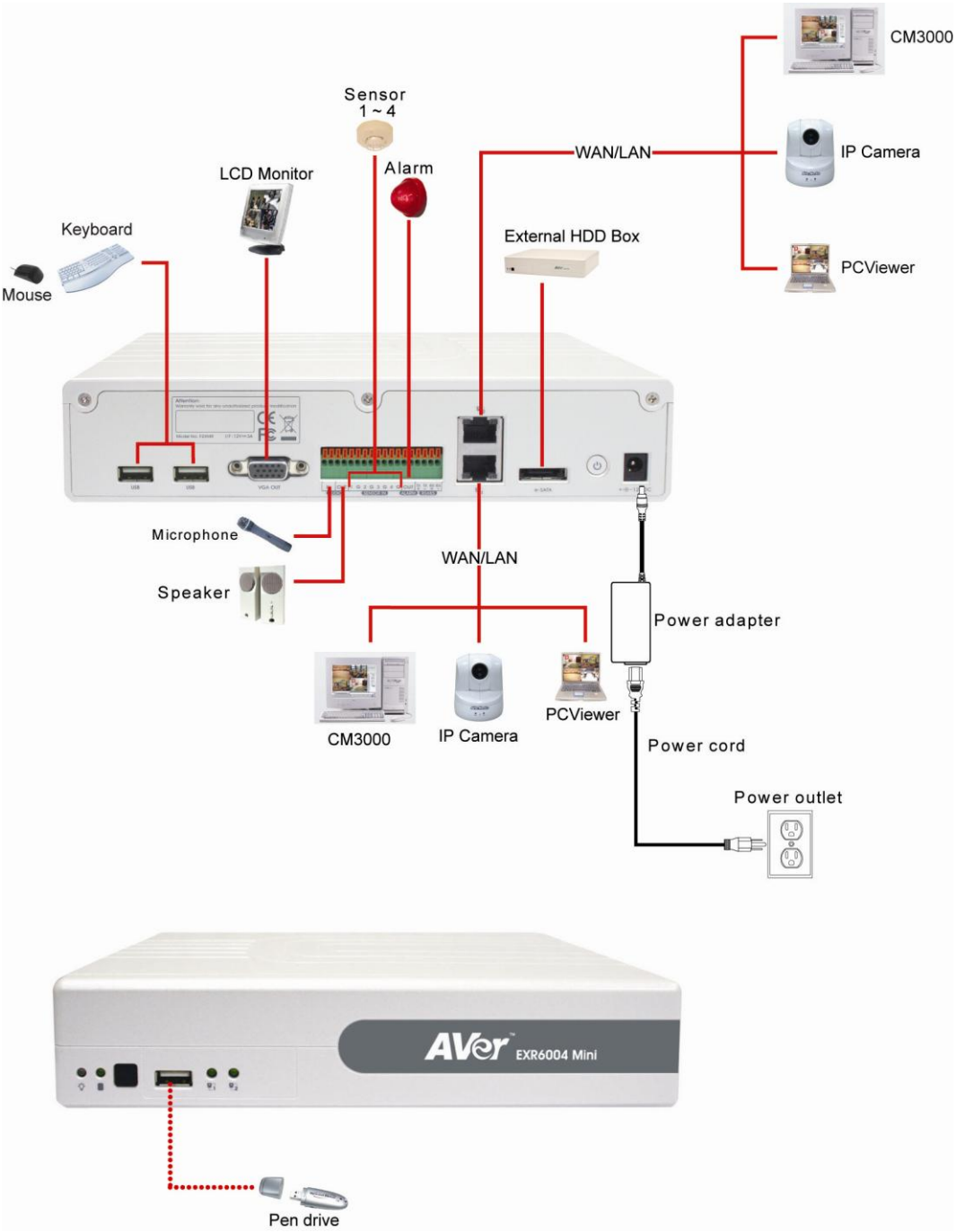


7. You may now connect all the cables. When the power is connected, the Power LED light turns on

1.4.2 Connecting Devices

The back panel of the DVR 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 acceding. The USB ports can connect the mouse and keyboard for more easily to operate DVR server.

Follow the illustration below to make the connection:

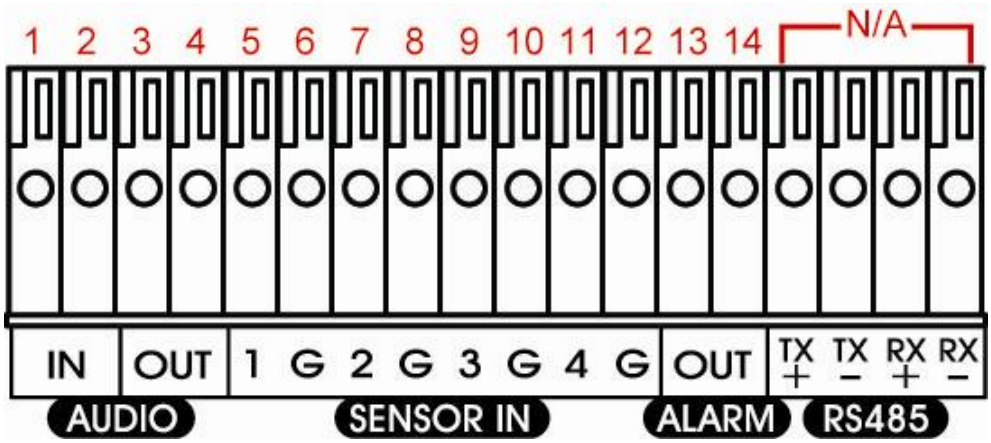


- Both two LAN ports can be connecting with IP camera and remote accessing.
- To complete shutdown (power off DVR unit and fan) the DVR unit, please disconnect the power cord cable from DVR unit.

1.4.3 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 DVR unit

2.1 First Time Using the DVR Unit

1. Connect the mouse to the USB port located at front panel of the DVR unit.
2. Using the mouse and virtual keyboard (see also Chapter 2.1.1) to operate the DVR system.
3. Power on the DVR unit.
4. For security purpose, the DVR 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

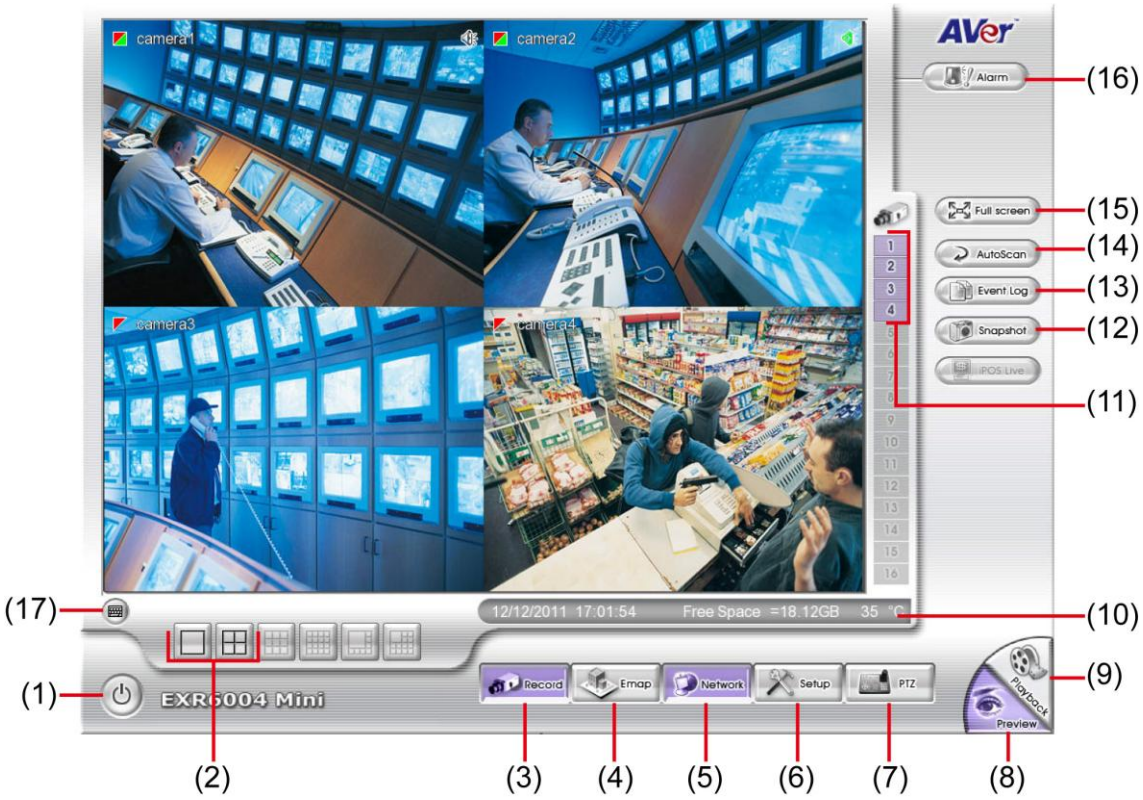
5. Formatting the hard disk.
   a. Click **Setup** and enter the password
   b. Click **System** → **Add**
   c. Select the hard disk from device list and select **Format type**
   d. Click **Format** button to start formatting
   e. When formatting is done, click **OK**.
6. Setup the date and time in 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. Next, mark **Enable** to 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 the Buttons in Preview Mode



Name	Function
(1) Exit	Call up the Logout dialog box. In the logout dialog box, you may do the following: - **Reboot:** To restart the DVR system. It is required to enter the password - **Power Off:** To shutdown the DVR system. - **Login:** Using different ID to login to DVR system. - **Exit:** To close the application.
(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 **right-click** and **drag** 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 Chapter 2.2.1).
(5) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection. The default is disabled.
(6) Setup	Configure the system settings. (see also Chapter 3)
(7) PTZ	To call out the PTZ control panel(see also Chapter 2.2.2)
(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 Chapter 2.3).
(10) Status bar	Display the recoding date, time and hard disk space of DVR unit.
(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 Chapter 2.2.3)
(14) AutoScan	Start/Stop video screen cycle switch.

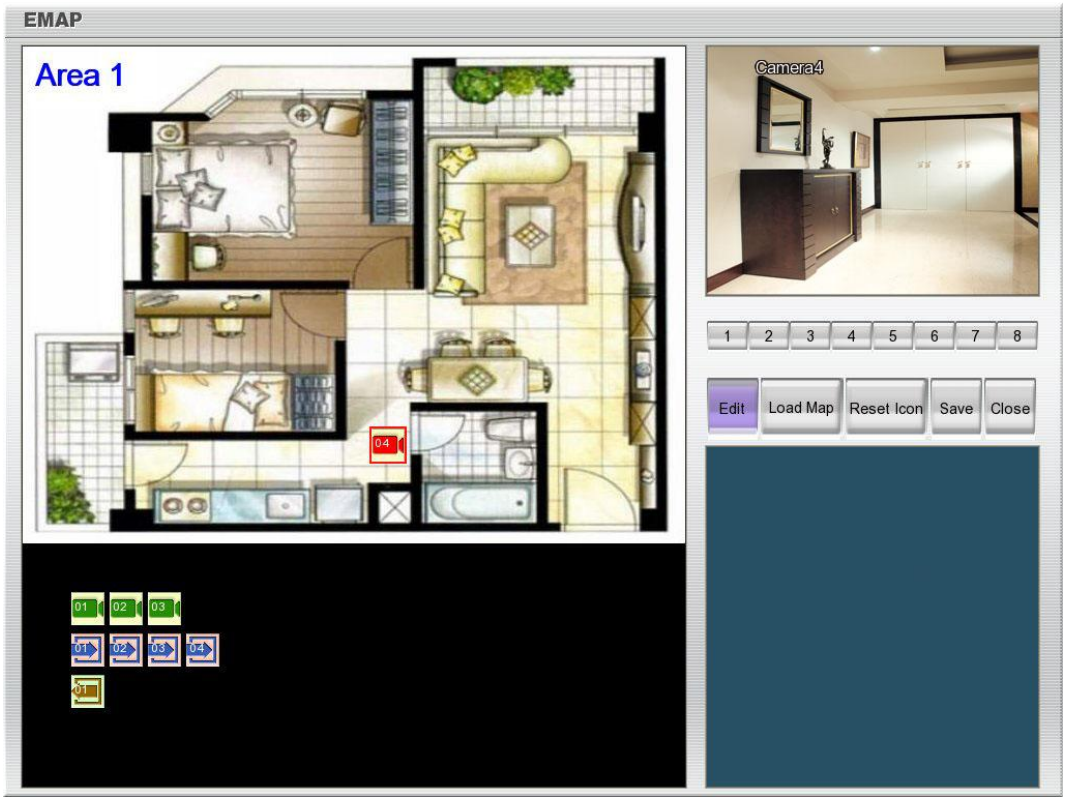
Name	Function
(15) Full screen	View in full screen. To return, press the right button of the mouse or **ESC** on the keyboard or click the arrow icon.  When you switch to full screen in multiple-screen mode, **Left** click to toggle to only display one of the video in the multiple-screen mode or all.
(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

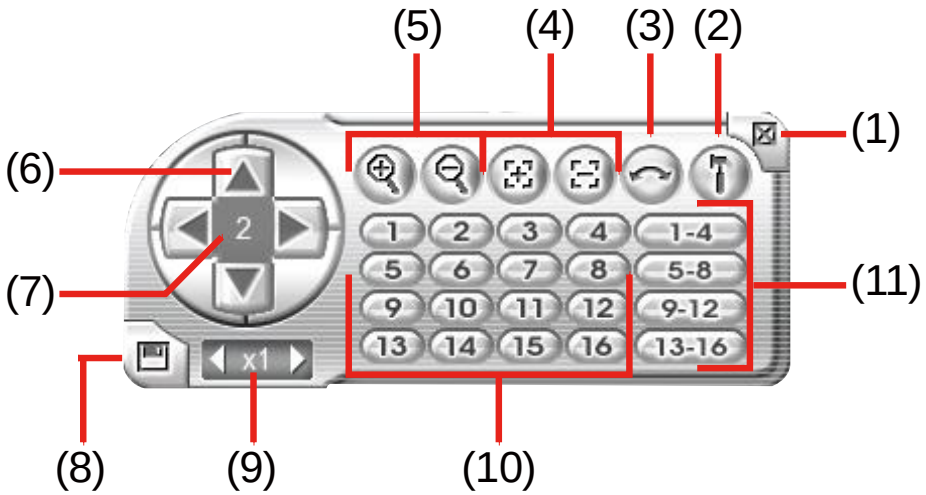
1. Click **Emap**.
2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.
3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
4. When the inserted map appears on the Emap screen, 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 the Buttons in PTZ Camera Controller



Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Configure PTZ cameras.(see also Chapter 2.2.2.1)
(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.

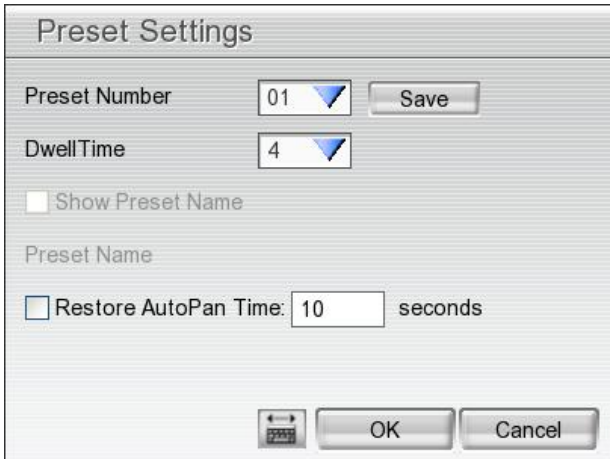
2.2.2.1 Setup the IP PTZ Camera

When IP PTZ camera has successful connected with the DVR 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 DVR 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.

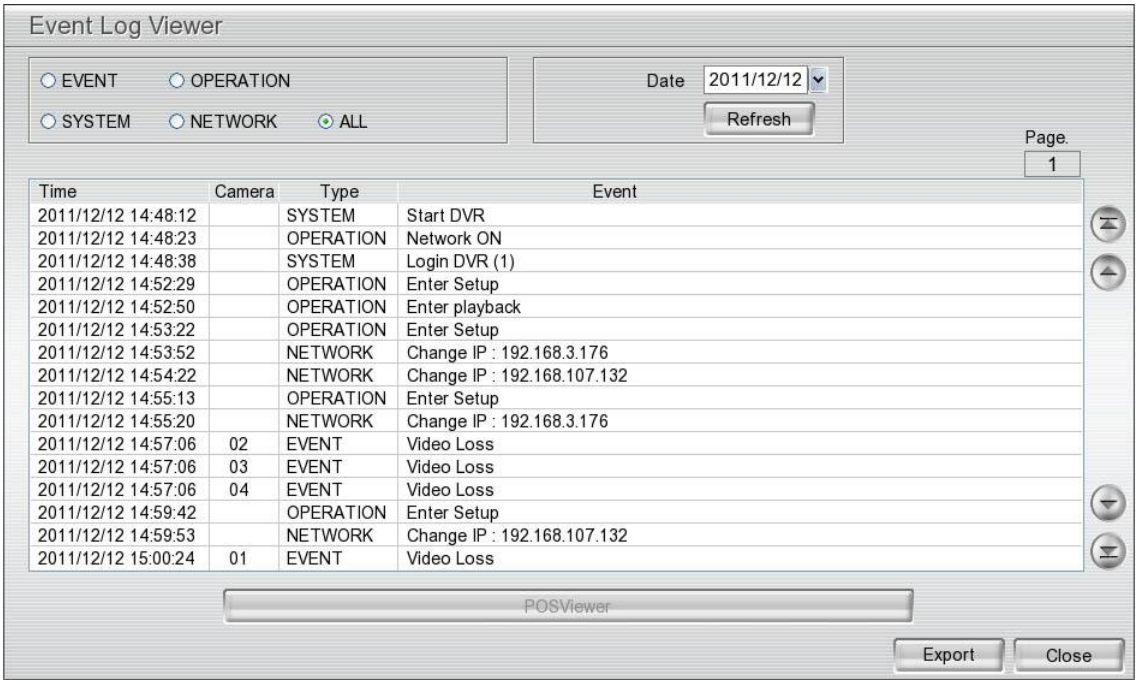
1. On Preview UI, select the channel that is an IP PTZ camera connection.
2. Click **PTZ** button from Preview UI and PTZ control panel will show up.
3. In the PTZ control panel, using the arrow button to adjust the position of IP PTZ camera.
4. And then, click **Setup** (see also Chapter 2.2.2). The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



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.

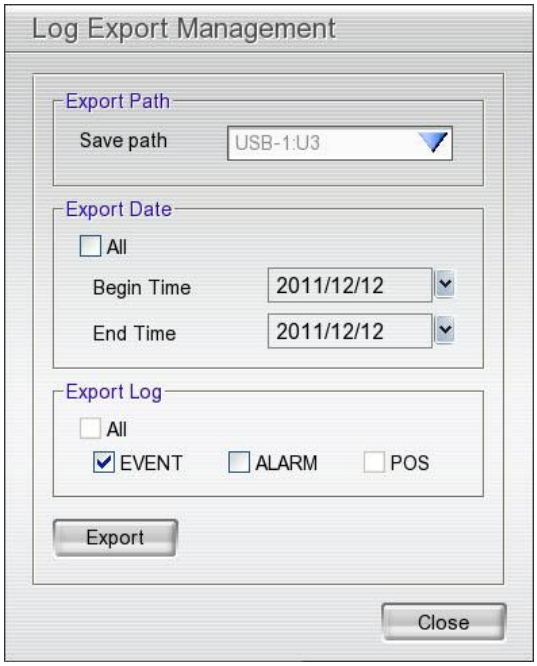
2.2.3 Using Event Log Viewer

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



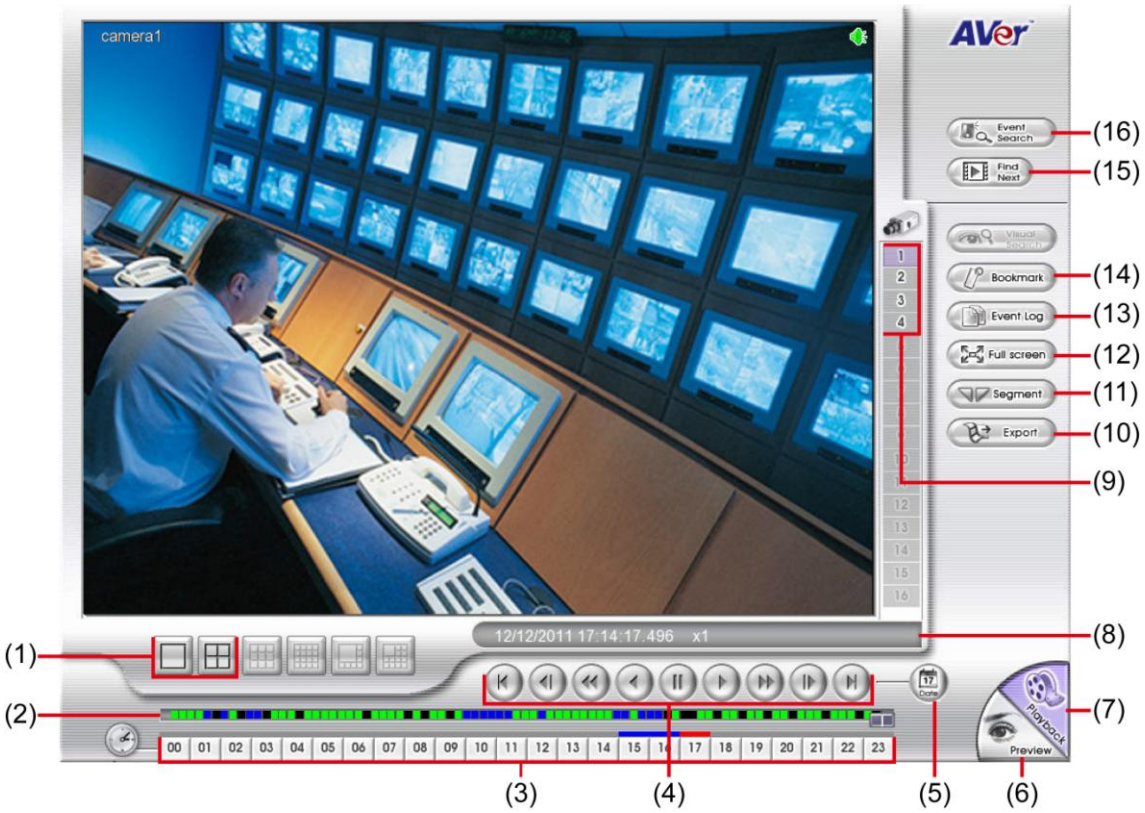
1. Click the **Event Log** button on DVR system main interface. The Event log viewer window will show up.
2. Select the **Date** to view.
3. To filter the records, select and click the select button to display **Event**, **System**, **Operation**, **Network** or **All**.
4. Use the scroll button to go next, previous, first, or last page (, , ,)of event list.
5. User can export the event log to USB pen drive in *.txt format. Click **Export** button and select **Export Date** and the type of **Event log**. Then, click **Export** button. The export event log file is in a Backup folder.

Please plug the pen drive to DVR unit before click export button.



2.3 Familiarizing the Buttons in Playback Mode

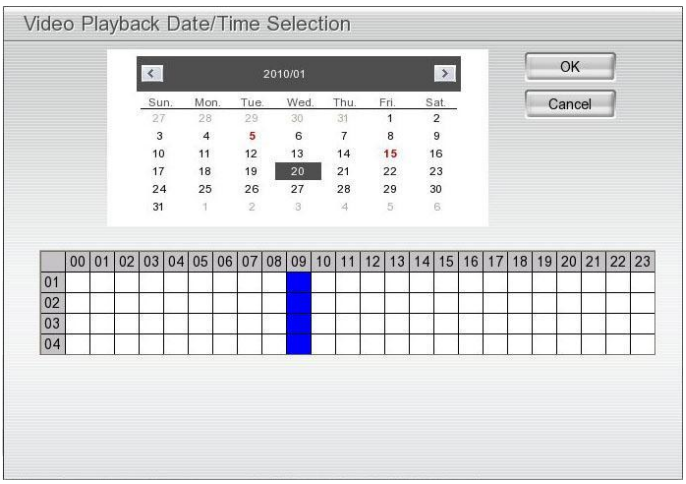
To switch in Playback mode, click **Playback** button at the lower right corner of Preview mode user interface.



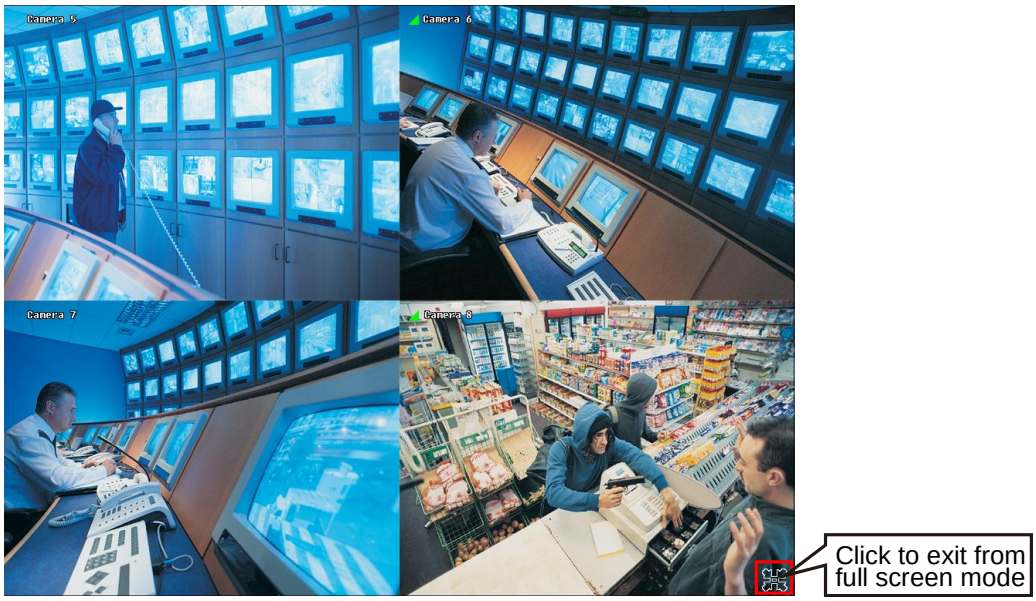
Name	Function
(1) Split Screen Mode	Select from 2 different split screen type to playback the recorded video file of all the camera or one camera on a single screen. When user is in single screen mode, user can **right-click** and **drag** a square on the area you want to enlarge the view. Right-click 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. When in single screen playback mode, the colors in progress bar have different means. ■ Green color: a motion was detected and recorded ■ Blue color: is a general (always) recording file and no any event or motion happen during recording ■ Red color: the sensor was triggered while recording ■ Black color: no record file at the time period ■ Yellow color: the video loss happen while recording
(3) 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. While the red bar indicates that you are currently viewing the recorded video file.

(4) Playback Control Buttons	From left to right order: **Begin:** Move at the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the reduce speed from 64x, 32x, 16x, 8x, 4x, 2x, 1x, 1/2x, 1/4x. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file.

Name	Function
(4) Playback Control Buttons	**Faster:** Play the recorded video file at the speed of 2X, 4X, 8X, 16x, 32x, or 64x. **Next:** Go to the next frame. **End:** Go to the end of the recorded video file.
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. 

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. ■ **Snapshot:** Capture and save the screen shot in *.jpg format. ■ **Output Video Clip:** Save the segmented file in *.dvr format to external USB storage device (see also Chapter 2.3.1). ■ **Backup:** Save the playback file to external USB device or external DVD burner.
(11) Segment	Keep a portion of the recorded video (see also Chapter 2.3.1).
(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.

Name	Function
(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 Chapter 2.3.2).
(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 Chapter 2.3.3)

2.3.1 To Cut and Save the Wanted Portion of the Recorded Video

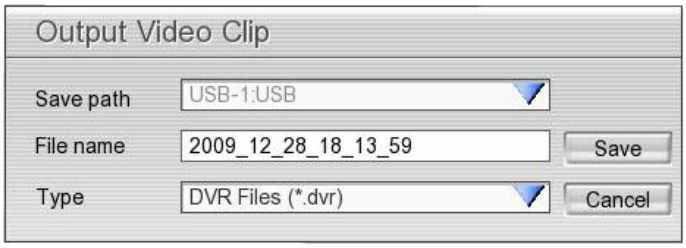
1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.



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.



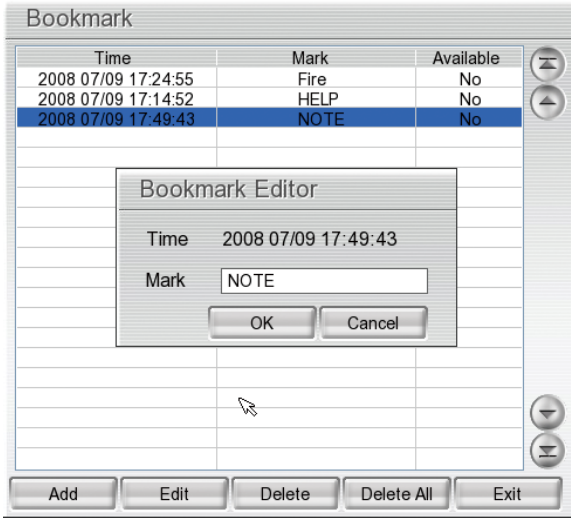
3. Click **Export** > **Output Video Clip** button to save the wanted portion.



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.
   - **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.



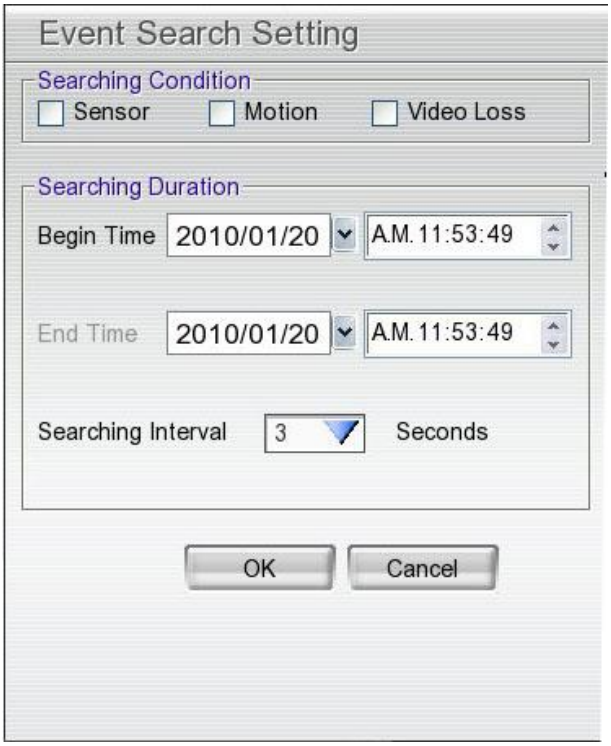
2.3.3 Using the Event Search

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 .
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 in a period of time won't list out the same events. Then, click **OK** to start searching.



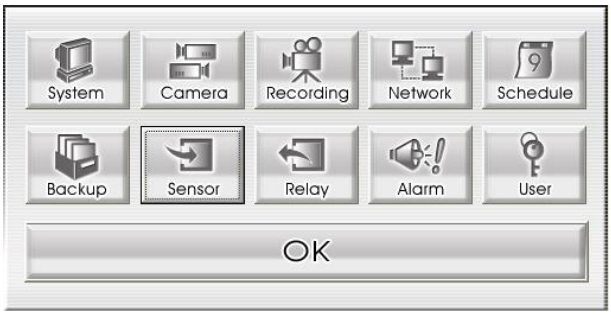
The DVR system will set the date of **End Time** at 3 days later of Begin Time automatically. If event data are less than 3 days, the DVR system will set End Time at current date. Time of End Time is adjustable.

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



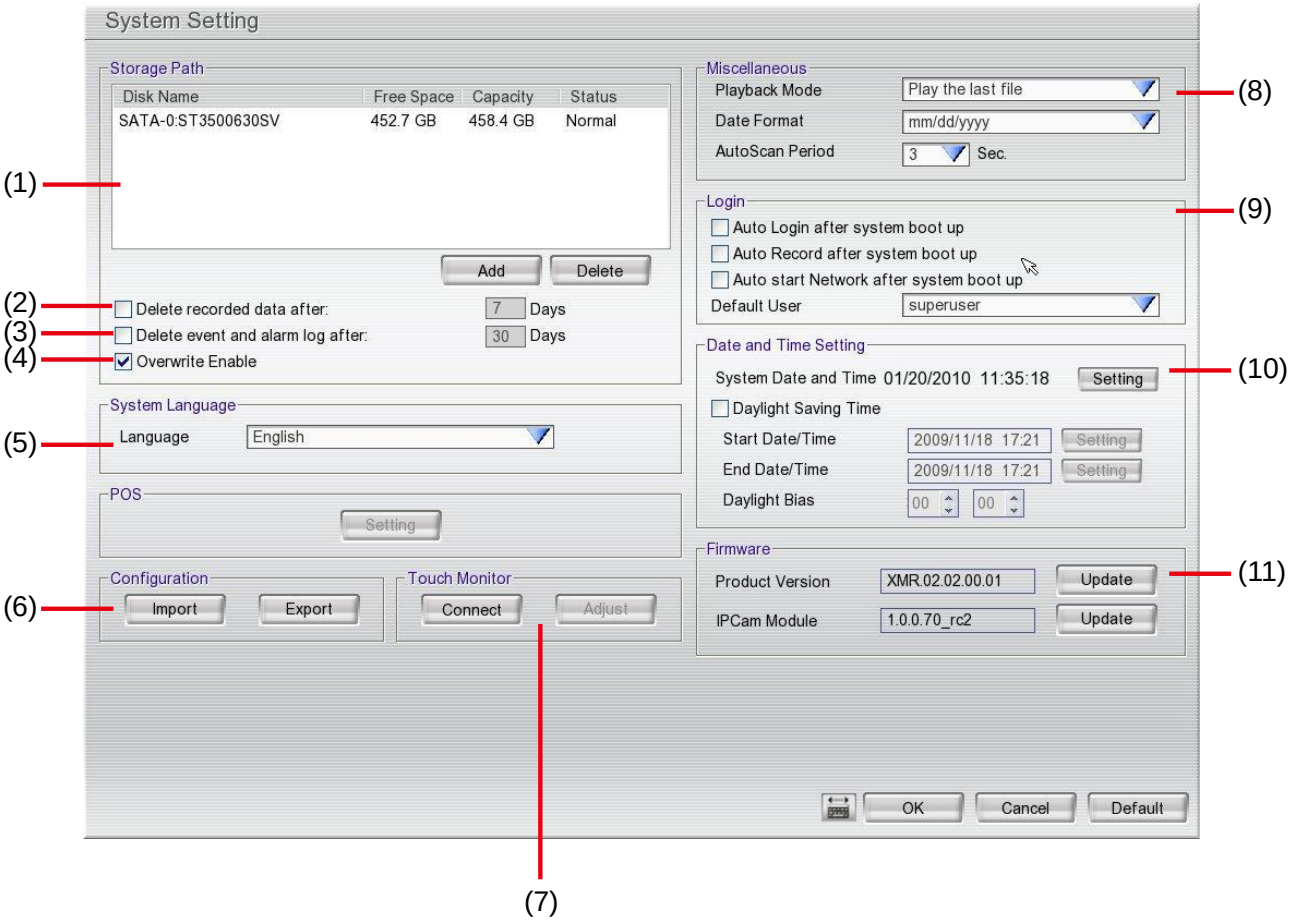
Chapter 3 Customizing the DVR System

In the Preview screen mode, click Setup button to customize your DVR. Enter the ID and password to authenticate(Default ID is **admin** and password is **admin**).
When the DVR configuration setup selection appears, select and click the buttons you want to change the setting.



3.1 System Setup

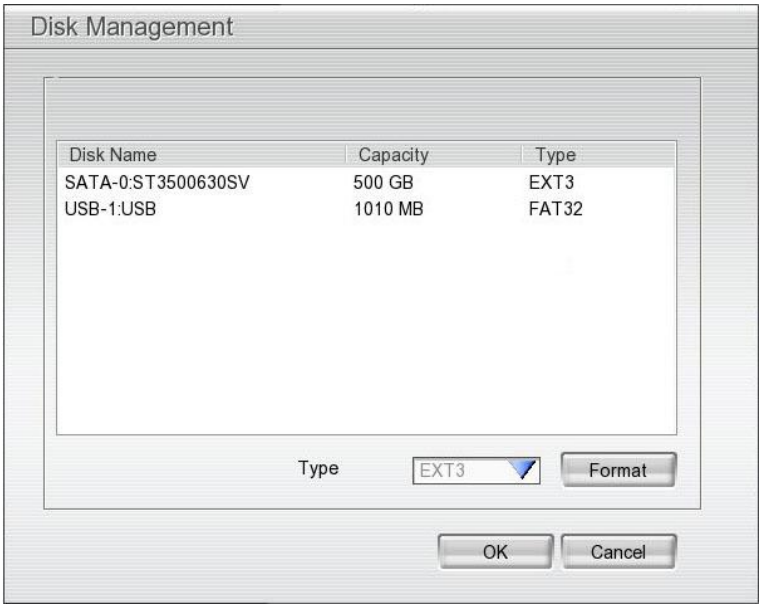
In the System Setting dialog box, click **OK** to accept the new settings, click **Cancel** to exit without saving.



(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 DVR 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

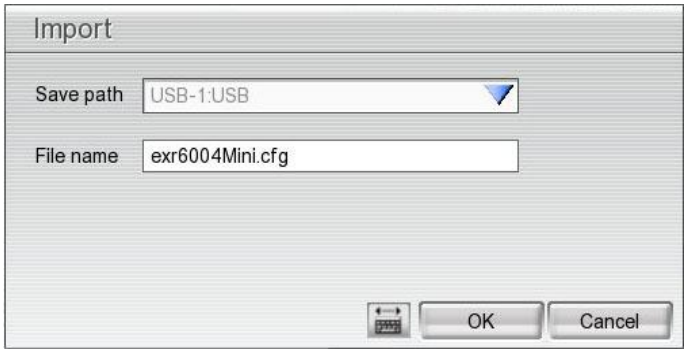
When there is not enough free space to record one hour data, the system automatically replaces the oldest data.

(5) Language

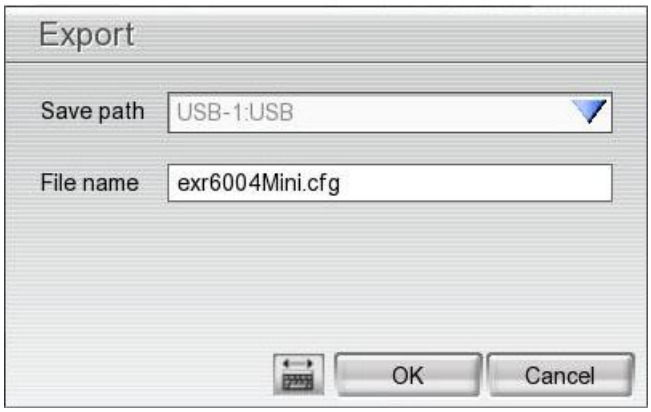
Customize the system to display the tool tips and dialogs based on the selected language. Default language is in English.

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

1. Connect the touch monitor with DVR server.
2. Turn on the DVR 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 DVR 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 DVR when the operating system is started.
- **Auto Record after system boot up**
  Automatically start video recording when the DVR is executed.
- **Auto start Network after system boot up**

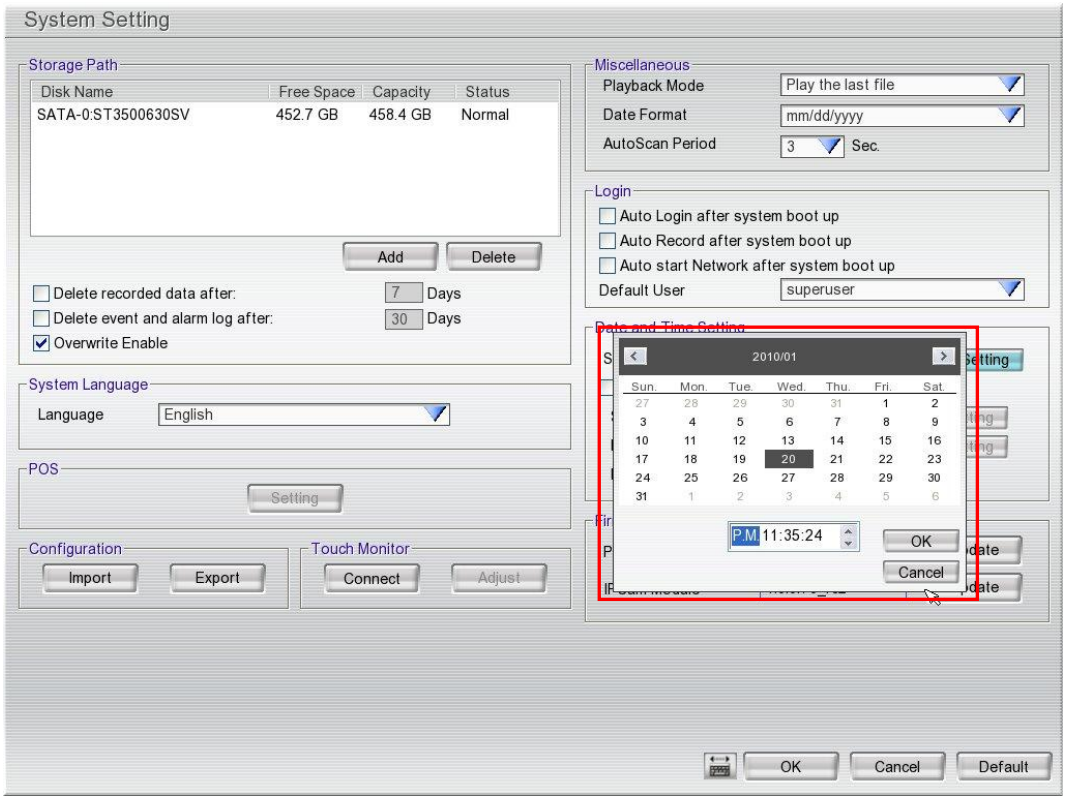
Automatically start network connection when the DVR is executed.

- **Default user**

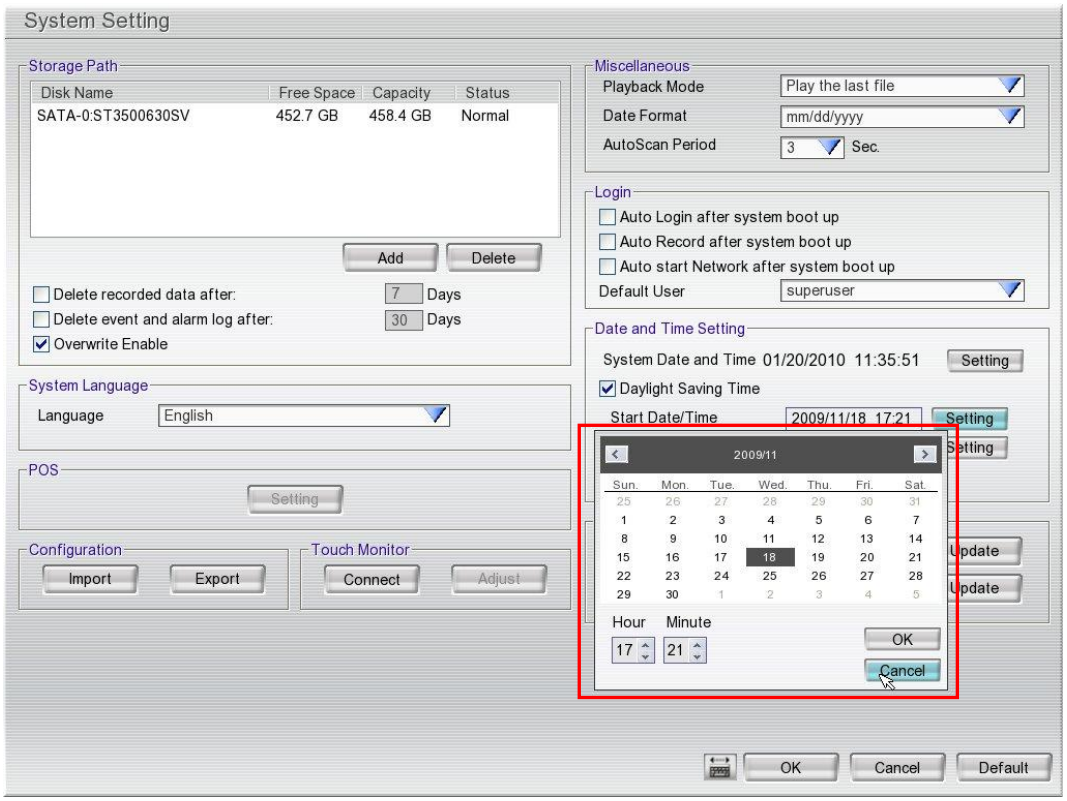
  Automatically log in to the selected default user when the DVR is executed.

(10) Date and Time Setting

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

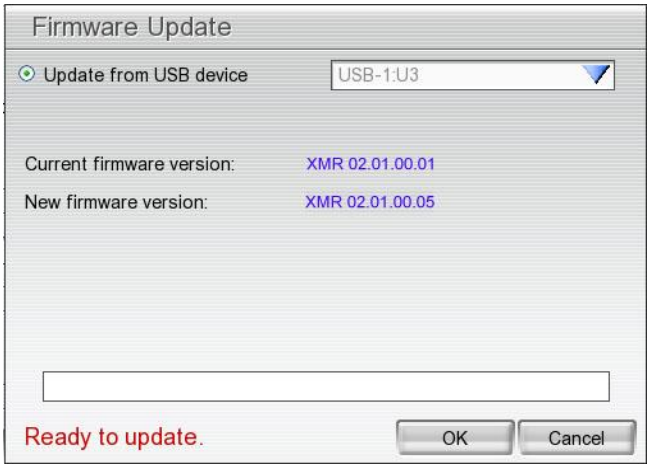


- **Daylight Saving:** Mark **Daylight saving** check box to enable daylight saving function. And then, select the **Start Date/Time** and **End Date/Time** by click **Setting** button.
- **Daylight Bias:** Assign a time that it is for daylight saving time offset in your time zone. For example: if the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



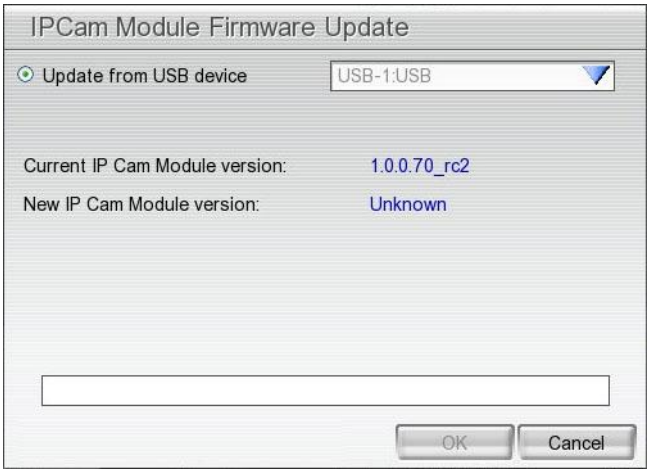
(11) Firmware

- **Product Version Update:** Upgrading the firmware of DVR 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 DVR unit.
  3. Select the USB disk if there is more than one USB disk from drop down list. The DVR 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.

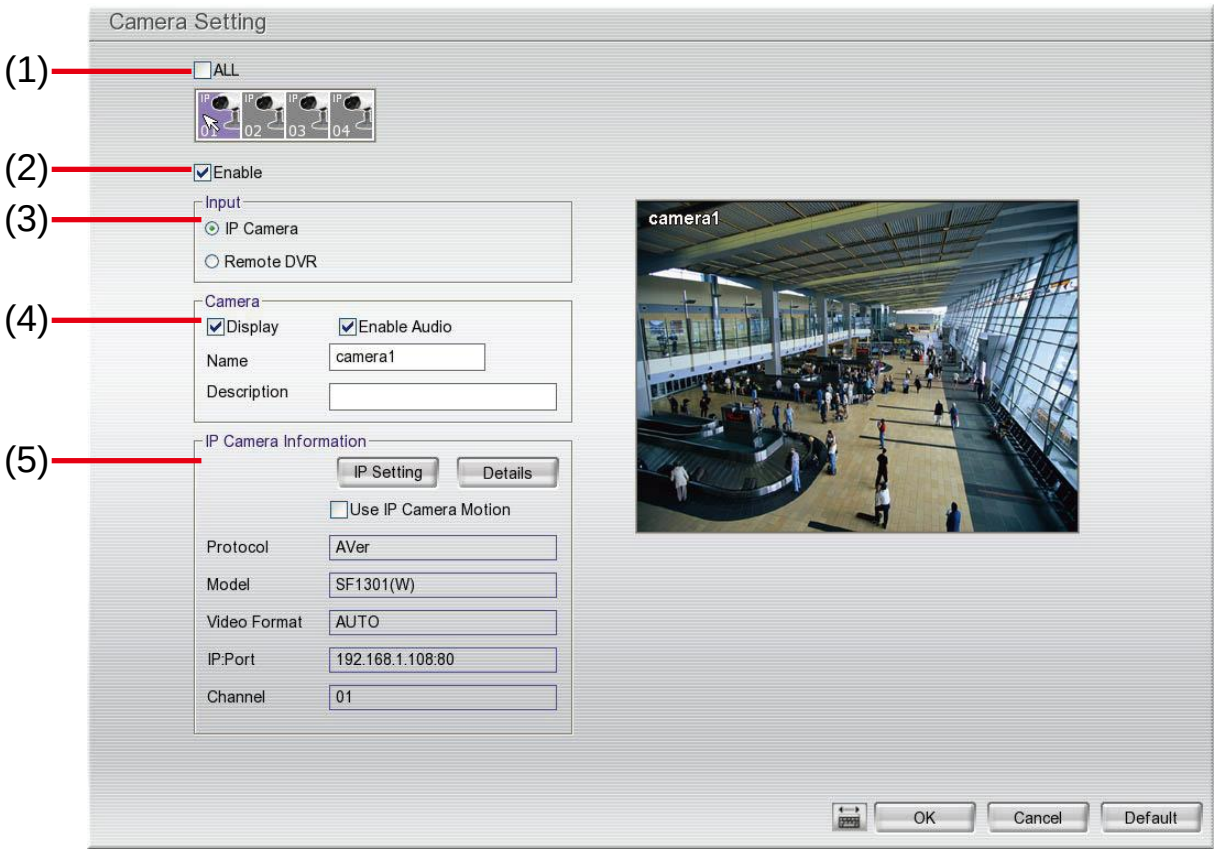


  2. Save the firmware on root directory of USB disk. And then, plug USB disk into DVR unit.
  3. Select the USB disk if there is more than one USB disk from drop down list. The DVR unit will auto detects the firmware. The current firmware version will show in **Current IP Cam Module version** and the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

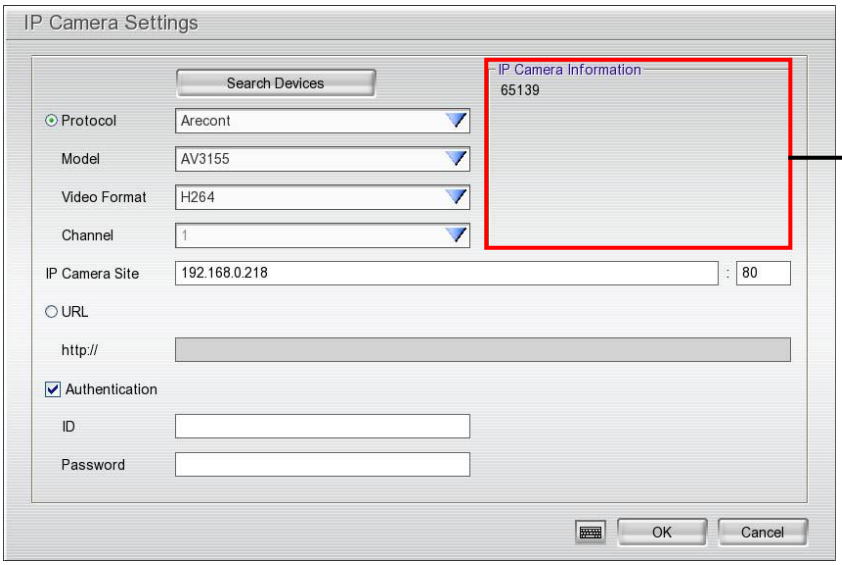
(4) Camera

- **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: To connect the IP cameras.

- **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.

1. **IP Setting:** Click **IP setting** to call out IP camera setting window.



2. Click the radio button of **Protocol** to start setup IP camera.
3. Select the **Protocol**, **Model**, **Video Format**, and **Channel** of the IP camera.
4. Enter IP address and connecting port in **IP Camera Site** column.
   - ✓ **Search Device:** If use doesn't know any IP camera protocol, click **Search Device** button to find the IP cameras that can be detected on your LAN network; not all IP camera on your LAN network can be found (see also Chapter 3.2.1.1).

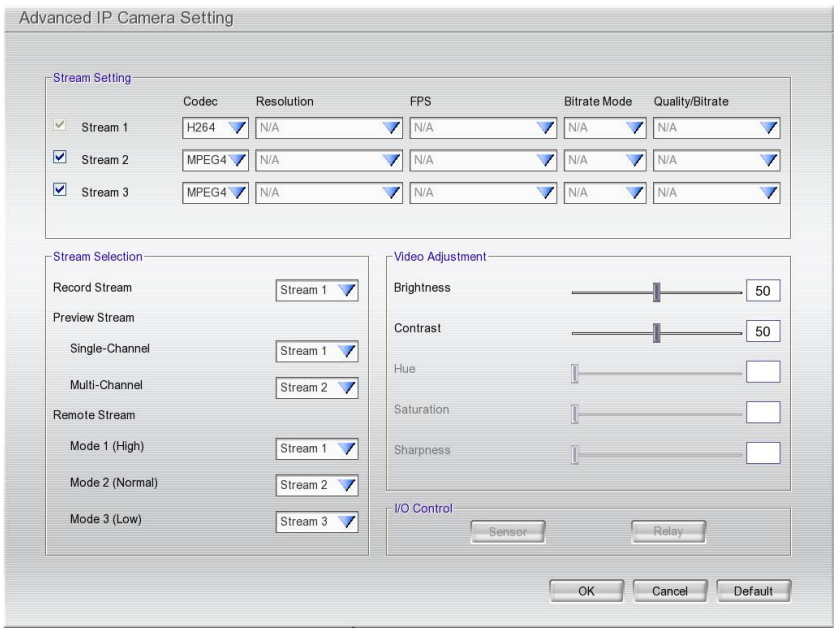
For supported IP camera list, please refer to the IP camera support list on web site (http://surveillance.aver.com/).

5. Also, user can choose to enter **URL** of IP camera to connect an IP camera.

User only can choose use Protocol or URL one at a time; can't choose both at the same time.

6. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
7. Click **OK** to connect with the IP camera.

■ **Detail:** The setting of advanced IP cameras are related to the **Intelligent Streaming** function in System setting. Click **Detail**. Click **Default** will back to the factory default value.



- ✓ **Stream Setting:** user can setup **Codec**, **Resolution**, **FPS**, **Bitrate Mode**, and **Quality Bitrate**

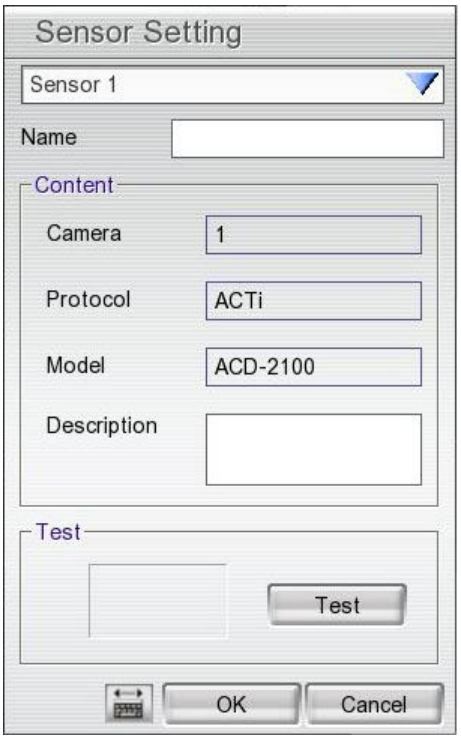
of **Stream 2and Stream 3** on the selected IP camera channel. The Stream 1 is stetted in default.

- ✓ **Stream Selection:** user can setup which stream (**Stream 1** ~ **Stream 3**) to use on **Record**, **Preview**(Quad and Single mode), and **Remote site**.
- ✓ **Video Adjustment:** user can adjust **Brightness** and **Contrast** of IP camera.

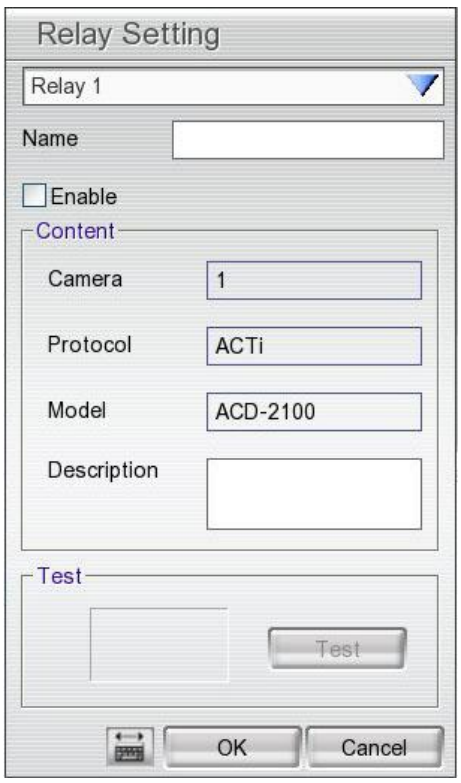
The stream setting only support for AVer IP camera series.

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.



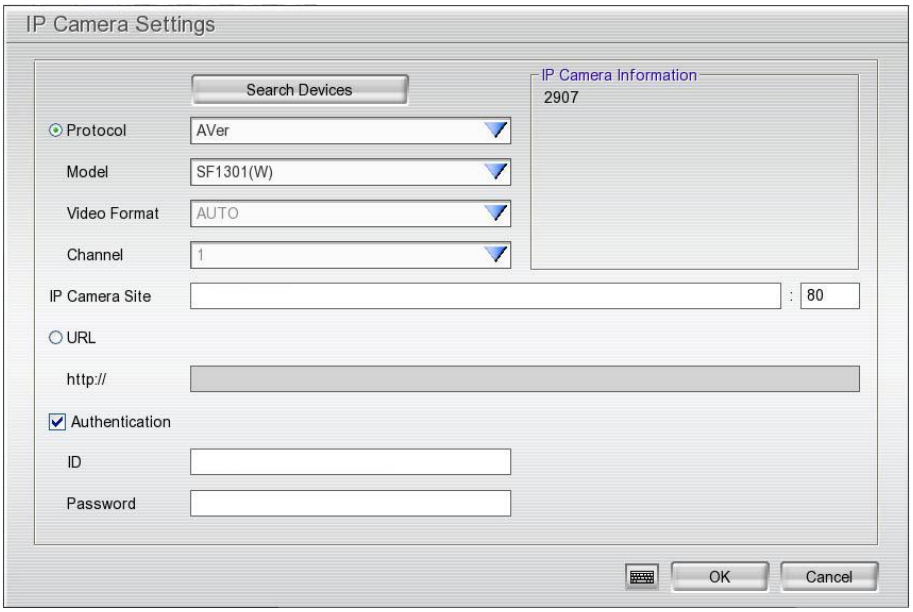
- **Relay Setting**
  1. Click **Relay** button.
  2. Click the drop-down list and select the relay ID number.
  3. Enter relay name in **Name** column
  4. The system automatically detects the camera and input relates information. In the Content section, enter relay **Description**.
  5. In the test 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.



3.2.1.1 Using Search Device to Connect IP Camera

The Search Device function help user to find the IP cameras on your LAN network that can be detected by DVR system. User can directly click the IP camera from search result list and connect to the selected IP camera without to enter any data of IP camera.

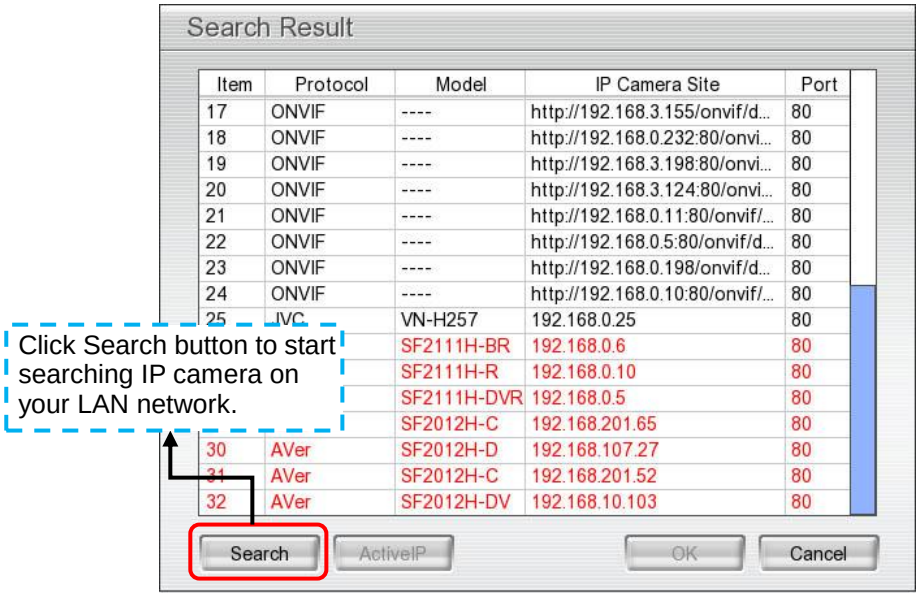
1. In preview mode, click **Setup** > **Camera** and select the **Input** is **IP camera**.
2. Next, click **Add IPCam** to call out IP camera Settings window.



3. Click **Search Device** button.

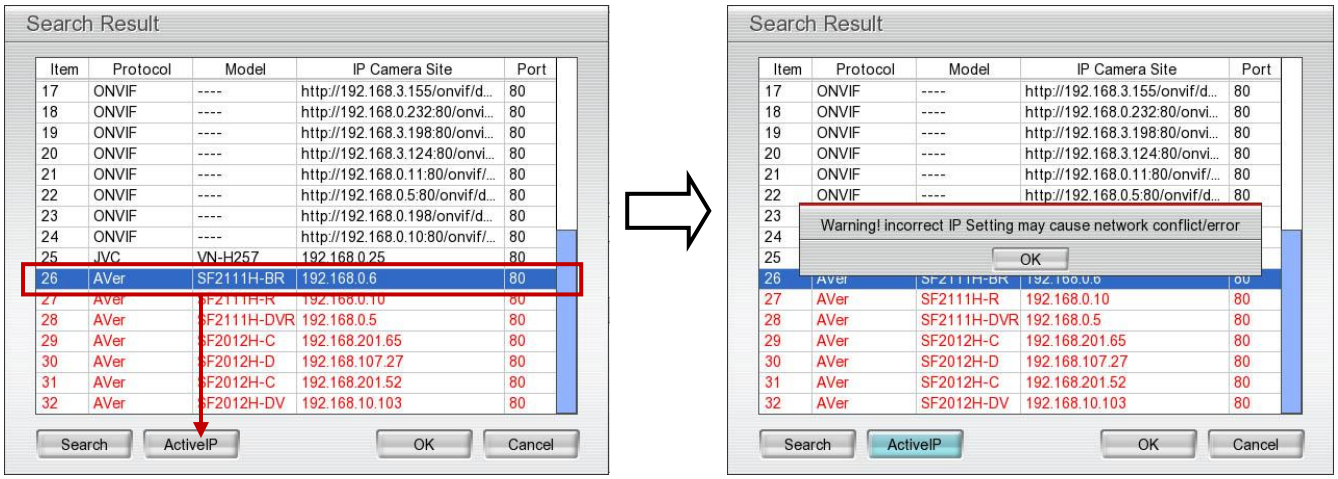
> For supported IP camera list, please refer to the IP camera support list on web site (http://surveillance.aver.com/).

4. In Search Result window, click **Search** button to start searching IP cameras.

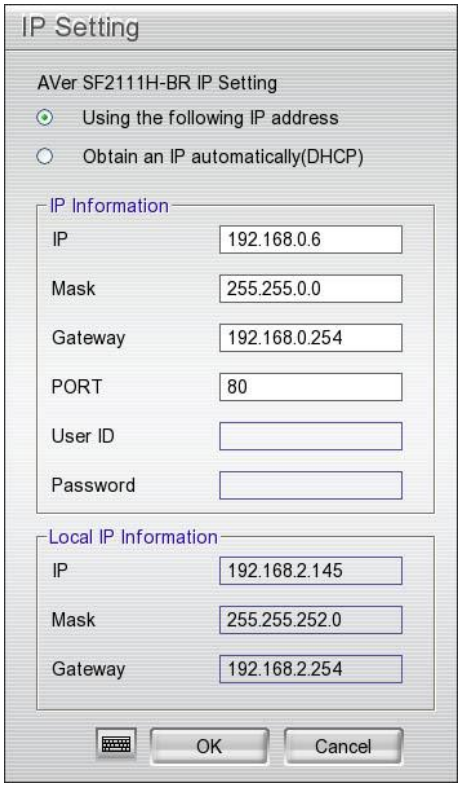


5. After search completing, user can click the IP camera that wants to connect and click **OK**; the screen will back to IP Camera Settings window.
6. For connecting AVer series IP cameras, the IP cameras list in **red text** and these means the IP camera is can be configured from DVR site. User can select the IP camera and click **Active IP** button to configure the IP camera's setting; even the IP camera is not in the same IP segment. After selecting

the IP camera, a warming message dialog is popup and click **OK** to continue it.



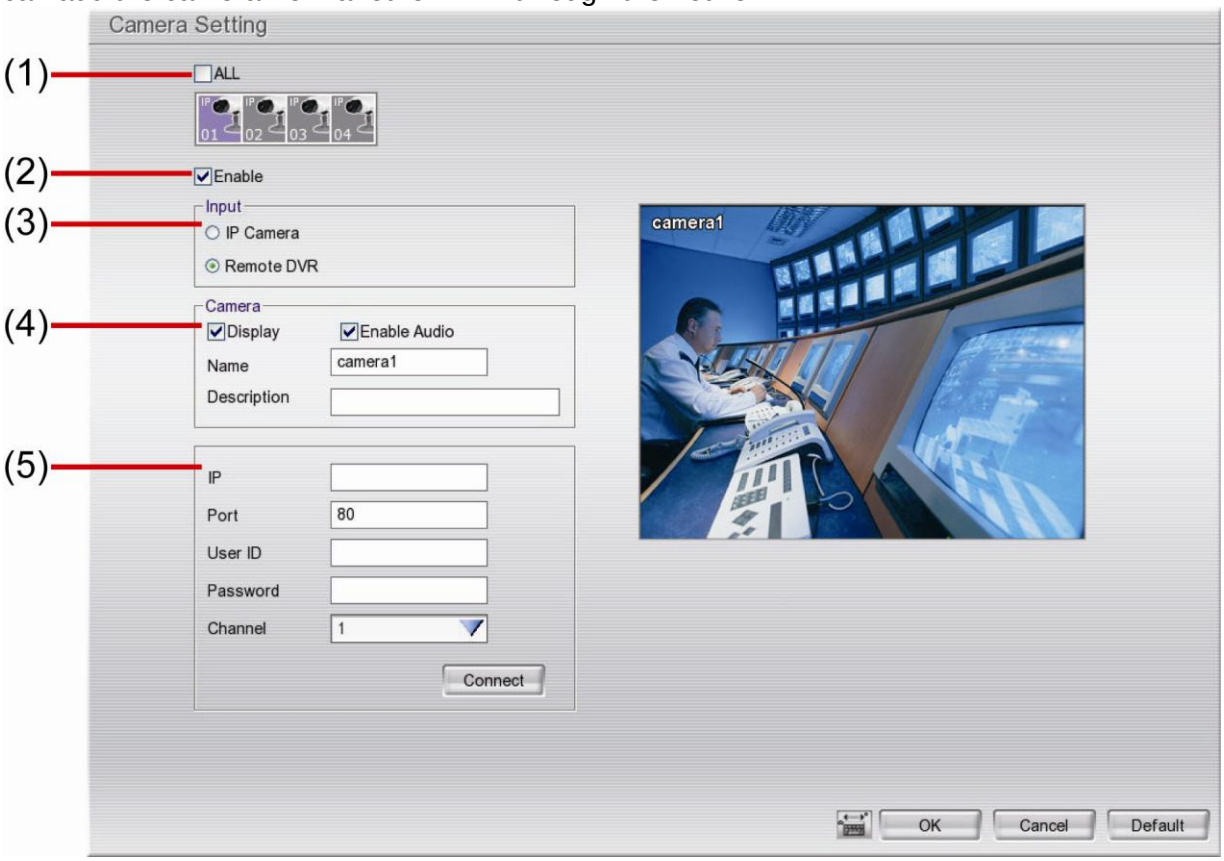
In IP setting window, user can configure IP camera's IP, Mask, Gateway, and Web port. Also, user can change camera's IP mode – DHCP or Static IP. In Local IP Information section, it displays current DVR system's IP, Mask, and Gateway. After configuring, click **OK** and the new setting will apply to the IP camera. In Search Result window, click **OK** to back to IP Camera Settings window.



7. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
8. Click **OK** to connect with the IP camera.

3.2.2 To Setup Camera from the Remote DVR

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



(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**.

(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

Enter the IP address of the camera

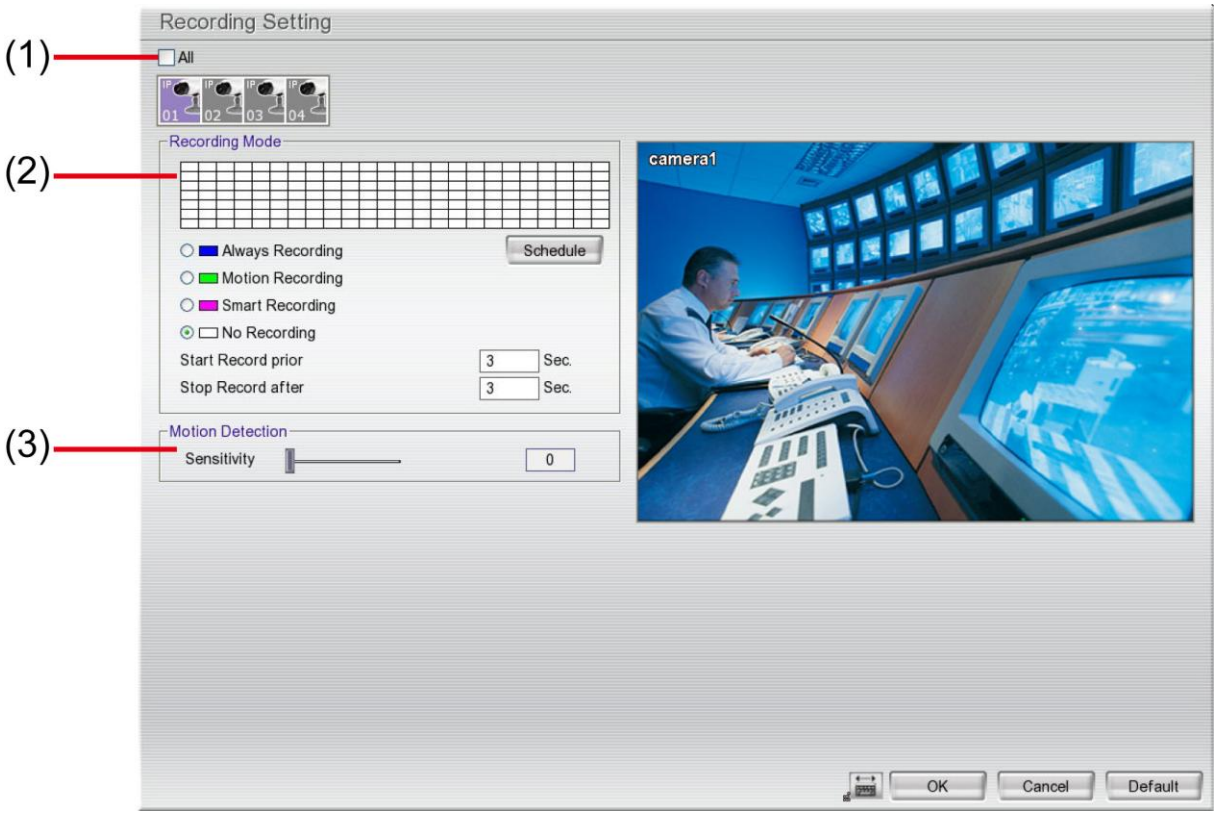
- **Port**
  The port for connection
- **User ID**
  Enter the user id that for connecting authority
- **Password**
  Enter the password that is for connecting authority
- **Channel**

Select the channel of connected camera

- **Connect**

  Click to connect the camera when all configurations are set.

3.3 Recording Setup

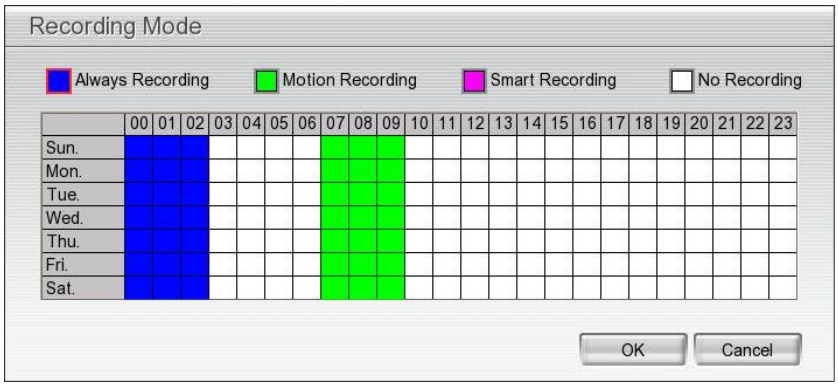


(1) Camera Icons

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.

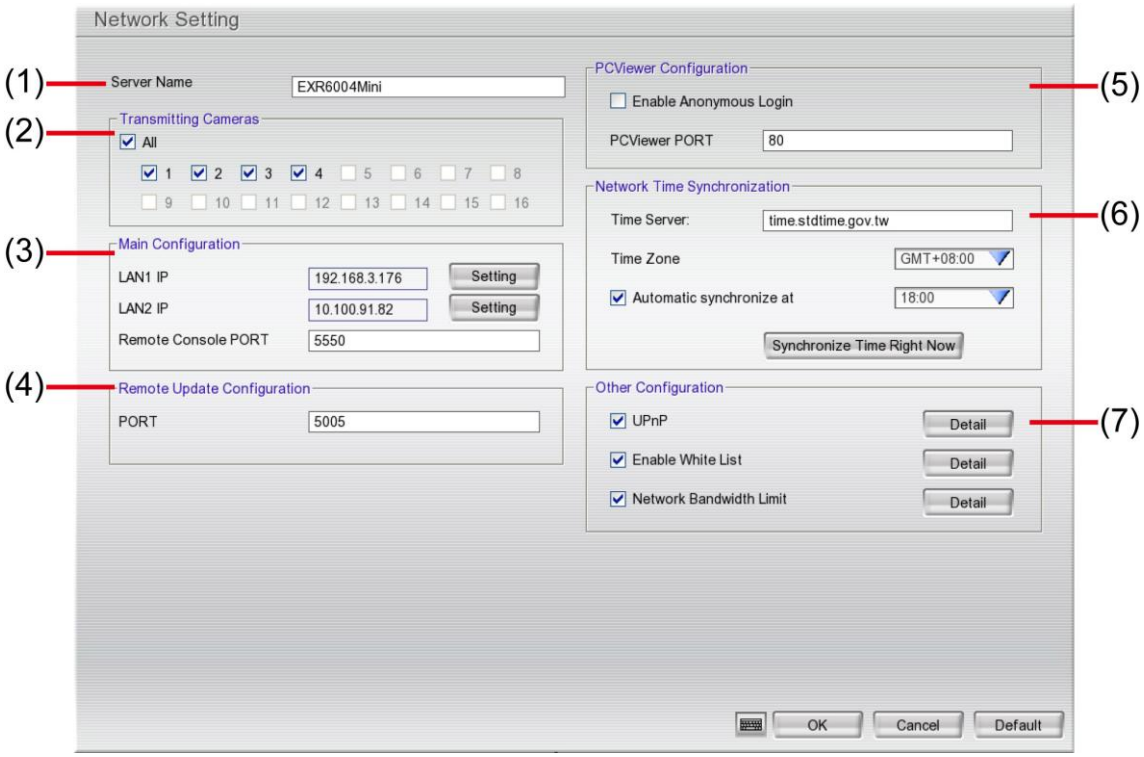
- **Smart Recording**
  Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.
- **No Recording**
  The system won't do any recording.

(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.



(1) Server Name

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

(2) Transmitting Cameras

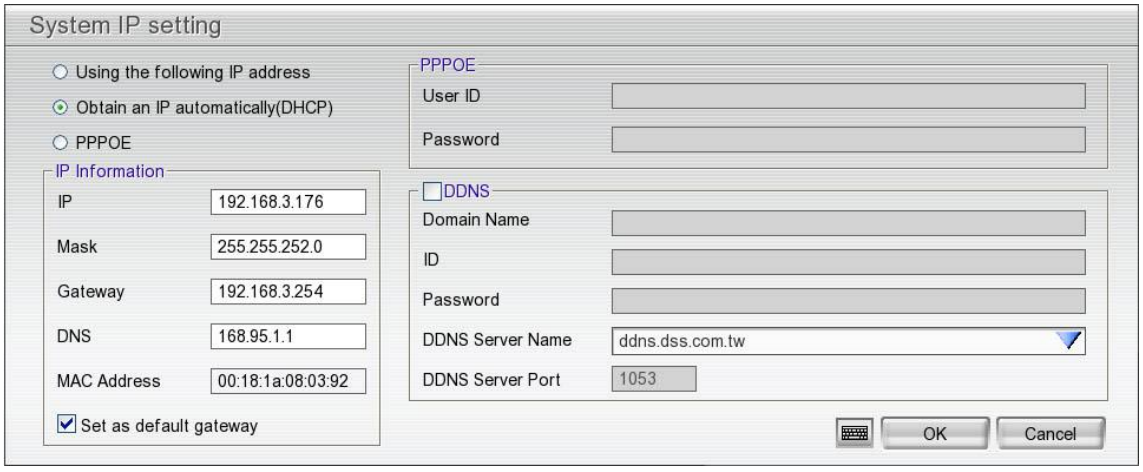
Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using PCViewer, Remote Console, CM3000(Gold),PDA Viewer and JavaViewer (still image). To select all the cameras, enable the **ALL** check box.

(3) Main Configuration

Set the DVR IP address and **Remote Console Port**. You need this when accessing DVR server from the remote location via internet. The DVR system supports dual LAN, user can setup 2 IP address and only the one has marked **Set as default gateway** can configure **DDNS** function. Click **Setting** to setup IP setting.

The default IP of the DVR server is 192.168.2.2 for LAN1 (lower LAN port in the back of the DVR) and 192.168.3.2 for LAN2 (upper LAN port in the back of the DVR).

- 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 DVR 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 DVR 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 DVR 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 DVR system. We do recommend setting the gateway data in port LAN 1.

  - **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 DVR 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 DVR 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.avers.com.tw**. (See Appendix A)
  - **Domain Name**
    Enter the domain name that user has registered.
  - **Password**
    A password use to access DDNS that user has setup when register the domain name
  - **DDNS Server Name**
    Select your DDNS server. The default only has one DDNS server now. It may provide more DDNS in future.
  - **DDNS Server Port**
    Fill in the port that connects to DDNS server. Default is 1053.

(4) Remote Upgrade Configuration

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

(5) PCViewer Configuration

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

(6) Network Time Synchronization

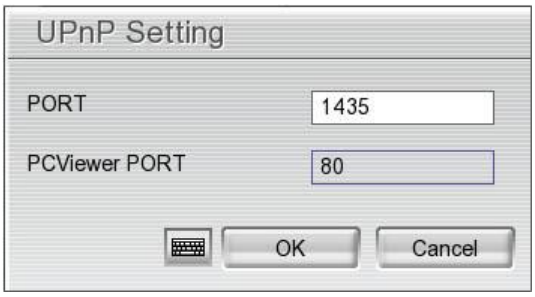
Adjust the DVR system time same as network time server. Fill in the **Time Server** IP address or domain name and select the **Time Zone**. User can enable **Automatic Synchronize at** to set automatic synchronize time on a daily basis. Or, user can click **Synchronize Time Right Now** to adjust time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

(7) Other Configuration

- **UPnP**

  Enable UPnP function to automatically map the port setting of PCViewer to the router on the local network. This function is available when the router has enabled the UPNP function.

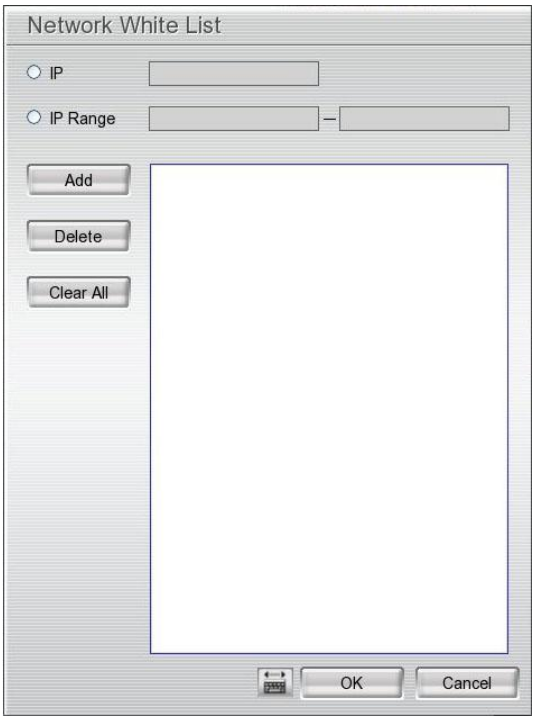
  Assign a port on DVR as an UPnP protocol port. The **PCViewer Port** is displayed the current PCViewer port number.



- **Enable White List**

Without any IP address/IP range is assigned in White List table, none of IP address/IP range is allowed to access DVR when White List function is enabled.

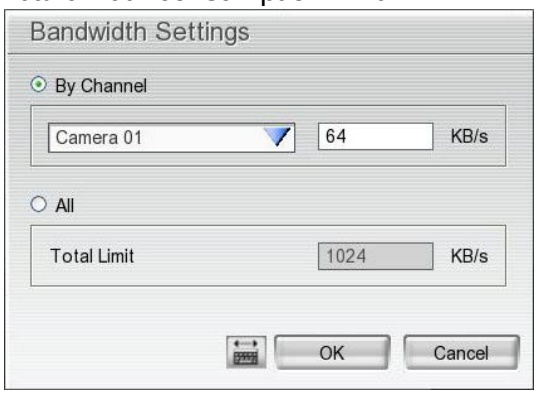
An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



- **Network Bandwidth Limit**

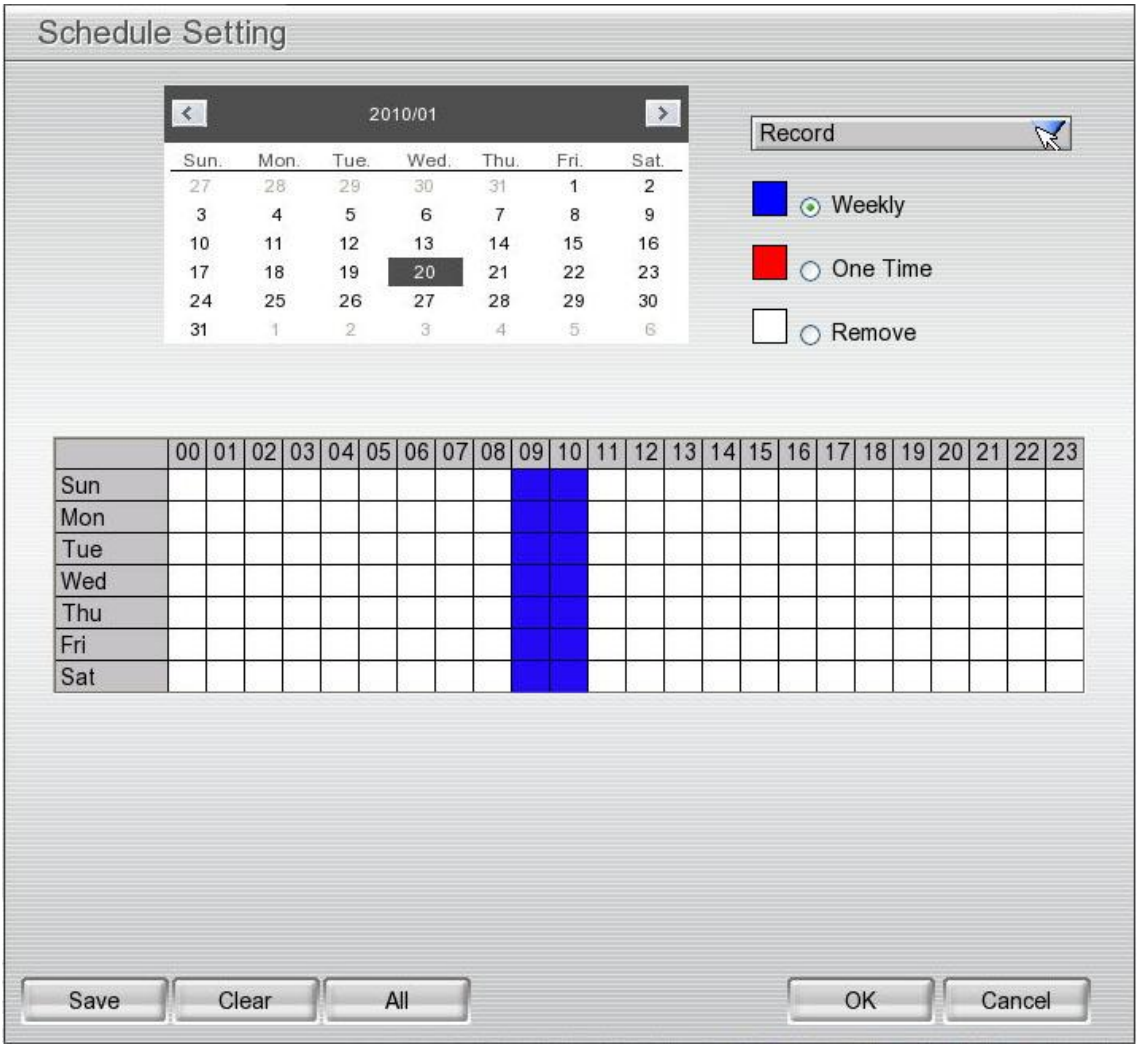
  By Channel: Set the network bandwidth by each channel.

  All: Set the total network bandwidth consumption limit.



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.

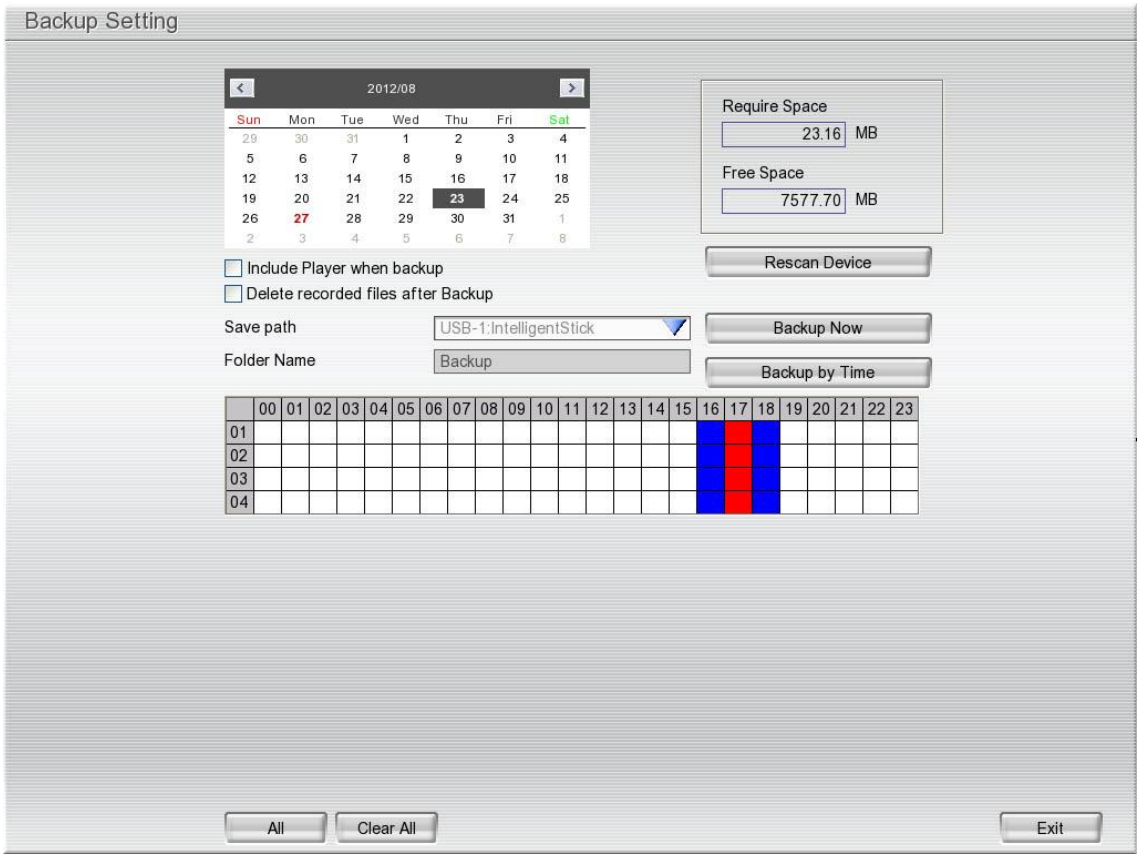


To Set the Schedule Setting:

1. Select the date in the calendar. Use ◂ and ▸ buttons to shift the calendar to the left or right.
2. 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 DVR 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.
3. Set the schedule as weekly or one time. Click ⊙ to make a selection.
4. 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**.
5. To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.6 Backup Setting

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 the file**

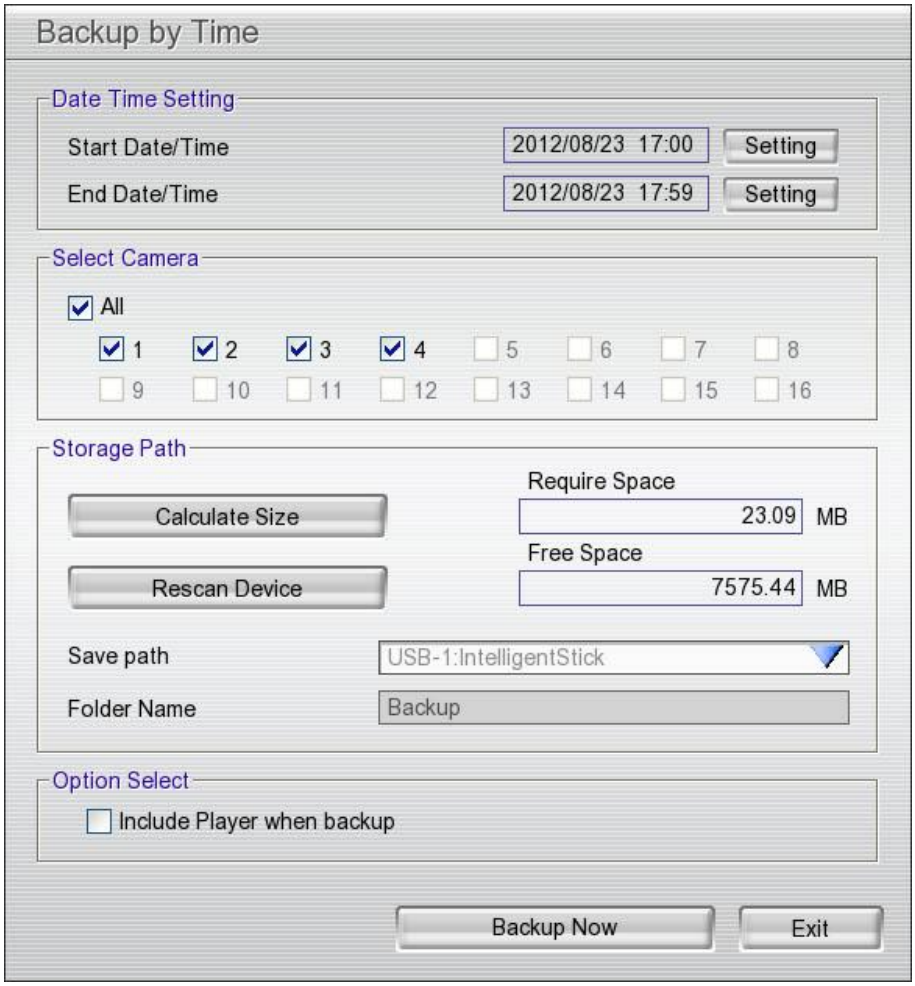
1. Select the date of the recorded file in the calendar you want to backup. Use ◄ and ► buttons to shift the calendar to the left or right.
2. In the table above, click on the blue block to select the recorded file or click camera (01~04) or time (00~23) to select the whole row or column. The blue block 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. DVR system will give **Folder Name** automatically.
7. Click **Backup Now** button to start archiving the selected file.

■ **Backup by Time**

User can setup specific backup time and camera.

1. Click **Backup by Time** button in Backup Setting window.
2. In Date Time Setting, click **Setting** of **Start Date/Time** and **End Date/Time** to select date and time that user wants to backup.

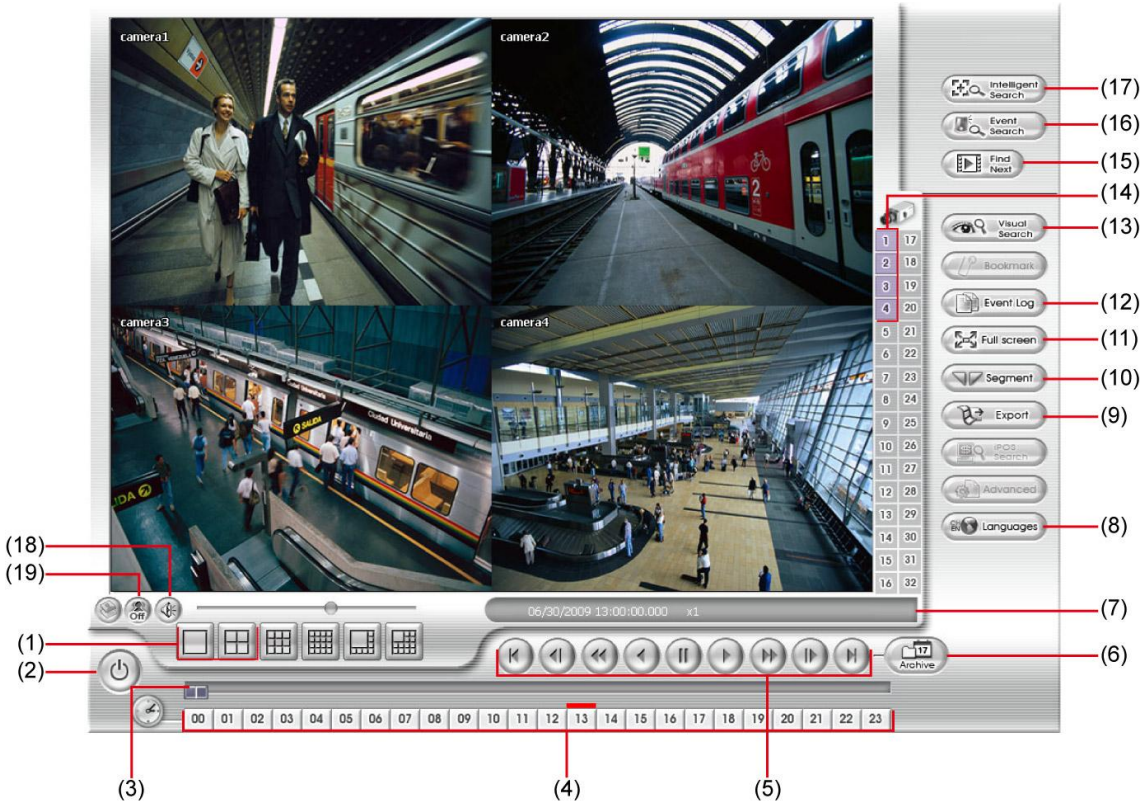
3. In Select Camera, select the channels or select All channels to backup.
4. If user wants to know the total backup file size, click **Calculate Size** button and the total of backup file size is displayed in **Require Space** and the available storage space is displayed in **Free Space**. Click **Rescan Device** to re-calculate the space of total backup file and storage space of storage device.
5. Select the storage path.
6. If user wants to include the Qplayer program in backup folder, mark the **Inculde Player when backup** check box. The Qplayer program will be in backup folder for playback using.
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.
	- If there are only 4 cameras, when user select the 8,9,13,and 16-spilt screen mode, only 4 channels have video display and rest of channels will be black screen with channel name display. - To zoom in an area on the screen, **Right** click and **Drag** 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. When in single screen playback mode, the colors in progress bar have different means. ■ Green color: a motion was detected and recorded ■ Blue color: is a general (always) recording file and no any event or motion happen during recording ■ Red color: the sensor was triggered while recording ■ Black color: no record file at the time period ■ Yellow color: the video loss happen while recording
(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. While the red bar indicates that you are currently viewing the recorded video file.

Name	Function
(5) Playback Control Buttons	**Begin:** Move at the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the speed of 1/2X, 1/4X, 1/8X, 1/16X, or 1/32X. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, 8x, 16x, or 32x. **Next:** Go to the next frame. **End:** Go to the end of the recorded video file.
(6) Archive	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. − **OPEN FILE:** user can open the recorded file from HDD − **Day Light Saving:** the playback calendar will show the available video records during day light saving time period.
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) 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	Export includes Snapshot, Print, and Output Video Clip function. ■ **Snapshot:** Capture and save the screen shot either in *.jpg format. ■ **Print:** Print the screen shot. ■ **Output Video Clip:** Save the segmented file in *.dvr, *.avi, or *.mpg format.
(11) Segment	Keep a portion of the recorded video (see also Chapter 3.7.2).
(12) Full screen	View in full screen mode. 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	When backup, the DVR 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 Chapter 3.6.3)
(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.

Name	Function
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss). (See also Chapter 3.6.4)
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 3.6.5).
(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 Cut and Save the 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.



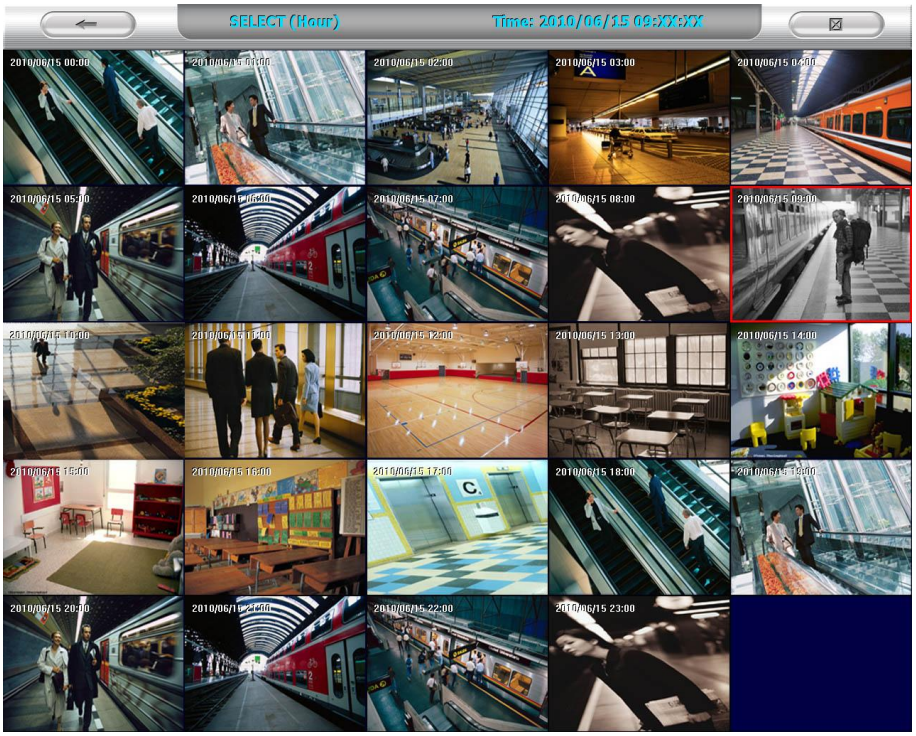
3. Click **Export** > **Output Video Clip** button to save the wanted portion.
4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

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** (

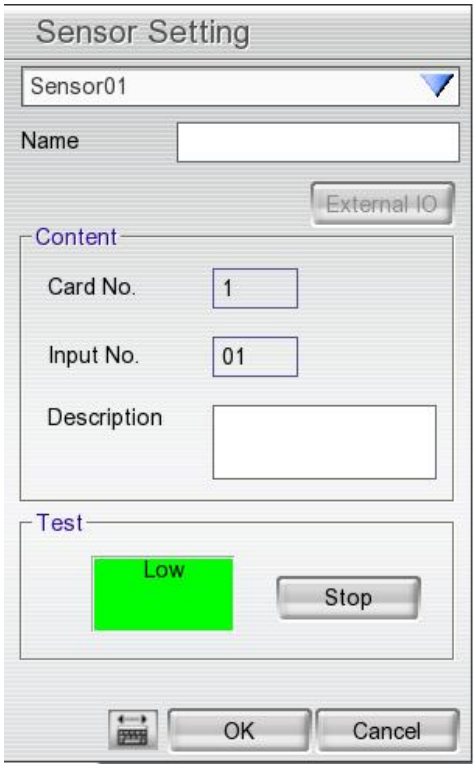
). You may also set to search and list all the result. Just check the **List** box. In the **Search Duration** section, set the **Begin Time** and **End Time**. Set the **Searching Interval** time that system won't list out the same events in a period of time that user has setup. Then, click **OK** to start searching.



3.7 Sensor Setting

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

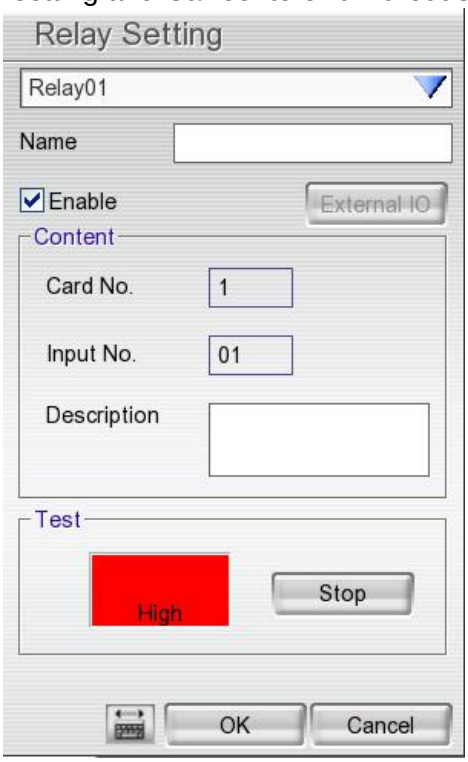
1. The system automatically detects the I/O device that has connected with DVR system and display on the drop-down list column. Click the drop-down list and select the sensor that user wants to configure.
2. Enter sensor name in **Name** column.
3. In the **Content** section, enter **Description** of 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.



3.8 Relay Setting

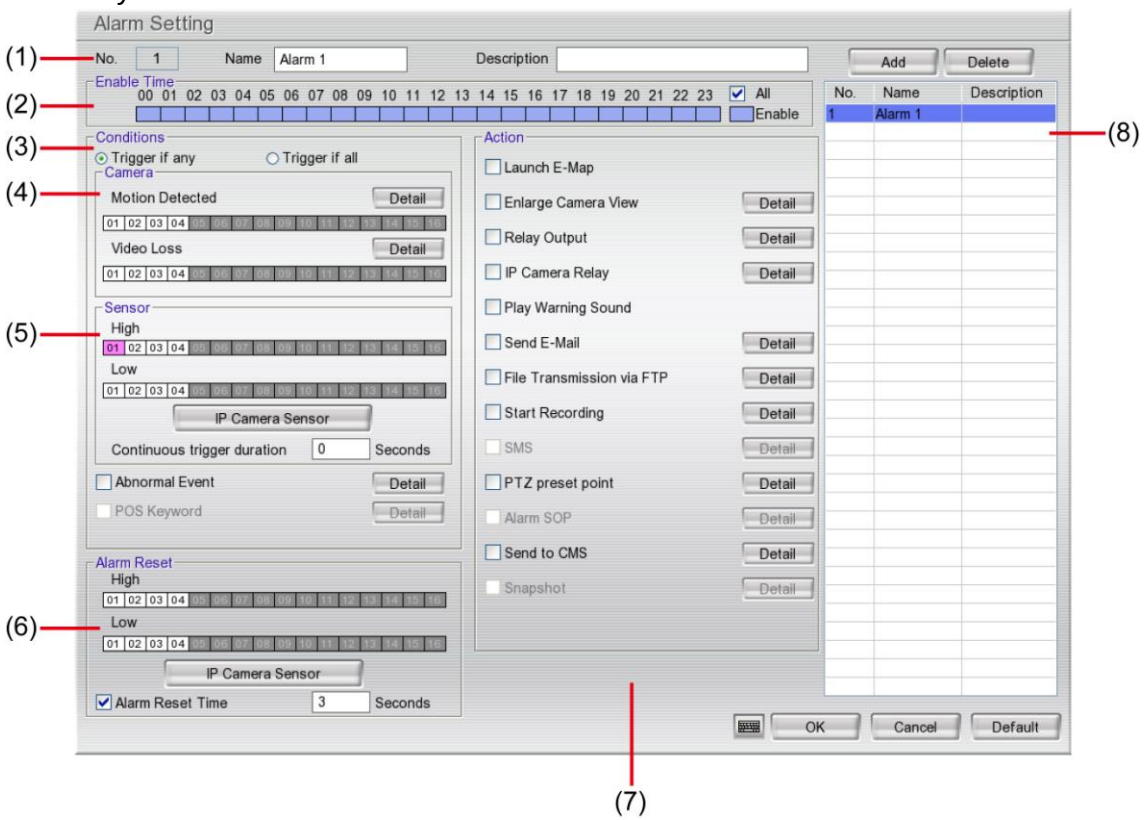
The I/O device must be installed to use this function.

1. The system automatically detects the I/O device that has connected with DVR 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.

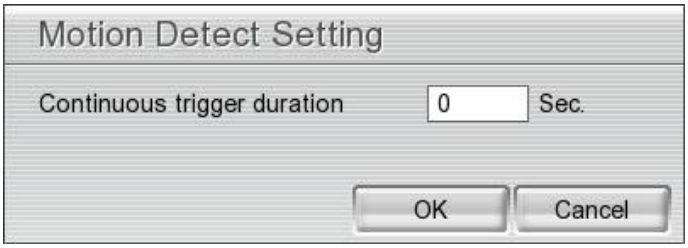


3.9 Alarm Setting

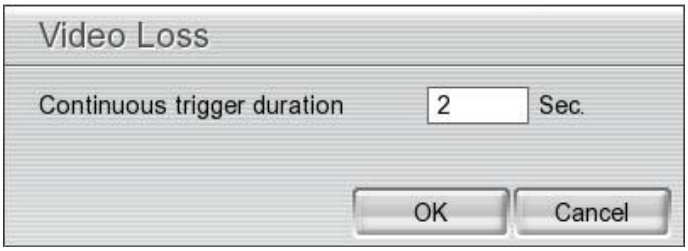
In the Alarm Setting dialog box, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **OK** to exit and save the setting, **Cancel** to exit without saving. Click **Default** will back to factory default value.



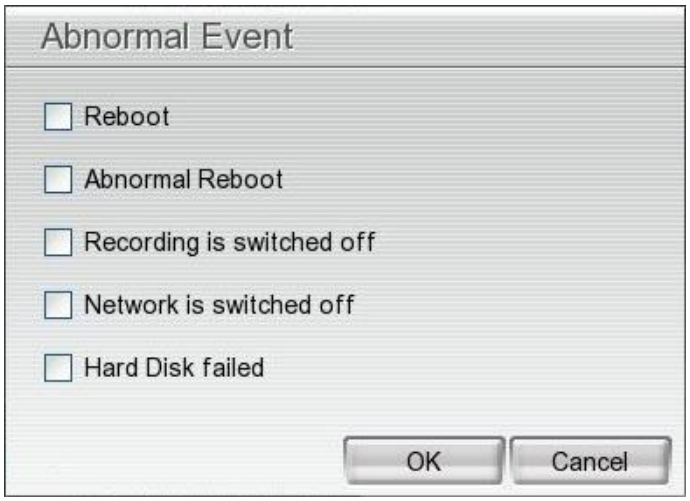
1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8) Alarm Setting List** if you want to modify the alarm setting.
2. In **(1) No./Name/Description** enters alarm name and description. Alarm **No.** will be created by DVR system.
3. In **(2) Enable Time**, the number from 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.
   - **Motion Detected:** select and click on the camera number (01 to 04) to set the condition for the system to alarm. Click the **Detail** button to setup the system to send out the alarm when motion is detected and last the time that user has entered in **Continuous trigger duration**.



- **Video Loss:** click the camera number (01 to 04) to set the alarm condition when video is lost. Click the **Detail** button to setup the system to send out the alarm when video is lost and status last the time that user has entered in **Continuous trigger duration**.



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 DVR system reboot without abnormal condition, the system will send out the alarm message.
     - **Abnormal Reboot:** when the DVR 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 DVR 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.
   - **IP Camera Sensor:** To adjust sensor high/low that is connected on the IP camera.
   - **Alarm Reset Time:** Set a time for the alarm auto reset. When an alarm happen such as motion detected and video loss, the alarm will reset at the alarm reset time.
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.

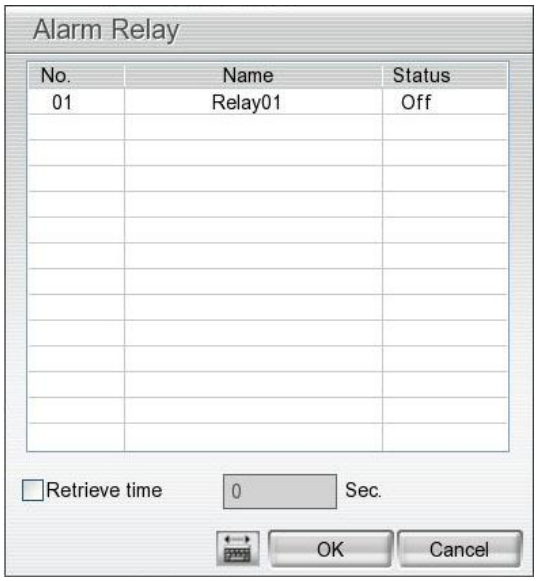
  b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0~ 600 seconds.



- **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.



- **IP Camera Relay**

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

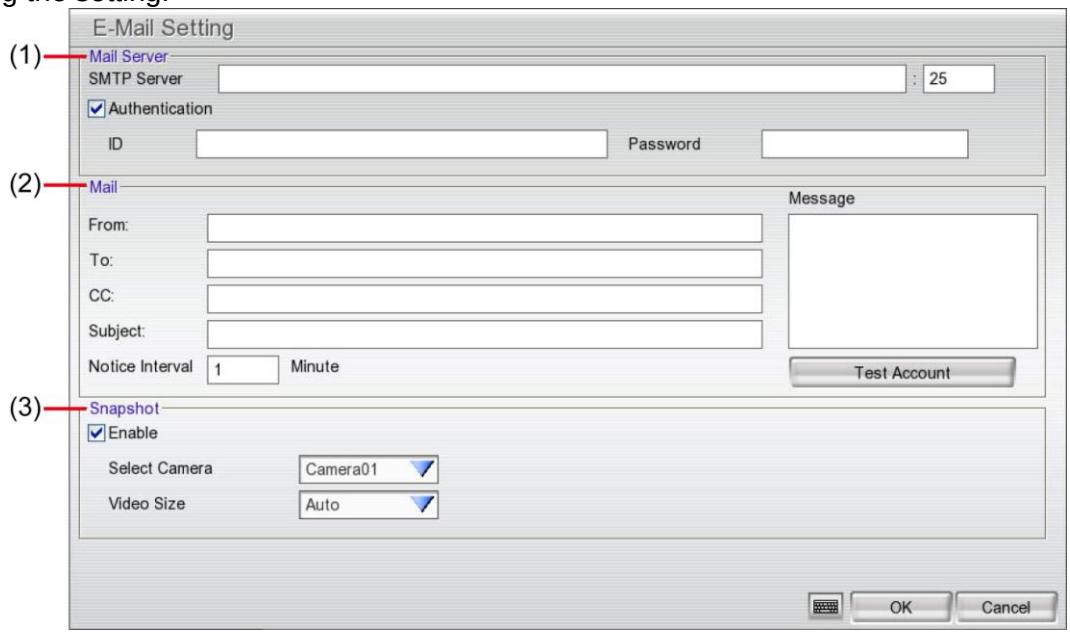
- **Play Warning Sound**

  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

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.

Notice Interval: Set a time gap for mail re-sending when mail has failed to send.

(3) Snapshot

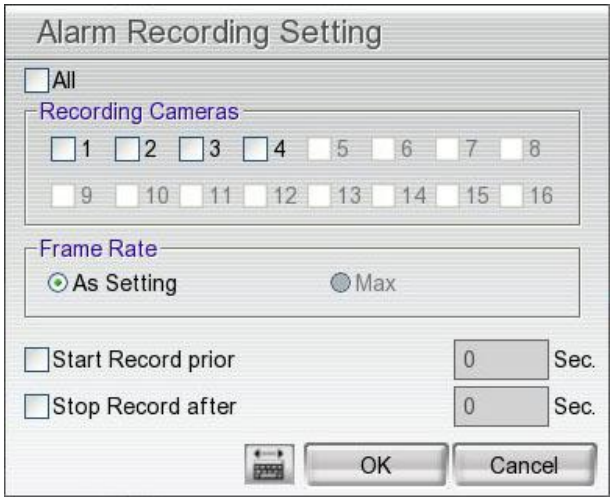
When send out the email, the DVR system will snapshot image of the selected camera channel.

- ✓ **Select Camera:** Select the channel that will be snapshot when alarm email is sending out.
- ✓ **Video Size:** Select the size of vide that will be taken when snapshot. Auto means default size that chosen by DVR system.

- **Start Recording**

  Record the video from the selected camera.

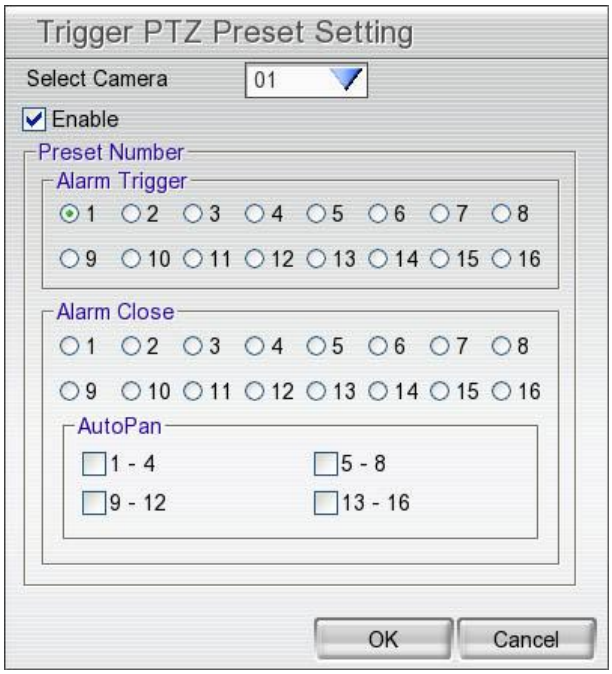
  1. Next to the Start Recording check box, click **Detail**.
  2. In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable **All** to select all cameras.
  3. In the Frame Rate selection, select **As Setting** to record the number of frames based on the Recording 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.

- **PTZ preset point**

- Position the PTZ camera based on the preset point setting. Beside the PTZ preset point check box, click **Detail**. In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number then select the **Enable** check box. Select the position of the PTZ camera when the alarm is activated and ended. For the PTZ camera end point, user can also select on preset position or **Auto Pan** between preset position groups.



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

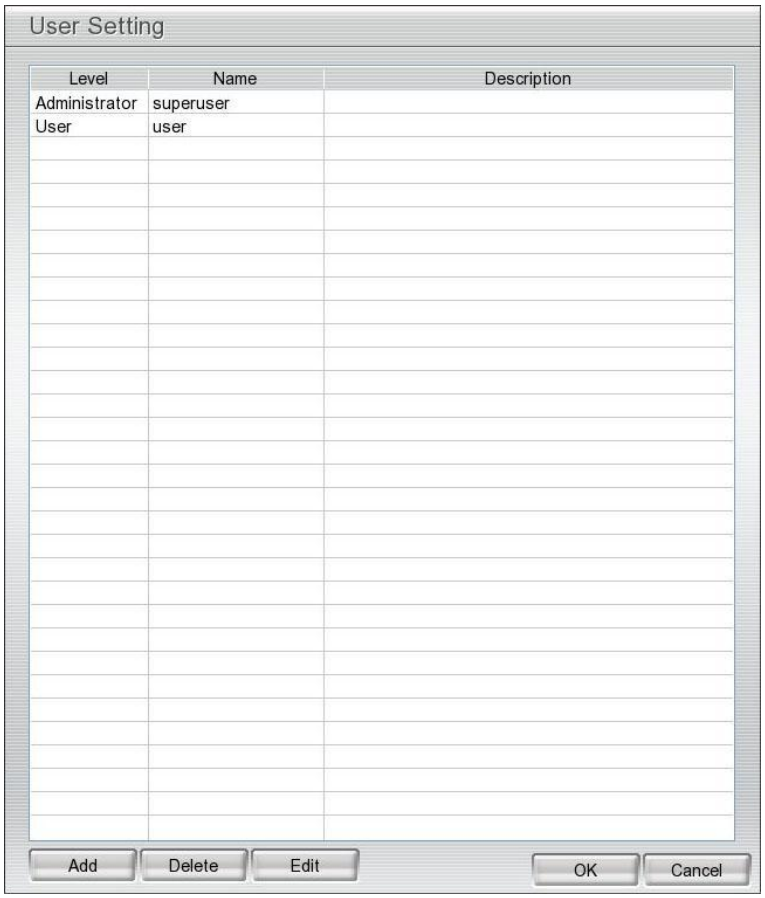
  Enable/disable the selected camera to send video to CMS when the alarm is activated.

  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.



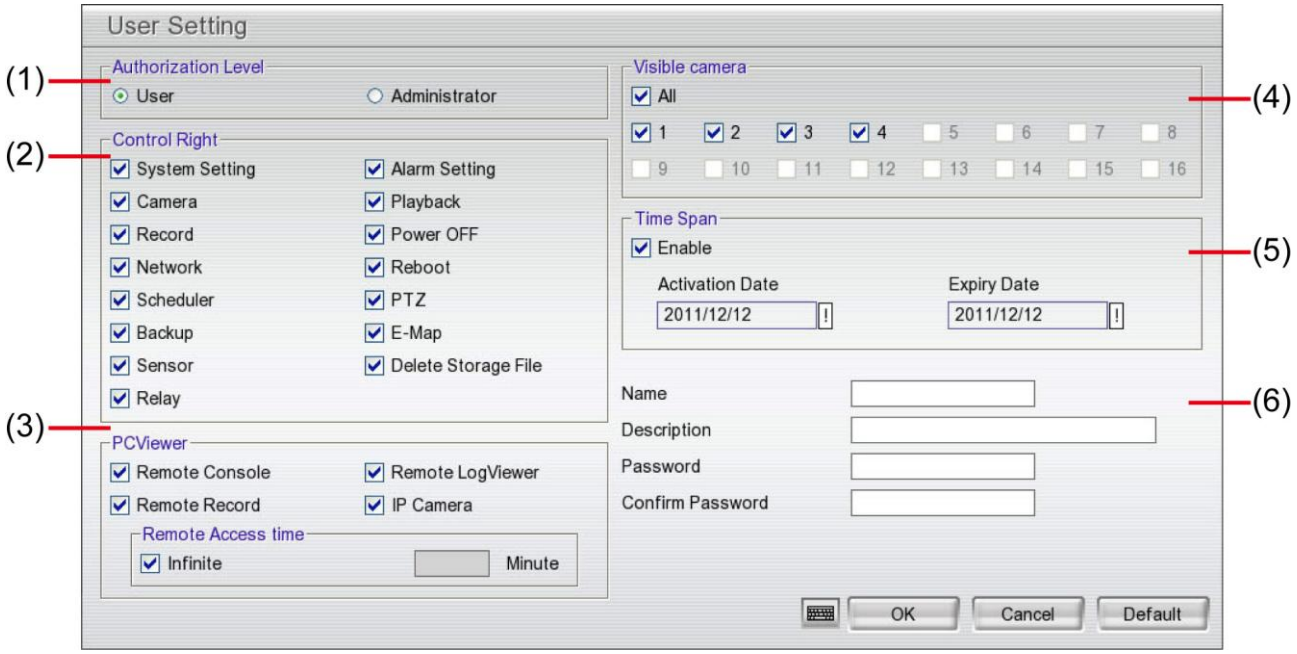
3.10 User Setup

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.



To Add a User Account:

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



(1) Authorization level

Select the status of the user.

(2) Control Right

Enable the items that would allow the user to access.

(3) PCViewer

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

- **Remote Console**
  Allow the user to remote modify DVR 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 PCViewer.
- **Remote Access Time**
  Enable **Infinite** check box to access DVR 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 DVR 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 Remote Programs

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

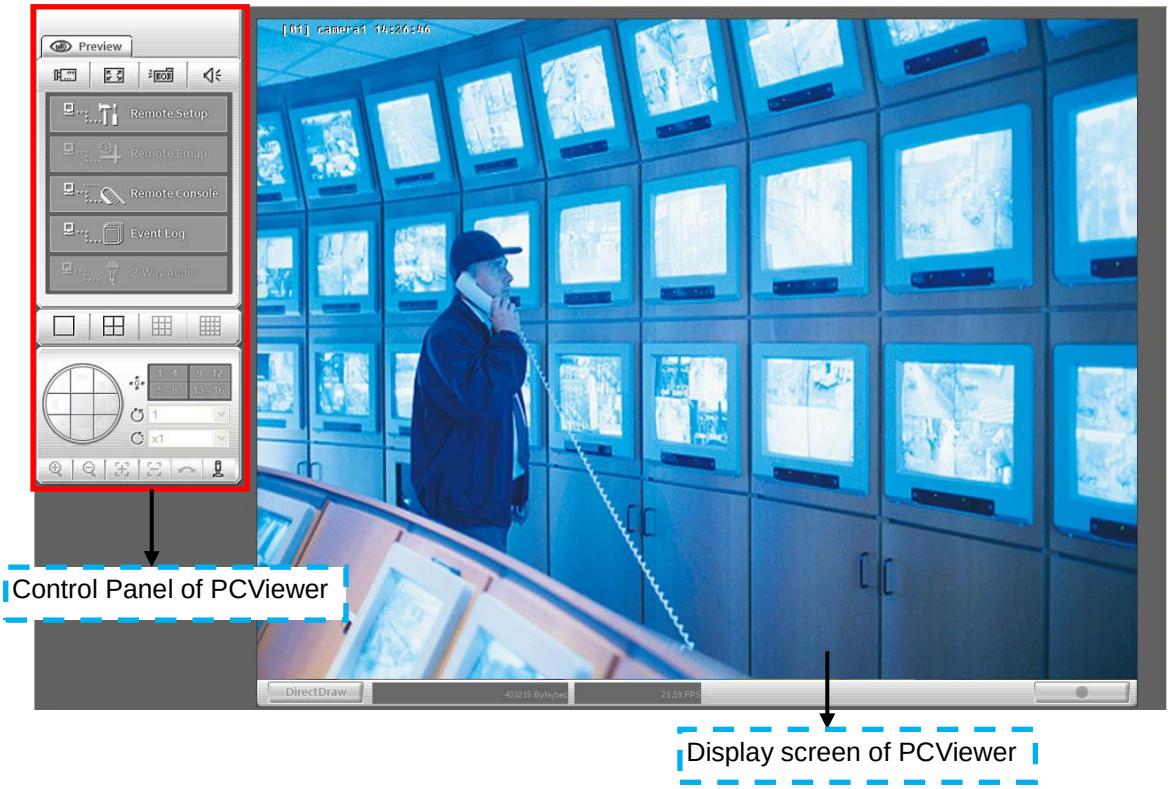
Accessing this feature for the first time you will be prompted by your browser to install PCViewX.cab, allow the installation and you should be able to connect and login afterwards.

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 DVR 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 DVR 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 DVR 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.



4.1 Familiarizing the Buttons in PCViewer

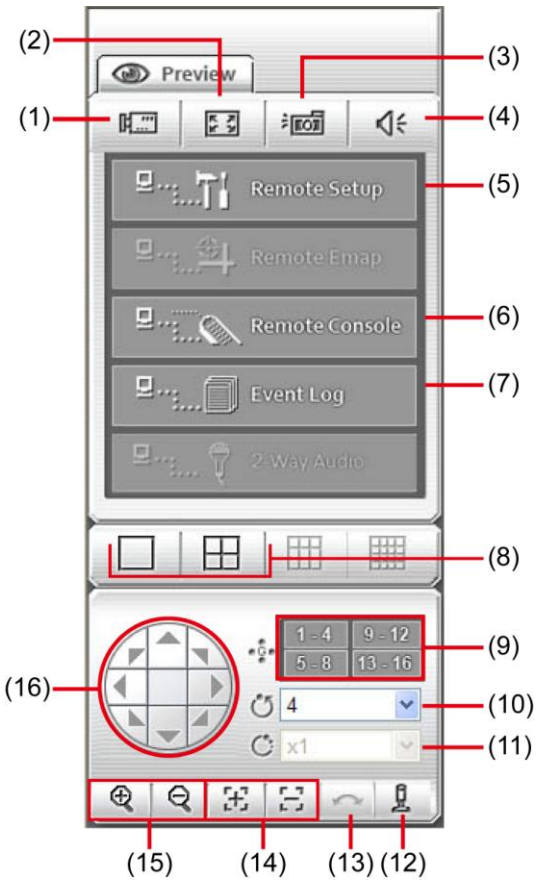
4.1.1 PCViewer Screen

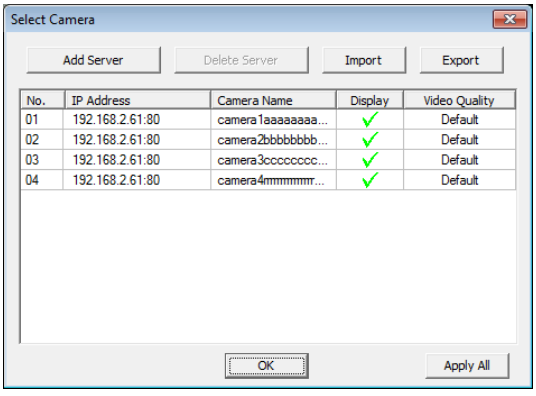
Right-clicking on the PCViewer video screen, enables you to start video recording, change video quality, switch camera and enable/disable DirectDraw.



Name	Function
(1) Received file size	Indicate the size of the data being sent per second.
(2) 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 **Record** button.

4.1.2 PCViewer Control Panel

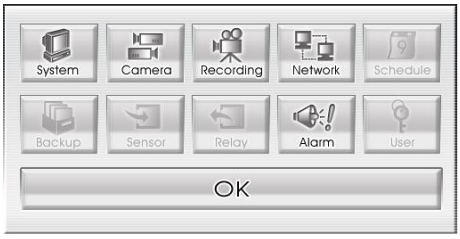


Name	Function
(1) Select cameras to view	Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera. Click **Add Server** and select the server type between DVR and IP Cam to add. Click **Delete Server** to delete the selected item. Click **Import** to load the previous saved list. Click **Export** to save the list. Click **Apply All** to change all the camera video quality based on the selected setting. Click **OK** to exit. 
(2) 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.
(3) Snapshot	Capture and save the screen shot in *.bmp format.
(4) Audio	Enable/disable remote sound.
(5) Remote setup	Change the DVR server settings (see also Chapter 6.1.3)
(6) Remote Console	Initiate Remote Console. It allows you to control DVR server (see also Chapter 6.2).

Name	Function
(7) Event Log Viewer	Display the Event logs, Operation logs, System logs, and Network logs.
(8) Split screen view	Select from four different split screen types to view all the cameras.
(9) Auto Pan Group	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(10) Camera preset position number	Move the PTZ camera to the preset point.
(11) Direction buttons' moving speed	Adjust the moving speed of the PTZ camera lens. This speed will apply to the **(18) Direction buttons**' moving speed only.
(12) Select PTZ	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. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.
(13) Atuo Pan	Enable the PTZ cameras automatically based on the selected camera group preset position number.
(14) Zoom +/-	Zoom the image in or out.
(15) Focus +/-	Adjust the focus manually to produce clear image.
(16) Direction Buttons	Adjust and position the focal point of the PTZ camera. The supported direction buttons are depended on the PTZ camera has supported.

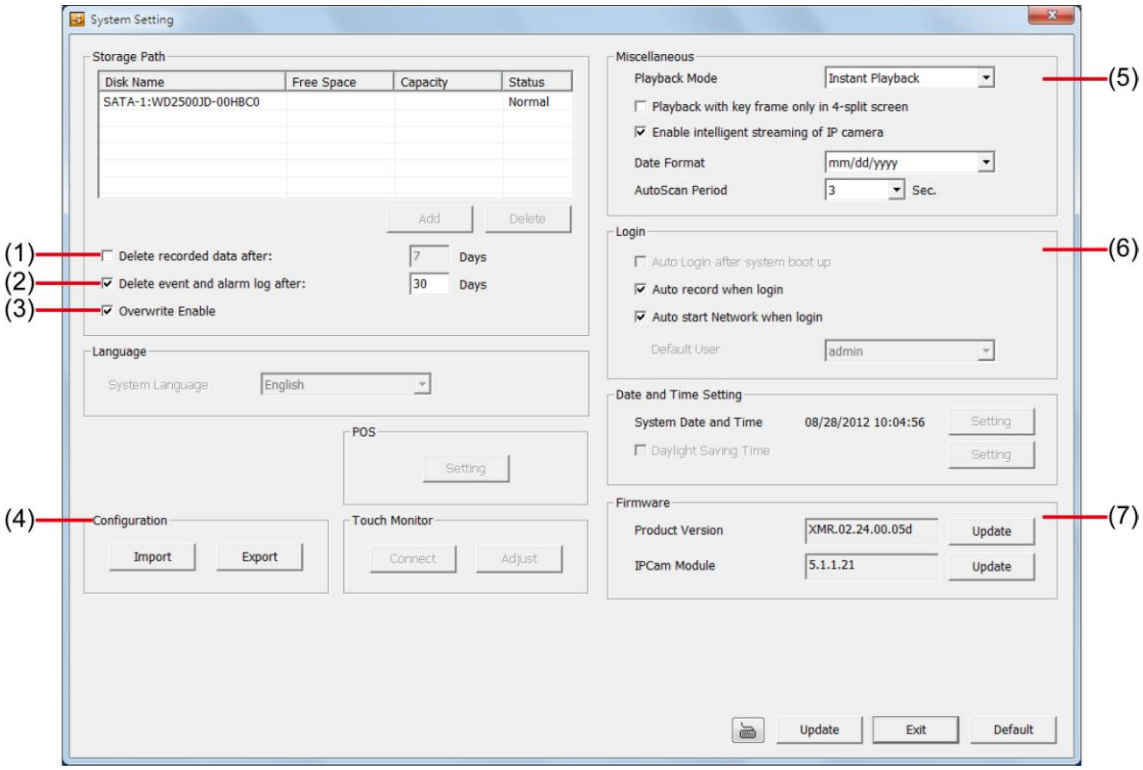
4.1.3 To Setup Remote System Setting

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



4.1.3.1 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) 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**.

(5) 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.

(6) 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 DVR is executed.

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

  Automatically connect to network when the DVR is executed.

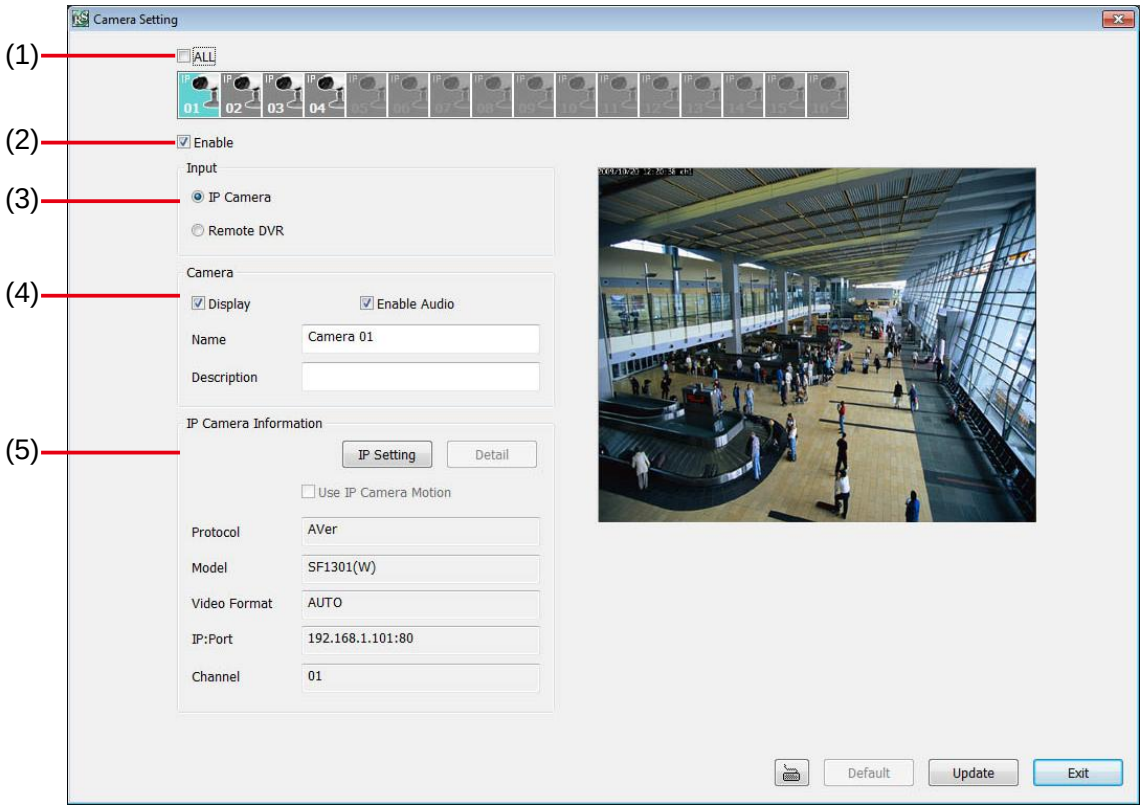
(7) Firmware

- **Product Version:** Upgrading the firmware of DVR system and IP camera patch file. Please download the firmware file from web site.
  1. Save the firmware on root directory of USB pen drive. Then, plug USB pen drive to DVR server.
  2. Click **Update** button, a **Select File** window will show up.
  3. Click ... button and select where the firmware is located.
  4. Click **Upgrade** to start updating.
- **IPCam Module:** Update IP camera patch.
  1. Save the firmware on root directory of USB pen drive. And then, plug USB pen drive to DVR server.
  2. Click **Update** button, a **Select File** window will show up.
  3. Click ... button and select where the IP camera patch file is located.
  4. Click **Upgrade** to start updating.

4.1.3.2 Camera Setting

Select the camera from remote DVR 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

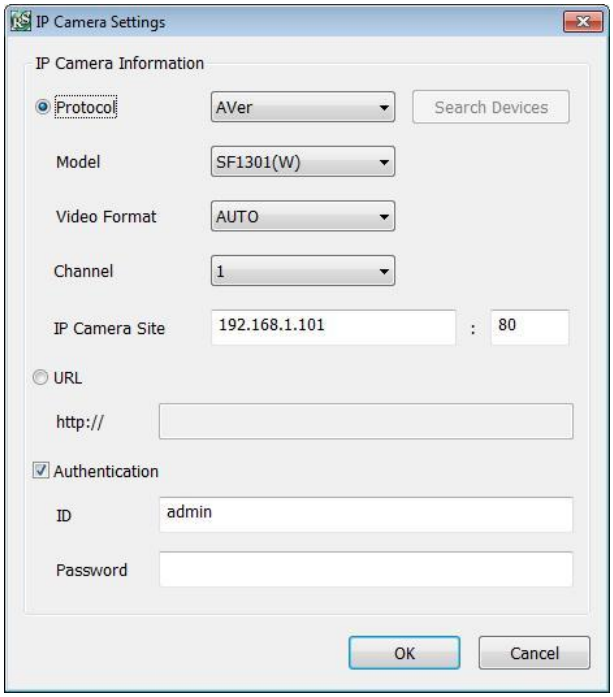
Select the type of camera as IP camera. To modify camera of remote DVR, see Remote DVR Camera Setting.

(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

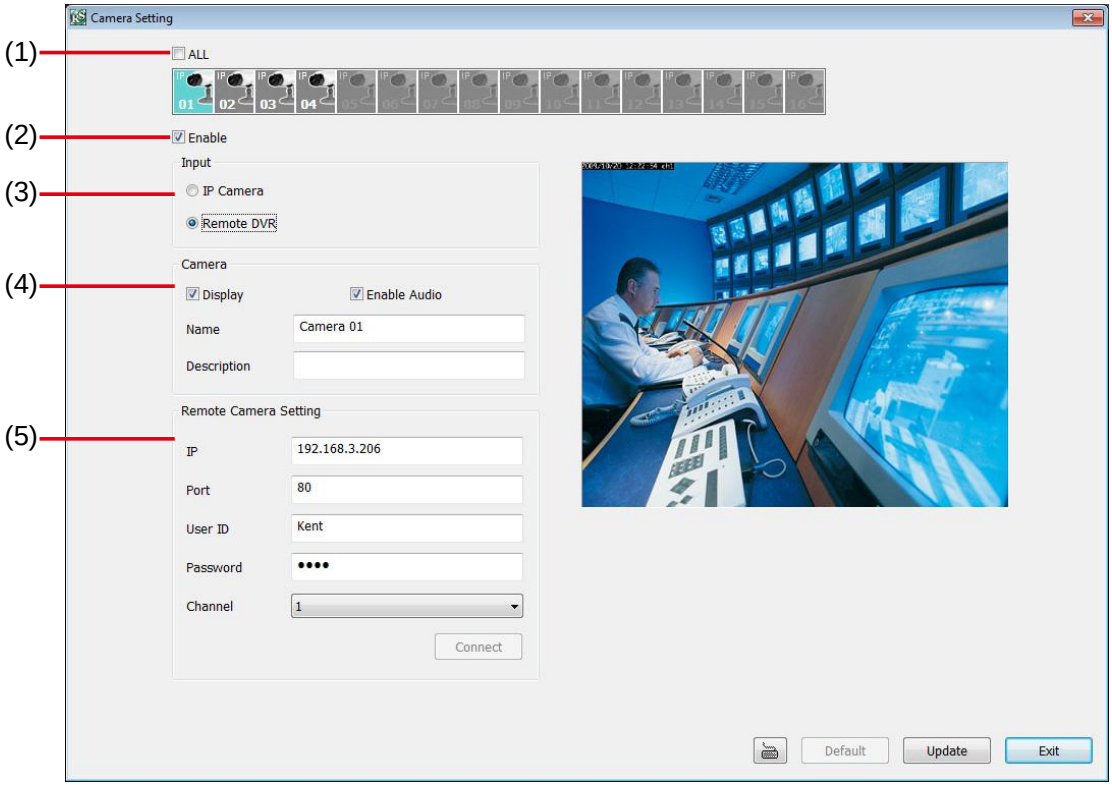
Click **IP Setting** to setup the parameters of the IP camera.



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 DVR 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

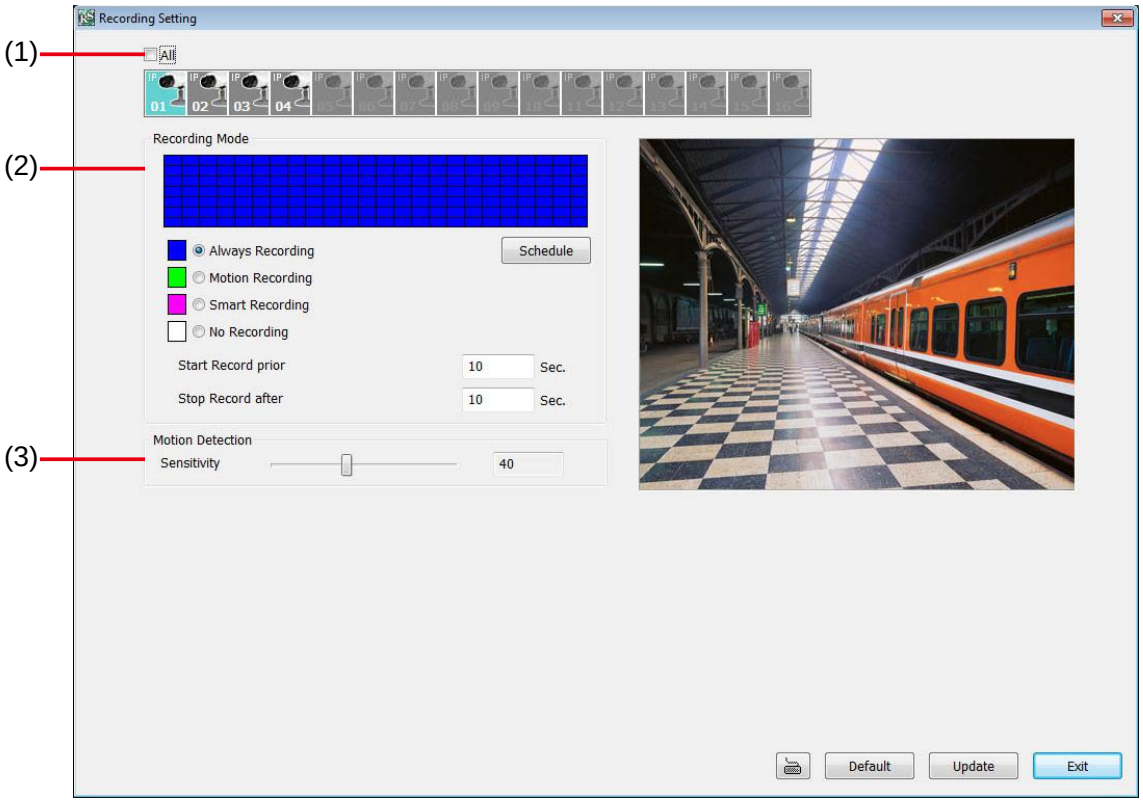
Select the camera type as **Remote DVR**. For IP camera setting, see IP Camera Setting.

(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

4.1.3.3 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.

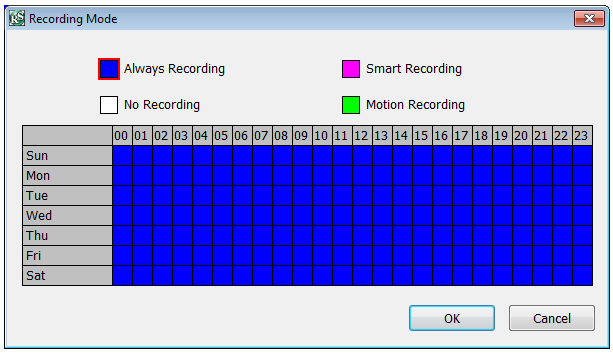


(1) Camera Icons

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.

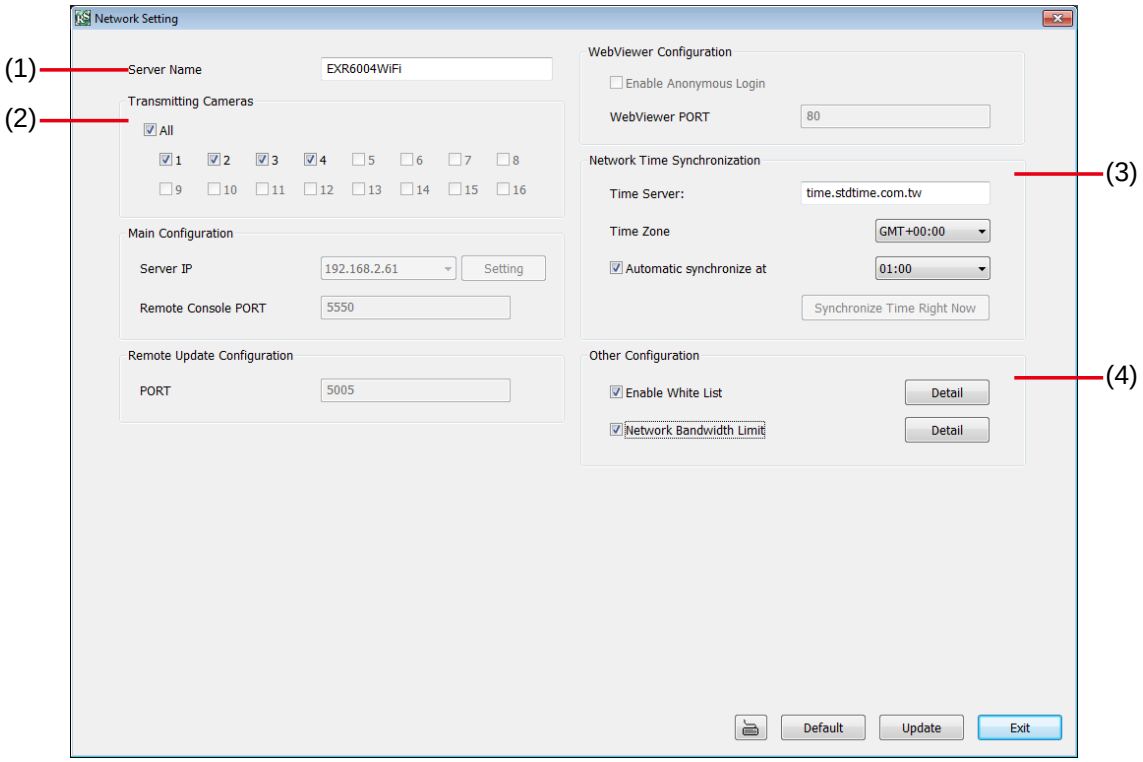
(3) Motion Detection

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.

4.1.3.4 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 DVR server, please see Appendix A.

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



(1) Server Name

Assign a name for the DVR 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 PCViewer, Remote Console, PDA Viewer and JAVAViewer (still image). To select all the cameras, enable the **ALL** check box.

(3) Network Time Synchronization

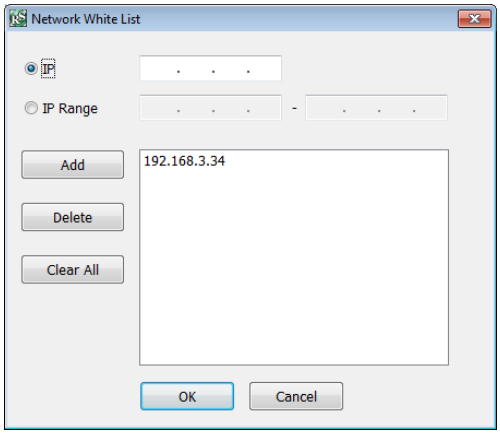
Adjust the DVR system time same as network time server. Fill in the **Time Server** IP address or domain name. Select the **Time Zone** that DVR is located. And then, mark the **Automatic Synchronize** time to set automatic synchronize time on a daily basis.

(4) Other Configuration

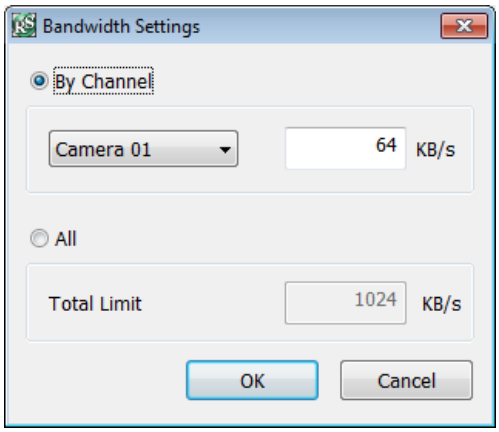
- **Enable White List**

  An access permit list for the remote accessing of DVR 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 DVR server has been excluded in white list, the remote DVR 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 DVR server.
- Without any IP address/IP range is assigned in White List table, none of IP address/IP range is allowed to access DVR when White List function is enabled.

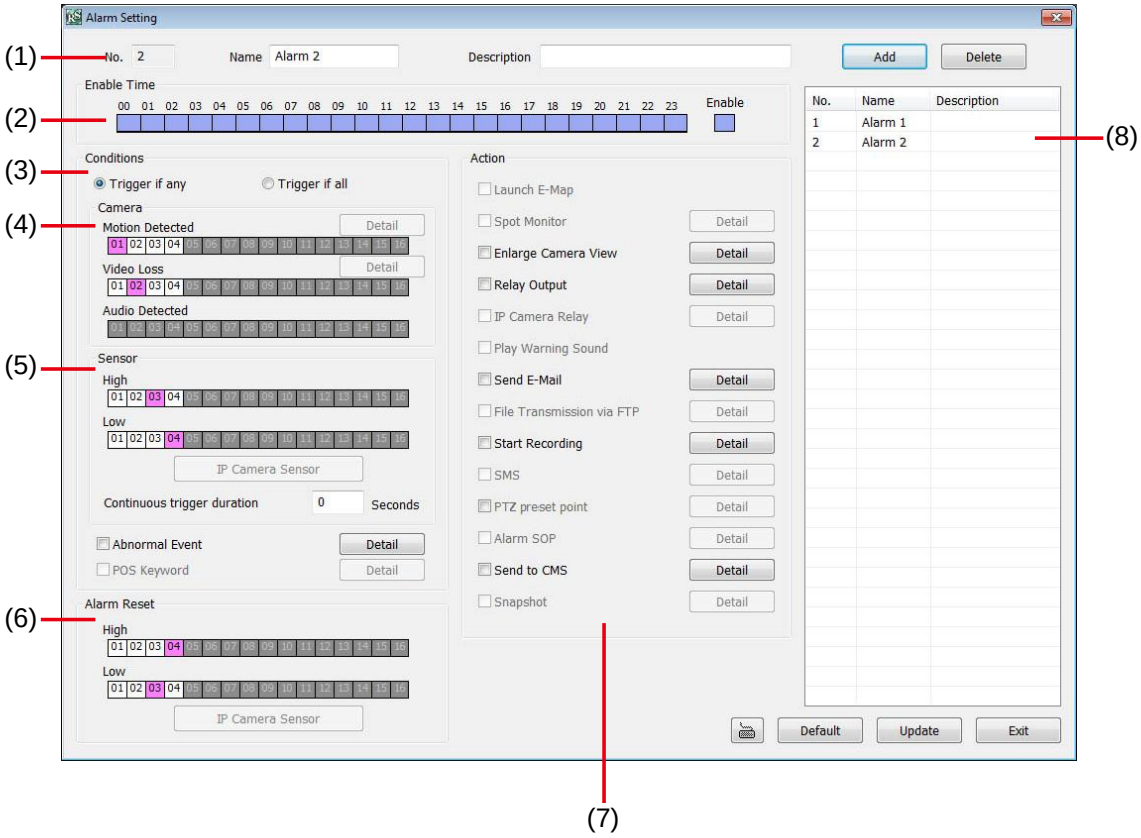


- **Network Bandwidth Limit**
  By Channel: Set the network bandwidth by each channel.
  All: Set the total network bandwidth consumption limit.

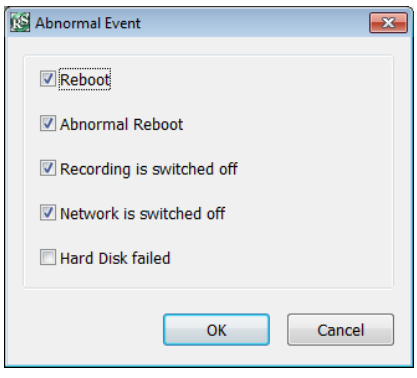


4.1.3.5 Alarm Setting

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 DVR 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 DVR system reboot without abnormal condition, the system will send out the alarm message.
- **Abnormal Reboot:** when the DVR 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 DVR 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.

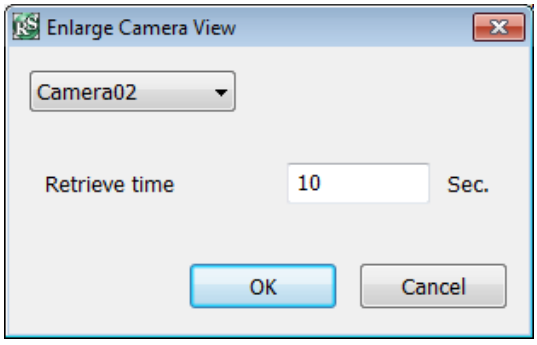
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.

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.

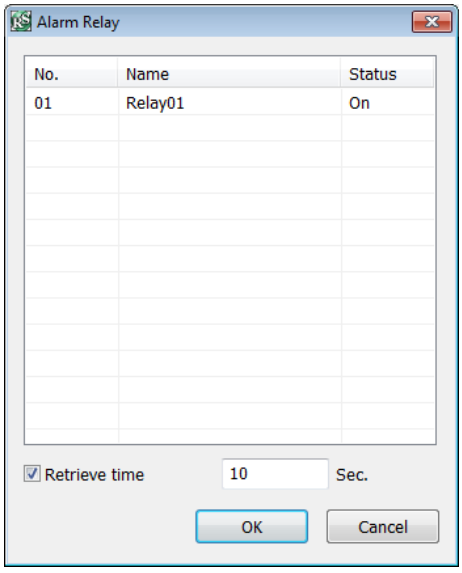
  a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
  b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0~ 600 seconds.



- **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.

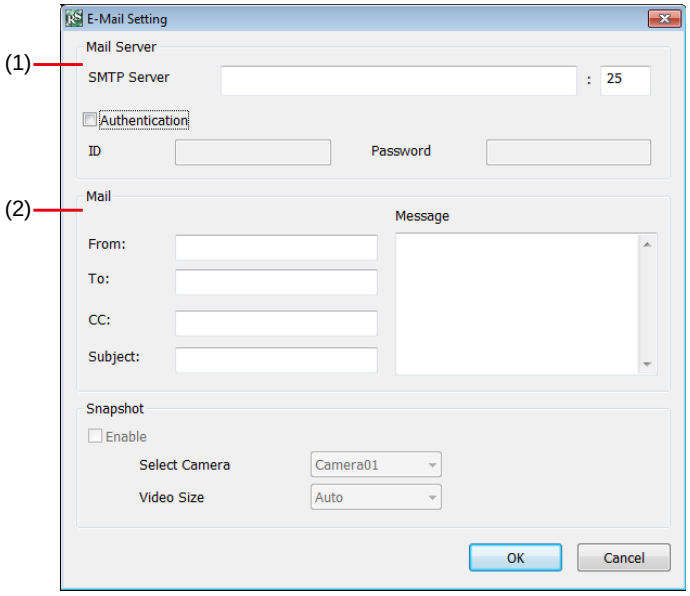
  1. Next to the Relay Output check box, click **Detail**.
  2. In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
  3. In the Retrieve time check box, you may enable/disable to extend the relay 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.



- **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.

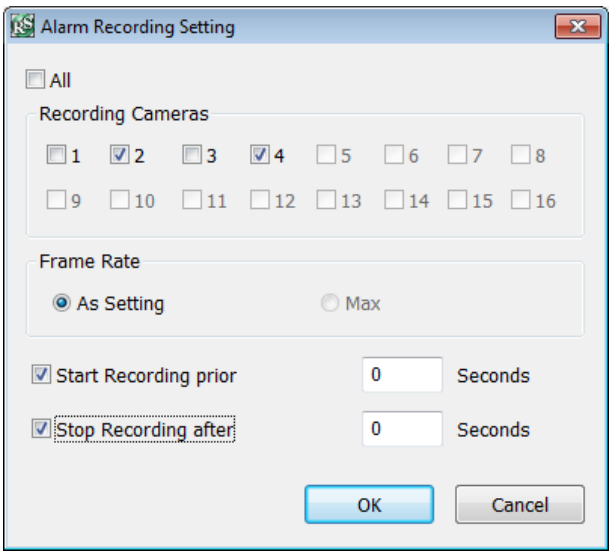
To and CC: Enter the recipient email address and separate it with comma or a semicolon (;).

Subject: Enter the message title.

Message: Type the message.

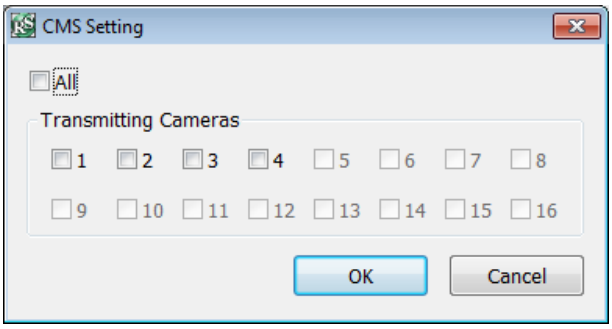
- **Start Recording**

Record the video from the selected camera.

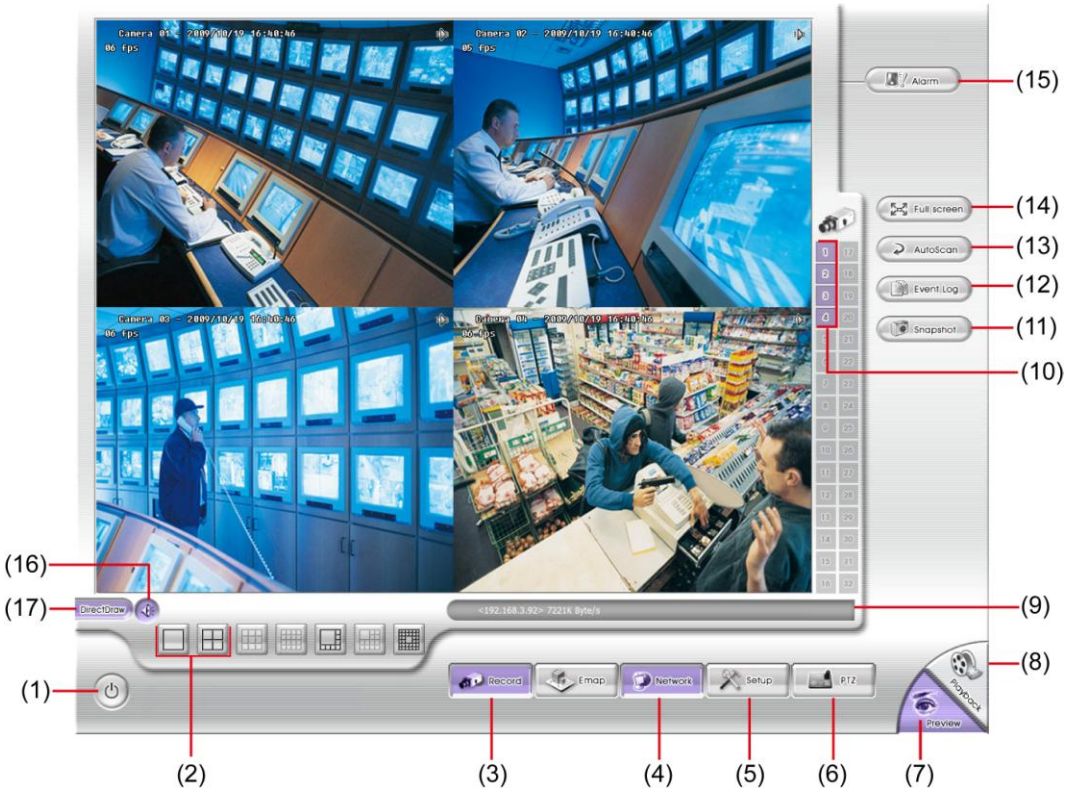


1. Next to the Start Recording check box, click **Detail**.
2. In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable **All** to select all cameras.
3. In the Frame Rate selection, select **As Setting** to record the number of frames based on the Recording 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.

- **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.



4.2 Familiarizing the Buttons in Remote Console

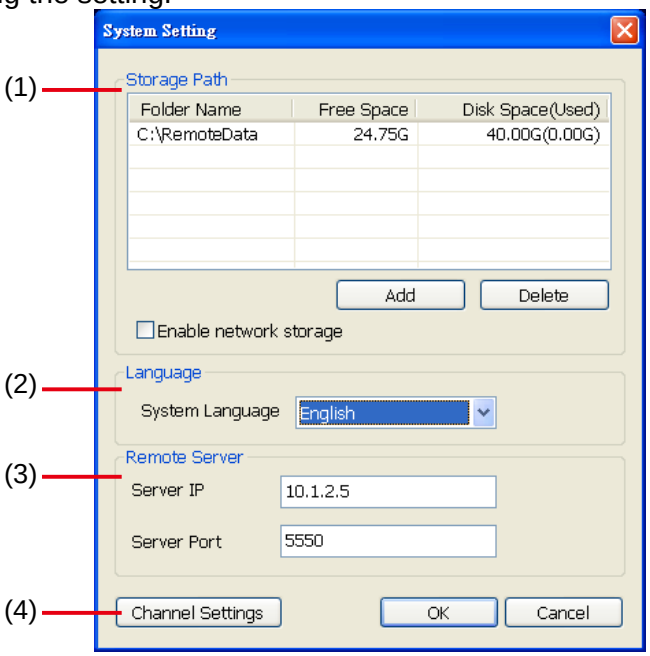


Name	Function
(1) Exit	Close the Remote Console.
(2) Split Screen Mode	Select from 1 or 4-split screen type to playback the recorded video file.
(3) Record	Start/stop video recording.
(4) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.
(5) Setup	Configure the Remote Console setting(see also Chapter 6.2.1).
(6) PTZ	Access PTZ control panel(see also Chapter 6.2.2).
(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 Chapter 6.3)
(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 **ESC** 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.

4.2.1 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 DVR 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

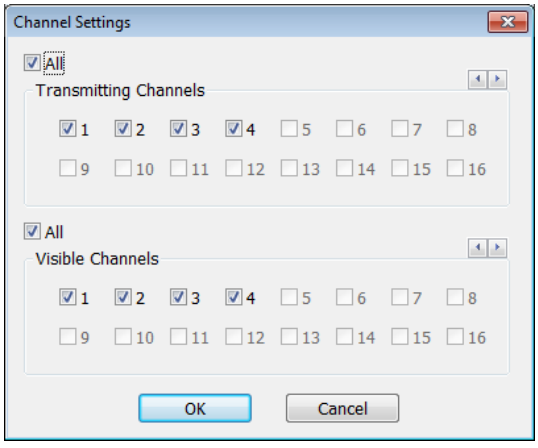
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

(3) Remote Server

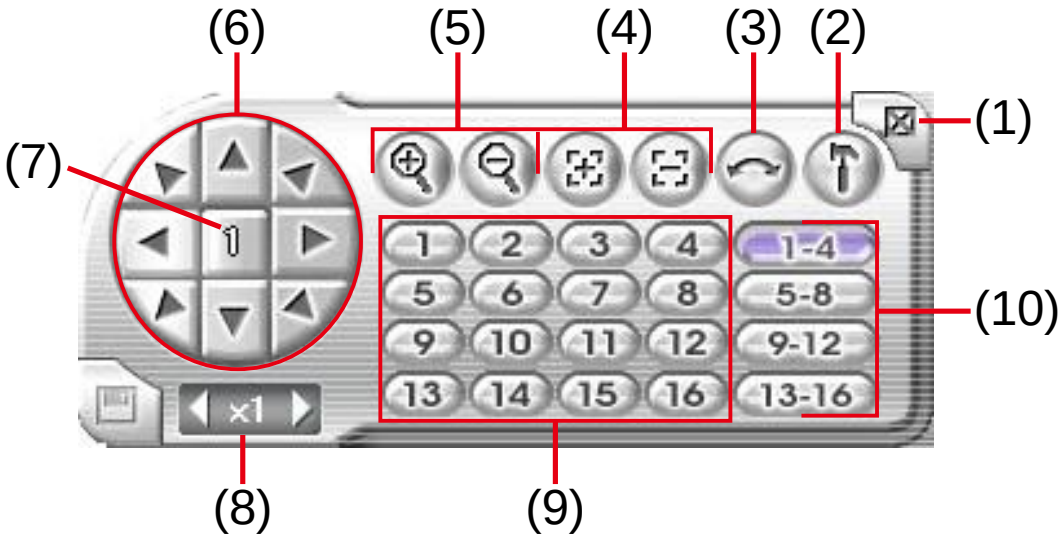
Enter the DVR Server IP and Server Port number.

(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.



4.2.2 Familiarizing the Buttons in PTZ Camera Controller



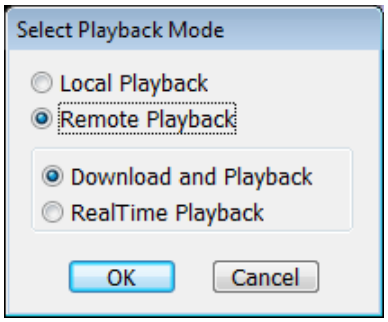
Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Select PTZ camera to operate.
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the image.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

4.3 Using the Remote Playback

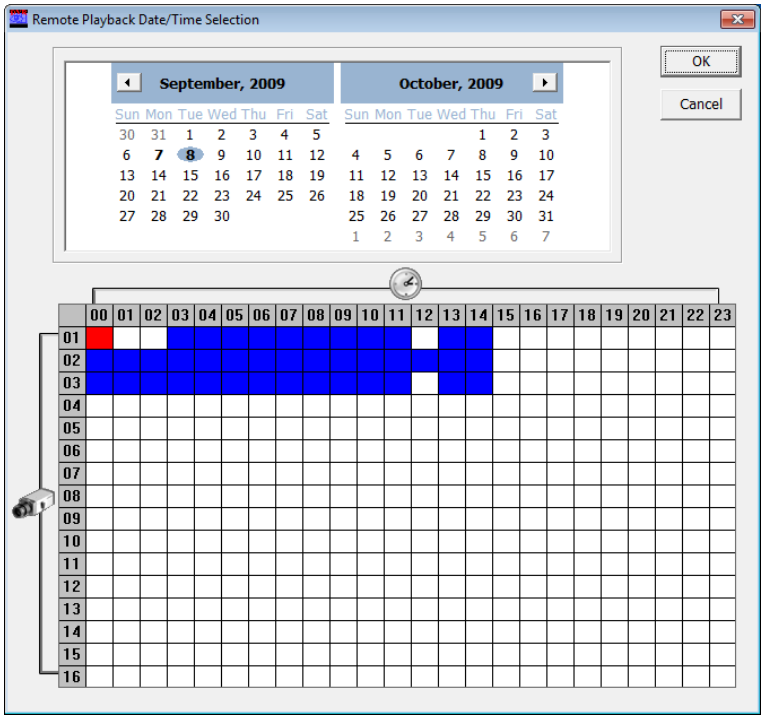
To use this feature, first you need to select the source of the file. In the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the DVR server. When you choose Remote Playback, 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.

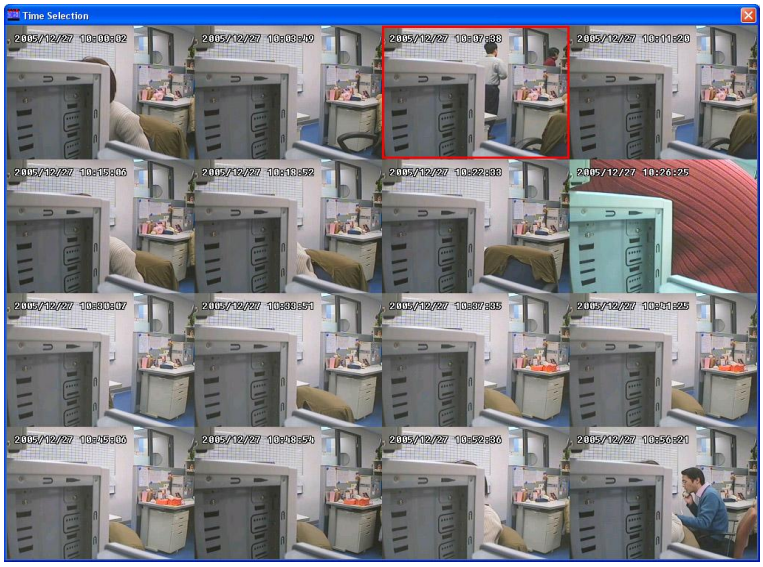


In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera number.

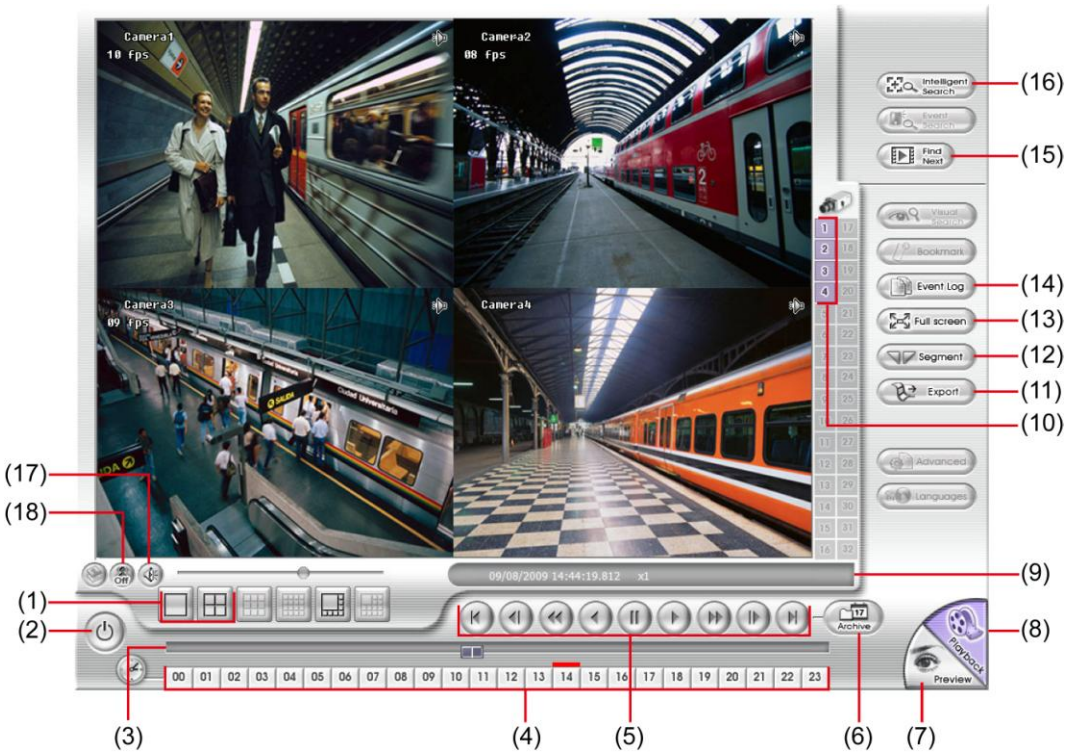


To Make a Selection:

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 6.3.3).

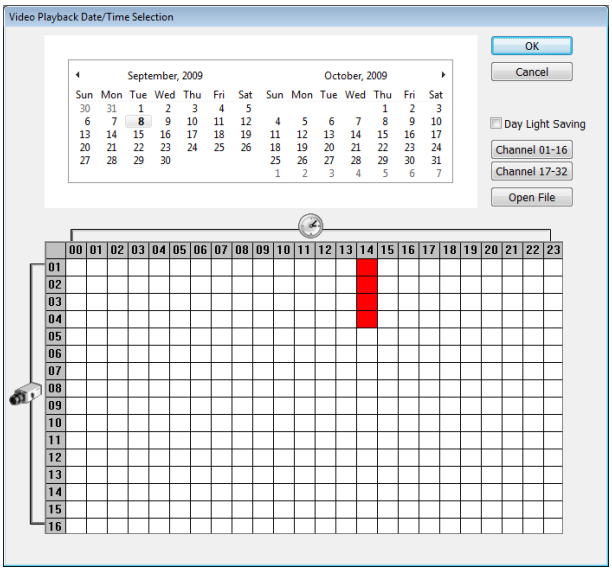


4.3.1 Familiarizing the Buttons in Local Playback



Name	Function
(1) Split Screen Mode	Select from 1 or 4-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	From left to right order: **Begin:** Move at the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x. **Next:** Go to the next frame. **End:** Go to the end of the recorded video file.
(6) Archive	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. – **OPEN FILE:** Click to open the recorded file from certain location. – **Channel 01~ 16** & **Channel 17 ~ 32:** Click to switch to different channel group of playback calendar if the DVR supports more than 16 channels. – Mark **Day Light Saving**, the playback calendar will show the available playback records during day light saving period. 
(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	Export includes Snapshot, Print, and Output Video Clip function. ■ **Snapshot:** Capture and save the screen shot either in *.jpg format. ■ **Print:** Print the screen shot. ■ **Output Video Clip:** Save the segmented file in *.dvr, *.avi, *.mpg format (see also Chapter 6.3.1.1).

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.

Name	Function
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 6.3.1.1).
(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 Chapter 3.6.5).
(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.

4.3.1.1 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.

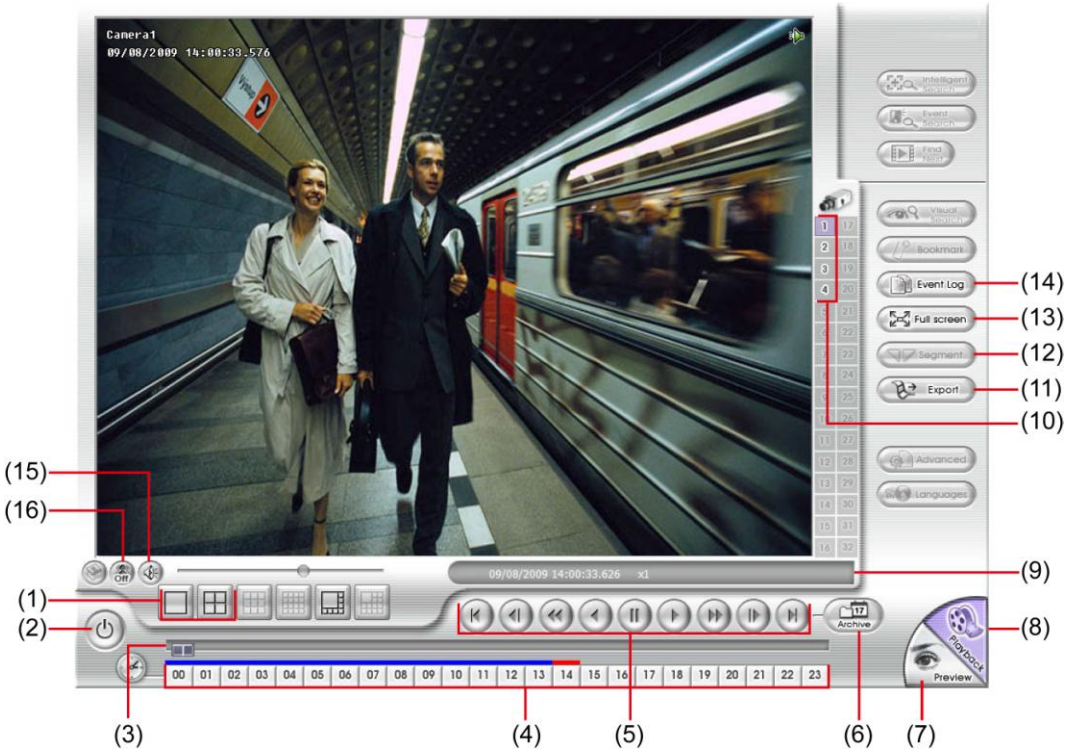


2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click Segment to set the end mark. To cancel segmentation or set the segment marks from the start, click Segment button again.



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.

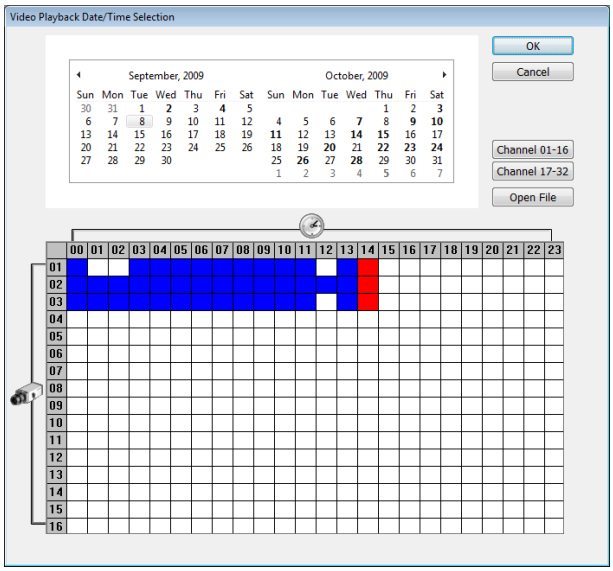
4.3.2 Familiarizing the Buttons in RealTime Playback



Name	Function
(1) Split Screen Mode	Select 1 or 4-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.

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: **Begin:** Move at the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x. **Next:** Go to the next frame. **End:** Go to the end of the recorded video file.

Name	Function
(6) Archive	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. − **OPEN FILE:** Click to open the recorded file from certain location. − **Channel 01~ 16** & **Channel 17 ~ 32:** Click to switch to different channel group of playback calendar if the DVR supports more than 16 channels. − Mark **Day Light Saving**, the playback calendar will show the available playback records during day light saving period. 

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	**Snapshot:** Capture and save the screen shot either in *.jpg or *.bmp format.
(12) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or **ESC** on the keyboard. 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
(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.

4.3.3 Familiarizing 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	**Begin:** Move at the beginning of the recorded video file. **Previous:** Go back to the previous frame. **Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x. **Rewind:** Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file. **Play:** Play the recorded video file. **Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x. **Next:** Go to the next frame. **End:** 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. ■ **Snapshot:** Capture and save the screen shot either in *.jpg or *.bmp format. ■ **Print:** Print the screen shot. ■ **Output Video Clip:** Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 6.3.1.1).
(7) Segment	Keep a portion of the recorded video you want (see also Chapter 6.3.1.1).
(8) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or **ESC** on the keyboard. 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.
(9) Event Log	Show the record of activities that take place in the system
(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 5 Using Mobile Device to Access DVR Server

5.1 Using PDAViewer to Access DVR Server

Users can also use a PDA to access the DVR 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.

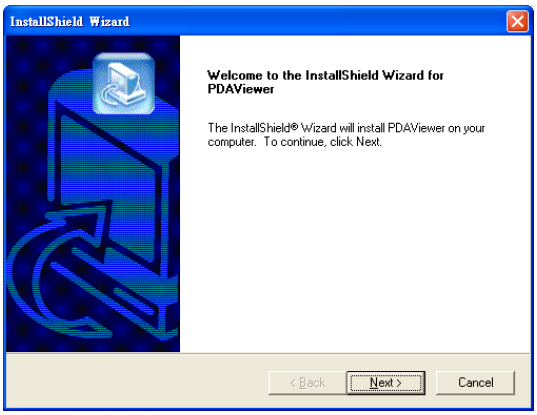
OS: MS Windows CE 4.0, PocketPC 2002/2003, Mobile 5 PDA version
CPU: ARM architecture

5.1.1 To install PDAViewer thru ActiveSync

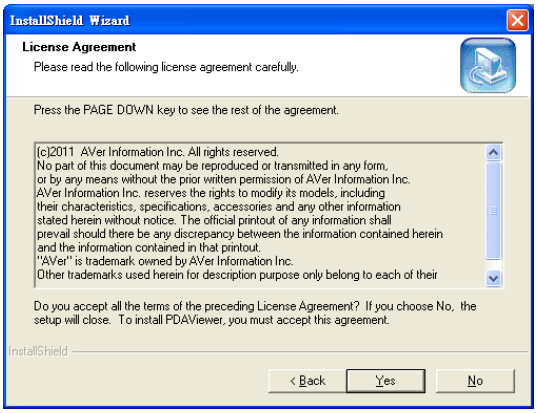
1. Connect your PDA to your PC. Place the CD into the CD-ROM drive then click **Install Web Tool** >> **PDA Viewer** >> **PDAViewer.exe**. And follow the on screen instructions.



2. Click **Next** to continue.



3. Read the license agreement and click **Yes** to accept all the terms. The system will then automatically install the application.



5.1.2 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**.

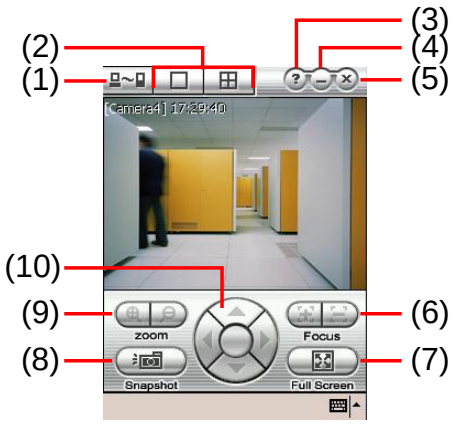


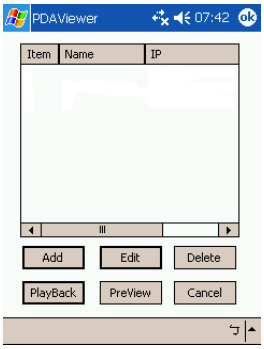
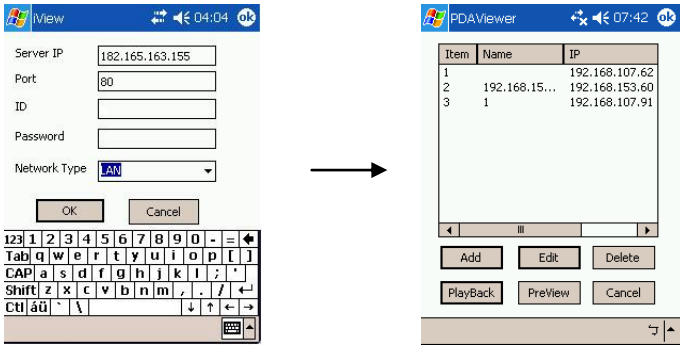
3. After the installation, the PDAViewer icon will appear in the Programs list.



5.1.3 To Use the PDAViewer

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



Name	Function
(1) Connect	Hook up to the DVR server. Make sure you are connected to internet. When the iView screen appears, click Add to add DVR 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 DVR server in PDAViewer.(see also Chapter 7.1.4)
(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.

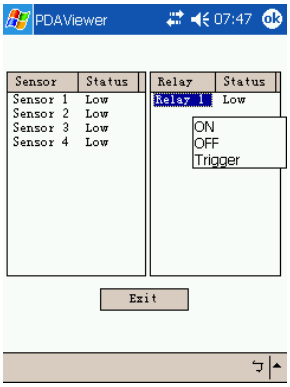
3. To change the video quality, enable/disable audio, and select to display different camera, tap on the video screen longer the popup menu will appear.



4. User also can view and change status of I/O devices
5. On the preview screen, tap on video screen longer the popup menu will appear
6. Select the **Remote IO**



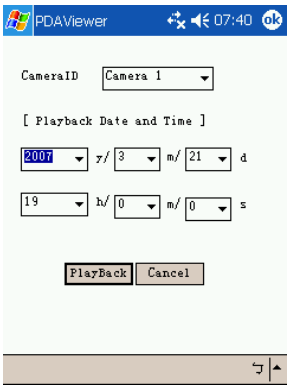
7. The sensor and relay devices will list as below:



8. 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)

5.1.4 To Playback in PDAViewer

1. Run the **PDAViewer** in the Programs.
2. Hook up to the DVR server.
3. Click **Connect** icon and select the DVR 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



5.2 Using JavaViewer to Access DVR Server

Using the mobile phone within Symbian Smart Phone OS to access the DVR 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 DVR server through the internet.

5.2.1 To install JavaViewer from the DVR Server

1. Open the web browser and enter the DVR server IP (http://DVR 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.

5.2.2 To Use the JavaViewer

1. Run the JavaViewer program.



2. Enter the DVR IP address, port number, user ID, and password. Please refer to your DVR server setting for that information.



3. And then, select the Connect to connect to DVR server.



4. Click **Yes** to accept the data from DVR 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.



Chapter 6 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**.

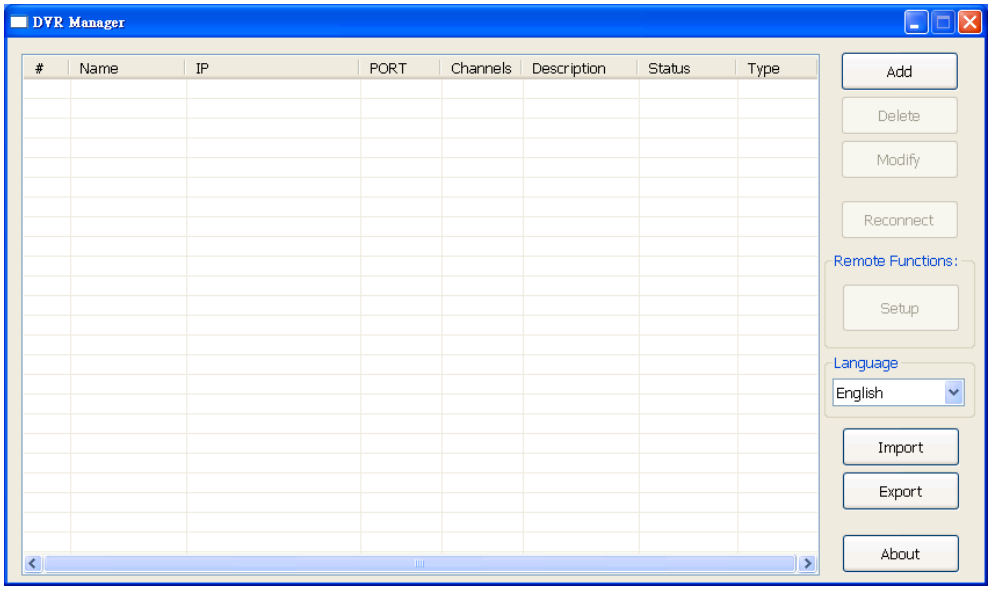


6.1 Remote Setup

Remote Setup is a tool for configuring DVR 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.

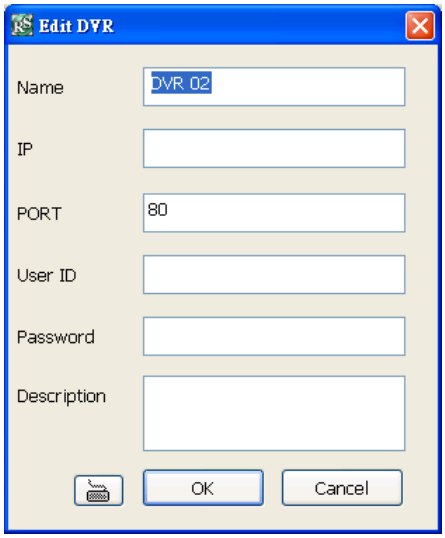
6.1.1 To Add DVR server

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



1. Click **Add**
2. In Edit DVR window, fill in the following items:
   - **Name:** give a name for remote DVR server for easy managing
   - **IP:** fill in remote DVR server's IP address
   - **Port:** the port use to connect to remote DVR server. The port number is same the PCViewer port on the remote DVR server. The default is 80.
   - **User ID:** fill in the remote DVR server's login account

- **Password:** fill in the remote DVR server's login password
- **Description:** fill in a short description for the remote DVR server



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

6.1.2 To Setup Remote System Setting

The setting here applies to Remote DVR only. For detail of configuration, please refer to Chapter 6.1.3.

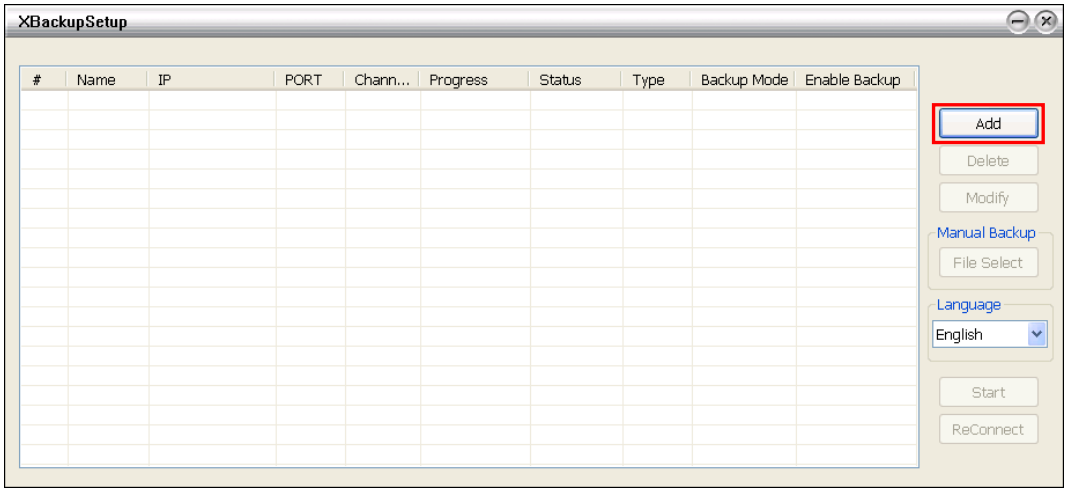
6.2 Remote Backup

Remote Backup is purely for backing up the *.dvr file from the DVR 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.

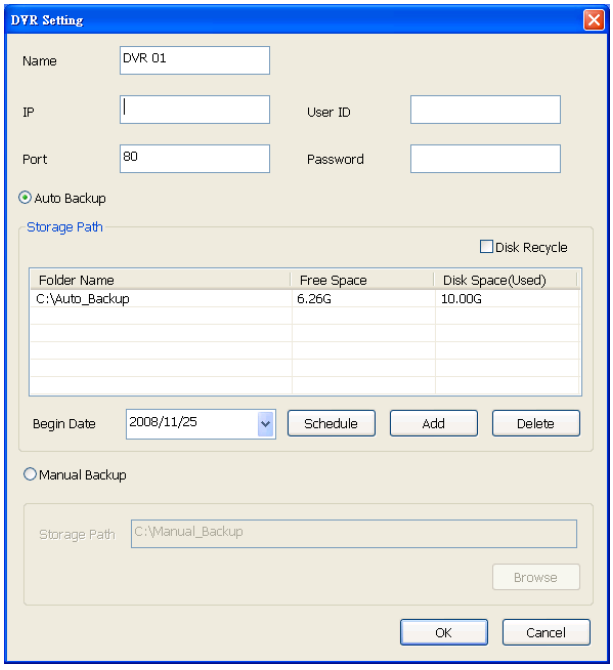
To back up the data, you must have at least 2G hard disk space.

6.2.1 To back up the recoded data from the DVR server:

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



4. In the Add New DVR window, enter the Name, IP, user ID, and password.



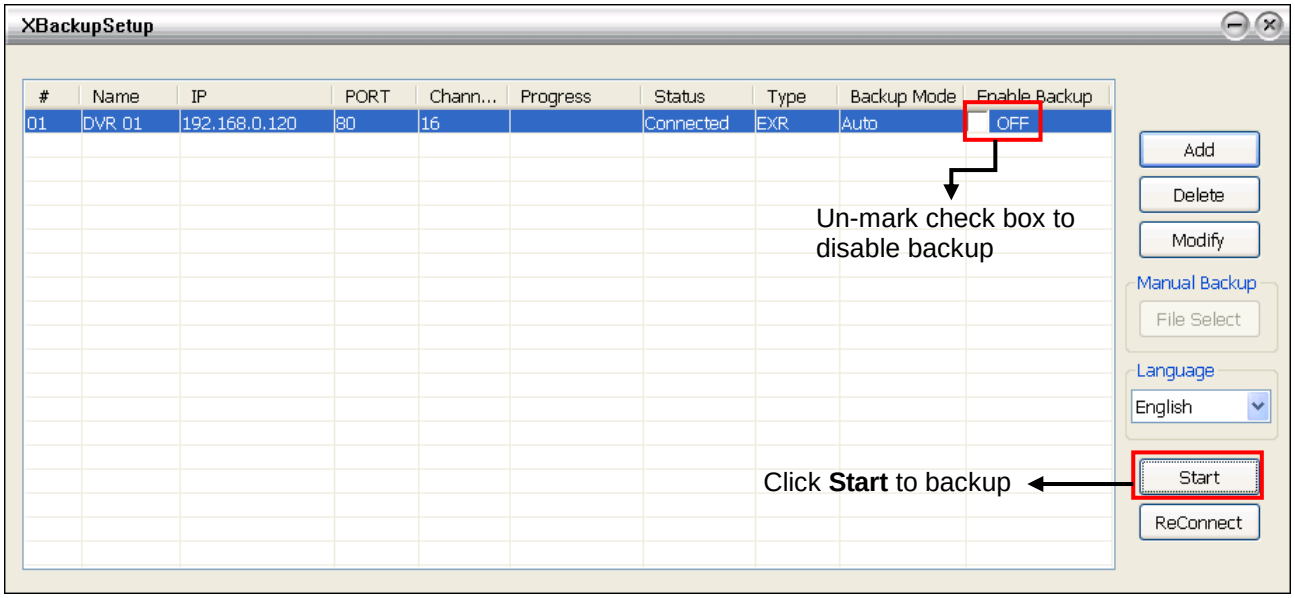
5. Select the Backup mode:
   Auto Backup mode: the backup will automatically execute when the setup is completed
   - In Begin Date drop down calendar, select the date from where to start
   - Click **Add** to set the storage path.
   - Click **Delete** to remove the selected storage path.
   - Click **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.

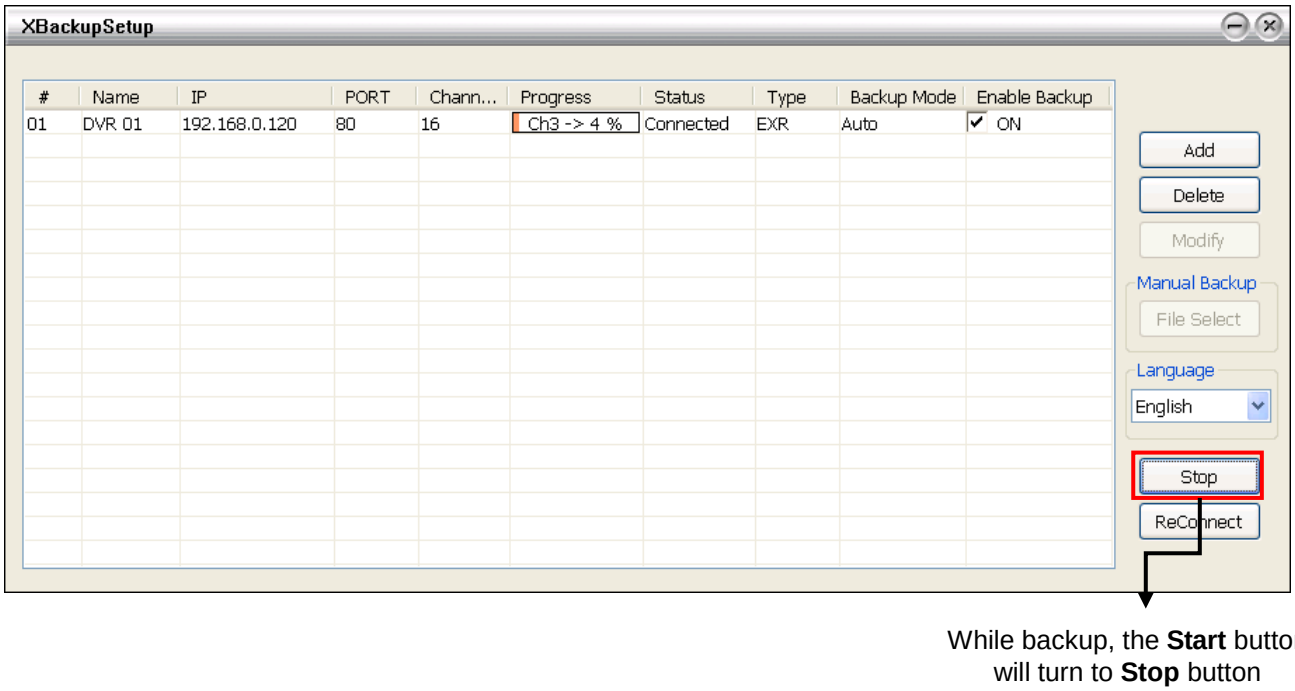
Manual Backup mode: the backup progress will start when user press the backup button

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

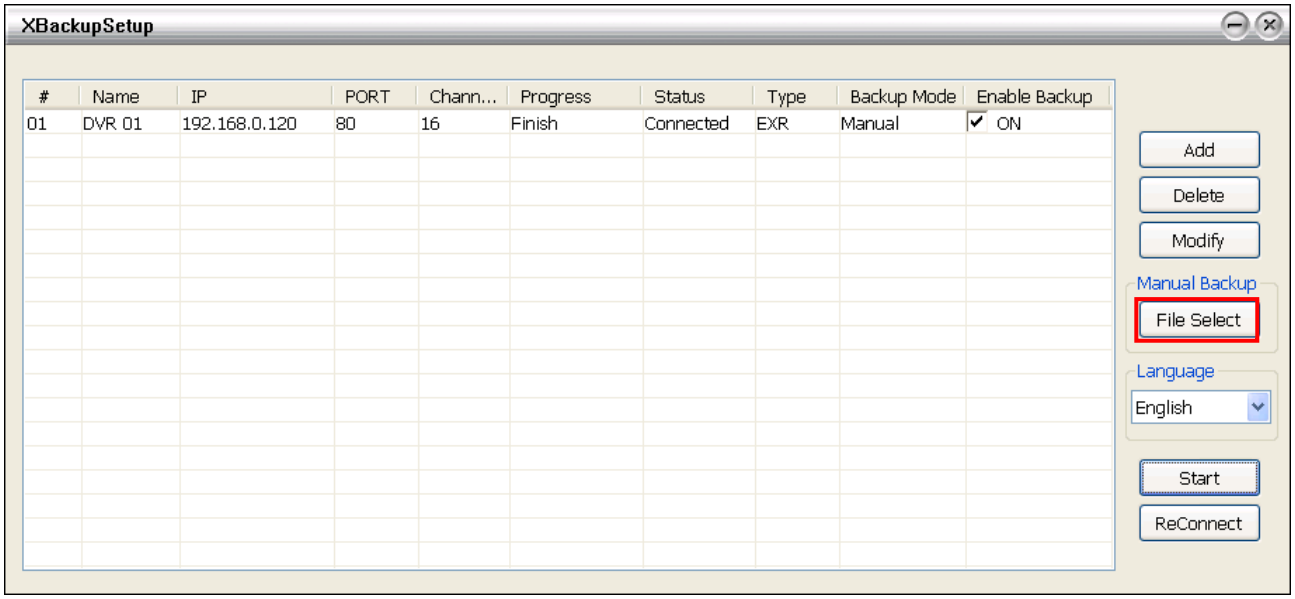
6. Click **OK** to complete the adding DVR server. The added DVR server will display in Remote Backup main window.



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



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



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://ddns.avers.com.tw**

1. **User Login**

   Browse the website **ddns.avers.com.tw** with Microsoft IE browser to access the following dialog.

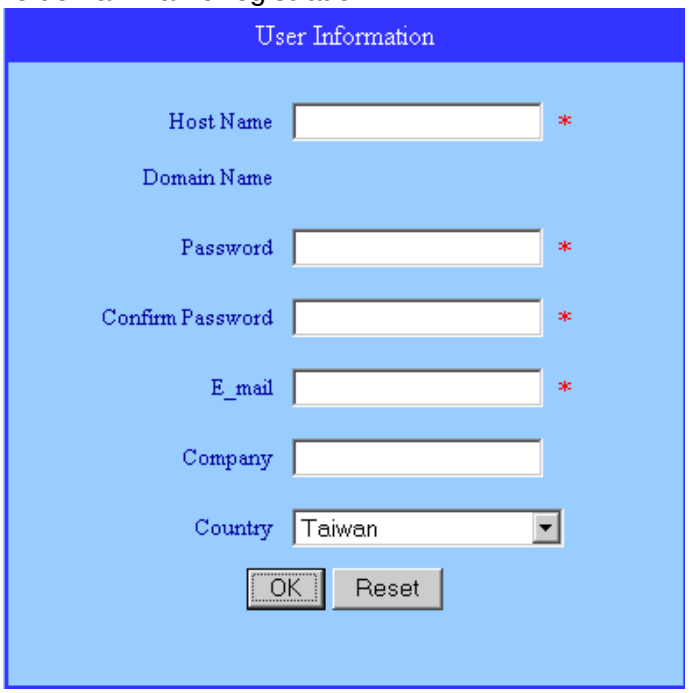


2. First input the MAC address of DVR unit as the **CD-Key No**. and select the **Product**. Then click **OK** to login or **Reset** to clear the previous input.

- To know the MAC address of DVR unit, please check the sticker on the back panel of DVR unit.
- Also, user can find the MAC address of DVR 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 in conflict with other users), **Password**, **E-mail**, **Company**, and **Country**. And then, click **OK** to complete the domain name registration.



WARRANTY NOTICE

LIMITED WARRANTY

AVer Information, Inc. warrants this product to be free of defects resulting from faulty manufacture or components under the following terms:

WARRANTY LENGTH

Labor is warranted for (3) three year from the date of purchase.

Parts are warranted for (2) two year from the date of purchase.

Replacement products will be warranted for the remainder of the one year warranty period or (30) thirty days, whichever is longer

WHO IS PROTECTED

This warranty is enforceable only by the first consumer purchaser

WHAT IS AND IS NOT COVERED

Except as specified below, this warranty covers all defects resulting from faulty manufacturing of this product. The following are not covered by the warranty.

1. Any product on which the serial number has been defaced, modified, or removed
2. Damage, deterioration, or malfunction resulting from:

   Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification, or failure to follow instructions included with the product.

   Misapplication of service by someone other than the manufacturer's representative

   Any shipment damages (Claims must be made with carrier)

   Any other cause which does not relate to a product defect
3. Cartons, cases, batteries, cabinets, tapes, or accessories used with product
4. AVer Information Inc. does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose

WHAT WE WILL AND WILL NOT PAY FOR

We will pay labor and material expenses for covered items. However, we will not pay for the following:

1. Removal or installation charges
2. Shipping charges
3. Any incidental charges

EXCLUSION OF DAMAGES

THE MANUFACTURER'S SOLE OBLIGATION AND LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT AT OUR OPTION. THE MANUFACTURER SHALL NOT, IN ANY EVENT, BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE (INCLUDING, BUT NOT LIMITED TO, DAMAGES RESULTING FROM INTERRUPTION OF SERVICE AND LOSS OF BUSINESS) OR LIABILITY IN TORT RELATING TO THIS PRODUCT OR RESULTING FROM ITS USE OR POSSESSION.

LIMITATIONS OF IMPLIED WARRANTIES

There are no other oral or written warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. Any implied warranties are limited in duration to one year from the date of purchase

STATE LAW AND YOUR WARRANTY

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