

AVerMedia®
AVer™ DiGi
MXR6004 & 6008 Mini



User's Manual

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.

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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.

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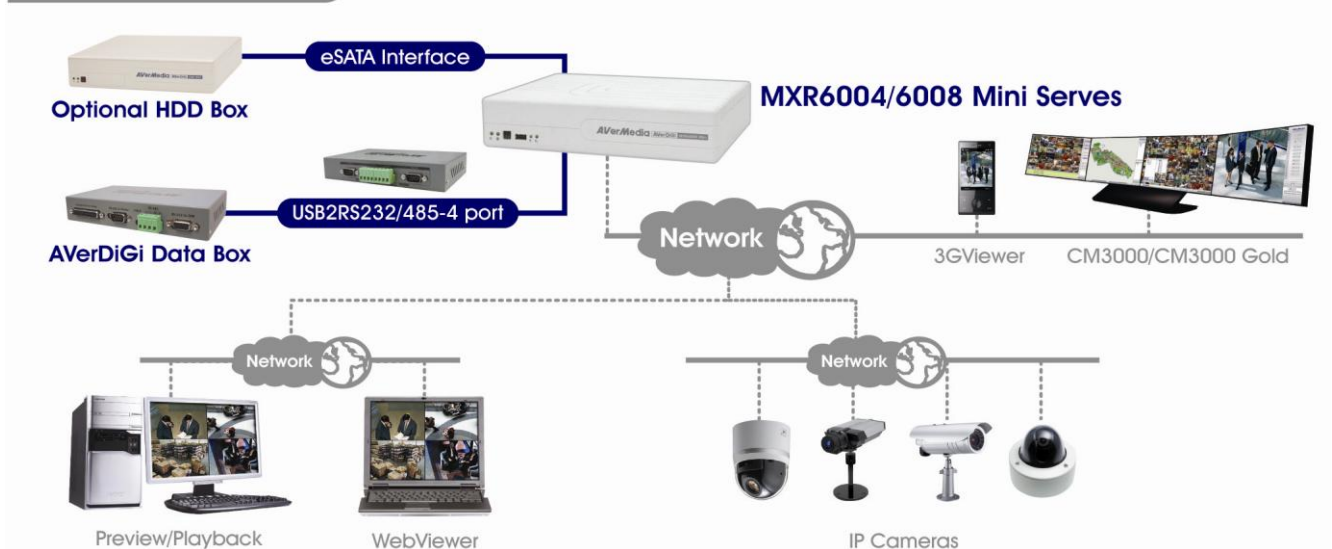
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Chapter 1 Introduction

AVerDiGi MXR6004/6008 Mini is a standalone NVR for IP cameras. With Linux embedded system, AVerDiGi MXR6004/6008 Mini offers the most stable system, qualified video, easy-to-install, and powerful remote platform for small to mid-size enterprises and homes.

Application Diagram





1.1 Package Content

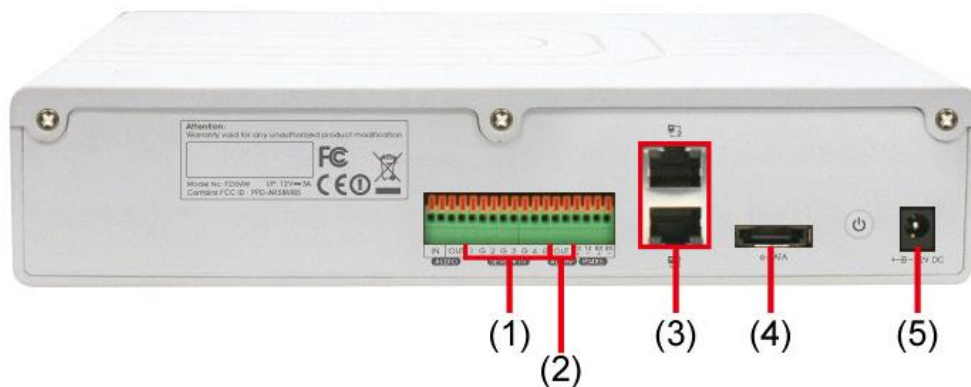
- (1) AVerDiGi MXR6004/6008 Mini unit
- (2) Software CD (User Manual is included)
- (3) Quick User Guide
- (4) Power Cord*
*The power cord varies depending on the standard power outlet of the country where it is sold.
- (5) Power Adapter
- (6) Internal HDD holder (screws are included)

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) USB 2.0 Port	For pen drive connection(for firmware upgrading)
(4) Network 1 Indicator	Indicate the status of network 1
(5) Network 2 Indicator	Indicate the status of network 2

1.3 Back Panel



Name	Function
(1) Sensor In	Support 4 sensor devices
(2) Alarm Out	Support 1 relay device (Relay: 1A @ 125V AC/30V DC)
(3) Dual Gigabit LAN port	2 LAN network connection <ul style="list-style-type: none"> - Port LAN1: lower LAN port in the back of the DVR - Port LAN2: upper LAN port in the back of the DVR
(4) e-SATA connector	For connecting external HDD storage device such as AVerMedia HDD Box
(5) 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://www.avermedia.com/AVerDiGi/Product/> → Pure NVR → AVerDiGi MXR6004/6008 Mini → Hardware Recommendations



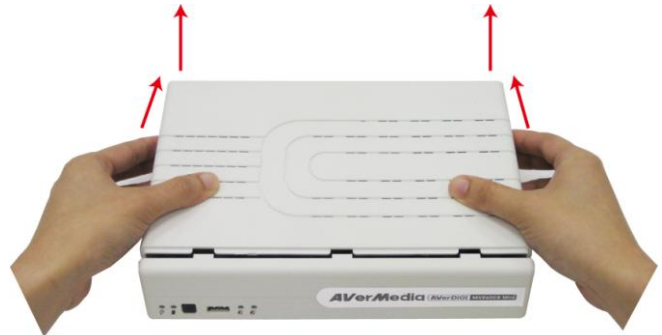
The “compatible hard disks” indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia products and functioned well under normal operation conditions. AVerMedia does not guarantee or provide warranties, explicitly, implied or statutory with respect to the reliability of the hard disk function or its compatibility. In no event AVerMedia 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 AVerMedia 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



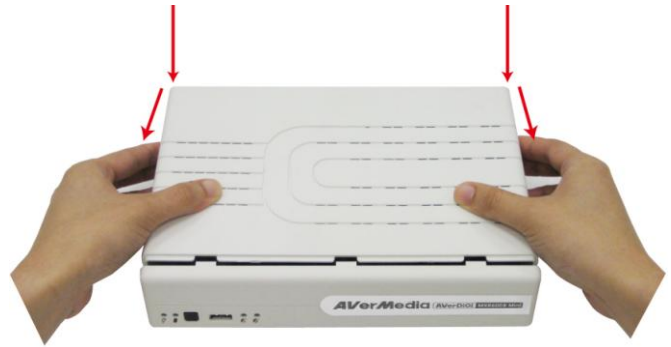
3. Secure the HDD holder on the hard disk. The position to screw the HDD holder on hard disk must same as figure shown. Otherwise, the hard disk won't be able to fit into inside the DVR unit.




4. Connect the 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



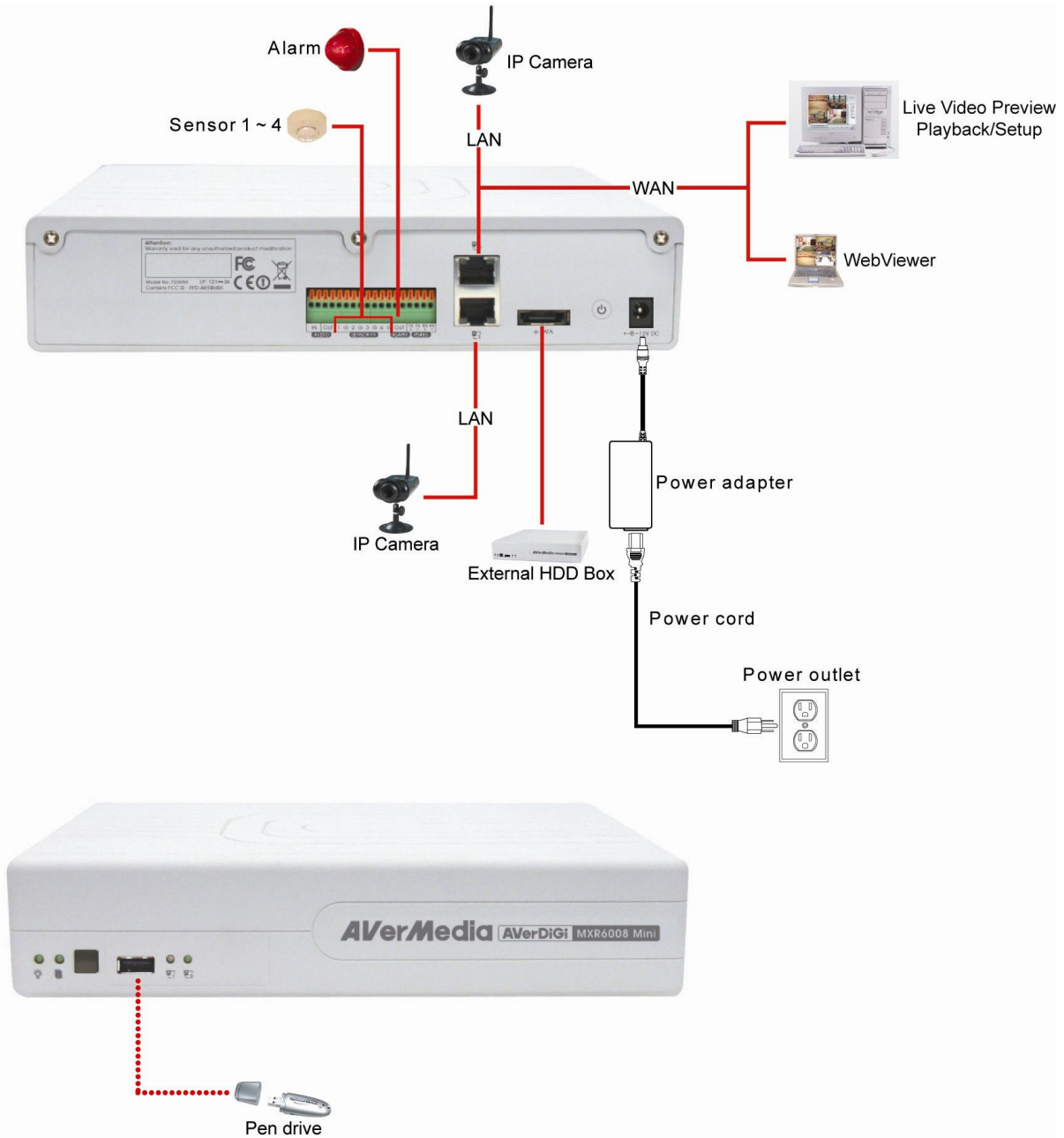
7. You may now connect all the cables. When the power is connected, the Power LED light  turns on

1.4.2 Connecting Devices

Without any complex installation, just plug the MXR6004/6008 Mini on your network and power on. Through the network connection, user can monitor DVR server by using any PC on your network (see also [Chapter 2](#)).

The DVR unit can connect the 4 sensor devices, 1 alarm device, and an external HDD storage device. Through the dual Gigabit LAN ports can balance the network bandwidth on the IP camera connection and preview live video.

Follow the illustration below to make the connection:



The number of the cameras connection that depends on the DVR model user has purchased.

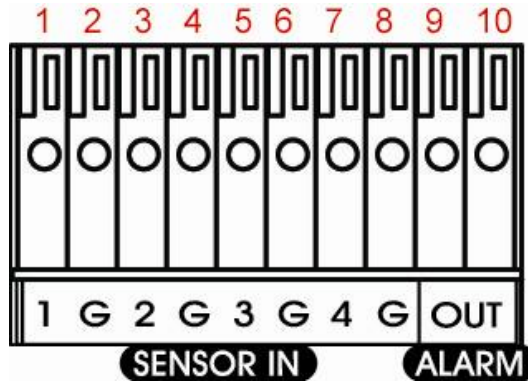
- MXR6004 Mini: 4 cameras
- MXR6008 Mini: 8 cameras

- The port LAN 1 only supports Fixed IP of the network mode.
- The port LAN2 supports PPPOE, DHCP, or Fixed IP of the network mode.

1.4.3 Connecting the Sensor and Relay device

The Sensor, Alarm, and audio port enable you to connect 4 sensor inputs, and 1 relay outputs. 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).

Sensor and Alarm pinhole:

Number	Pin	Definition
1	1	Sensor 1 signal
2	G	Sensor 1 Ground signal
3	2	Sensor 2 signal
4	G	Sensor 2 Ground signal
5	3	Sensor 3 signal
6	G	Sensor 3 Ground signal
7	4	Sensor 4 signal
8	G	Sensor 4 Ground signal
9	Alarm OUT	Relay signal
10	Alarm OUT	Relay signal

Chapter 2 Operating the DVR unit

AVerDiGi MXR6004/6008 Mini only allows user to operate from remote site. User needs to install the **MXR Client Software** on the PC in order to configure DVR unit, preview, and playback recorded videos.

2.1 System Requirement

Motherboard	Motherboard with Intel 915 / 945 / 955 / 965 / 975 / P35 / P45 chipset and NVIDIA nForce™4 Ultra MCP · nVidia nForce 570 SLI chipset
CPU	Pentium® 4 3.2 GHz or higher Dual core CPU is highly recommended
Hard disk	120GB or higher
OS	Windows XP Professional / Windows Vista / Windows 7
RAM	1GB or higher
VGA card	32-bit high color SVGA graphics card with 128MB video memory and DirectDraw® / YUV Rendering Capability
Ethernet	10/100/1000 Base-T Ethernet card
Others	Sound card and speakers



At least 2G RAM/256M video memory is advised if user wants to install mega-pixel IP camera on your DVR system.

2.2 Install the MXR Client Software

Follow the below steps to install the surveillance application.



DO NOT install the MXR Client Software with NV DVR application and CMS application on the same OS platform.

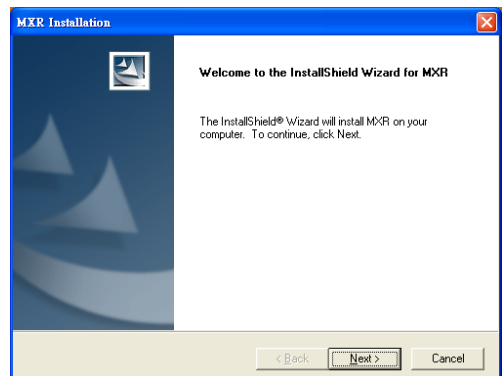


MXR Client Software only can be installed and run on the PC that is using independent graphic card.

1. Place the installation CD into the CD-ROM drive then click **Install MXR Client Software**. And follow the on-screen instructions.



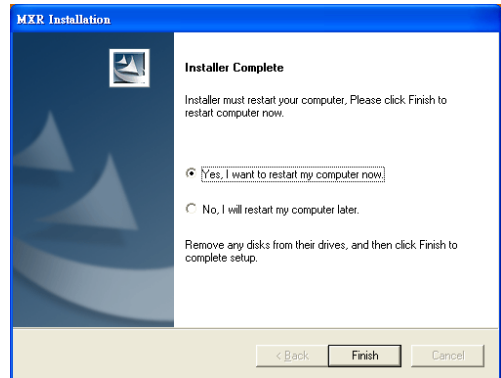
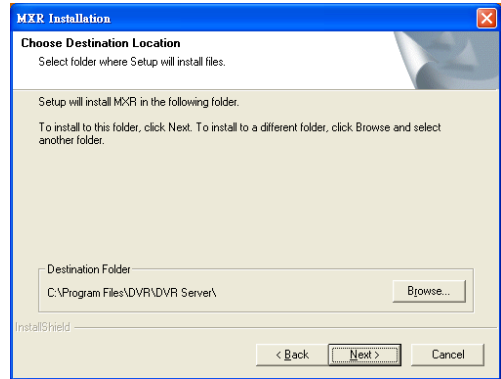
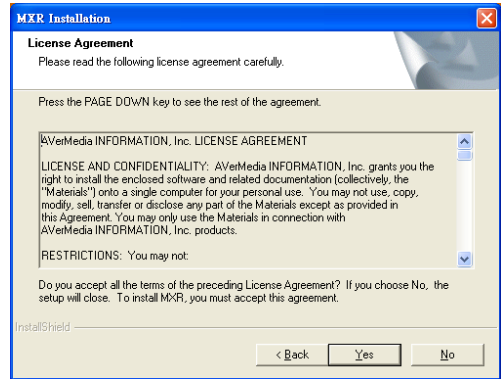
2. Click **Next** to continue the installation




3. Accept the agreement license to continue the installation. If you do not agree the license agreement, the installation will be cancel.

4. Select the destination path if user wants another installation location other than the default. Otherwise, click **Next** to start installation.

5. After installation, choose to restart the computer immediately.



6. After computer restarted, you may now run the MXR Client Software. To run the application, click  on your PC desktop or click **Start > Programs > DVR > DVR Server > MXR**.

2.3 Using the DVR For the First Time

For the first time using the DVR server, user needs to setup the connection with DVR server and IP cameras.



The DVR server doesn't support the remote setup through the Internet (WAN) for the first time setup. Please have your PC and the DVR server at same LAN segment (network).

Please confirm the following items before connecting with the DVR server and IP cameras.

1. Make sure the HDD is installed inside the DVR unit.
2. Make sure all the connecting devices are well connected with the DVR unit and have their own power supply.
3. Make sure the DVR unit is installed on your network and power on.
4. Make sure the all IP cameras are installed on your network and are functional.
5. Make sure the MXR Client Software has been installed on the PC.

2.3.1 Make a Connection of the DVR

After MXR Client Software has been installed on the PC, user needs to add the DVR server in order to monitor the DVR server (see also [Chapter 3.1](#)).


Following the below steps to make a connection with the DVR server.



- The port LAN 1 (default IP is 192.168.2.2) that is located at lower position and only supports Fixed IP of the network mode.
- Port LAN2 (default IP is 192.168.3.2) supports PPPOE, DHCP, or Fixed IP of the network mode.



Please make sure MXR DVR and your PC is connected in the same physical network in order for search function can work correctly.

1. Run the MXR Client Software on your PC. To run the application, click  on your PC desktop or click **Start > Programs > DVR > DVR Server > MXR**.
2. In Authorization dialog, enter the **ID** and **Password** (default is **superuser/111111**) to login the MXR Client application.




Authorization

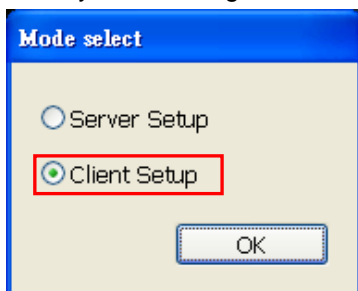
Please enter your user ID and password.

User ID

Password

OK Cancel

3. Click  (**Setup**) from MXR Client application interface. Enter the **ID** and **Password** (default is **superuser/111111**). And then, select **Client Setup** mode. The System Setting window will show up.

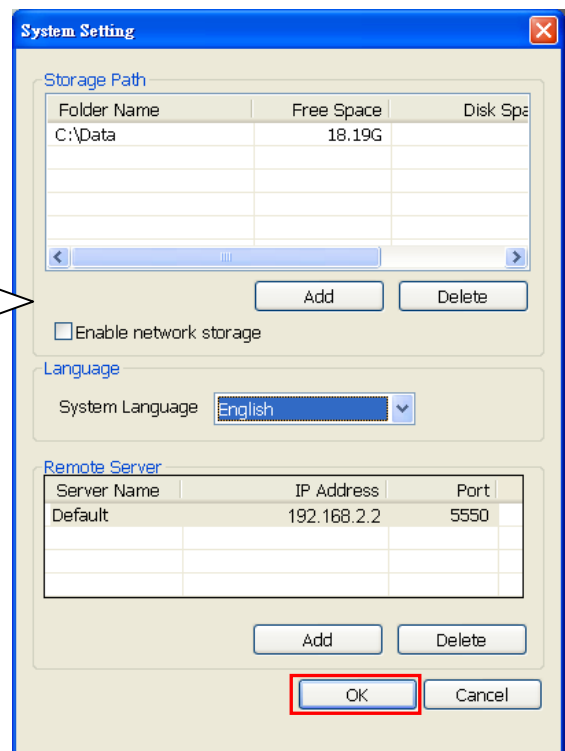


Mode select

Server Setup

Client Setup

OK



System Setting

Storage Path

Folder Name	Free Space	Disk Spa
C:\Data	18.19G	

Add Delete

Enable network storage

Language

System Language English

Remote Server

Server Name	IP Address	Port
Default	192.168.2.2	5550

Add Delete

OK Cancel

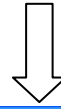
4. Click **Add**, and then, click **Search** to find the DVR server that you have installed on your network.

Server Setting

Server Name

IP Address

Port



MXRSearch

MAC Address	Name	IP/Domain Name	Port
-------------	------	----------------	------

Idle

5. Select the DVR server that you want to configure from the search result list and click **OK**.

MXRSearch

MAC Address	Name	IP/Domain Name	Port
00:18:1a:00:0d:09	MXR6004	192.168.2.2	5550

Done !

6. If user wants to change the IP of the DVR, select the DVR in MXR Search windows and click **Edit**.
7. In MXR Setting windows, user can change **Name** of the DVR, connection **Port**, **Network** mode (**Static IP/DHCP**), **IP**, **Mask**, **Gateway**, and **DNS**.



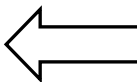
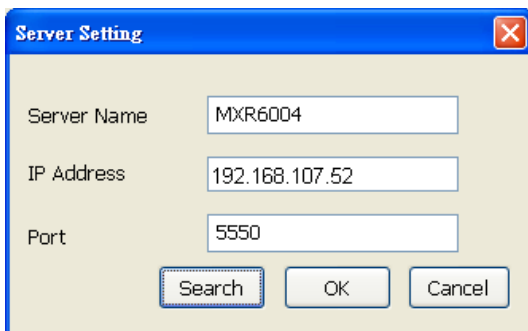
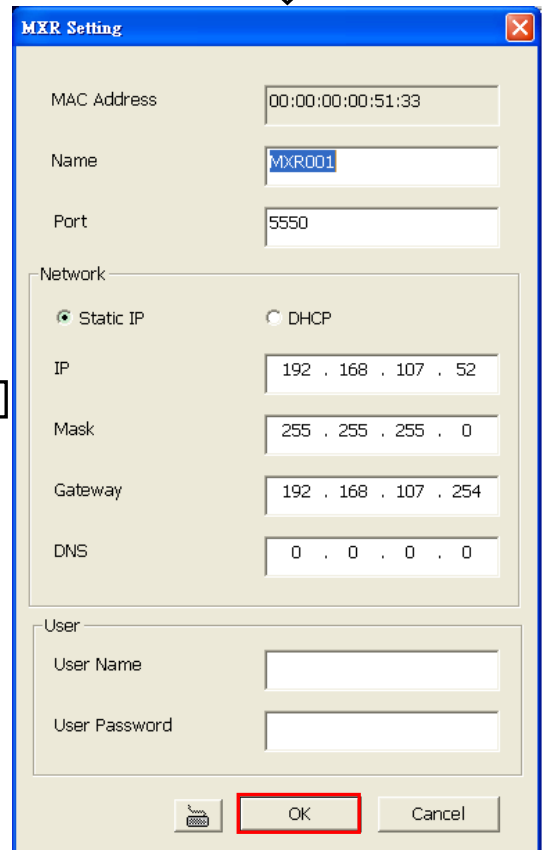
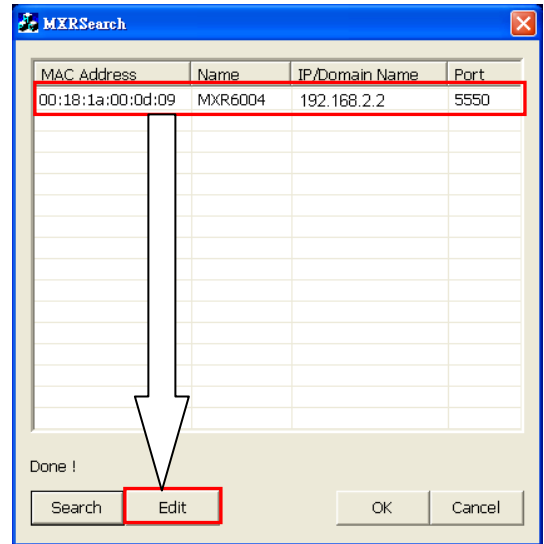
- The **Name**, **Port**, **Network**, **IP**, **Mask**, and **Gateway** are required to enter.
- If user uses the port LAN 1 for network connection, please do not select **DHCP** for network mode. Port LAN 1 only supports Fixed IP (static IP).

8. Enter the **User Name** and **Password** for change authentication. And then, click **OK** to complete the changing.

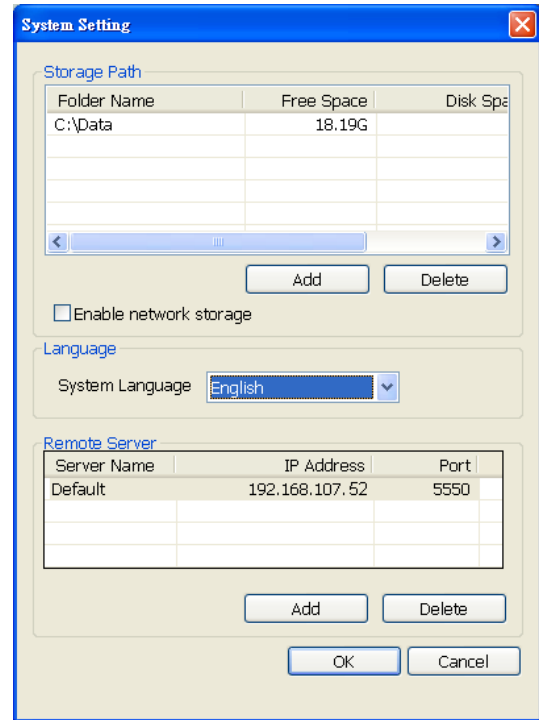


The **User Name** and **User Password** is the DVR system login ID and password.

9. After changed the DVR data, click **Search** to re-find the DVR server again.
10. Select the DVR server from search result list in MXR Search window and click **OK**.
11. The new DVR information will display in **Server Setting** window. Click **OK** to add the DVR server.



12. When the DVR server has been added, click **OK** to exit the System Setting window.




13. And then, click  **(Network)** to connect with the DVR server.

2.3.2 Make a Connection of the IP Camera

When the DVR server has been connected, user can connect the IP camera to monitor.

Following the below steps to make a connection of the IP camera.

1. Run the MXR Client Software on your PC that is located on the same network as DVR server.
2. In Authorization window, enter the **ID** and **Password** (default is **superuser/111111**) for authentication.
3. Click  (**Setup**) from surveillance application interface. Enter the **ID** and **Password** (default is **superuser/111111**). In Mode Select dialog, select **Server Setup** and click **OK**.

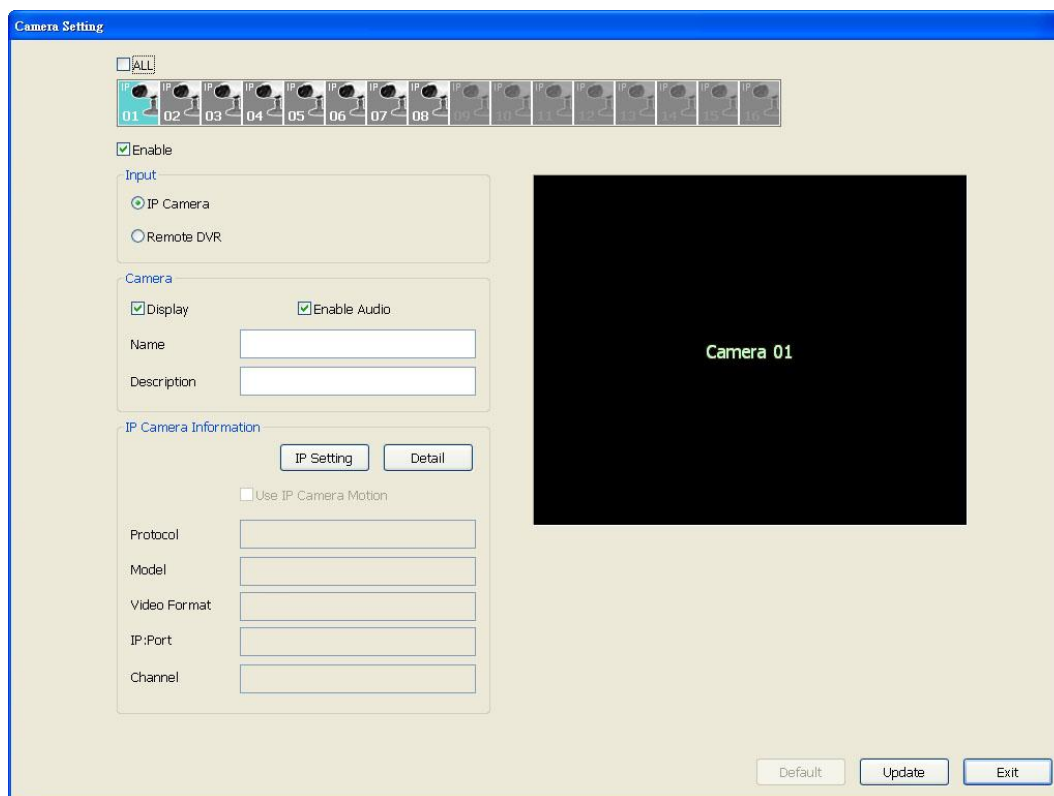


The Authorization dialog box has a blue title bar and a light beige background. It contains the text "Please enter your user ID and password." followed by two input fields: "User ID" and "Password". At the bottom, there are three buttons: "OK", "Cancel", and a printer icon.

4. The Setup bar will show up.



5. Select the **Camera**. The Camera setting window will show up.
6. Select camera icon and enable the camera
7. Select **IP Camera** in Input section
8. Mark **Display** to show the video of the camera on the screen.
9. Mark **Audio** to enable the audio of the camera to be recorded.
10. Enter the **Name** and **Description** of the camera.



The Camera Setting dialog box has a blue title bar and a light beige background. At the top, there is a row of camera icons labeled 01 through 16. Below this, there is a "Enable" checkbox which is checked. Under "Input", there are two radio buttons: "IP Camera" (selected) and "Remote DVR". Under "Camera", there are two checked checkboxes: "Display" and "Enable Audio". Below these are two input fields for "Name" and "Description". Under "IP Camera Information", there are two buttons: "IP Setting" and "Detail". Below these are several input fields: "Protocol", "Model", "Video Format", "IP:Port", and "Channel". At the bottom right, there are three buttons: "Default", "Update", and "Exit".

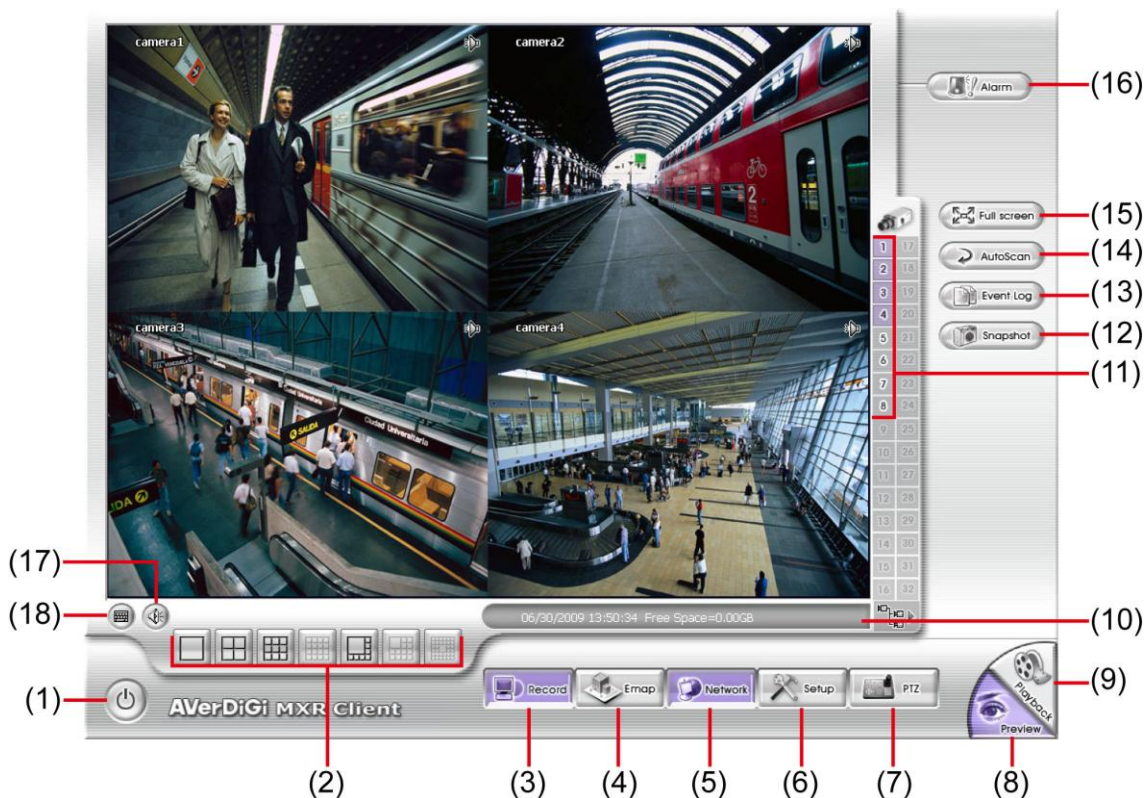
11. Click **IP Setting** in IP Camera Information section.
12. Enable **Protocol**, and then, select **Protocol, Mode, Video Format, Channel, and IP Camera Site** of the IP camera.
13. Instead enter IP address of the IP camera; user also can enter **URL** of the IP camera.
14. Enable **Authentication**, and then, enter **ID** and **password** if IP camera's access authority is required.
15. Click **OK**.
16. To connect another IP camera, follow the above steps.

The screenshot shows the 'IP Camera Settings' dialog box with the following configuration:

- IP Camera Information**
 - Protocol: VIVOTEK (dropdown), Search Devices button
 - Model: PT7135 (Beta) (dropdown)
 - Video Format: MPEG4 (dropdown)
 - Channel: 1 (dropdown)
 - IP Camera Site: 192.168.0.34 ; 80
- URL: http:// (text field)
- Authentication
 - ID: root (text field)
 - Password: ***** (text field)

Buttons: OK, Cancel

2.4 Familiarizing the Buttons in Preview Mode



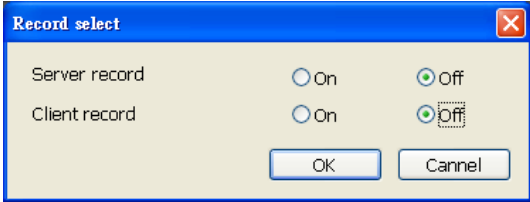
Name	Function
------	----------

(1) Exit

Call up the Logout dialog box.
In the logout dialog box, you may do the following:

Logout	
User	<input type="text" value="1"/>
Level	<input type="text" value="Administrator"/>
<input type="button" value="Exit"/>	<input type="button" value="Reboot"/>
<input type="button" value="Minimize"/>	<input type="button" value="Compact"/>
<input type="button" value="Login"/>	<input type="button" value="About"/>
<input type="button" value="Guest"/>	<input type="button" value="Cancel"/>

- **Exit:** To close the application
- **Reboot:** To restart the MXR Client Software. It is required to enter the password
- **Login:** Using different ID to login to DVR system.
- **About:** Display product information.
- **Minimize:** To reduce the MXR Client Software to taskbar button.
- **Compact:** To switch to compact mode (see also [Chapter 2.5](#)).
- **Guest:** To switch to the guest mode. In guest mode, the functions are limited to preview function only. For complete functions of DVR, please login as an administrator.
- **Cancel:** To exit Logout dialog box.

Name	Function
(2) Split Screen Mode	Select from 4 different split screen types to view all the camera, or one camera over the other or alongside on a single screen. It also allows you to switch and view different camera number.
(3) Record	<p>Start/stop video recording.</p> <ul style="list-style-type: none"> - Server record: Start/stop recording at MXR DVR server. - Client record: Start/stop recording at remote client site.
	 <p>The image shows a dialog box titled "Record select" with a close button (X) in the top right corner. It contains two rows of radio buttons. The first row is for "Server record" with "On" (unselected) and "Off" (selected) options. The second row is for "Client record" with "On" (unselected) and "Off" (selected) options. At the bottom, there are "OK" and "Cancel" buttons.</p>
(4) EMap	Display the map in each area, and the location of camera/ sensor/ relay and the warning (see also Chapter 2.4.1).
(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	Access PTZ control panel. (see also Chapter 2.4.2)
(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 2.6)
(10) Status bar	Display the recording 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 or *.bmp format.
(13) Event log	Show the record of activities that take place in the system. (see also Chapter 2.4.3)
(14) AutoScan	Start/Stop video screen cycle switch.
(15) Full screen	<p>View in full screen. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(16) Alarm	Alert and display warning info.
(17) Audio	Enable/disable audio. User can click the audio icon on the channel to switch the different channel's volume play. When audio icon is green, it means the channel audio is playing now.
(18) Virtual Keyboard	If the keyboard is not available, you may use the Virtual Keyboard.

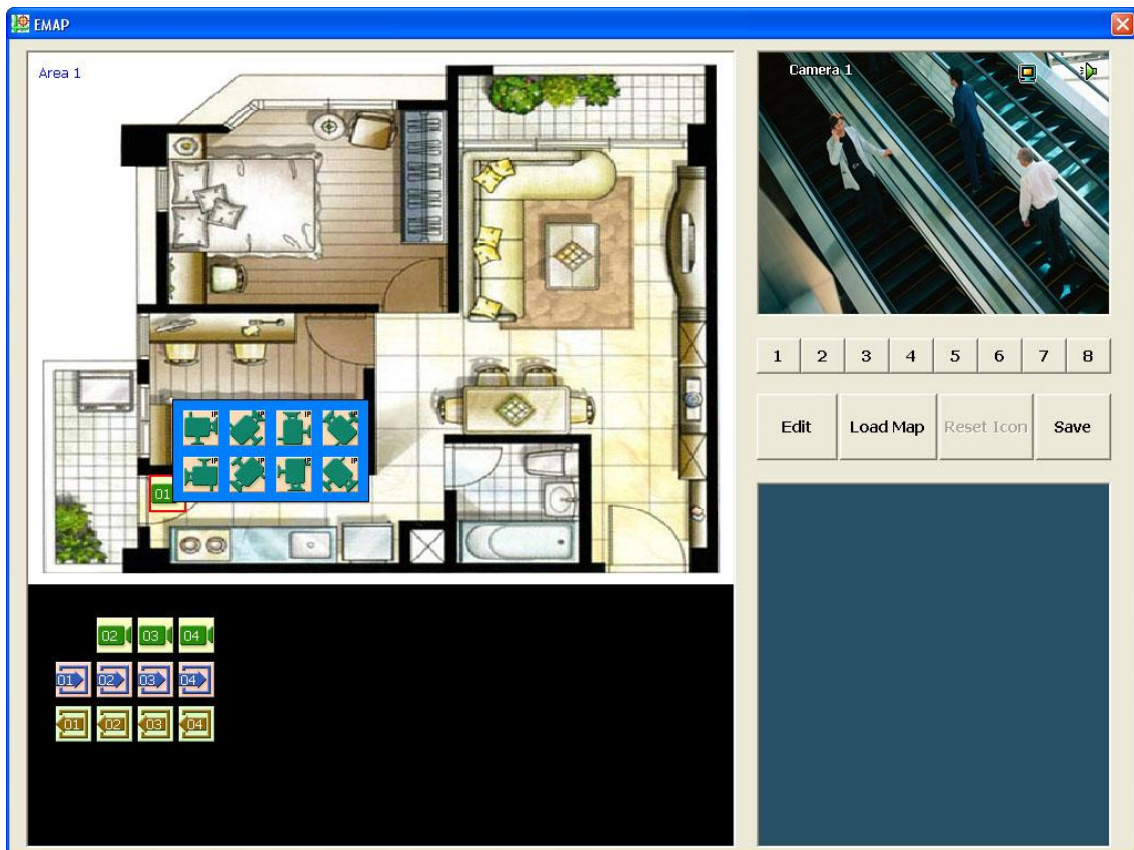


2.4.1 Setting Up and Using the Emap

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

2.4.1.1 To Set Up the Emap

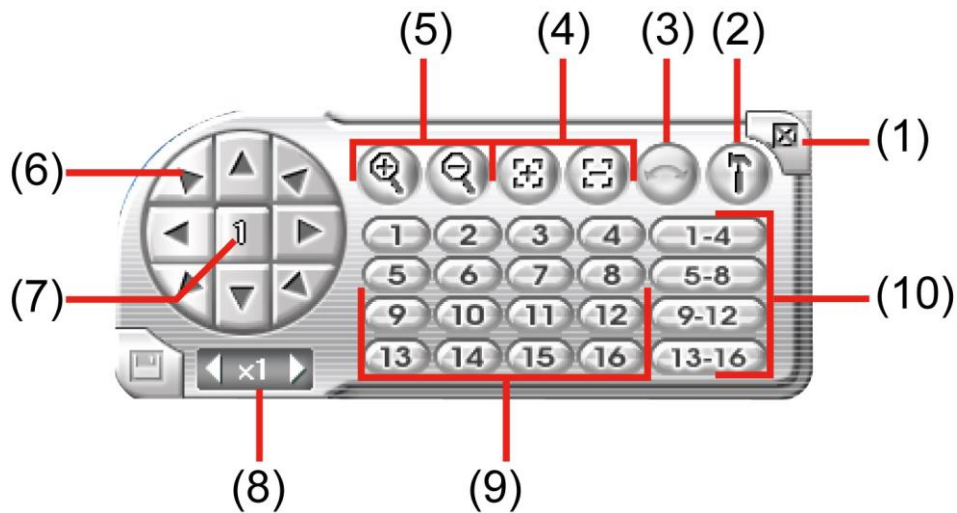
1. Click **Emap**.
2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.
3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
4. When the inserted map appears on the Emap screen,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



2.4.1.2 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 **X** to exit Emap screen.

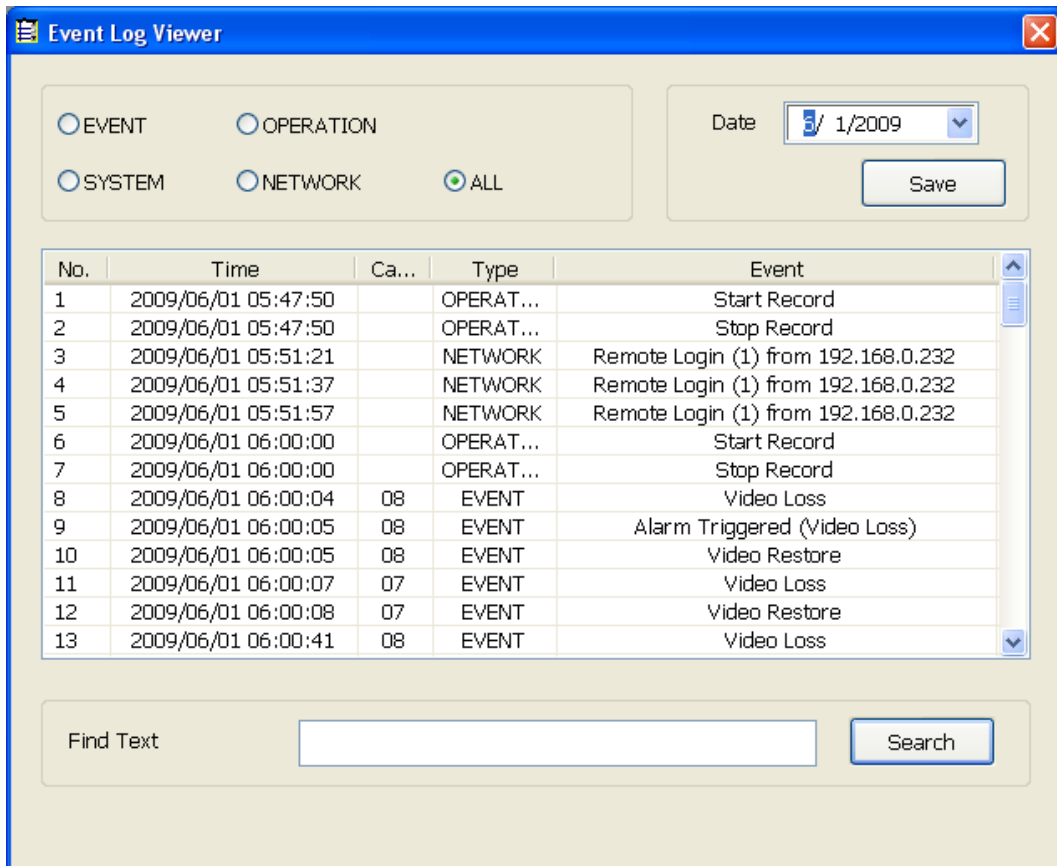
2.4.2 Familiarizing the Buttons in PTZ Camera Controller



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

2.4.3 Using Event Log Viewer

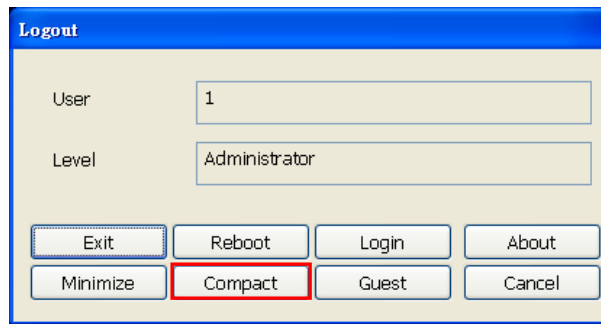
Show the record of activities that take place in the system.



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. To find event log by keyword, enter keyword in **Find Text** column and click **Search**.
6. The events list which display on the screen can be saved as text file format. To save the events list, click **Save** button.

2.5 Familiarizing the Buttons in Compact Mode

To view in Compact mode, click **Exit** button. In the logout dialog box, click **Compact**.

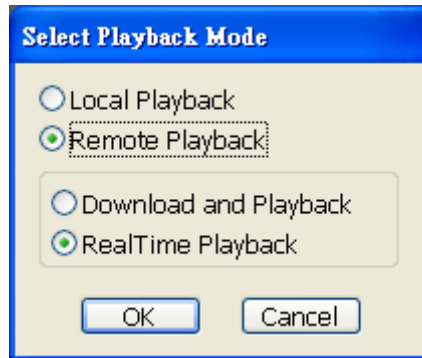


Name	Function
(1) Split Screen Mode	Select from the different split screen types to view all the camera, or one camera over the other or alongside on a single screen. I
i	<ul style="list-style-type: none"> When you are in single screen mode, Right click and Drag a square on the area you want to enlarge. When you are in full screen mode, partial enlarges does not support.
(2) AutoScan	Start/Stop video screen cycle switch.
(3) Alarm	Alert and display warning info.
(4) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 2.6)
(5) Advanced	Switch to Preview/Advanced mode.

2.6 To Playback the Recorded Video

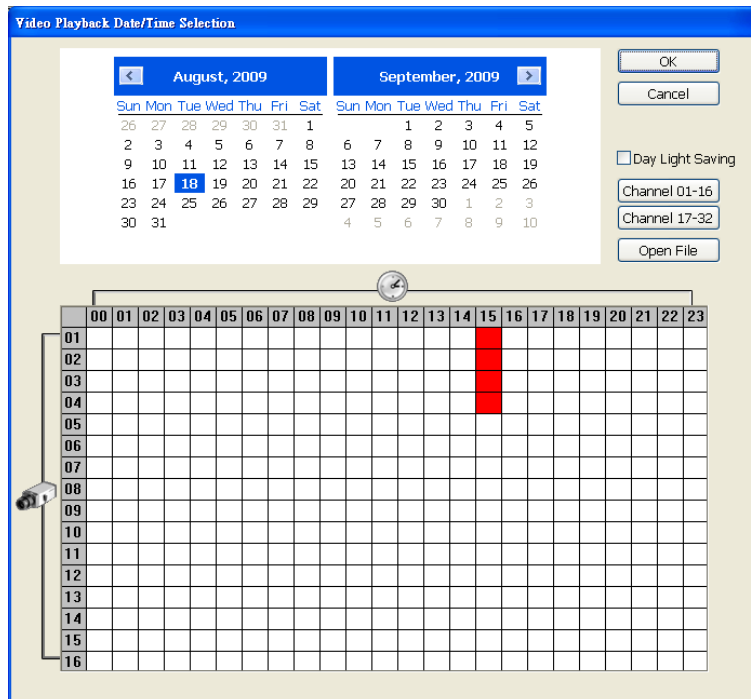
To switch in Playback mode, click **Playback** button at the lower right corner of Preview mode user interface.

In the **Select Playback Mode** dialog box, select **Local Playback** if user has enabled the client record. Select the **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.

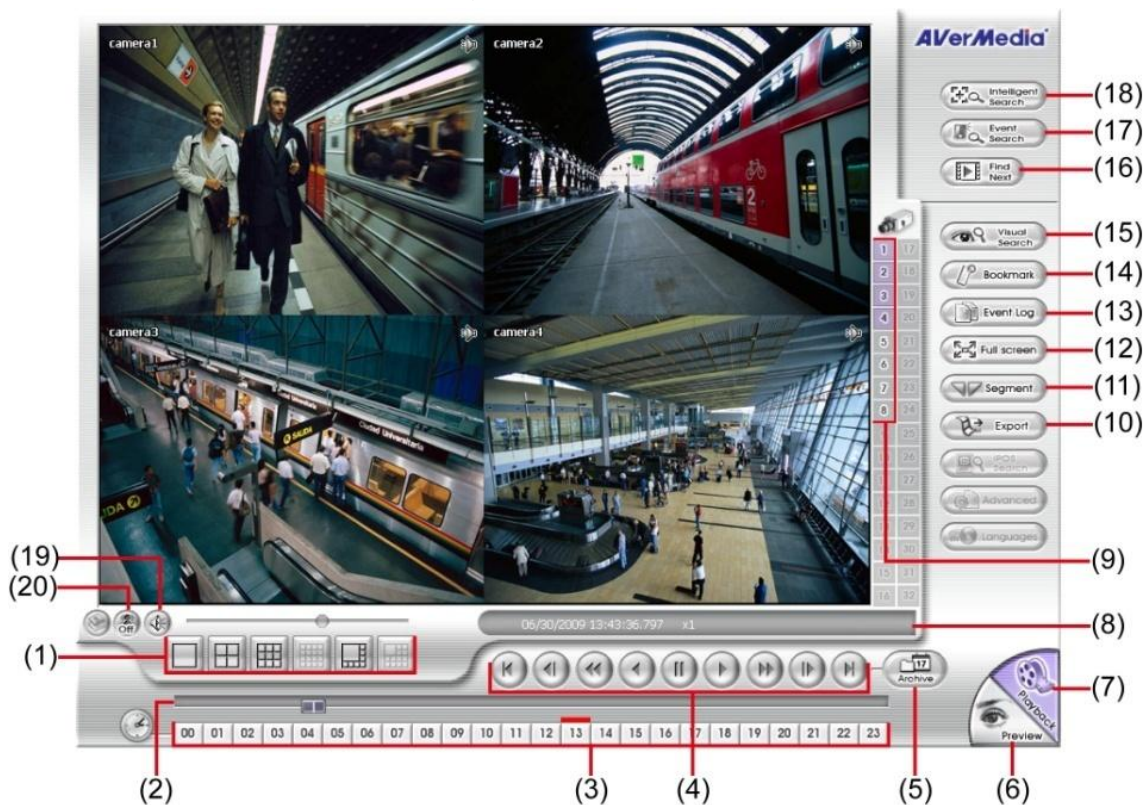


2.6.1 Playback in Local Playback Mode

When selected the Local Playback mode, select the date and time to playback from the **Video Playback Date/Time Selection**. 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 08 represent the camera number.

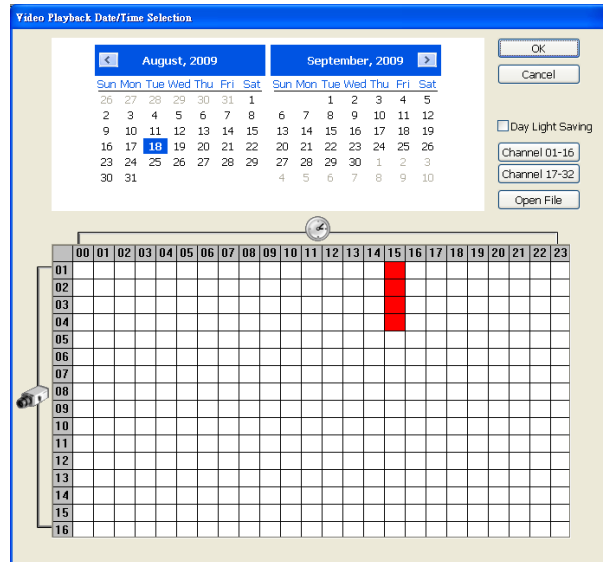


The Local Playback interface as following shown:



Name	Function
(1) Split Screen Mode	Select from 4 different split screen type to playback the recorded video file of all the camera, or one camera.
i (2) Progress bar	To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge. Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
i (4) Playback Control Buttons	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. From left to right order: <ul style="list-style-type: none"> ⏪ 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
(5) Archive	<ul style="list-style-type: none"> Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. Also, user can open the recorded file from certain location by click OPEN FILE button Mark Day Light Saving, the playback calendar will show the available playback records during day light saving period.



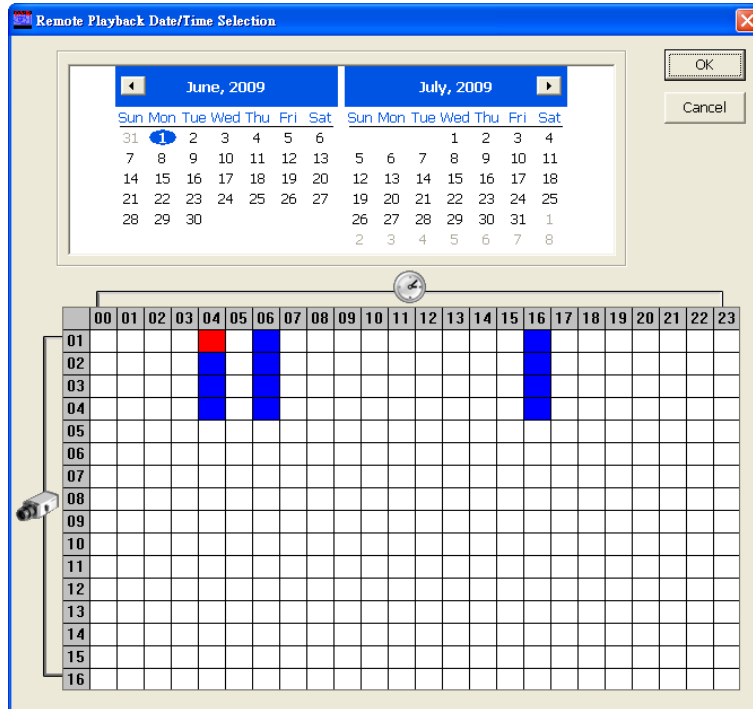
i The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(6) Preview	Switch to Preview/Advanced mode.
(7) Playback	Switch to Playback mode. This allows you 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, Print, and Output Video Clip function. <ul style="list-style-type: none"> ■ 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 2.6.4).
(11) Segment	Keep a portion of the recorded video(see also Chapter 2.6.4).
(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. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(14) Bookmark	Mark a reference point when previewing the recorded video file to which you may return for later reference. You may also set it to protect the file.
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second (See also Chapter 2.6.5).
(16) 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.
(17) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (see also Chapter 2.6.7).
(18) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 2.6.8).
(19) Audio	Enable/disable audio play

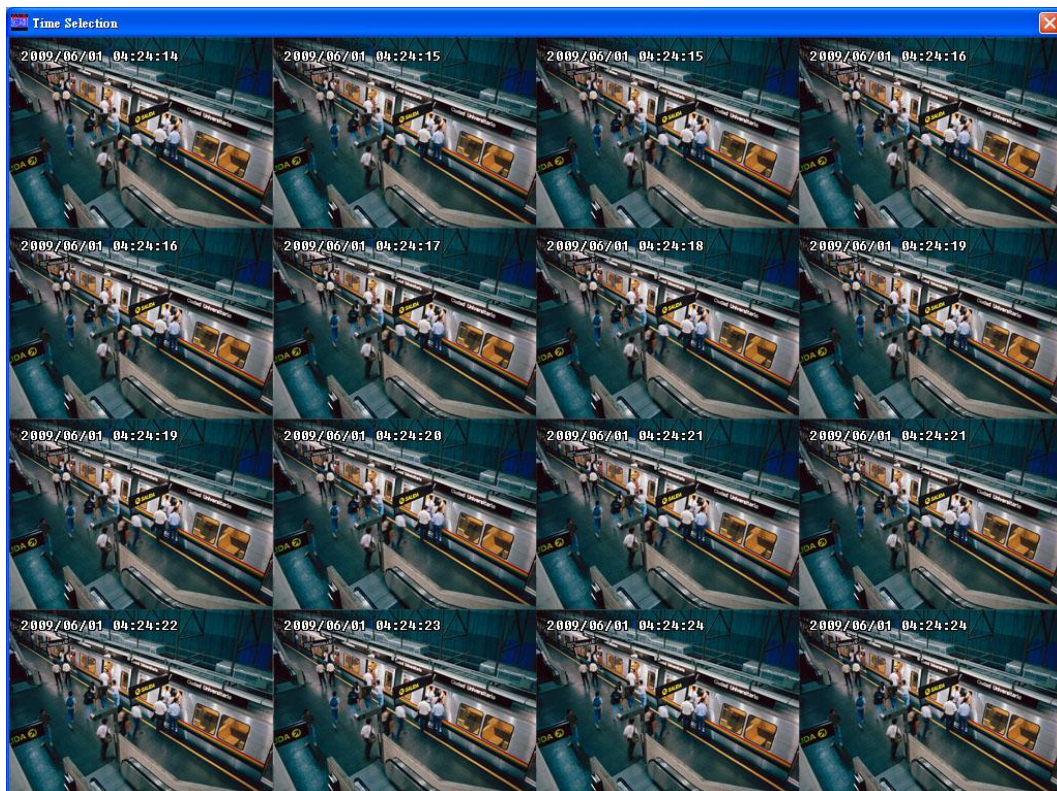
Name	Function
(20) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

2.6.2 Playback in Download and Playback Mode

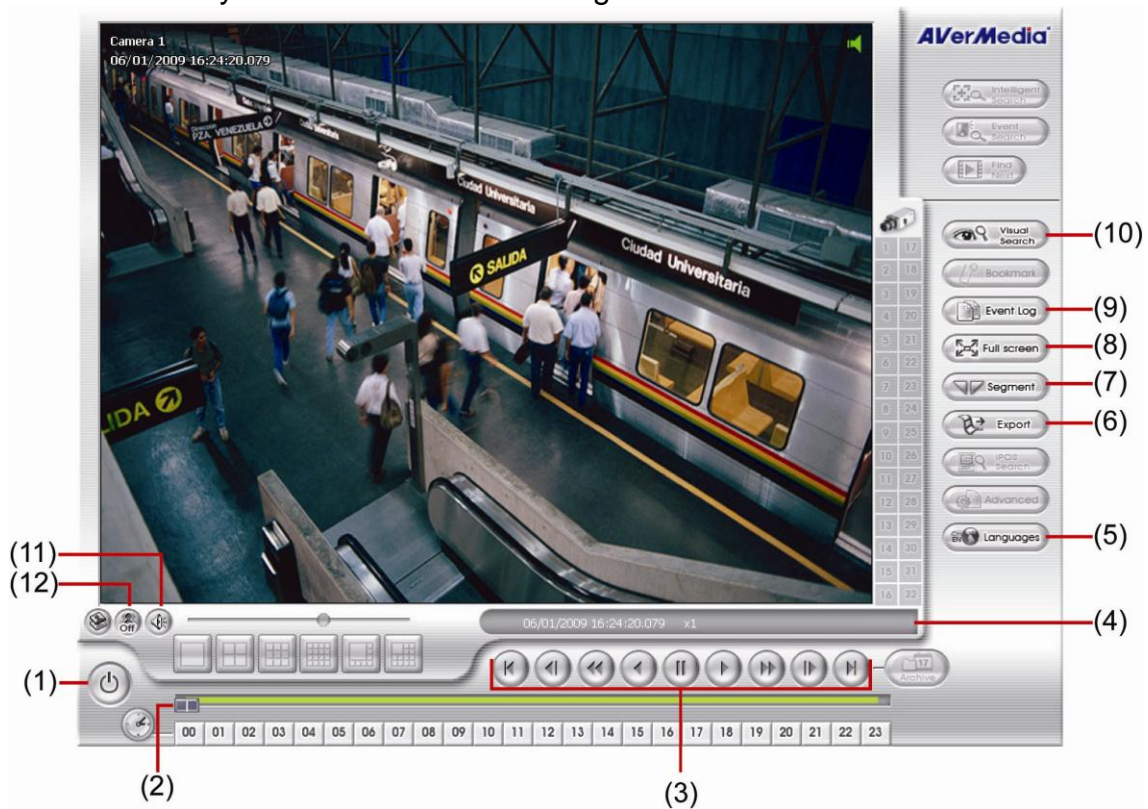
When selected the Download and Playback mode, select the date and time to playback from the **Remote Playback Date/Time Selection**. In the **Remote Playback Date/Time Selection**, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 represent the camera number.



Click **OK** and the **Time Selection** window will show up. In **Time Selection** window, the system divides the selected hour into 16 video thumbnails. Click on the video thumbnail you want to download and open.



The Download and Playback interface as following shown:

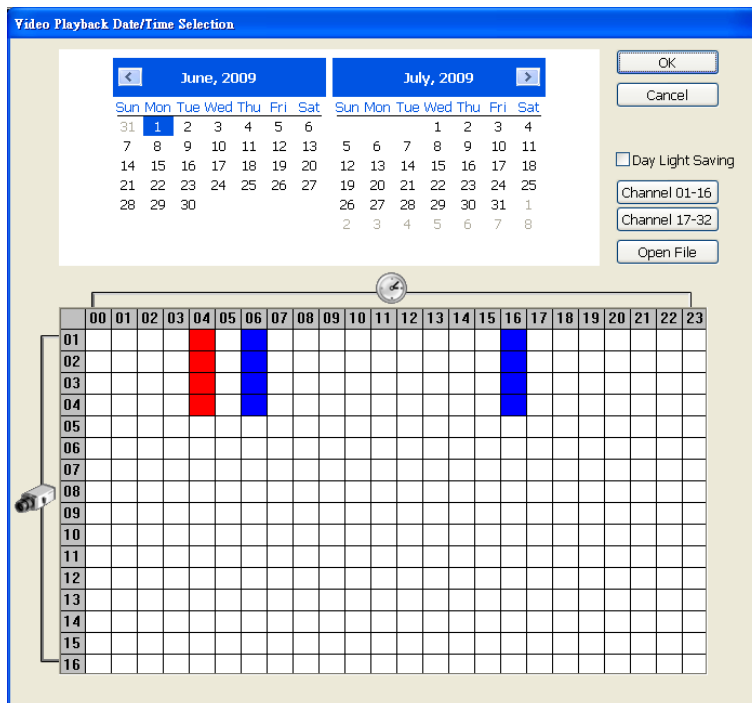


Name	Function
(1) Exit	To exit application
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Playback Control Buttons	<ul style="list-style-type: none"> Begin: Move at the beginning of the recorded video file. Previous: Go back 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	To switch the application UI display language
(6) Export	Export includes Snapshot, Print, and Output Video Clip function. <ul style="list-style-type: none"> ■ 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 2.6.4)
(7) Segment	Keep a portion of the recorded video (see also Chapter 2.6.4).
(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. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.

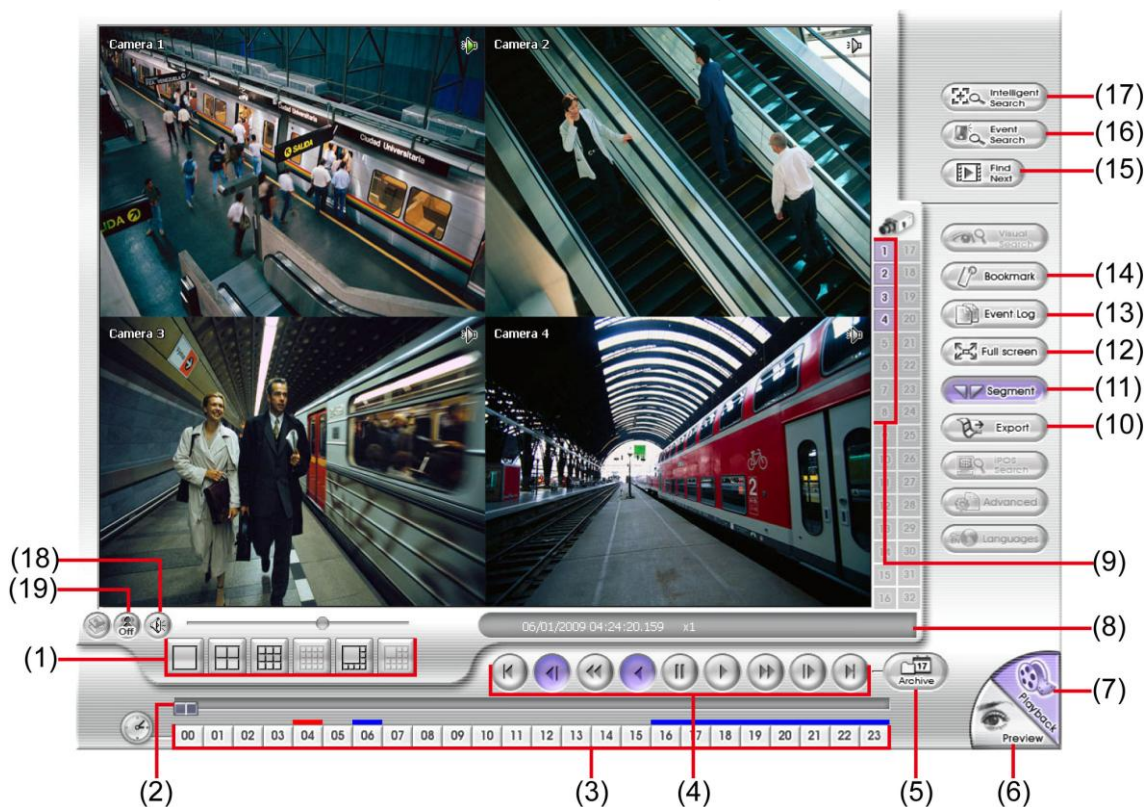
Name	Function
(10) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 2.6.5)
(11) Audio	Enable/disable audio play
(12) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

2.6.3 Playback in RealTime Playback Mode

When selected the RealTime Playback mode, select the date and time to playback from the **Video Playback Date/Time Selection**. 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 08 represent the camera number. Mark **Day Light Saving**, the playback calendar will show the available video records during day light saving time period.



Click **OK** and the RealTime Playback interface as following shown:



Name	Function
(1) Split Screen Mode	Select from 4 different split screen type to playback the recorded video file of all the camera, or one camera.

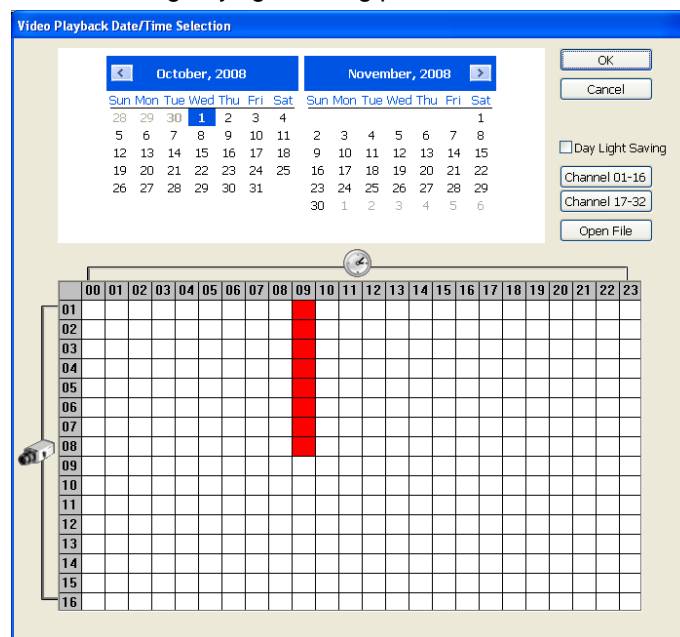
i To zoom in an area on the screen, **Right** click and **Drag** a square on the area you want to enlarge.

(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.

i 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	<p>⏪ Begin: Move at the beginning of the recorded video file.</p> <p>⏮ Previous: Go back to the previous frame.</p> <p>⏴ Slower: Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x.</p> <p>⏮ Rewind: Wind back the recorded video file.</p> <p>⏸ Pause: Briefly stop playing the recorded video file.</p> <p>▶ Play: Play the recorded video file.</p> <p>⏴ Faster: Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.</p> <p>▶ Next: Go to the next frame.</p> <p>⏭ End: Go to the end of the recorded video file.</p>
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- (5) Archive
- Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
 - Also, user can open the recorded file from certain location by click **OPEN FILE** button
 - Mark **Day Light Saving**, the playback calendar will show the available playback records during day light saving period.



i The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 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/Advanced mode.
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Name	Function
(7) Playback	Switch to Playback mode. This allows you 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, Print, and Output Video Clip function. <ul style="list-style-type: none"> ■ 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 2.6.4).
(11) Segment	Keep a portion of the recorded video (see also Chapter 2.6.4).
(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. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(14) Bookmark	Mark a reference point when previewing the recorded video file to which you may return for later reference. You may also set it to protect the file. (See also Chapter 2.6.6)
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (See also Chapter 2.6.7)
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 2.6.8)
(18) Audio	Enable/disable audio play
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

2.6.4 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.

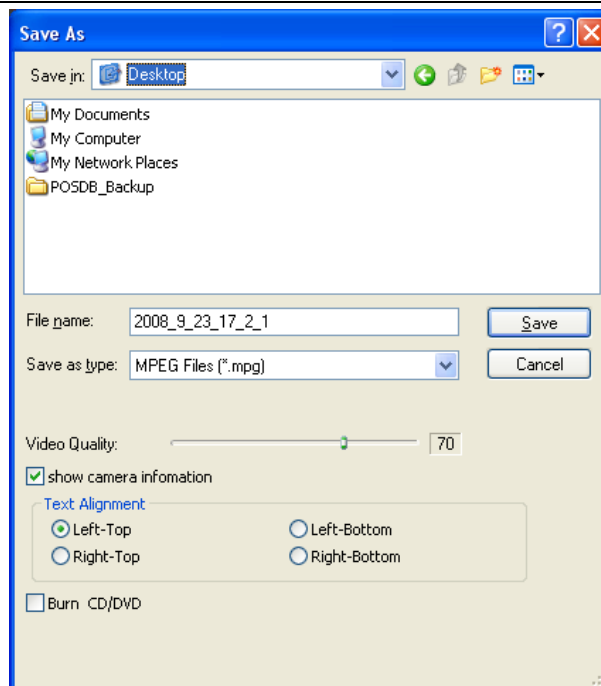


2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again.



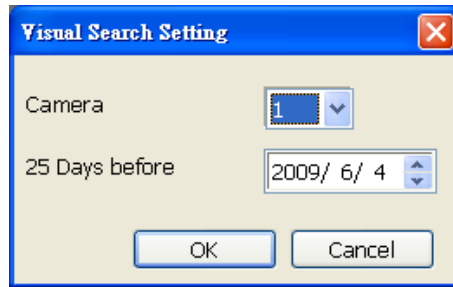
3. Click **Export** → **Output Video Clip** button to save the wanted clip.
4. In the Save As dialog box, locate on where you want to save the file or choose to **Burn** the video segment to CD/DVD disk (only for *.mpeg file format).
5. Select the file type and select the camera information display position when playback. The camera information will be the information of server name that user has defined in Network Setting.
6. If the select the file type is *.avi, user can mark **included audio** to include audio in output video segment.
7. To adjust **Video Quality** if needed.
8. Click **Save** to save the video segment.



i Right-click function is disabling for security issue.

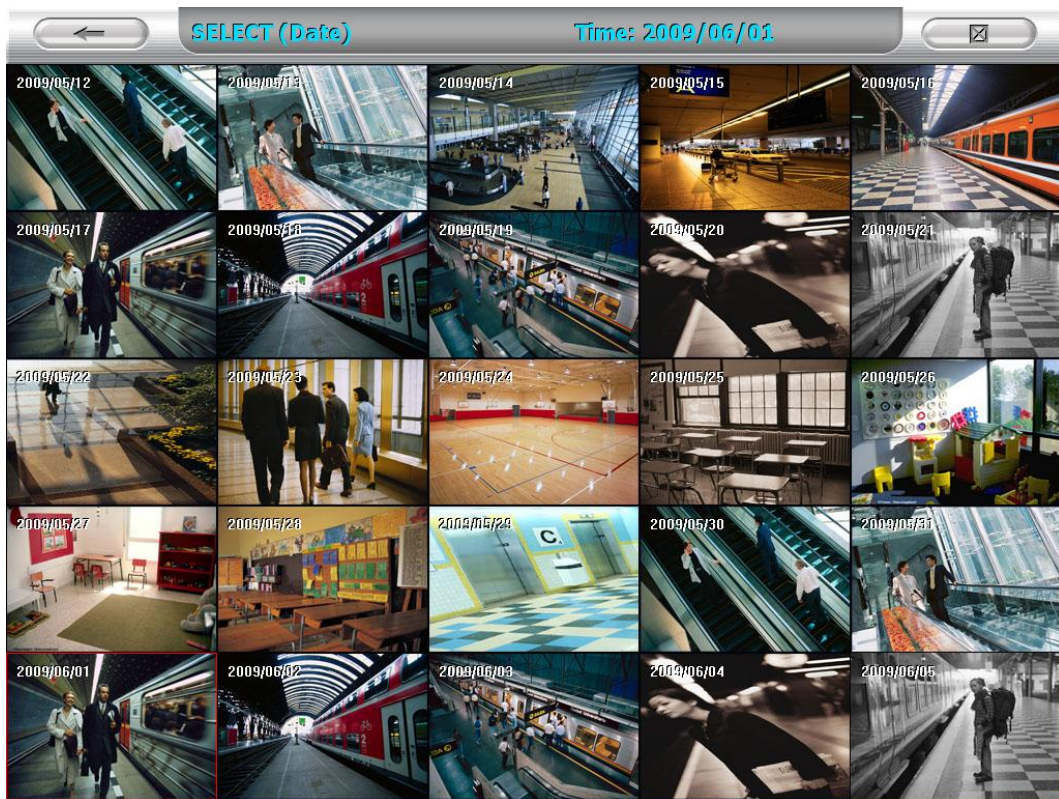


2.6.5 To Search Using the Visual Search

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

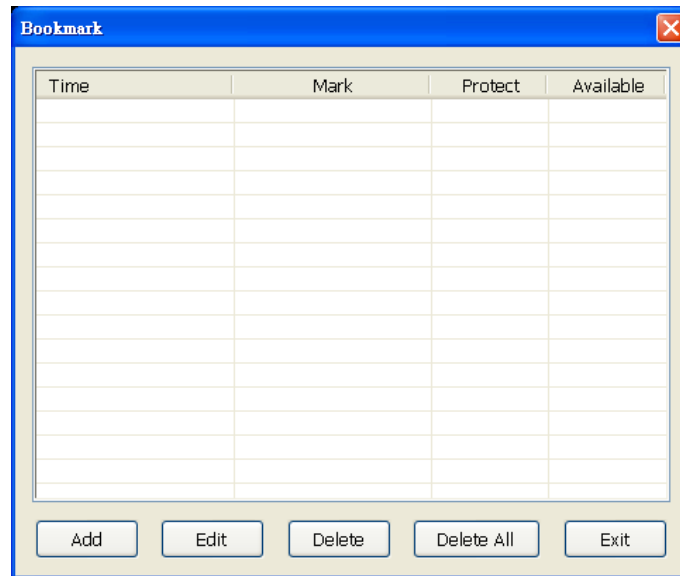


3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour, every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click . To view from the selected frame and close event search, click .

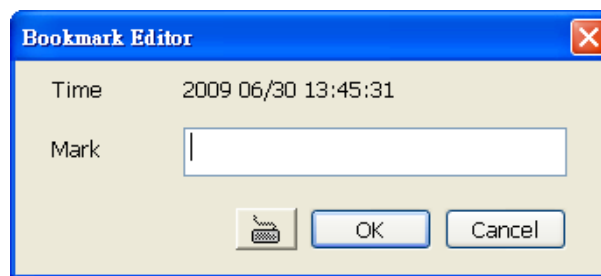


2.6.6 To Bookmark a Video Section

1. Click **Bookmark**. The video playback stops when the bookmark button is executed.
2. In the Bookmark dialog box, you may do the following:



- **Add** to include the new reference mark in the bookmark list.

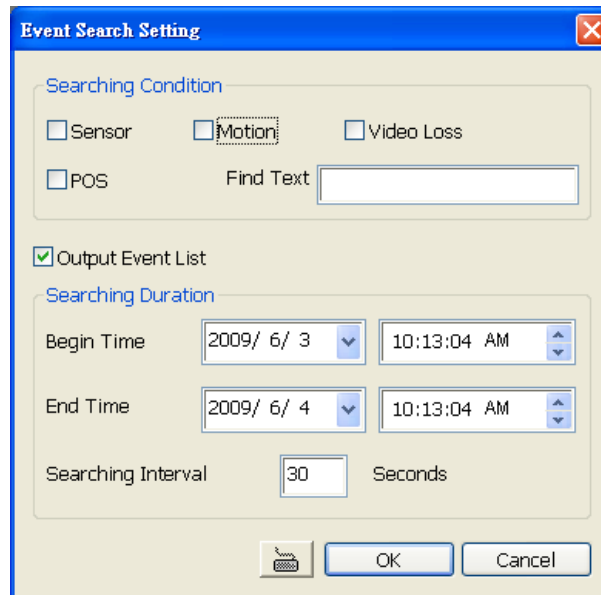



i The protected bookmark file will be deleted when the **Delete the recorded data** is enable in the **System setting**.(also refer to [Chapter 3.3](#))

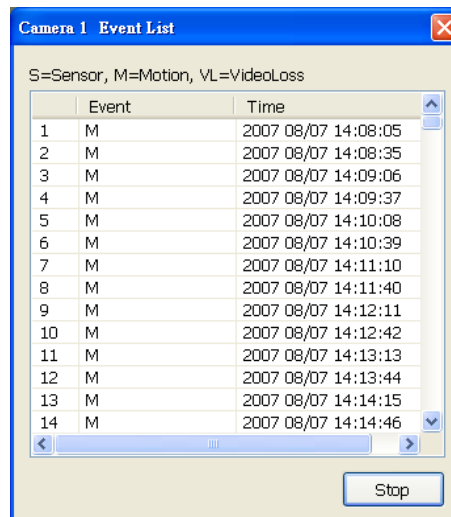
- **Edit** to change the mark description or enable/disable file protection.
 - **Delete** to remove the selected reference mark in the list.
 - **Delete All** to remove all the reference marks in the list.
 - **Exit** to close Bookmark dialog box.
3. Select and click one in the bookmark list to preview the file.

2.6.7 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.

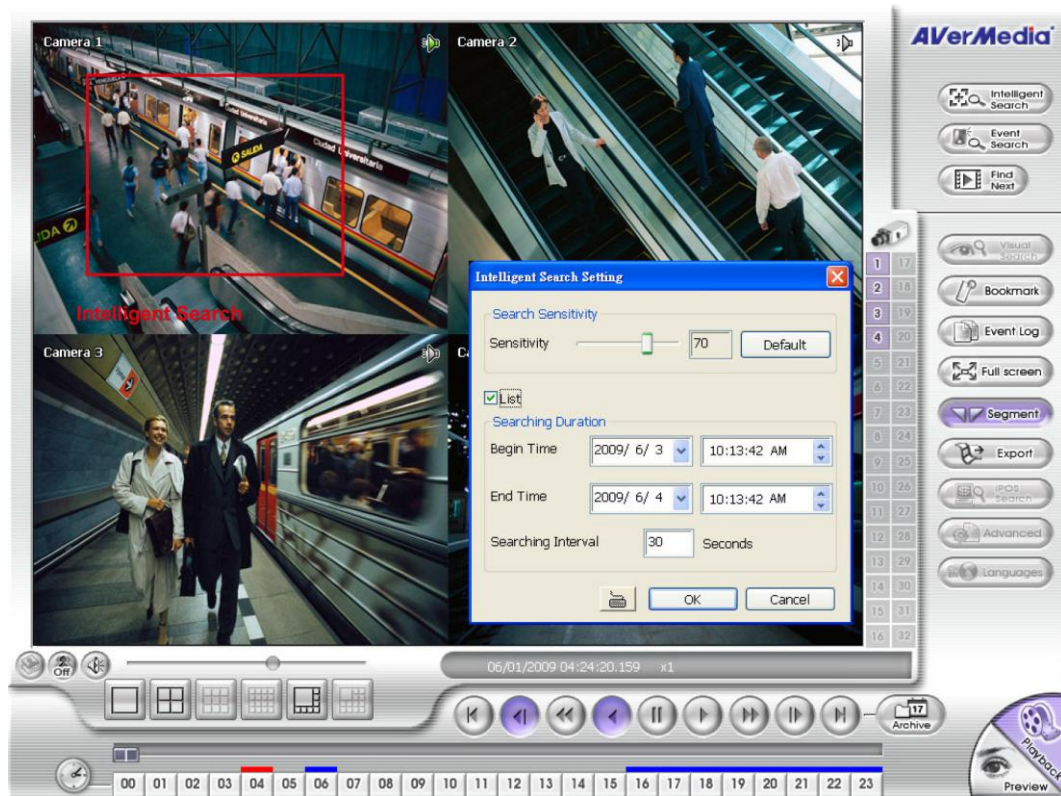



3. In the Event Search Setting dialog box, check the type of condition you want to search. If you select POS, in the Find Text box, type the word. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click .
4. You may also set to search and list all the result. Just check the **Output Event List** box. In the Search Duration section, set the **Begin Time**, **End Time** and **Searching Interval**. Then, click **OK** to start searching.
5. When the Event list appear, click and select the item you want to view.

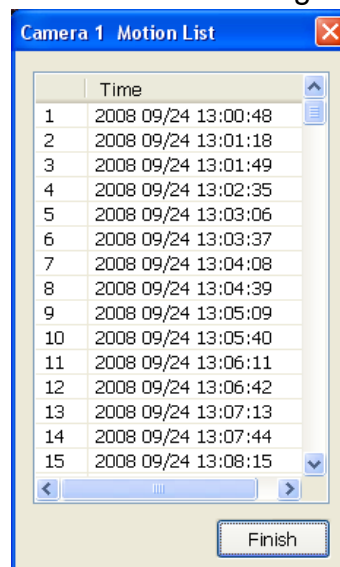


2.6.8 To Search Using the Intelligent Search


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.

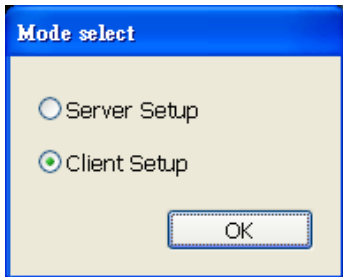


3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click **OK** to start searching. The video search would stop at the Time frame that matches the condition. To keep on searching click .
4. 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**, **End Time** and **Searching Interval**. Then, click **OK** to start searching. The search result will show as below figure:



Chapter 3 Customizing the DVR System

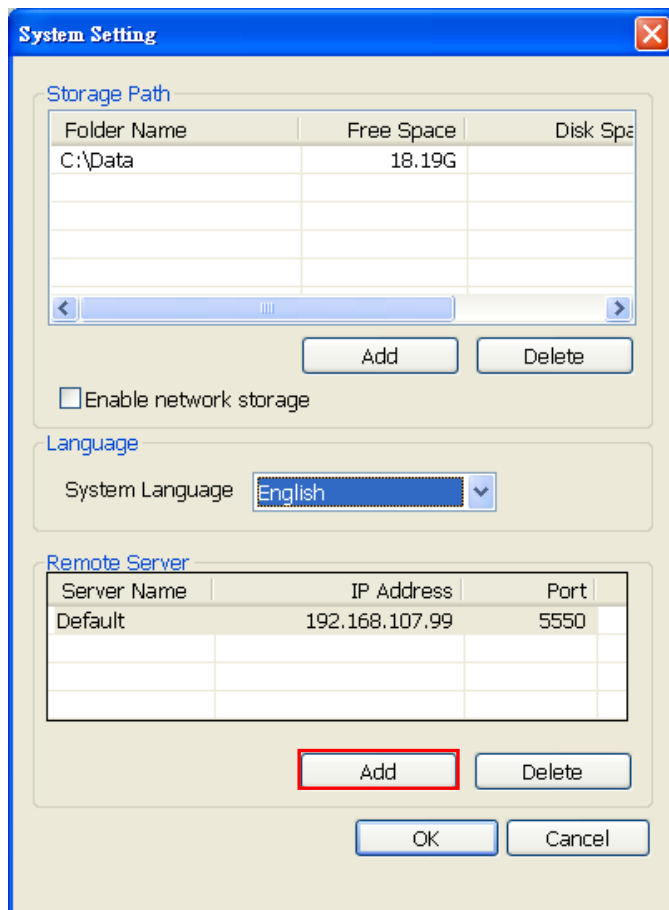
In the Preview mode, click  button to customize your DVR system. In **Mode Select** window, select the setup mode – **Server Setup** or **Client Setup**.



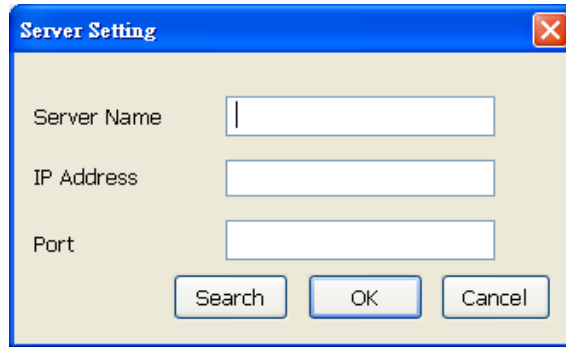
3.1 Client Setup Mode

In **Client Setup** mode, user can add a DVR server for monitoring.

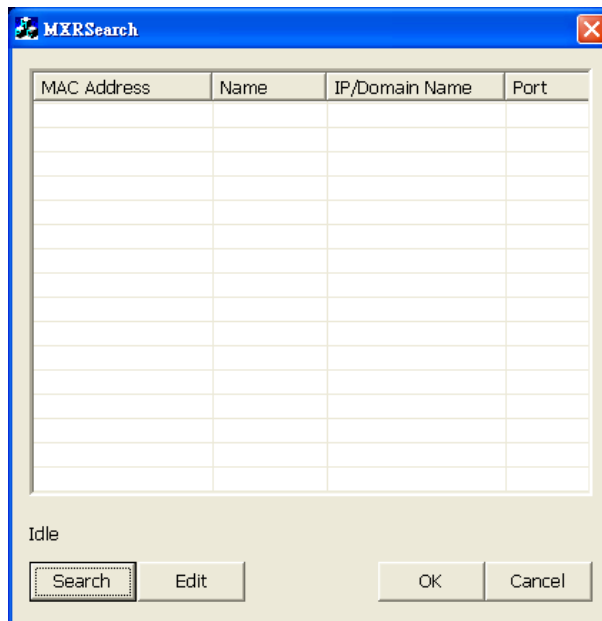
To Add the DVR:



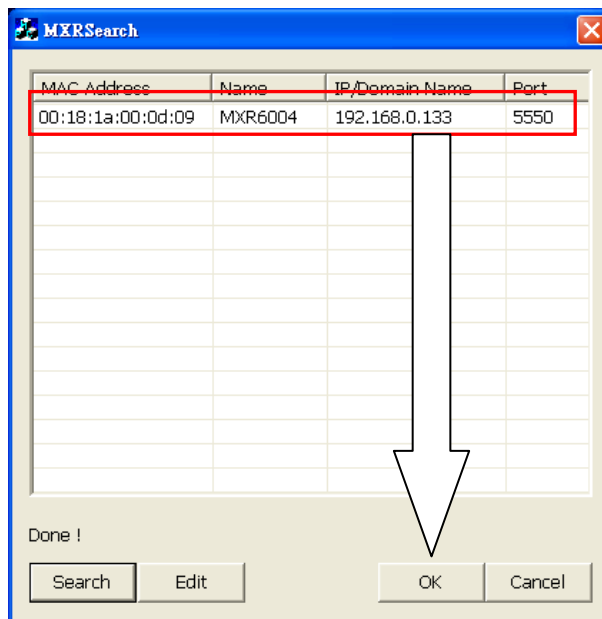
1. Select the **Language** that will be used on the application interface and all dialog window interface in surveillance application.
2. Click **Add** and enter the **Server Name**, **IP Address**, and **Port** of the DVR server. And then, click **OK** to complete the setup.



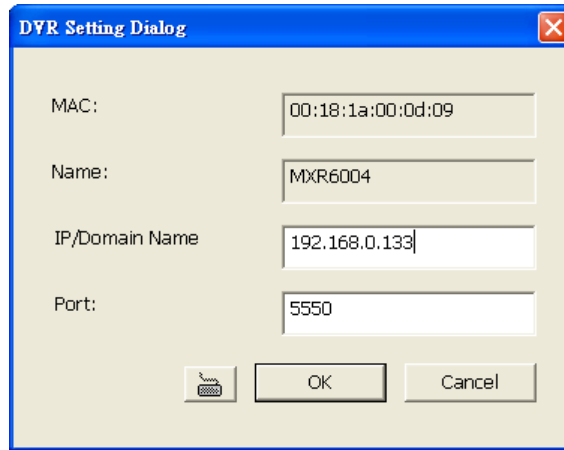
3. If user doesn't know IP Address and port of the DVR server, click **Search** to find the DVR server on your network.
4. Click **Search** to start searching. The search result will list out in MXR Search window. All available MXR DVR servers will be found by searching.



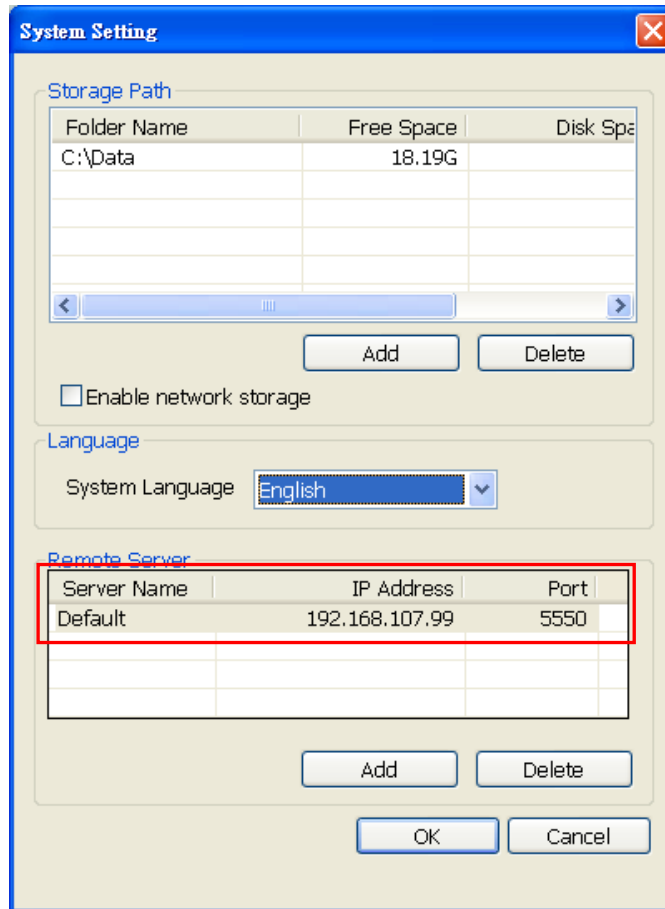
5. Select the DVR server and click **OK**.



6. To modify the DVR server, click **Edit**. User can modify the IP address and port of the DVR server.



7. When the DVR server has been added, click **OK** to complete the setup.

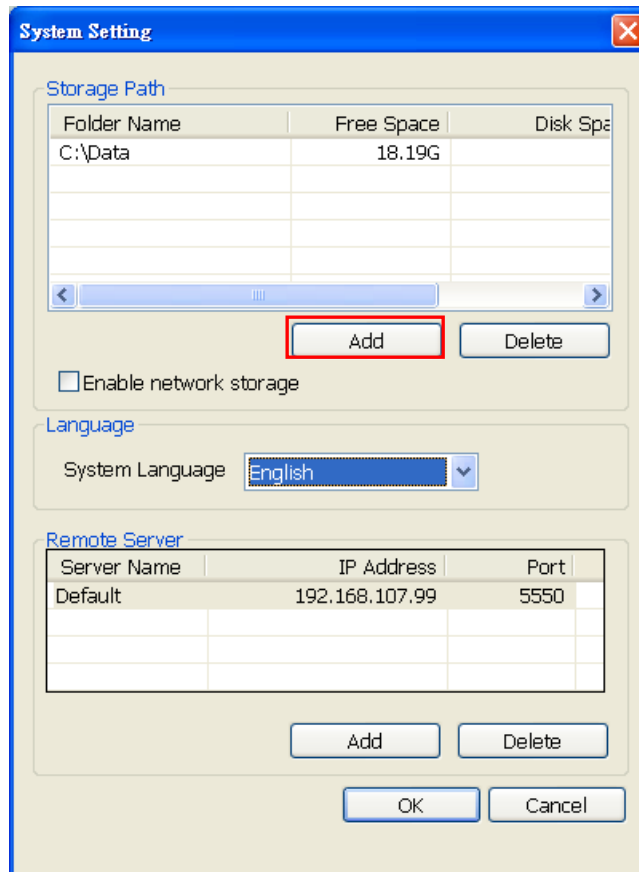


8. To remove the added DVR server, select the DVR server and click **Delete**.

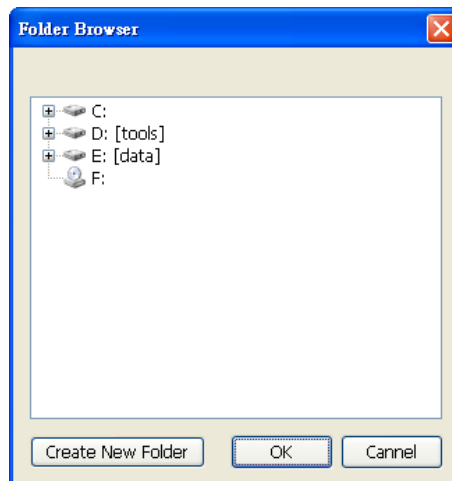
9. To switch to different added DVR server for monitoring, select the DVR server and click **OK**.

To Add the Storage Path:

1. In *Storage Path* section, click **Add**.




2. Select the hard disk direction and click **Create New Folder**.
3. Give a name for new folder.
4. Click **OK**.



5. The new storage path will display in *Storage Path* section.
6. Mark **Enable network storage** to allow network storage path mapping.

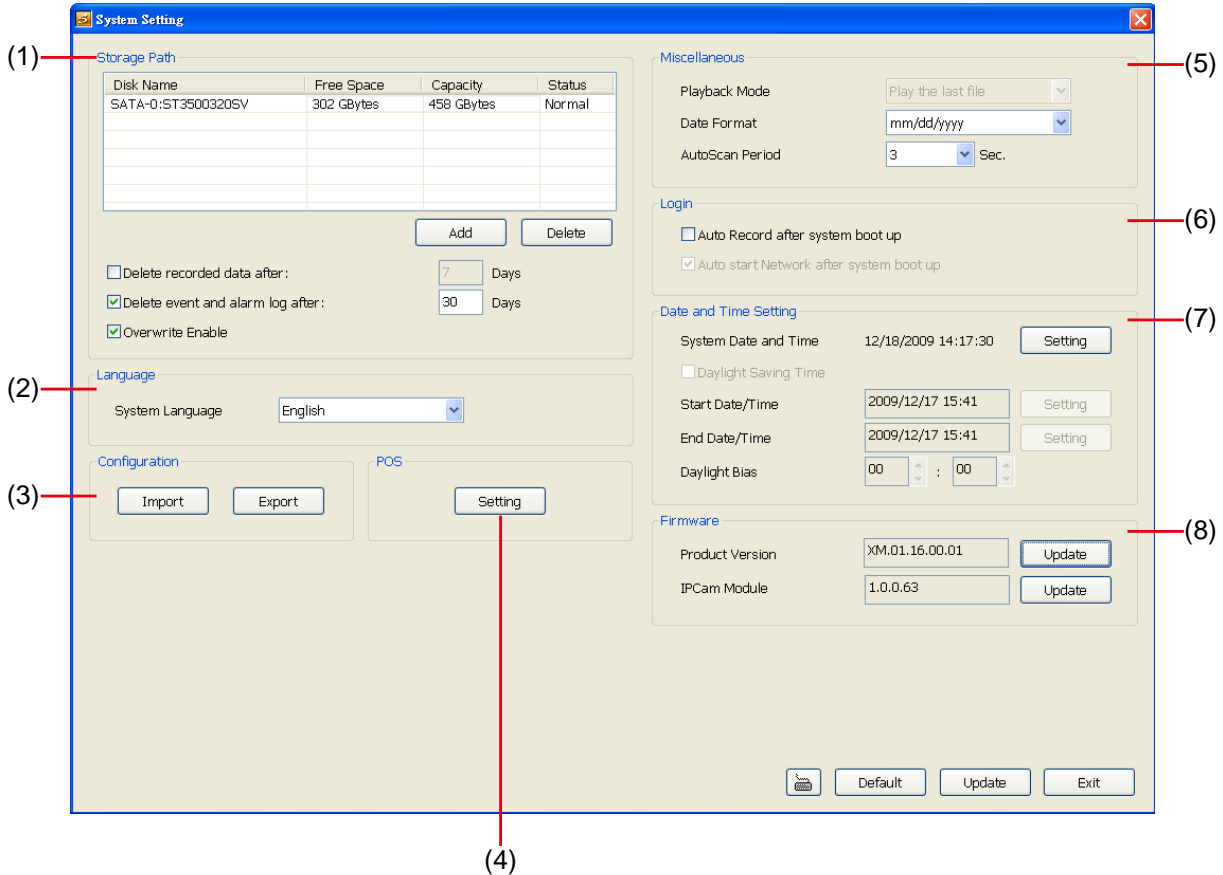
3.2 Server Setup Mode

In the Preview mode, click  button to customize your DVR system. In **Mode Select** window, select the setup mode –**Server Setup**. The DVR configuration setup selection will appear, select and click the buttons you want to change the setting.



3.3 System Setting

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



(1) Storage Path

Display the directory on where to save the data. You may also add additional storage path for extremely high storage capacity. To insert another storage path, click **Add**. To remove the selected path, click **Delete**.

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.

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 numbers of days in **Days**

text box.

Enable **Overwrite Enable**, 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.

(2)Language

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

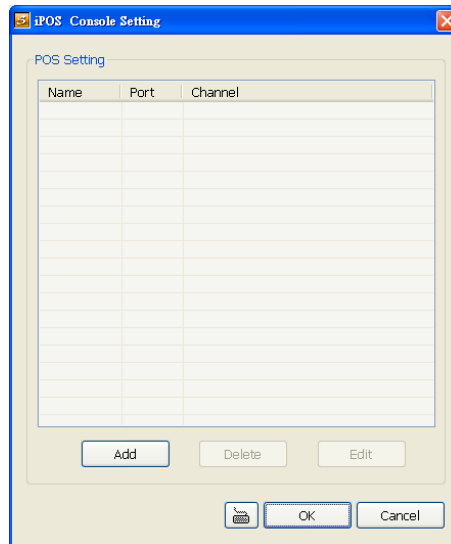
(3) Configuration

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**.

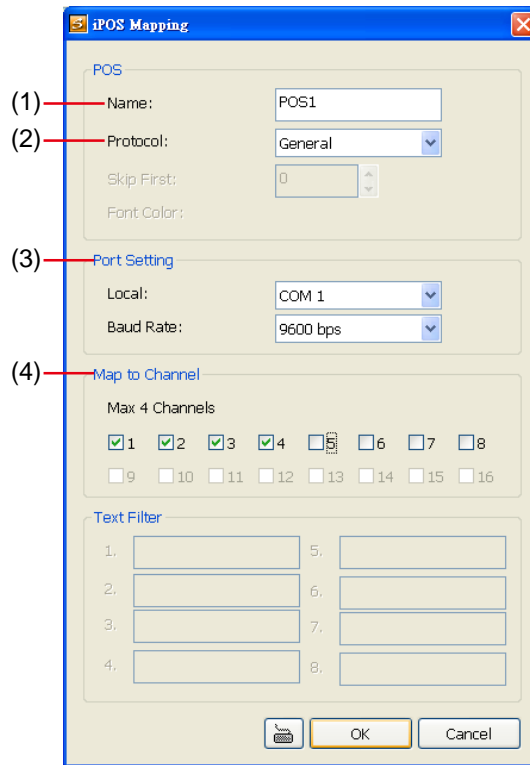
(4) POS setting

Set from which camera screen to display the data from the POS equipment. Click **Setting**, to set the POS Console Setting.

1. In the POS Console Setting dialog box, click **Add** to set a new POS setting, **Modify** to change the POS setting, and **Delete** to remove the selected POS setting. Click **OK** to save and close POS Console Setting.



2. In the POS Mapping dialog box, click **OK** to accept the settings and **Cancel** to exit without saving the new setting.



- (1) **Name:** Enter a name to identify the POS.
- (2) **Protocol:** Select the protocol that depends on the connected of POS system.
- (3) **Port Setting :** Select the **Local**(Com port) where it is connected and **Baud Rate**.
- (4) **Map to Channel:** Select to which camera number to display the transaction text.

(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. To set the instant playback time period, fill in the time in second at **Set Instant Playback's Play Time** column.

- **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**

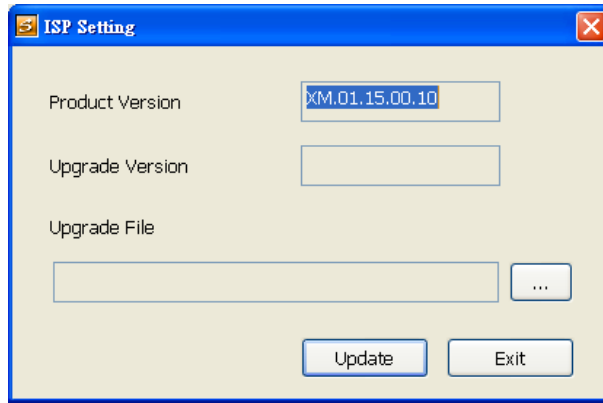
Automatically start video recording when the DVR system is executed.

(7) Date and Time Setting

Adjust the DVR system time and date. Click **Setting** to select the month, date, hour, and minute.

(8) Firmware

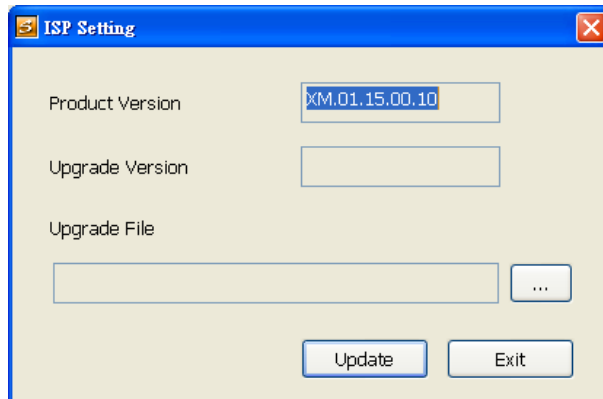
- **Product Version Update:** Upgrading the firmware of DVR system.
 1. Save the firmware under the local hard disk direction.
 2. Click **Update** button, the **ISP Setting** window will show up.



3. Click button to locate the new firmware.
4. Click **Update** to start upgrading.
5. When complete message shows up, it means the update process is completed.
6. The DVR system will re-boot automatically. After DVR system reboot, user can continue operate the DVR system.

■ **IPCam Module Firmware Update:** Update firmware of IP camera.

1. Save the firmware under the local hard disk direction.
2. Click **Update** button, the **ISP Setting** window will show up.



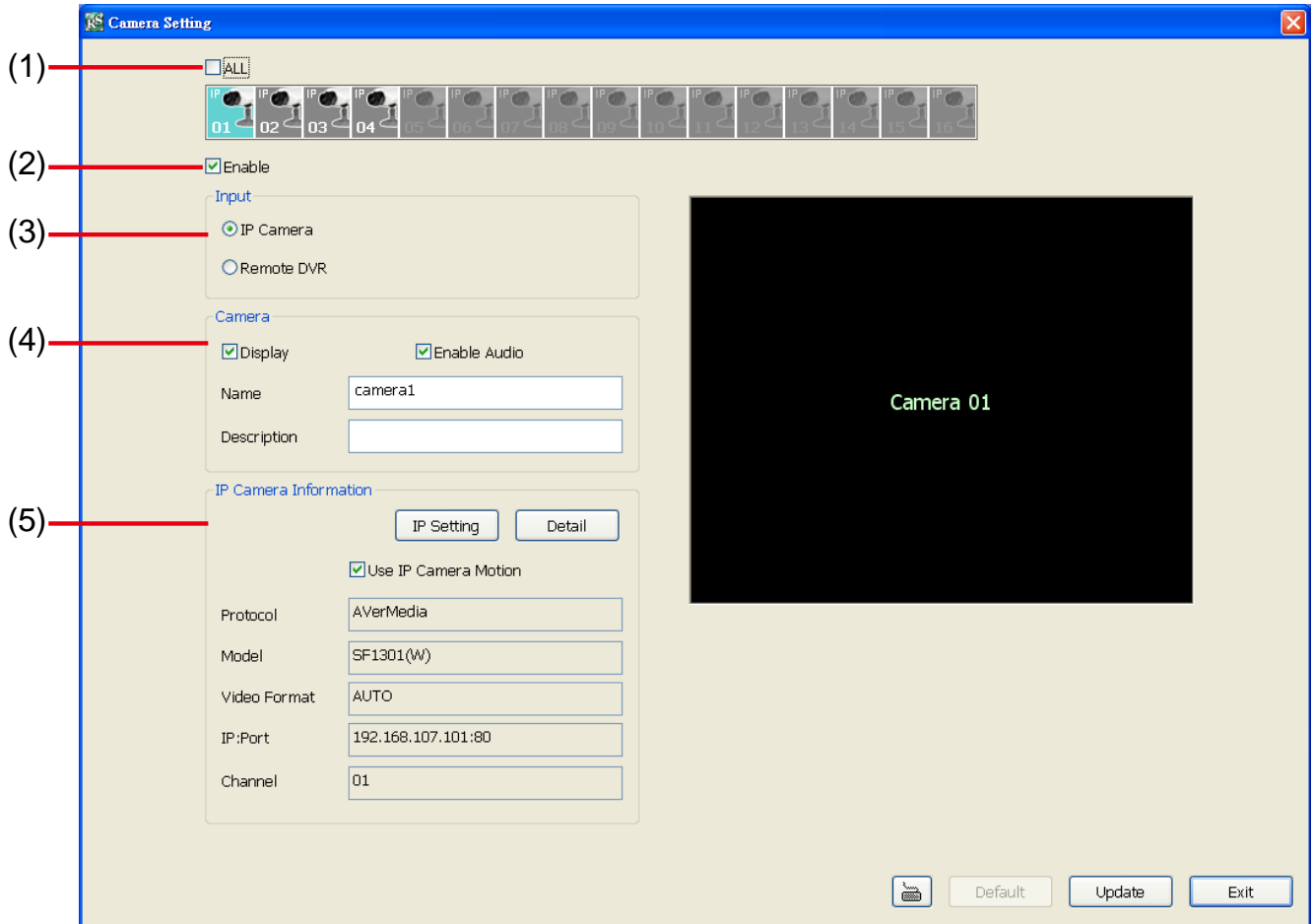
3. Click button to locate the new firmware.
4. Click **Update** to start upgrading.
5. When complete message shows up, it means the update process is completed.

3.4 Camera Setting

The MXR series can support up to 8 IP cameras.

3.4.1 To Setup IP Camera

Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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

Enter the name of the camera that will be seen on surveillance screen.

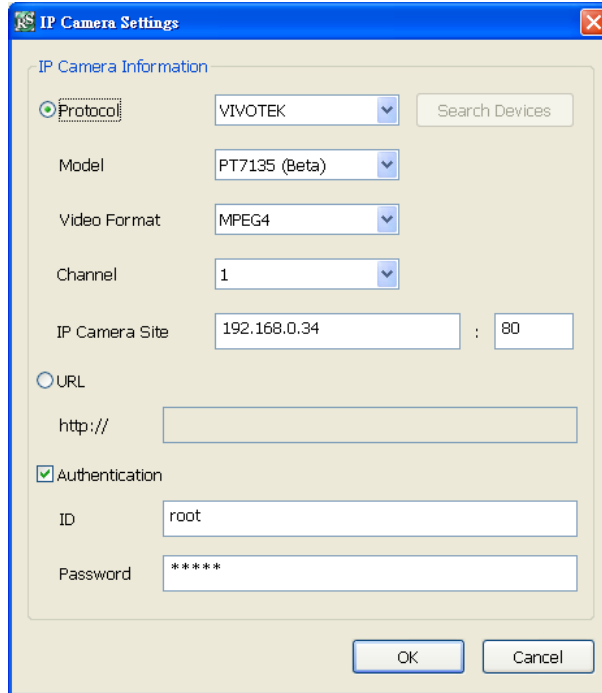
- Description

Add a short comment

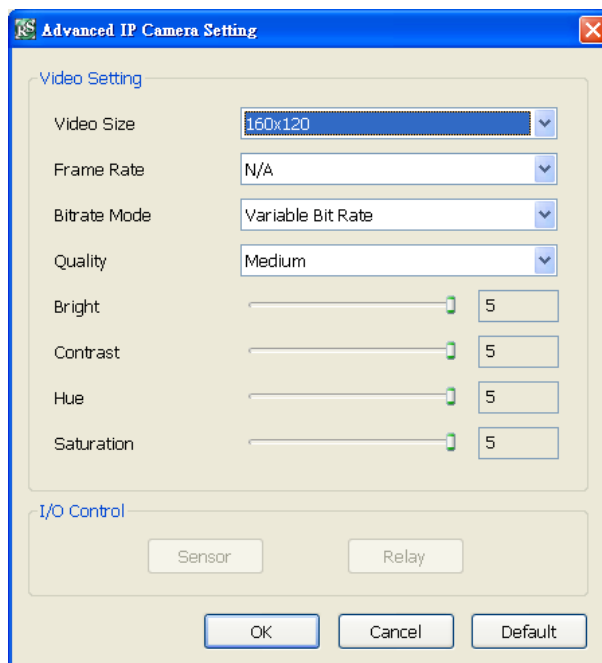
(5) IP Camera Information

To setup IP camera and display current IP camera information.

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



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



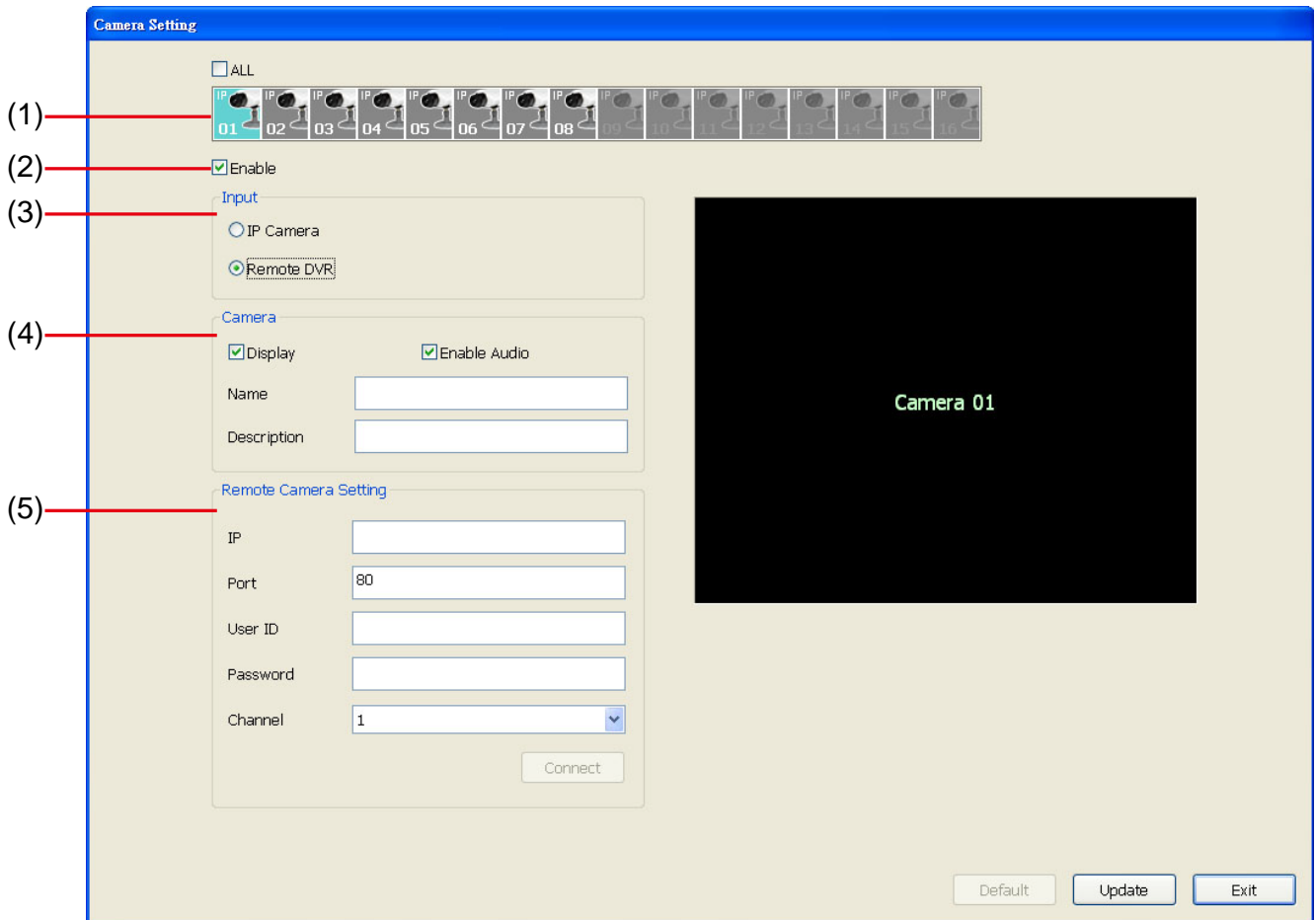
User can select **Video size**, **Frame rate**, **Bitrate mode** and **Quality** of camera. Also, user can adjust **Bright**, **Contrast**, **Hue**, **Saturation**, and **I/O Control** of the camera.



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

3.4.2 To Setup Camera from the Remote DVR

User can add the camera from another DVR through the network. Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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

Enter the name of the camera that will be seen on surveillance screen.

- **Description**

Add a short comment

- (4) **Remote Camera Setting**

- **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**

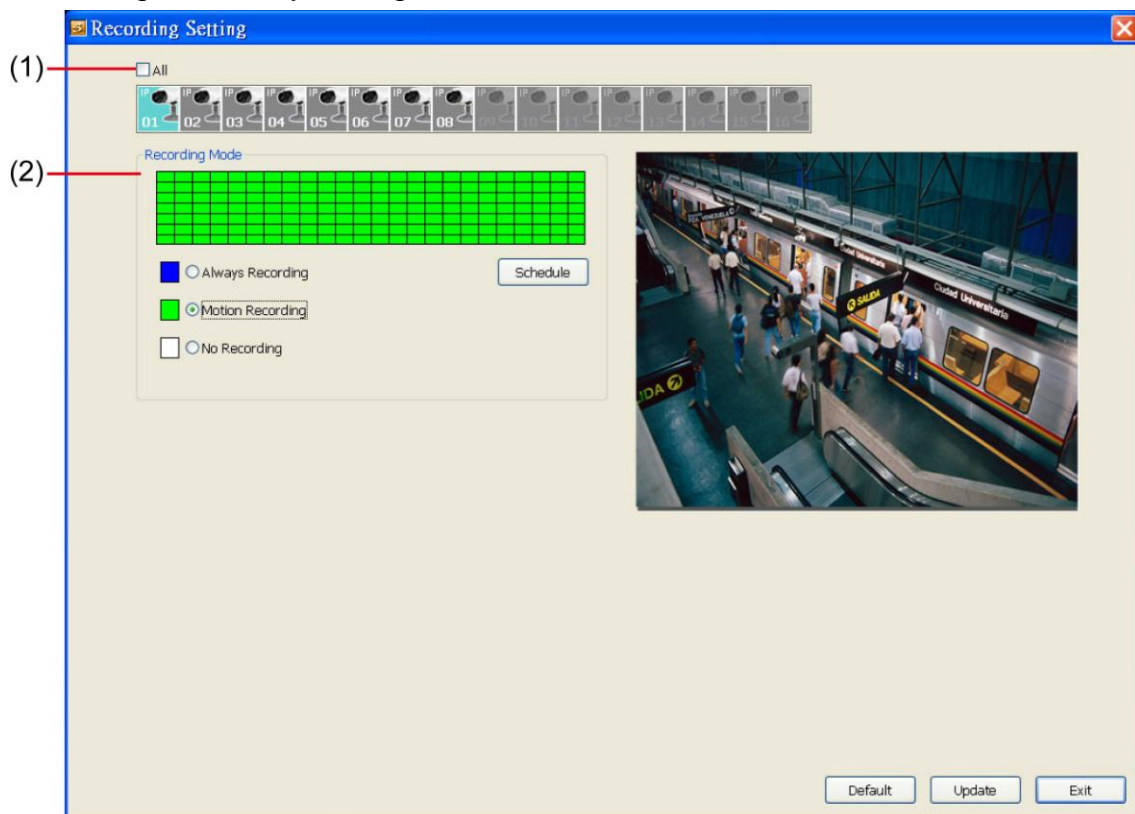
Select the channel of connected camera

- **Connect**

Click to connect the camera when all configurations are set.

3.5 Recording Setting

Click **Update** to accept the new settings, click **Cancel** 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 blocks represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a

week, select the **Always Recording** mode. 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.
- **No Recording**
The system won't do any recording.

3.6 Network Setting

Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.

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

- (1) Server Name: A text input field containing 'Server Name'.
- (2) Transmitting Cameras: A section with a grid of checkboxes for cameras 1 through 16. Camera 1 is checked, and an 'All' checkbox is also checked.
- (3) Main Configuration: A section with 'Server IP' (192.168.0.144) and 'Remote Console PORT' (5550). A 'Setting' button is next to the IP field.
- (4) Remote Update Configuration: A section with 'PORT' (5005).
- (5) WebViewer Configuration: A section with 'Enable Anonymous Login' (checked) and 'WebViewer PORT' (80).
- (6) Network Time Synchronization: A section with 'Time Server' (Sntp Server), 'Time Zone' (GMT+08:00), and 'Automatic synchronize at' (00:00). A 'Synchronize Time Right Now' button is present.
- (7) Other Configuration: A section with 'Enable White List' and 'Network Bandwidth Limit', each with a 'Detail' button.

At the bottom right, there are three buttons: 'Default', 'Update', and 'Exit'.

(1) Server Name

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

(2) Transmitting Cameras

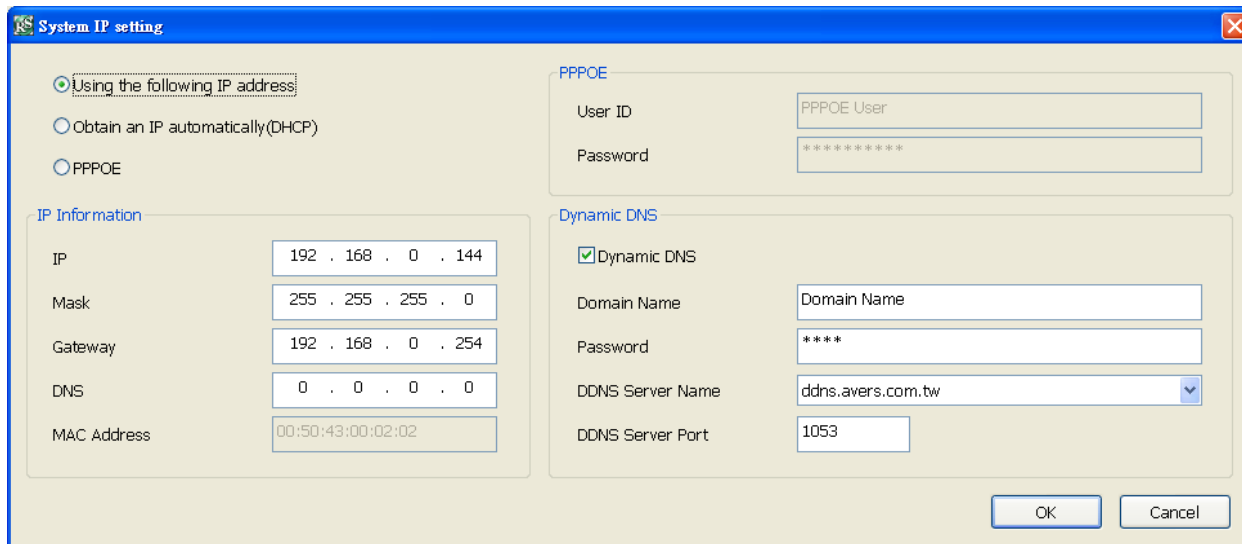
Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer and Remote Console. To select all the cameras, enable the **ALL** check box.

(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. MXR series provides dual Gigabit LAN port to balance the bandwidth usage of the DVR system. User can configure one LAN port is for receiving data from IP camera. And the other one is for remote accessing to DVR system for recorded video viewing. Click **Setting** to setup DVR IP.



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



■ **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
- **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) WebViewer Configuration

Fill in the **WebViewer PORT** for remote accessing connection.

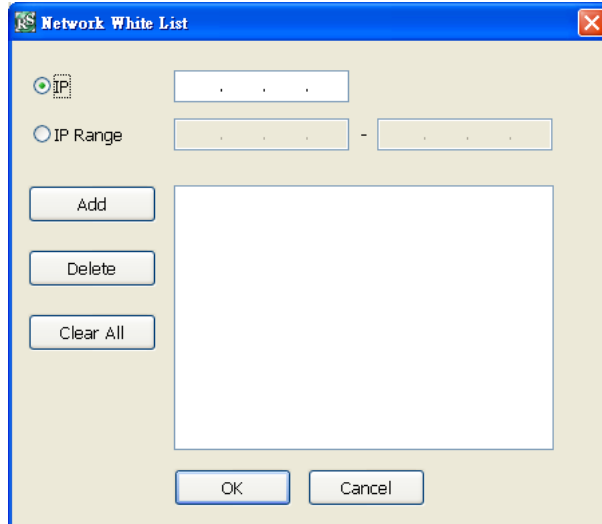
(6) Network Time Synchronization

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

- **Enable White List**

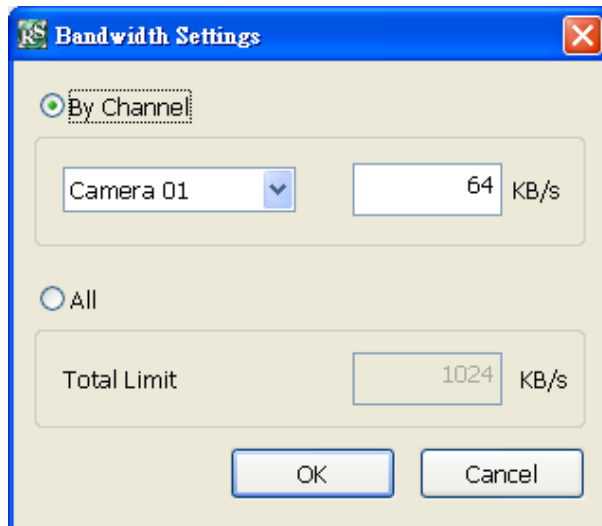
An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



- **Network Bandwidth Limit**

By Channel: Set the network bandwidth by each channel.

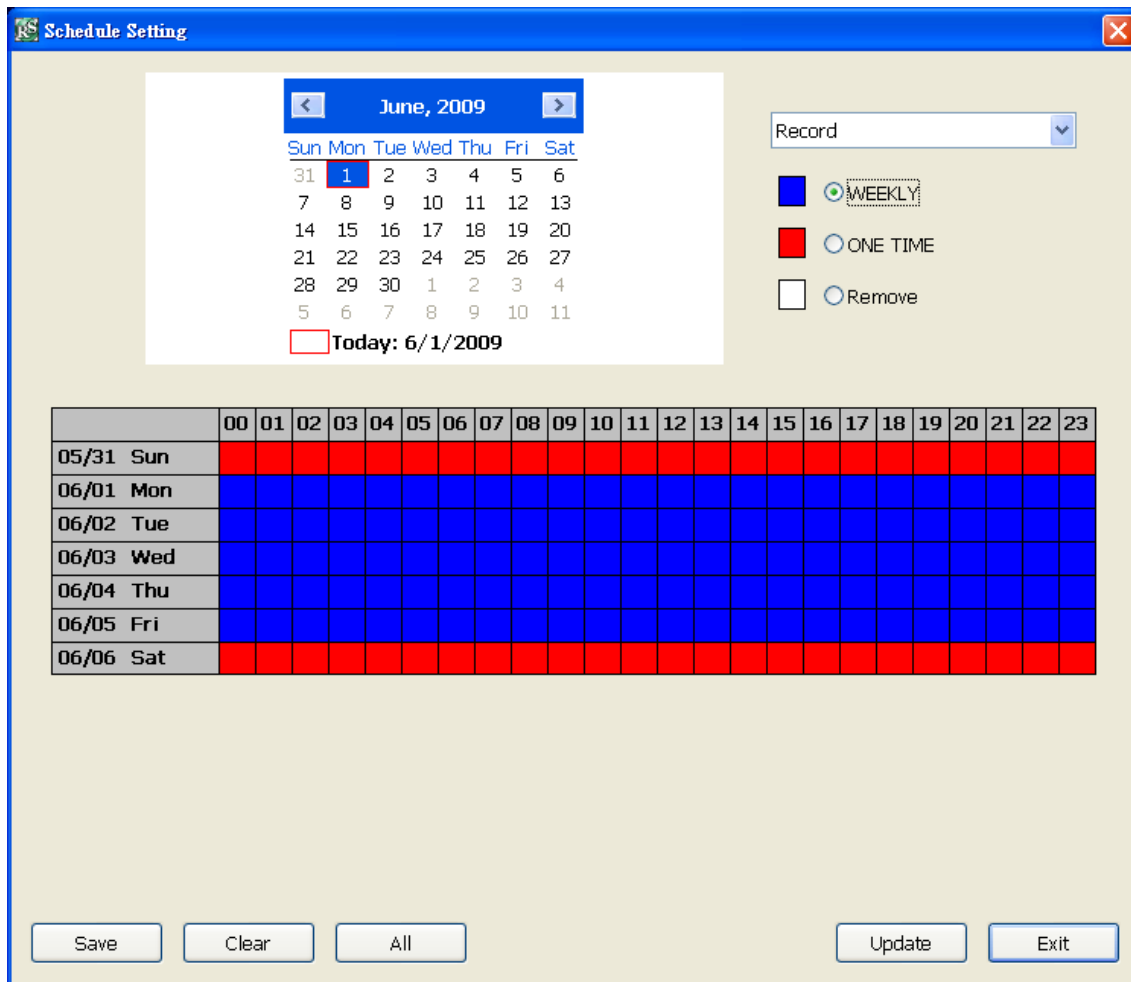
All: Set the total network bandwidth consumption limit.



3.7 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.

Click **Update** to accept the new settings and click **Save** to save the schedule setting. Click **Clear** can clear all schedule selecting and to select all click **All**. To exit click **Exit**, and click **Default** to revert back to original factory setting.



To Set the Schedule Setting:

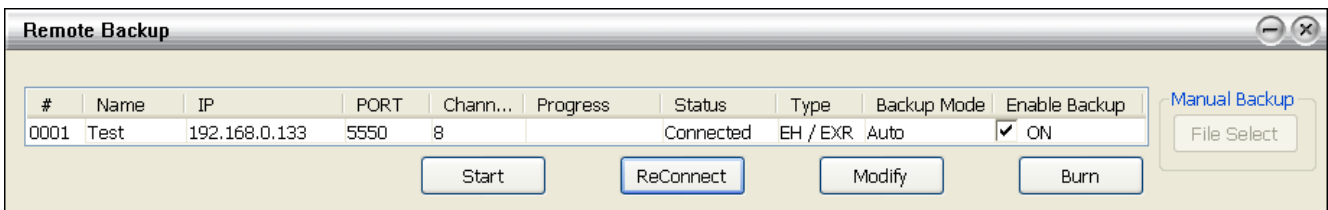
1. Select the date in the calendar. Use and buttons to shift the calendar to the left or right.
2. Select the condition you want to schedule in the drop down list.
 - **Record**
Activate all the cameras to start video recording at the set time based on the Recording setting
 - **Enable Network**
Activate 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.

- Click on the blocks to set the schedule or click **All** to select all. To un-select the specific schedule blocks, click the **Remove** and click blocks to un-select. To store the setting, click **Save**. To remove the settings, click **Clear**.
- To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

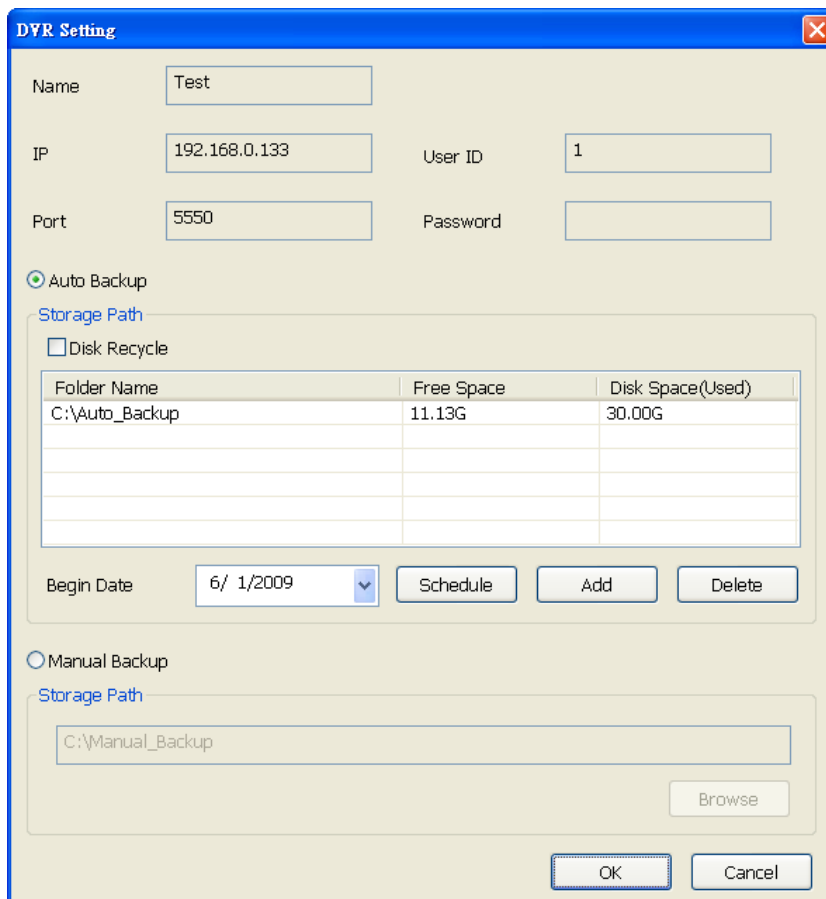
3.8 Backup Setup

The backup is purely for backing up the *.dvr file from the DVR sever. You can select to back in Auto Backup or Manual Backup mode. Auto Backup continuously archives one hour of the recorded data at a time, starting from the specified date. As for Manual Backup, it only archives the recorded data of selected date.

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



- Click **Modify** to set the backup schedule.

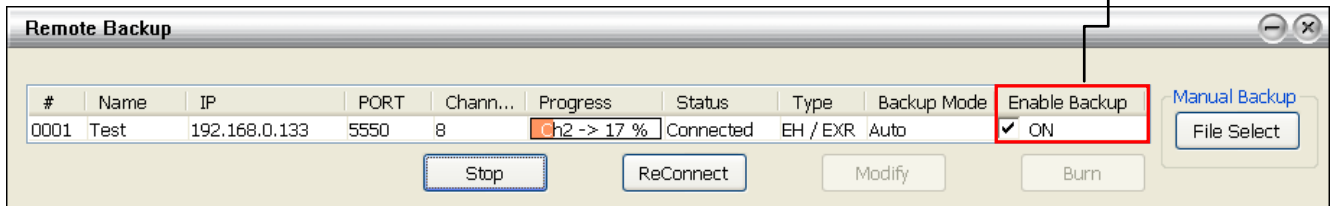


- Select the Backup mode:
 - Auto Backup mode:** the backup will automatically execute when the setup is completed
 - In Begin Date drop down calendar, select the date from where to start
 - Click **Add** to set the storage path.
 - Click **Delete** to remove the selected storage path.
 - Click **Schedule** to select/unselect the time you want to backup. The red block turns

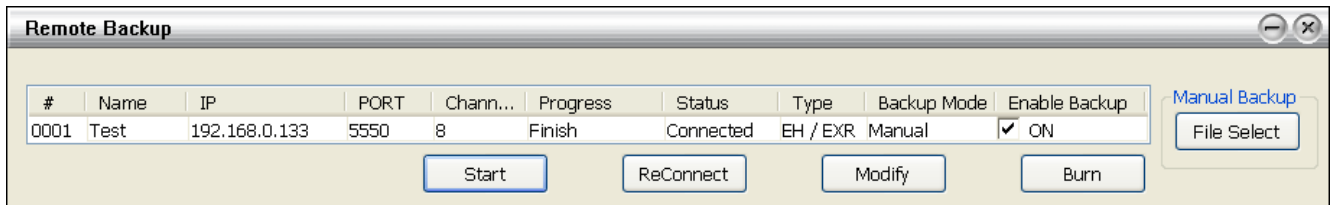
white when it is unselected.

- 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 **Browse** to set the storage path.
3. Click **OK** to complete the setting.
 4. Click **Start** to backup and click **Stop** to stop backup progress. If the connection with DVR server is disconnect, click **ReConnect** to connect with DVR server again.

Un-mark check box to switch auto backup status off



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



6. The backup file can be saved on DVD disk. Click **Burn** and follow the direction to save the backup file on the DVR-ROM disk.

3.9 Sensor Setting

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

1. Click the drop-down list and select the sensor ID number.
2. Enter sensor name in **Name** column.
3. The system automatically detects the card and input number. 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 **Update** to accept the setting and **Exit** to exit without saving the setting.

The screenshot shows a 'Sensor Setting' dialog box with the following fields and controls:

- Sensor 1** (drop-down menu)
- Name**: Sensor 01
- External IO** (button)
- Content** section:
 - Card No.**: 1
 - Input No.**: 1
 - Description**: Sensor 01 TEST
- Test** section:
 - Test** (button)
- Update** (button)
- Exit** (button)

3.10 Relay Setting

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

1. Click the drop-down list and select the relay ID number.
2. Enter relay name in **Name** column.
3. The system automatically detects the card and input number. 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 **Update** to accept the setting and **Exit** to exit without saving the setting.

The screenshot shows a software window titled "Relay Setting". At the top left is a small icon and the title "Relay Setting", and at the top right is a close button (X). Below the title bar is a dropdown menu currently showing "Relay 1". Underneath is a text input field labeled "Name" containing "Relay 01". To the left of the "Name" field is a checked checkbox labeled "Enable". To the right of the "Name" field is a button labeled "External IO". Below these is a section titled "Content" in blue text. It contains three input fields: "Card No." with the value "1", "Input No." with the value "1", and a larger text area labeled "Description" containing "Relay 01 TEST". Below the "Content" section is another section titled "Test" in blue text, which contains a button labeled "Test". At the bottom of the window are two buttons: "Update" and "Exit".

- In **No./Name/Description** enter alarm name and description. Alarm **No.** will be created by DVR system.

The screenshot shows a form with three input fields: 'No.' containing '1', 'Name' containing 'Alarm 1', and 'Description' which is empty.

- In **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.

The screenshot shows a row of 24 colored blocks representing hours from 00 to 23. All blocks are currently blue. To the right of the row is an 'Enable' checkbox, which is also checked.

- In **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.

The screenshot shows two radio button options: 'Trigger if any' (which is selected) and 'Trigger if all'.

- In **Camera** section, select and click on the camera number in **Video Loss** to set the condition for the system to alarm.

The screenshot shows three sections: 'Motion Detected', 'Video Loss', and 'Audio Detected'. Each section has a row of 16 numbered blocks. In the 'Video Loss' section, block '03' is highlighted in pink.

- In **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. Click **IP Camera Sensor** to configure sensor status of IP camera. Click **High/Low** to set sensor status to high or low.

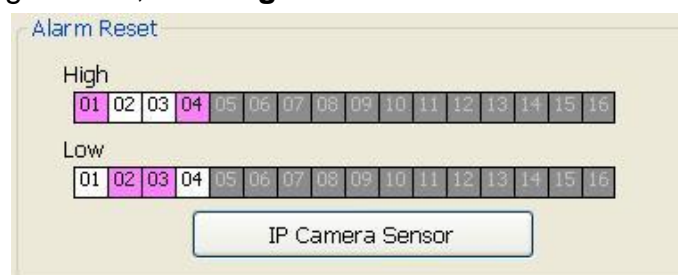
The screenshot shows 'High' and 'Low' sections, each with a row of 16 numbered blocks. In the 'High' section, block '03' is highlighted in pink. In the 'Low' section, block '04' is highlighted in pink. Below these is a button labeled 'IP Camera Sensor'. Further down is a 'Continuous trigger duration' field set to '0' seconds. At the bottom, there is a checkbox for 'Abnormal Event' and a 'Detail' button.

- **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.
- **Abnormal Event:** Enable/disable the condition of the event for system to alarm.

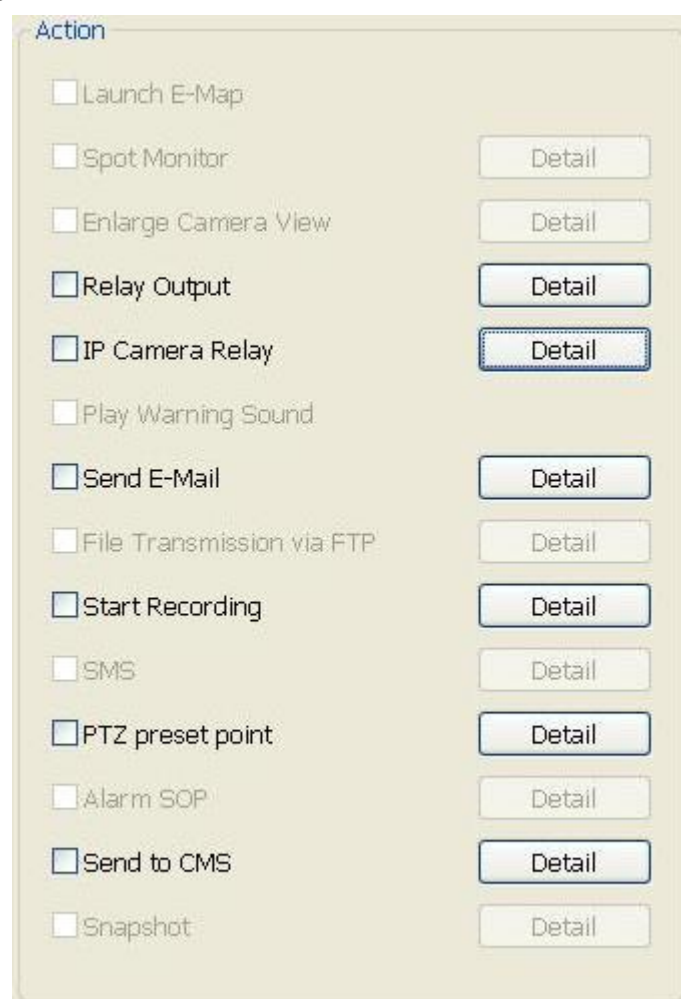
The screenshot shows a dialog box titled 'Abnormal Event' with a list of checkboxes: 'Reboot', 'Abnormal Reboot', 'Recording is switched off', 'Network is switched off', and 'Hard Disk failed'. At the bottom are 'OK' and 'Cancel' buttons.

- **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.

7. In **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. To set sensor status of IP camera, click **IP Camera Sensor**. In IP Camera Alarm Setting window, click **High/Low** to set sensor status.



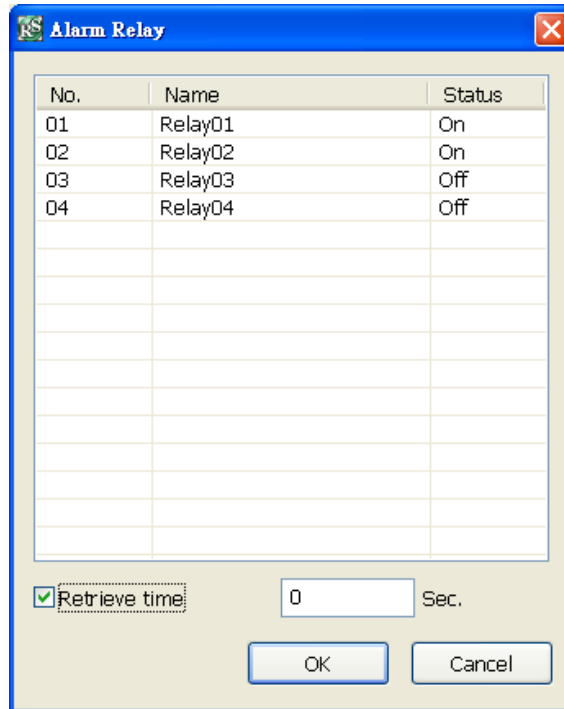
8. In **Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.



- **Relay Output**

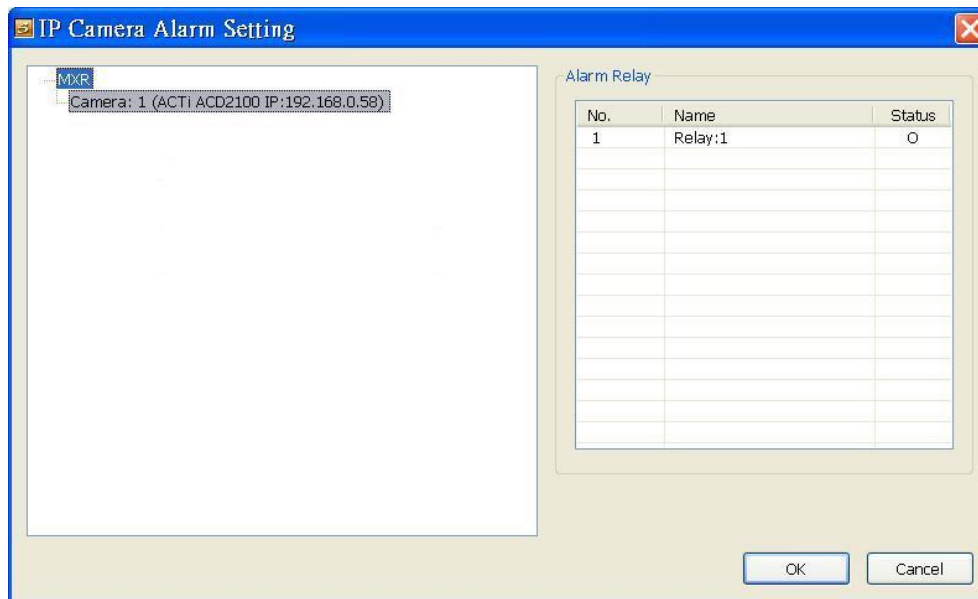
Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

1. Beside 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. In **Status** column, click to change the relay device status – circle means the status is on and blank means is off status.



- **Send E-mail**

Send an electronic text message. Beside 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.

■ **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**.

■ **Mail**

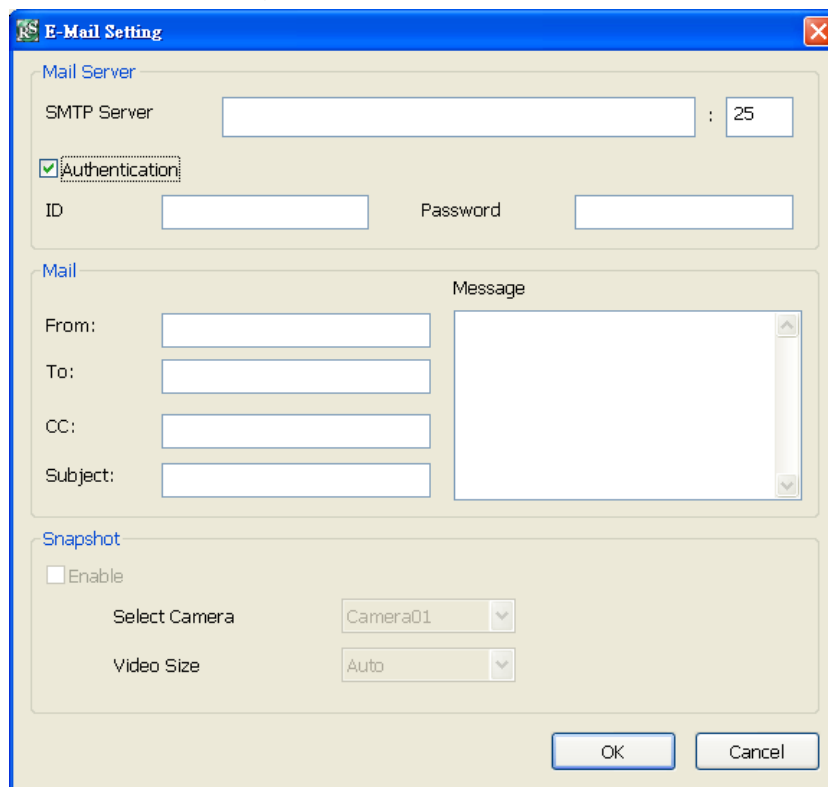
Fill the mailing information.

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.

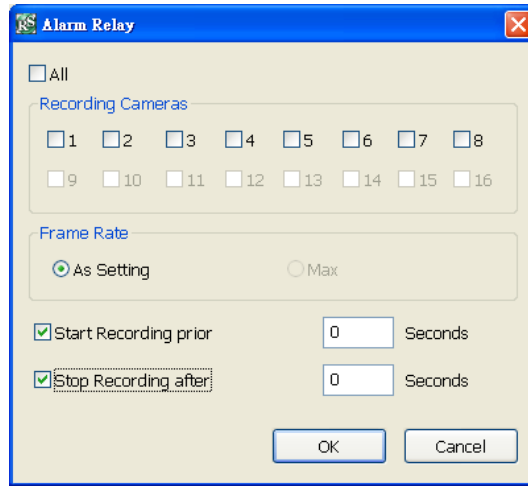
Message: Type the message.



- **Start Recording**

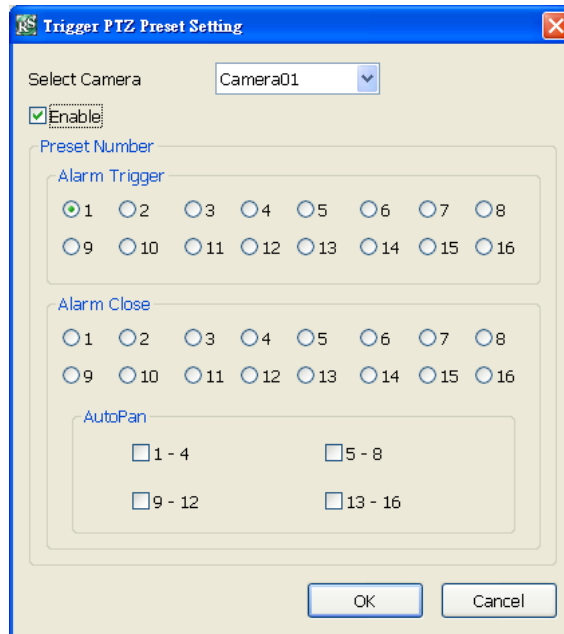
Record the video from the selected camera.

1. Beside 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.



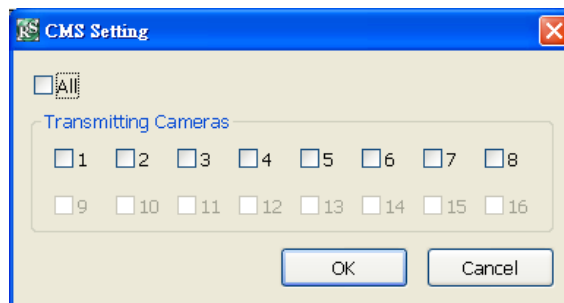
- **PTZ preset point**

Position the PTZ camera based on the preset point setting. Next to 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. Beside 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.



(1) Authorization level

Select the status of the user.

(2) Control Right

Enable the items that would allow the user to access.

(3) Web Viewer

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

- **Remote Console**

Allow the user to remote modify 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 Web Viewer.

- **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 USB Playback Console

4.1 Recommended system requirements

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

4.2 Installing the USB Playback Console

To install the USB Playback Console:

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




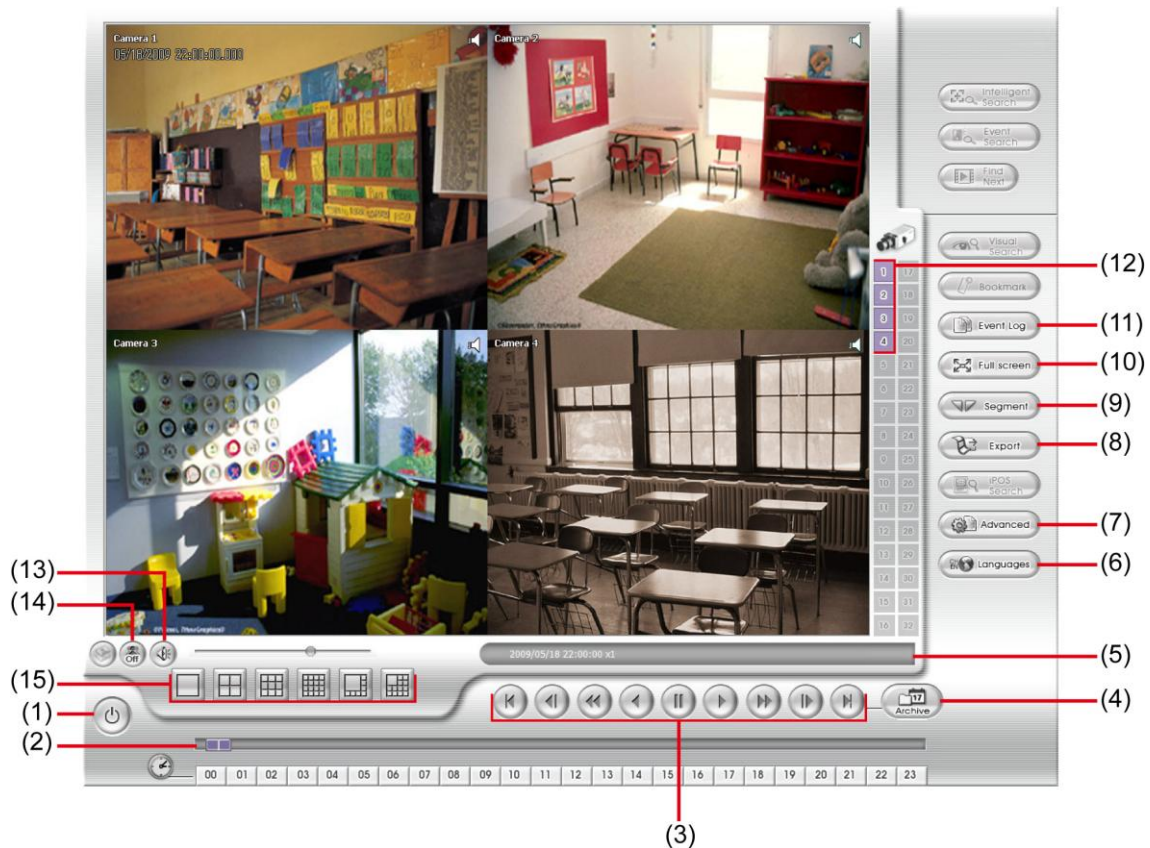
2. Select the language you prefer












3. Click **OK** to install the application
4. Click **Exit** to close the installation main screen.
5. You may now connect the DVR unit to PC by using USB cable.

4.3 Running the USB Playback Console

To run the application, click the  icon on the PC desktop



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 Controller	From left to right order. <ul style="list-style-type: none">  Begin: Move at the beginning of the recorded video file.  Previous: Go back to the previous frame by 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 by frame.  End: Go to the end of the recorded video file.

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

(4) Open File To select the video file source for playing.



- **DVR Recorded File (HD):** To playback the recorded video from the hard disk which was recording video on the DVR system. (see also [Chapter 4.3.2](#))
- **Backup File(.dvr):** The file is backup and save in *.dvr file format. (see also [Chapter 4.3.3](#))
- **Backup File (.avf):** The file is backup and save to external USB storage device in *.avf format. Select the file source folder and click **OK** to playback (**MXR DVR doesn't support this function).

(5) Status bar Display the recorded date, time and play speed.

(6) Language To switch language of function tips.

(7) Advanced Advanced function is including :

- **HDD Backup:** to call out HDD Backup application. (see also [Chapter 4.3.4](#))
- **iEnhance:** to call out iEnhance application. (see also [Chapter 7](#))

(8) Export Export includes Snapshot, Print, Output Video Clip, and Export KML function.

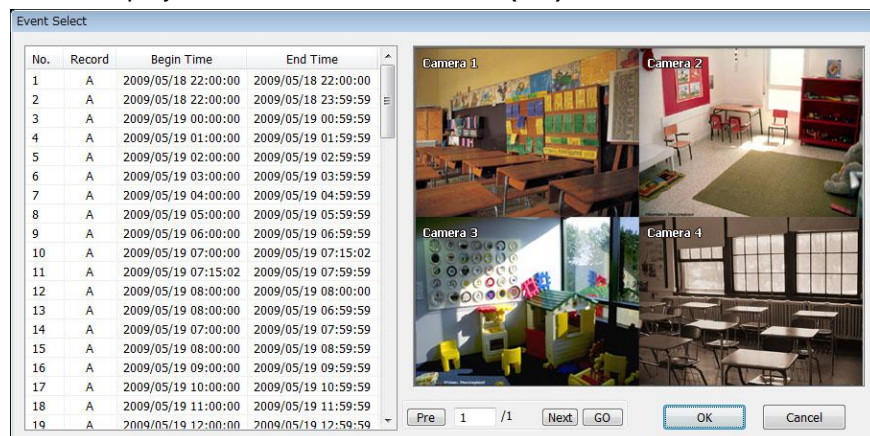
- **Snapshot:** Capture and save the screen shot either in *.jpg or *.bmp format.
- **Print:** Print the screen shot.
- **Output to AVI:** Save the segmented file in *. mpg, *.dvr, or *.avi format

(9) Segment Keep a portion of the recorded video (see also [Chapter 4.3.1](#))

(10) Full screen Use the entire area of the screen to only display the video. 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.

(11) Event List Select the event you want to playback. The event list only available when user select to playback in **DVR Recorded File(HD)**.



(12) 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.

(13) Sound /Sound bar Turn on and off the sound
Increase and decrease the volume

(14) 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.

Name	Function
(15) Split Screen Mode	Select from different screen view to playback the recorded video file of the entire camera or one camera on screen.



If there are only 8 cameras, user won't be able to switch 9, 13, 16-split screen mode.

4.3.1 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.



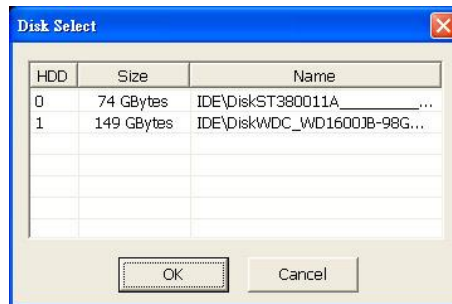
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.



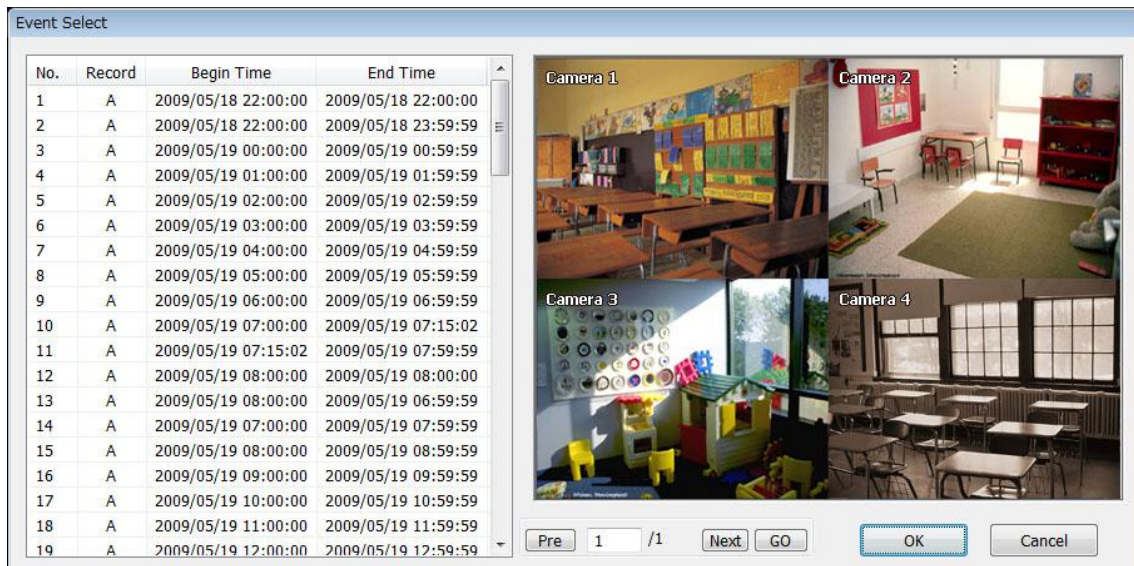
3. Click **Output** button to save the wanted portion.
4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

4.3.2 Playback DVR Recorded File from Hard Disk

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



5. And then, the **Event List** window appears. Select the event that user wants to play and click **OK**.



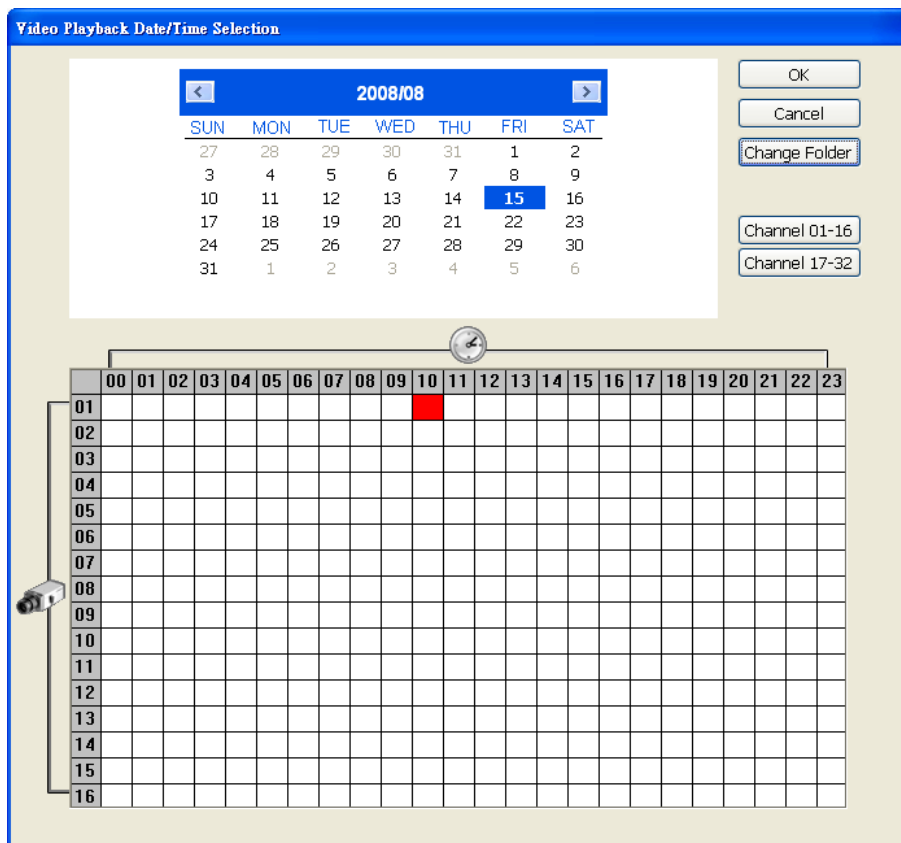
4.3.3 Playback Backup File(*.dvr)

1. Click Open File button.
2. Select **Backup File(*.dvr)** and click **OK**.
3. Locate the backup file folder and click **OK**.



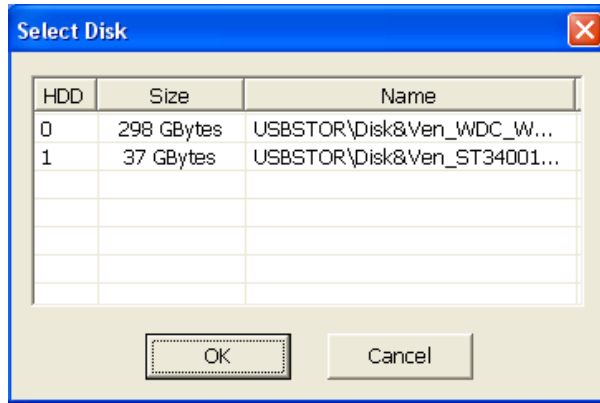
When open the backup video file, just locate the where backup file folder is.

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

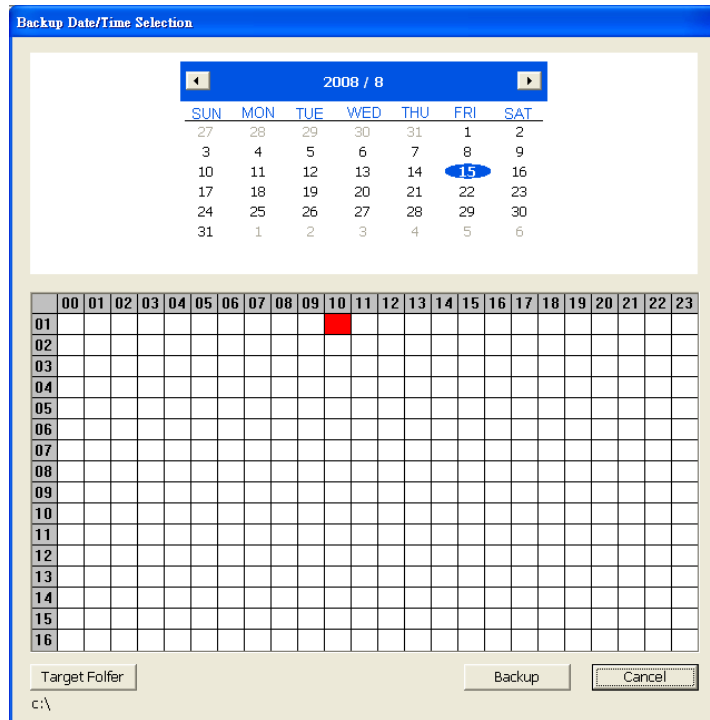


4.3.4 To Backup Recorded Video File

1. Please have the hard disk which was recording video on the DVR system install on your PC or using external USB enclosure to connect to your PC.
2. To run the HDD Backup application, click the **HDD Backup** button on USB Playback Console Application main interface.
3. Click **Browse** in **Source Disk** to locate the recorded video file.
4. And then, the **Select Disk** window will appear as below:



1. In Backup date/time selection window, select the date and time. 00-24 represents hours and 01-08 represents channels. Blue block means there has recorded file. Red block means the block has been selected. Click-and-drag can select multiple blocks at once.



2. Click **Backup** to start backup file.
3. When backup complete, the complete information window will display.

Chapter 5 Playback Backup Video

You can playback the backup files using QPlayer applications. When you back up the recorded file, QPlayer applications are automatically included in the backup folder. QPlayer also can be installed when install Web Tool from installation CD-ROM.

With QPlayer, it is the same as in Playback mode and supports 6 different split screen types to view all the video at the same time. User even can select the different language of display UI. The only difference is that there are no Preview and Playback buttons.

To run the application, go to backup folder and double-click Q Player icon.

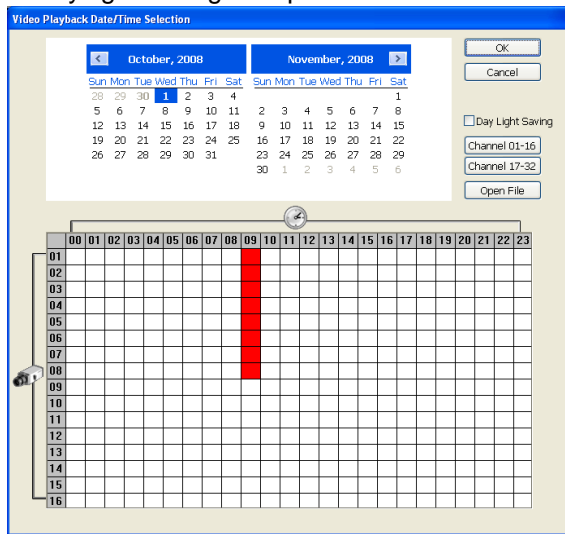
5.1 Familiarizing QPlayer FunctionButtons



Name	Function
Exit	Close the application
(2) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
i	<ul style="list-style-type: none"> - If there are only 4 or 8 cameras, you won't be able to switch to 9, 16, and 13 split screen mode. - 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.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
i	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	<p>Begin: Move at the beginning of the recorded video file.</p> <p>Previous: Go back to the previous frame.</p> <p>Slower: Play the recorded video file at the speed of 1/2X, 1/4X, 1/8X, 1/16x, or 1/32x.</p> <p>Rewind: Wind back the recorded video file.</p> <p>Pause: Briefly stop playing the recorded video file.</p> <p>Play: Play the recorded video file.</p> <p>Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x or 32x.</p> <p>Next: Go to the next frame.</p> <p>End: Go to the end of the recorded video file.</p>

- (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
 - **Channel 01~ 16&Channel 17 ~ 32:** Switch to different channel group of playback calendar.
 - **Day Light Saving:** the playback calendar will show the available video records during day light saving time period.



i The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 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	Switch the function tip display language.
(10) Export	<p>Export includes Snapshot, Print, Output Video Clip, and Backup function.</p> <ul style="list-style-type: none"> ■ 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 2.6.4).
(11) Segment	Keep a portion of the recorded video (see also Chapter 2.6.4).

Name	Function
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(12) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.
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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.



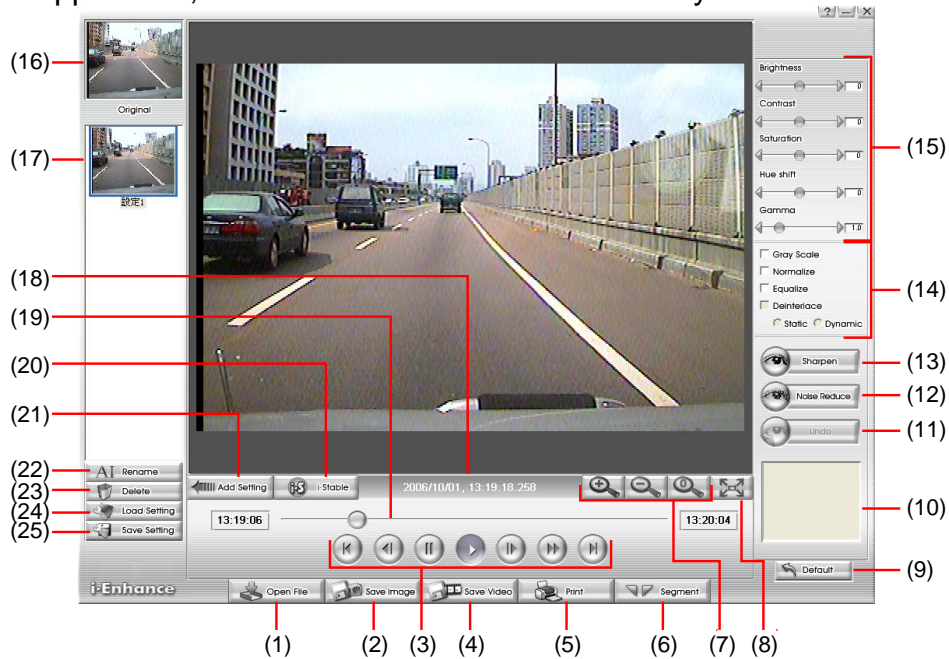
When there are dual monitors with 32 channels, the full screen mode will split into 16 channels on each monitor.

(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 2.6.5)
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (See also Chapter 2.6.7)
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 2.6.8).
(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.

Chapter 6 iEnhance

The bundled iEnhance is a video editing tool and can only be used with *.dvr video file. It allows you to adjust the video picture quality, segment and save the selected portion of the video, zoom in and out the image, and print or save the screen shot. You can also save the setting and apply it on other files.

To run iEnhance application, click **iEnhance** button on USB Playback Console interface.



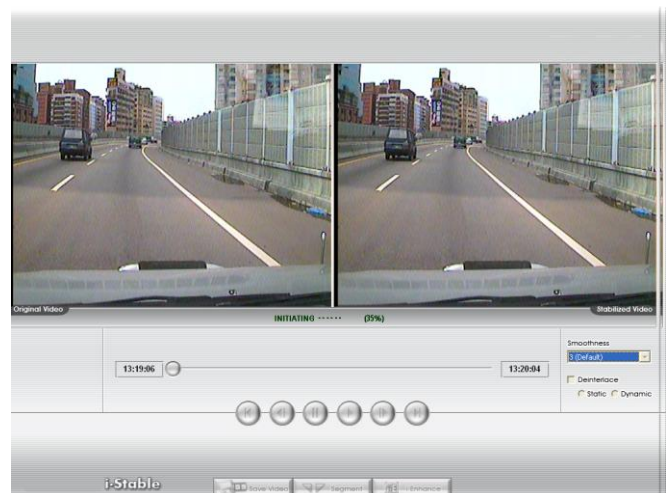
Name	Function
(1) Open File	Access *.dvr video file.
(2) Save Image	Capture and save the screen shot in *.bmp format.
(3) Playback Control Buttons	From left to right order. K Begin: Move at the beginning of the video file. ◀ Previous: Go back to previous frame. ⏸ Pause: Briefly stop playing the video file. ▶ Play: Play the video file. ⏩ Faster: Play the video file at the faster speed. ⏭ Next: Go to the next frame. ⏹ End: Go to the end of the video file.
(4) Save Video	Save the edited or segmented video in *.avi format.
(5) Print	Print the screen shot.
(6) Segment	Mark the beginning and the end of the selected portion of the video. Two triangle marks will appear on the slider. To cancel video segmentation, click this button again.
(7) Zoom Buttons	Enlarge, reduce, and set the image back to normal size.
(8) Full Screen	Use the entire screen to only display the video.
(9) Default	Set the video back to original state and delete all the changes in the history box.

Name	Function
(10) History Box	List all the actions.
(11) Undo	Delete the last action.
(12) Noise Reduce	Adjust the softness and repair the damaged colours.
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.
(14) Effects	<p>Gray Scale: convert the image into black and white (monochrome).</p> <p>Normalize: adjust the brightness intensity.</p> <p>Equalize: automatically adjust the images that are too dark.</p> <p>De-interlace: smooth out the overlying frames.</p> <ul style="list-style-type: none"> ■ Static: de-interlace for motionless scene. ■ Dynamic: de-interlace for moving scene.
(15) Picture Adjustment	Adjust the Brightness, Contrast, Saturation, Hue and Gamma.
(16) Original Screen	Display the original state of the image.
(17) Temporary Setting Block	Display the sample settings. Click the sample to apply the setting on the current video.
(18) Status Bar	Display the date, and time of the video.
(19) Progress Bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(20) iStable	To reduce the jolt in the recorded video.(also see Chapter 6.1)
(21) Add Setting	Include the new setting to the temporary setting block.
(22) Rename	Change the name of the selected setting in the temporary setting block.
(23) Delete	Permanently remove the selected setting in the temporary setting block.
(24) Load Setting	Call the saved settings.
(25) Save Setting	Store the settings in the temporary setting block.

6.1 To Use iStable

The iStable function can reduce the jolt in the recorded video.

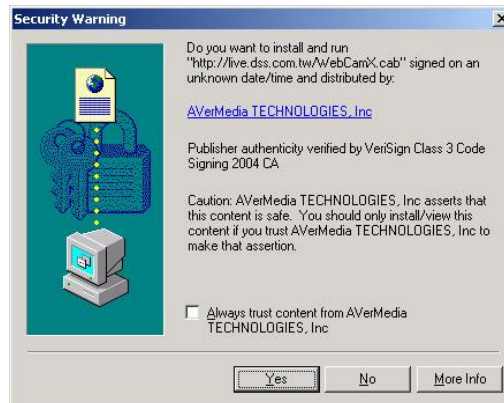
1. Click **Open File** button and select the recorded video.
2. And then, click **iStable** button.
3. iStable window will show up.
4. Select the **smoothness** level – 1(Low), 2, 3, 4, and 5(High). The default value is 3.
5. Click Play button, and then iStable function will start to initial the recorded video.
6. When the initialize is done, user will see the original and stabilized recorded video play in two window.



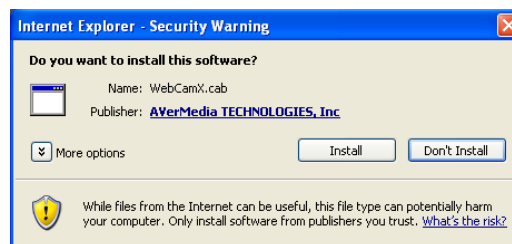
Chapter 7 Using the Remote Programs

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 WebCamX.cab, allow the installation and you should be able to connect and login afterwards. For Windows 2000, click **Yes** when the Security Warning dialog box appears.

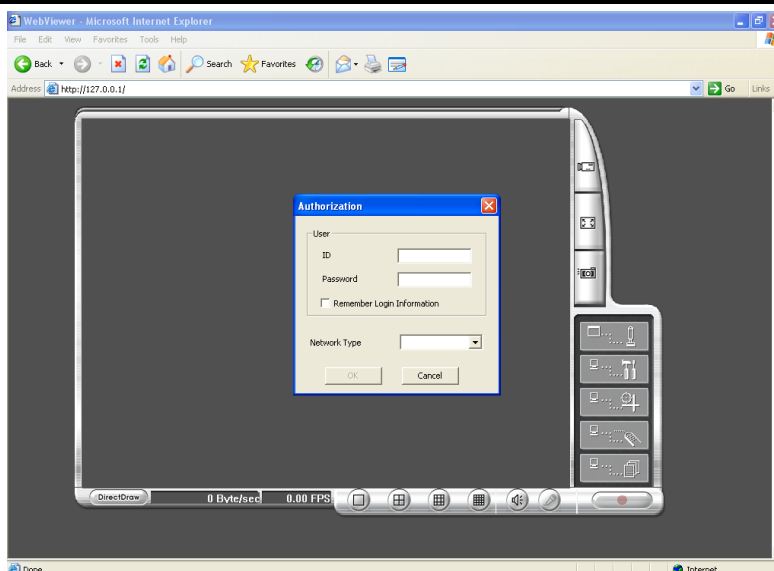


For Windows XP / Windows Vista / Windows 7, click Install when the Internet Explorer - Security Warning dialog box appears.



After installing the WebCamX.cab and when connecting to the DVR system, you are required to enter account ID (default is **superuser**) and password (default is **11111**) and select the type of network. **Superuser** has the authority to remote setup the DVR system configuration on WebViewer.


i Changing account password is strongly recommended.



7.1 Familiarizing the Buttons in WebViewer

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

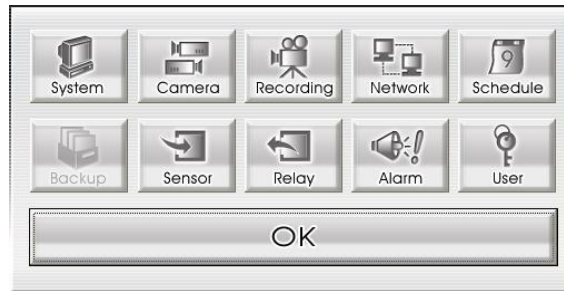


Name	Function
(1) DirectDraw	Enhance the video quality.
 Not all graphic cards can support this function. If you cannot see the screen display correctly or screen is messed, please check with VGA card vendor.	
(2) Received file size	Indicate the size of the data being sent per second.
(3) Camera frames	Indicate the number of frames per second.
(4) One screen view	To view single camera view on screen. User can right click on the screen to switch to different camera view.
(5) Split screen view	To view all cameras on screen simultaneously.
(6) Audio	Enable/disable remote sound.
(7) 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.
(8) Remote Console	Initiate Remote Console. It allows you to control DVR server (see also Chapter 7.3).
(9) Event Log Viewer	Display the Event logs, Operation logs, System logs, and Network logs.
(11) Remote setup	Change the DVR server settings (see also Chapter 7.1.1)
(12) PTZ Control	Initiate PTZ camera controller(see also Chapter 7.2)
(13) Snapshot	Capture and save the screen shot in *.bmp format.
(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.

Name	Function
(15) Select cameras to view	<p>Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera.</p> <ul style="list-style-type: none">- 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.

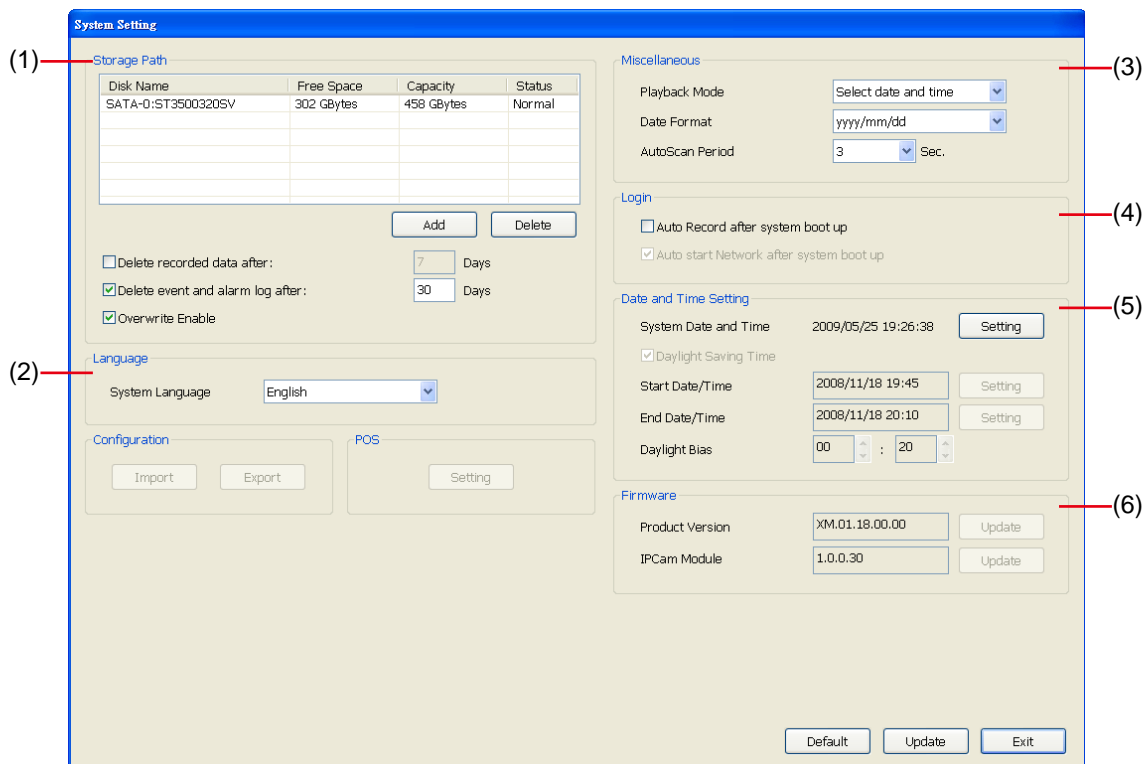
7.1.1 To Setup Remote System Setting

Click **Remote Setup** button to setup the DVR system setting.



7.1.1.1 System Setting

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



(1) Storage Path

Display the directory on where to save the data. You may also add additional storage path for extremely high storage capacity. To insert another storage path, click **Add**. To remove the selected path, click **Delete**.

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.

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 numbers of days in **Days** text box.

Enable **Overwrite Enable**, 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.

(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) 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. To set the instant playback time period, fill in the time in second at **Set Instant Playback's Play Time** column.

- **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.

(4) 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 system is executed.

(5) Date and Time Setting

Adjust the DVR system time and date. Click **Setting** to select the month, date, hour, and minute.

(6) Firmware

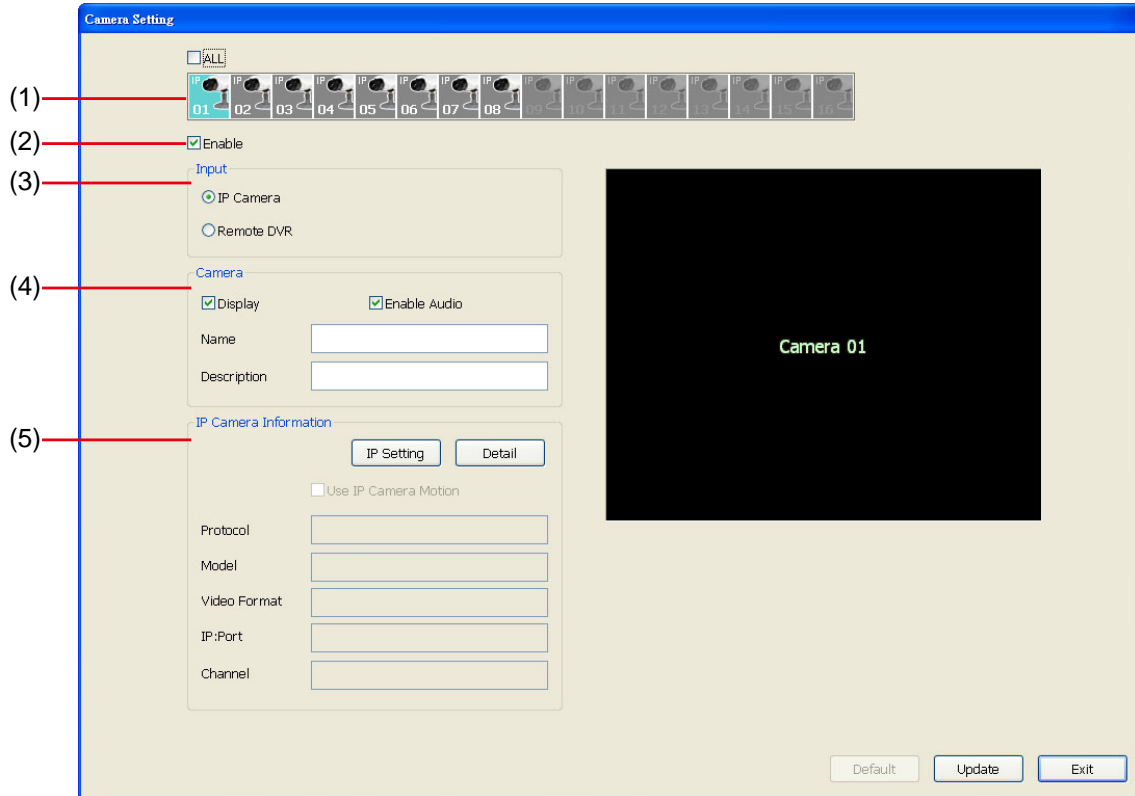
Display current system and connected IP camera firmware version.

7.1.1.2 Camera Setting

The MXR series can support up to 8 IP cameras.

To Setup IP Camera

Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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

Enter the name of the camera that will be seen on surveillance screen.

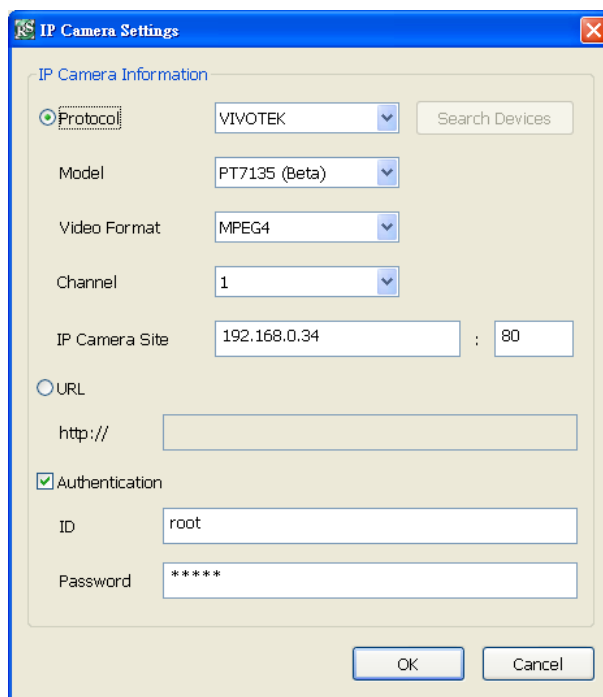
- Description

Add a short comment

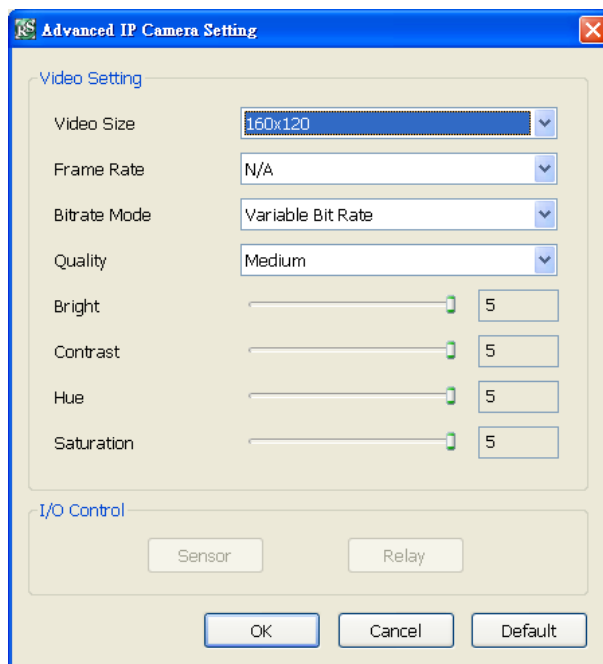
(5) IP Camera Information

To setup IP camera and display current IP camera information.

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



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



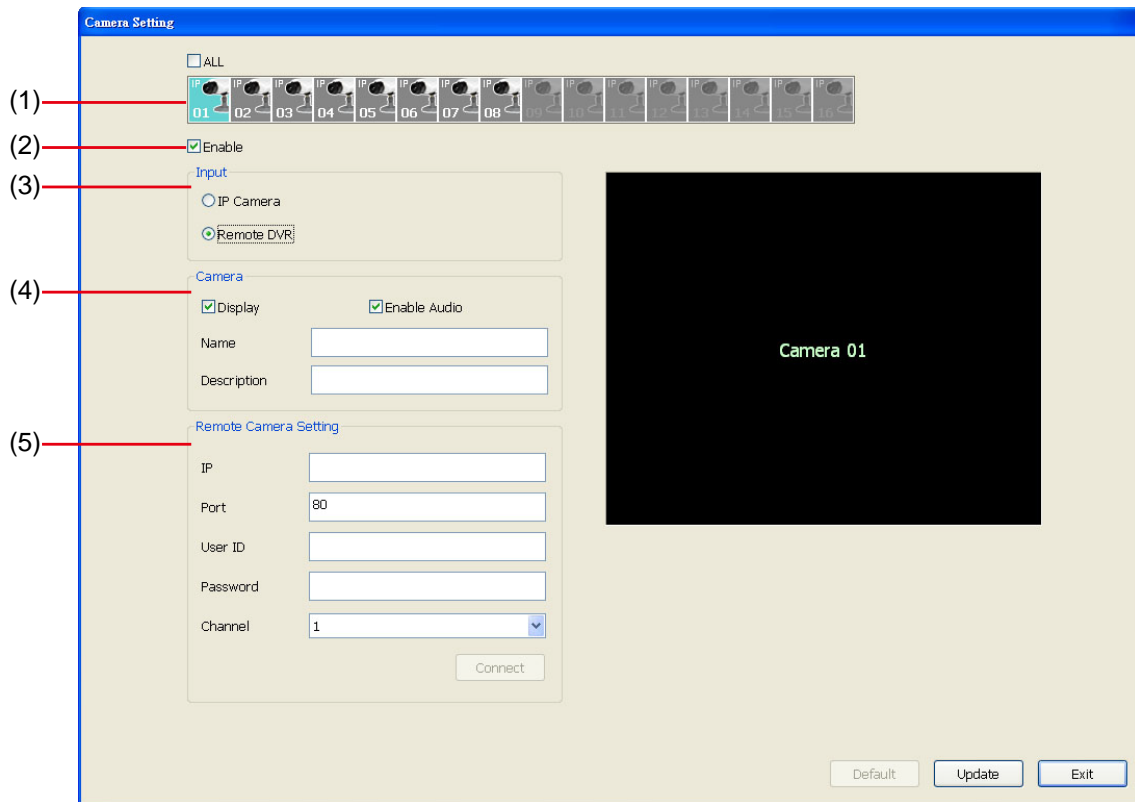
User can select **Video size**, **Frame rate**, **Bitrate mode** and **Quality** of camera. Also, user can adjust **Bright**, **Contrast**, **Hue**, **Saturation**, and **I/O Control** of the camera.



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

To Setup Camera from the Remote DVR

User can add the camera from another DVR through the network. Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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

Enter the name of the camera that will be seen on surveillance screen.

- Description

Add a short comment

(4) Remote Camera Setting

- IP

Enter the IP address of the camera

- Port

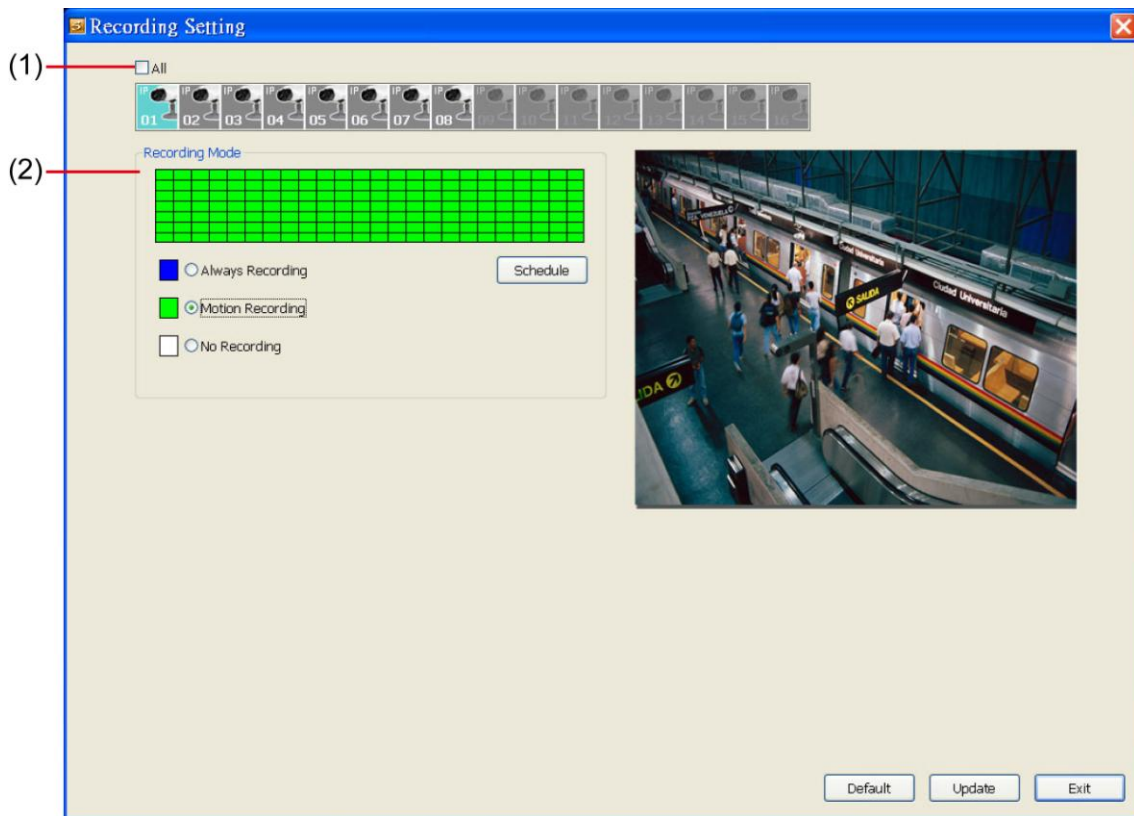
The port for connection

- 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.

7.1.1.3 Recording Setting

Click **Update** to accept the new settings, click **Cancel** 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 blocks represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the **Always Recording** mode. 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**

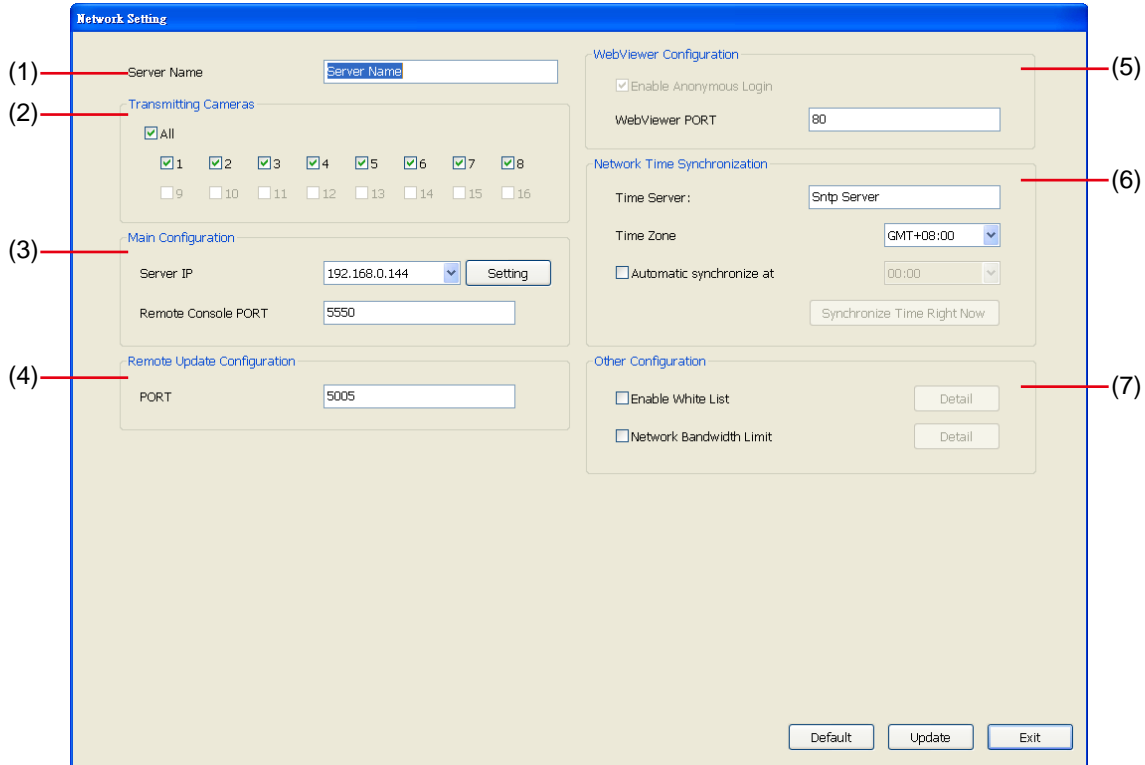
Start recording the video from the selected camera only when the system detects movement.

- **No Recording**

The system won't do any recording.

7.1.1.4 Network Setting

Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(1) Server Name

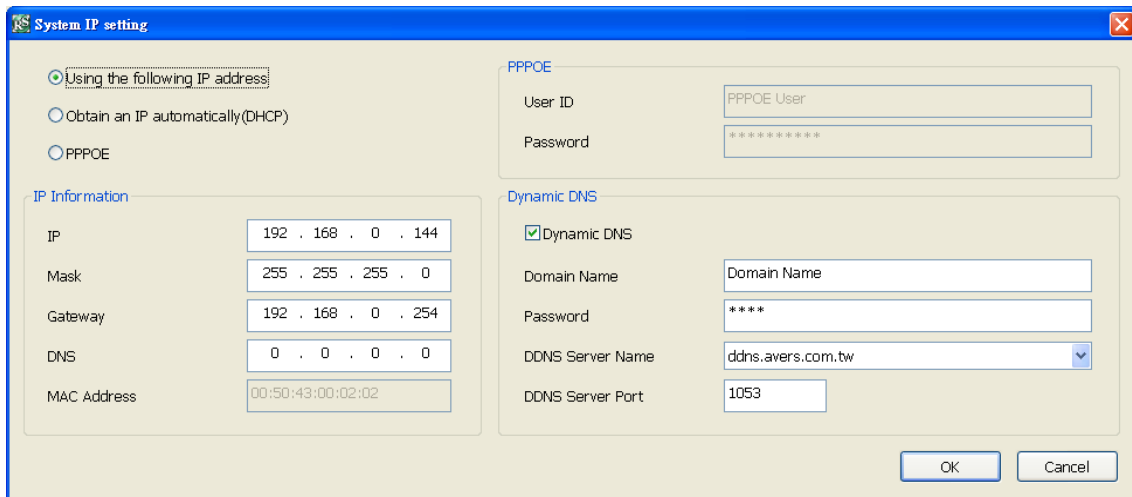
Assign a name for the DVR unit. Alphabet letters and numbers only.

(2) Transmitting Cameras

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer and Remote Console. 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. MXR series provides dual Gigabit LAN port to balance the bandwidth usage of the DVR system. User can configure one LAN port is for receiving data from IP camera. And the other one is for remote accessing to DVR system for recorded video viewing. Click **Setting** to setup DVR IP.



- **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
 - **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) WebViewer Configuration

Fill in the **WebViewer PORT** for remote accessing connection.

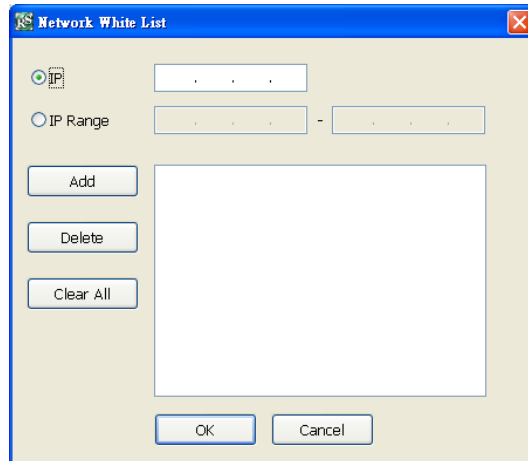
(6) Network Time Synchronization

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

- **Enable White List**

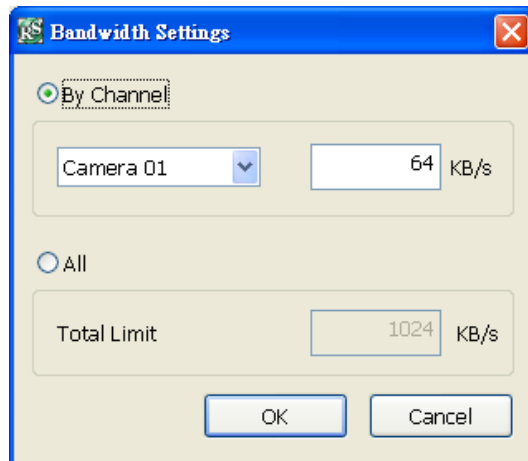
An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



- **Network Bandwidth Limit**

By Channel: Set the network bandwidth by each channel.

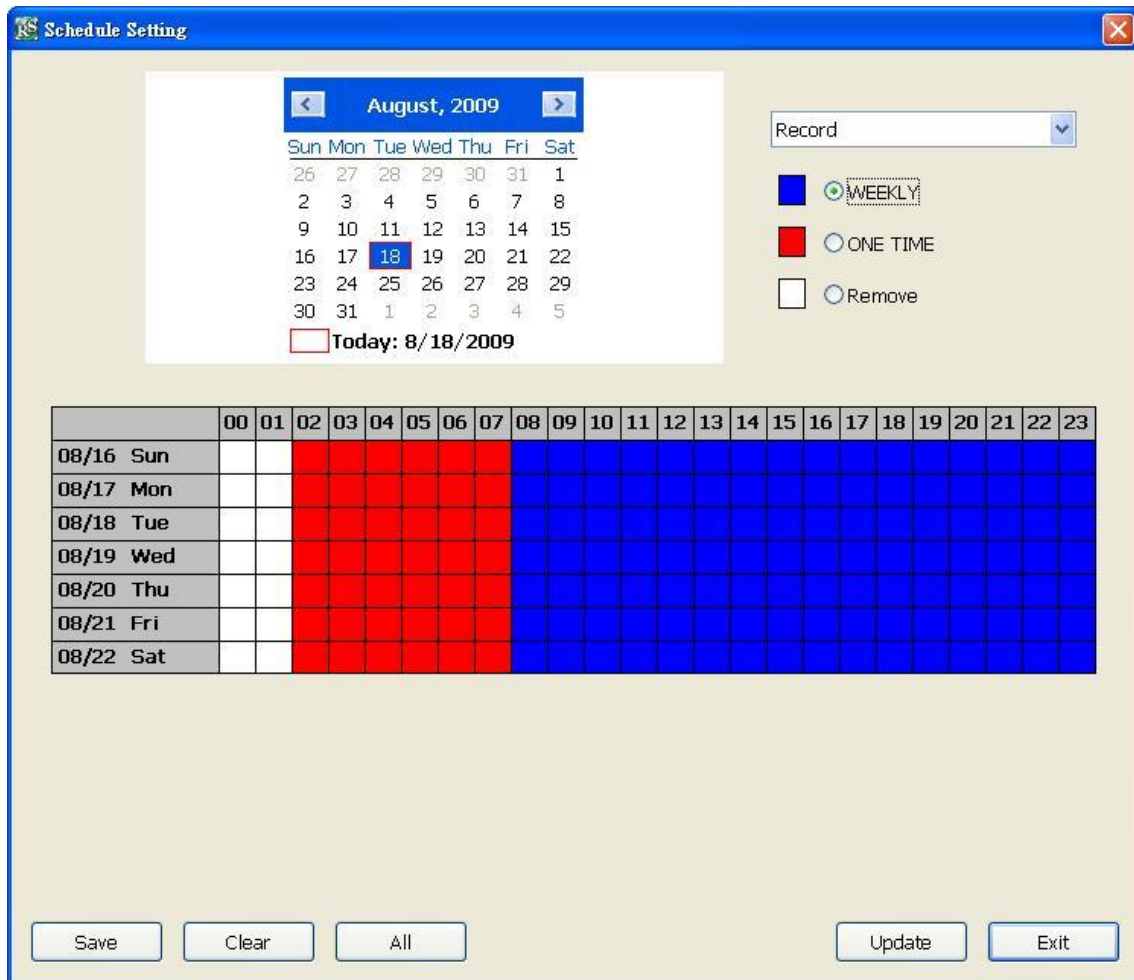
All: Set the total network bandwidth consumption limit.



7.1.1.5 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.

Click **Update** to accept the new settings and click **Save** to save the schedule setting. Click **Clear** can clear all schedule selecting and to select all click **All**. To exit click **Exit**, and click **Default** to revert back to original factory setting.



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
 - **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 save the setting, click **Save**. To remove the settings, click **Clear**.

- To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

7.1.1.6 Sensor Setting

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

- Click the drop-down list and select the sensor ID number.
- Enter sensor name in **Name** column.
- The system automatically detects the card and input number. In the **Content** section, enter **Description** of sensor.
- In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
- Click **Update** to accept the setting and **Exit** to exit without saving the setting.

The screenshot shows a 'Sensor Setting' dialog box. At the top, there is a title bar with the text 'Sensor Setting' and a close button (X). Below the title bar, there is a drop-down menu currently showing 'Sensor 1'. Underneath the menu is a 'Name' label followed by a text input field containing 'Sensor 01'. To the right of the 'Name' field is a button labeled 'External IO'. Below this is a section titled 'Content' in blue text. Inside the 'Content' section, there are three input fields: 'Card No.' with the value '1', 'Input No.' with the value '1', and a larger text area for 'Description' containing 'Sensor 01 TEST'. Below the 'Content' section is another section titled 'Test' in blue text. This section contains a rectangular area on the left and a button labeled 'Test' on the right. At the bottom of the dialog box, there are two buttons: 'Update' and 'Exit'.

7.1.1.7 Relay Setting

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

6. Click the drop-down list and select the relay ID number.
7. Enter relay name in **Name** column.
8. The system automatically detects the card and input number. In the Content section, enter **Description** of relay.
9. In the test section, click **Test** to trigger relay. **Red** is high and **Green** is low.
10. Click **Update** to accept the setting and **Exit** to exit without saving the setting.

The screenshot shows a software window titled "Relay Setting". At the top, there is a dropdown menu currently displaying "Relay 1". Below this is a text input field labeled "Name" containing the text "Relay 01". To the left of the "Name" field is a checked checkbox labeled "Enable". To the right of the "Enable" checkbox is a button labeled "External IO". The window is divided into two main sections: "Content" and "Test". The "Content" section contains three text input fields: "Card No." with the value "1", "Input No." with the value "1", and "Description" with the text "Relay 01 TEST". The "Test" section contains a large empty rectangular box and a button labeled "Test". At the bottom of the window, there are two buttons: "Update" and "Exit".

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

1. Click **Add** to insert and set a new alarm setting. Click the items in the **Alarm Setting List** if you want to modify the alarm setting.

2. In **No./Name/Description** enter alarm name and description. Alarm **No.** will be created by DVR system.

A screenshot of a form with three input fields: 'No.' containing '1', 'Name' containing 'Alarm 1', and 'Description' which is empty.

3. In **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.

A screenshot of the 'Enable Time' interface. It features a horizontal row of 24 numbered blocks (00 to 23) representing hours. All blocks are currently blue. To the right of the row is an 'Enable' checkbox, which is also checked and blue.

4. In **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.

A screenshot of the 'Conditions' interface. It contains two radio button options: 'Trigger if any' (which is selected) and 'Trigger if all'.

5. In **Camera** section, select and click on the camera number in **Video Loss** to set the condition for the system to alarm.

A screenshot of the 'Camera' configuration interface. It has three sections: 'Motion Detected', 'Video Loss', and 'Audio Detected'. Each section has a grid of 16 camera numbers (01 to 16). In the 'Video Loss' section, camera numbers 01, 02, and 03 are highlighted in pink.

6. In **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. Click **IP Camera Sensor** to configure sensor status of IP camera. Click **High/Low** to set sensor status to high or low.

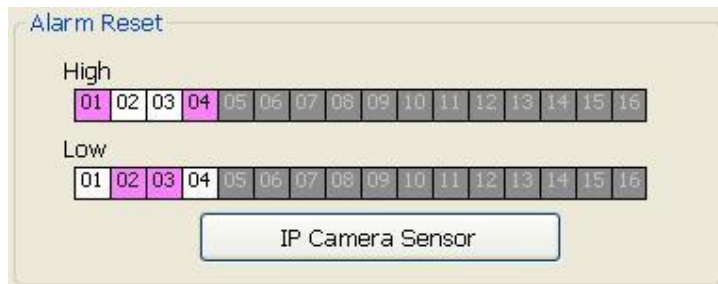
A screenshot of the 'Sensor' configuration interface. It has two sections: 'High' and 'Low'. Each section has a grid of 16 sensor numbers (01 to 16). In the 'High' section, sensor number 03 is highlighted in pink. In the 'Low' section, sensor number 04 is highlighted in pink. Below the grids is a button labeled 'IP Camera Sensor'. Underneath is a text input field for 'Continuous trigger duration' with the value '0' and the unit 'Seconds'. At the bottom left is a checkbox for 'Abnormal Event' and at the bottom right is a 'Detail' button.

- **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.
- **Abnormal Event:** Enable/disable the condition of the event for system to alarm.

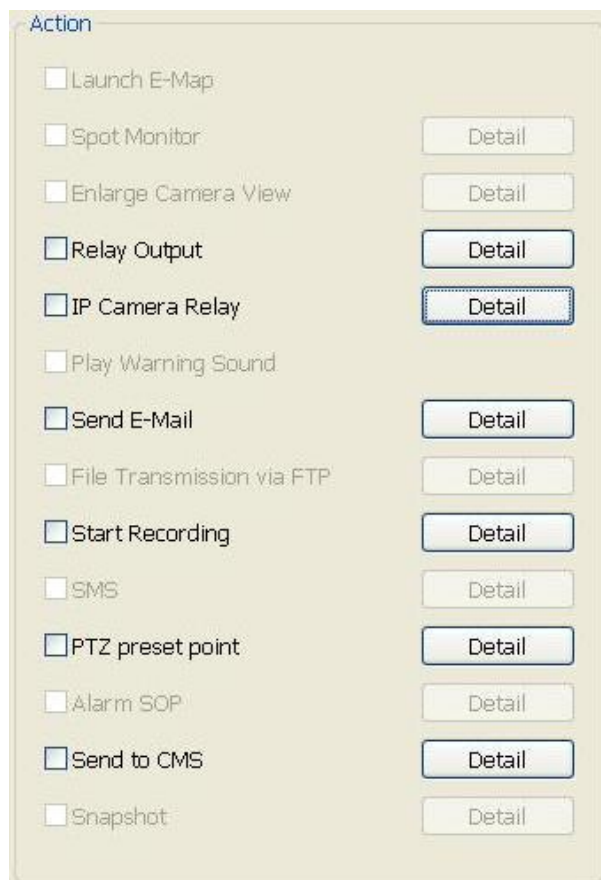
A screenshot of the 'Abnormal Event' dialog box. It contains five checkboxes: 'Reboot', 'Abnormal Reboot', 'Recording is switched off', 'Network is switched off', and 'Hard Disk failed'. All checkboxes are currently unchecked. At the bottom are 'OK' and 'Cancel' buttons.

- **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.
- **Hard Disk failed:** when the hard disk doesn't work normally, the system will send out the alarm message.

7. In **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. To set sensor status of IP camera, click **IP Camera Sensor**. In IP Camera Alarm Setting window, click **High/Low** to set sensor status.



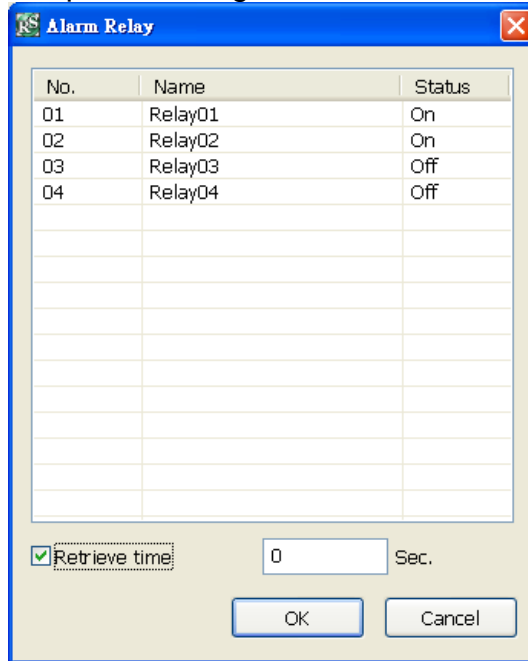
8. In **Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.



- **Relay Output**

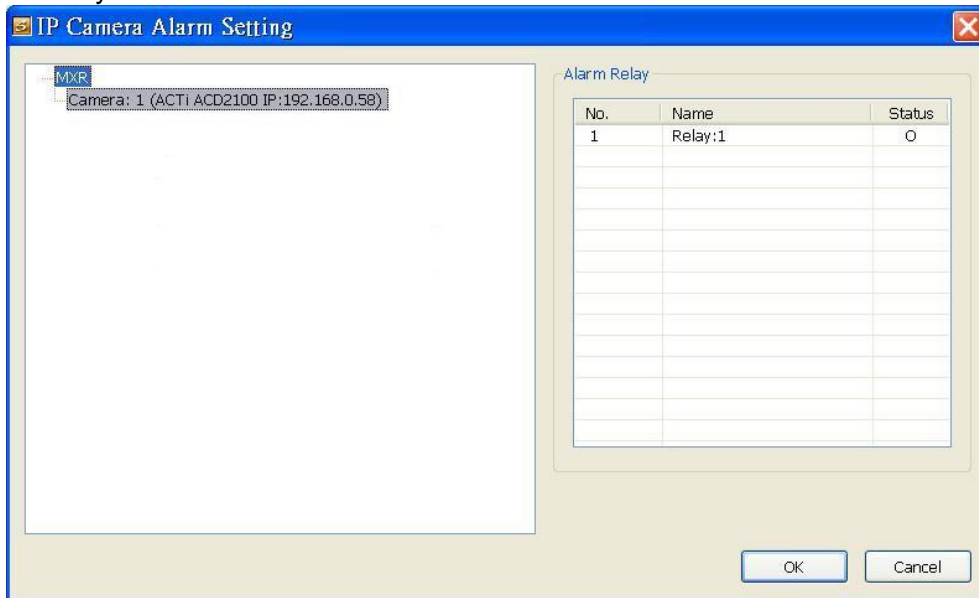
Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

1. Beside 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. In **Status** column, click to change the relay device status – circle means the status is on and blank means is off status.



- **Send E-mail**

Send an electronic text message. Beside 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.

■ **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**.

■ **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.

E-Mail Setting

Mail Server

SMTP Server : 25

Authentication

ID Password

Mail

From: To: CC: Subject: Message

Snapshot

Enable

Select Camera Camera01

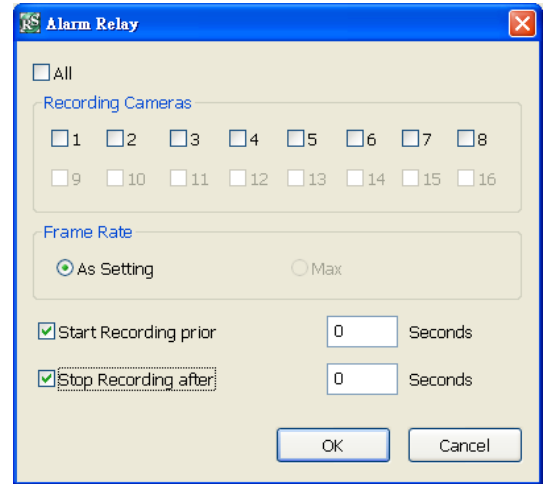
Video Size Auto

OK Cancel

- **Start Recording**

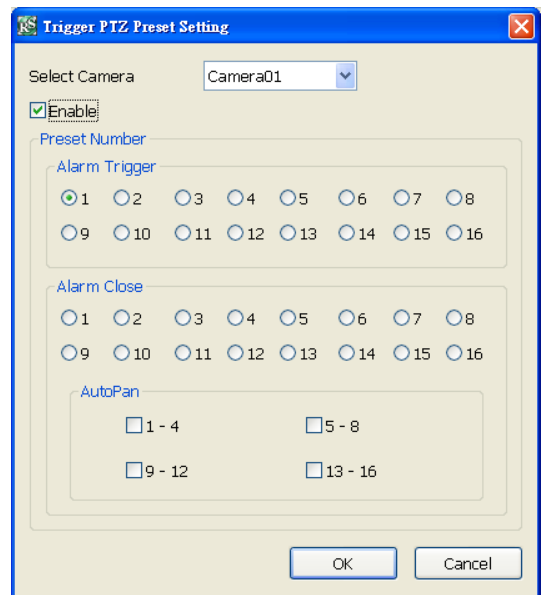
Record the video from the selected camera.

1. Beside 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**

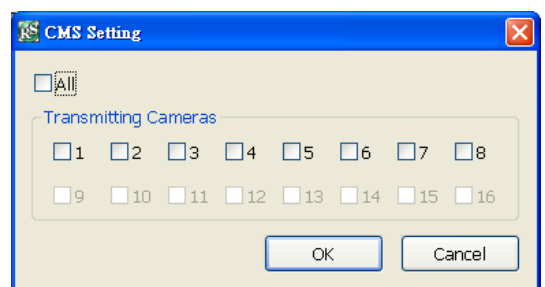
Position the PTZ camera based on the preset point setting. Beside the PTZ preset point check box, click **Detail**. In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number then select the **Enable** check box. Select the position of the PTZ camera when the alarm is activated and ended. 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.

Beside 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) WebViewer

Enable/disable WebViewer 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 Web Viewer.

- **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.


7.2 Familiarizing the Buttons in WebViewer PTZ



Name	Function
(1) Direction buttons	Adjust and position the focal point of the PTZ camera. Click the center to pan automatically.
(2) Zoom +/-	Zoom in and out the image.
(3) 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.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) AutoPan Groups	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(6) Camera preset position number	Move the PTZ camera to the preset point. The reset point (1~9) is based on the user has setup by remote control at local site.

7.3 Familiarizing the Buttons in Remote Console

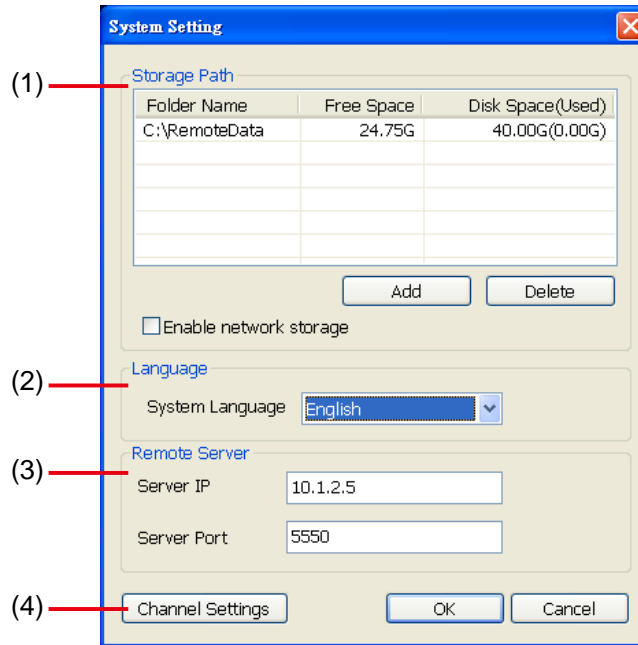


Name	Function
(1) DirectDraw	Enhance the video quality.
 (1) Direct Draw function supports for certain VGA card. For more information, please contact your VGA card vendor.	
(2) Exit	Close the Remote Console.
(3) Audio button	Enable/disable the sound.
(4) Split Screen Mode	Select from 4 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
(5) Record	Start/stop video recording.
(6) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.
(7) Setup	Configure the Remote Console setting. (see also Chapter 8.3.1)
(8) PTZ	Access PTZ control panel. EH supports IP camera PTZ function.(see Chapter 8.3.2)
(9) Preview	Switch to Preview/Playback mode. This allows you to view live camera display.
(10) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 8.4)
(11) Status Bar	Display the current date, time and hard disk free space.
(12) 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.
(13) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(14) Event Log	Display the Event logs, Operation logs, System logs, and Network logs.
(15) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(16) 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.

Name	Function
(17) Alarm	Alert and display warning info. Superuser and user both can reset the alarm.

7.3.1 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.

i 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 Window help file and search “Map Network drive”.

(2) Language

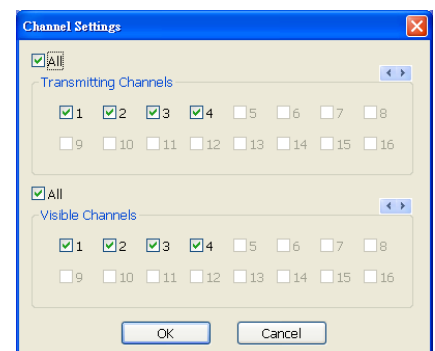
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

(3) Remote Server

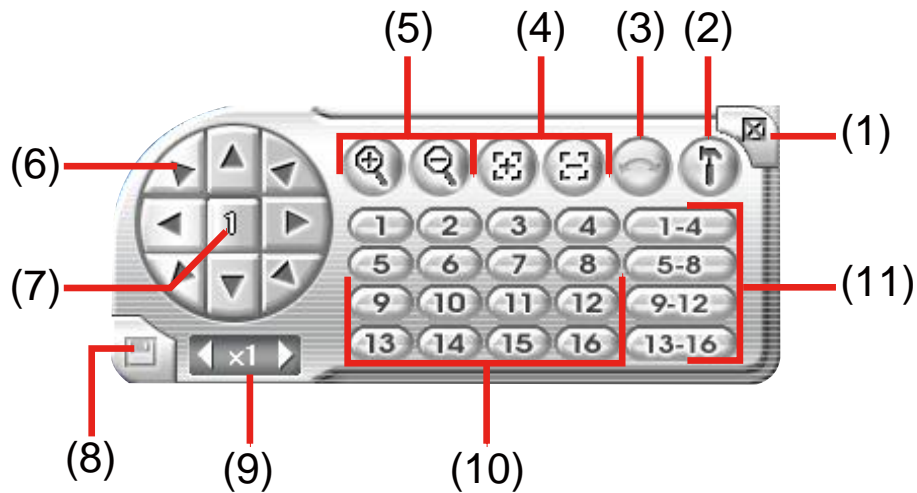
Enter the DVR Server IP and Server Port number.

(4) Channel Settings

The numbers from 1 to 8 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.



7.3.2 Familiarizing the Buttons in PTZ Camera Controller



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

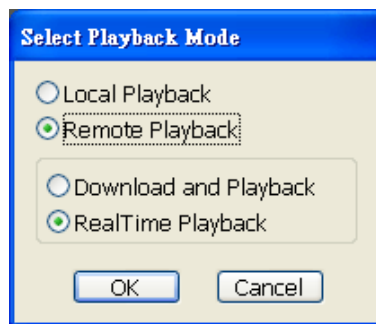
7.4 Using the Remote Playback

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



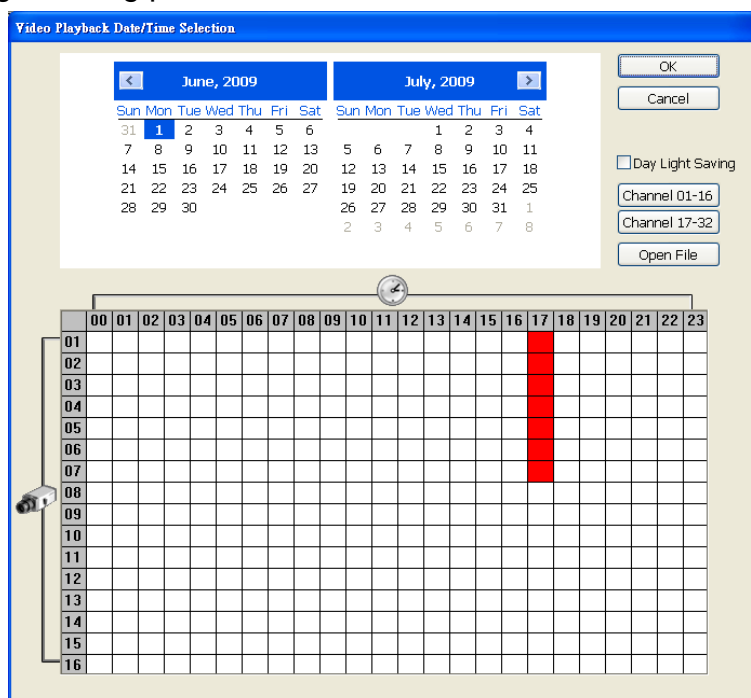
To use this feature, first you need to select the source of the file. In the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the DVR server. When you choose Remote Playback,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

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

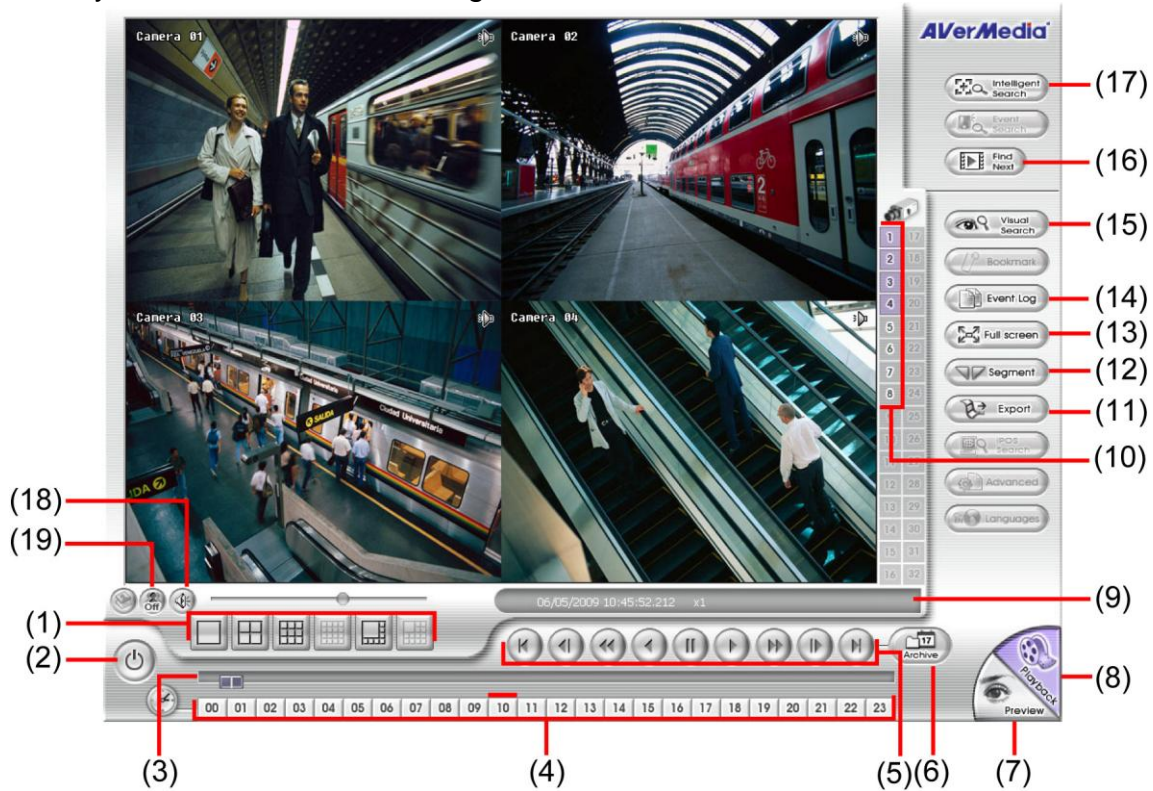


7.4.1 Playback in Local Playback Mode

When selected the Download and Playback mode, select the date and time to playback from the **Video Playback Date/Time Selection**. In the **Vido Playback Date/Time Selection**, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 represent the camera number. Mark **Day Light Saving**, the playback calendar will show the available playback records during day light saving period.



The Local Playback interface as following shown:



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

(1) Split Screen Mode Select from 4 different split screen types to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.

i - If there are only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen mode.
 - To zoom in an area on the screen, **Right click and Drag** a square on the area you want to enlarge.

(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.

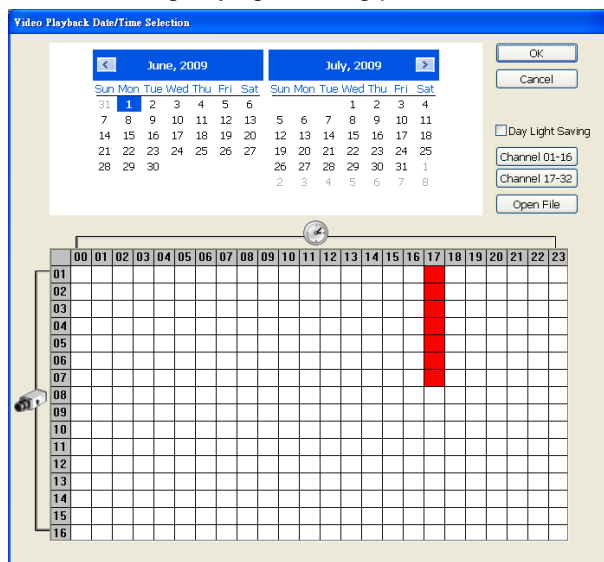
(4) Hour Buttons Select and click to playback the recorded video file on the specific time frame.

i 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
- 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 | <p>Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.</p> <ul style="list-style-type: none"> – Also, user can open the recorded file from certain location by click OPEN FILE button – Channel 01~ 16 and Channel 17 ~ 32: If channels are over 16, click it to switch to different channel group of playback calendar. – 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 08 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	<p>Export includes Snapshot, Print, and Output Video Clip function.</p> <ul style="list-style-type: none"> ■ 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 2.6.3).
(12) Segment	Keep a portion of the recorded video (see also Chapter 2.6.3).
(13) Full screen	<p>View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard.</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(14) 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 POS.
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 7.4.1.1)

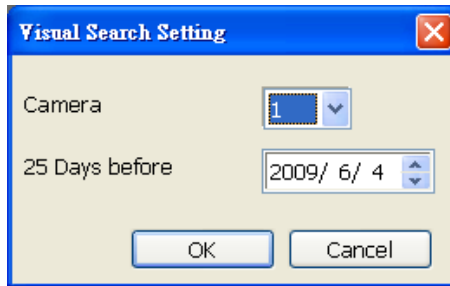




The Visual and Intelligent search only available when the remote site is recording and playback from remote local hard disk.

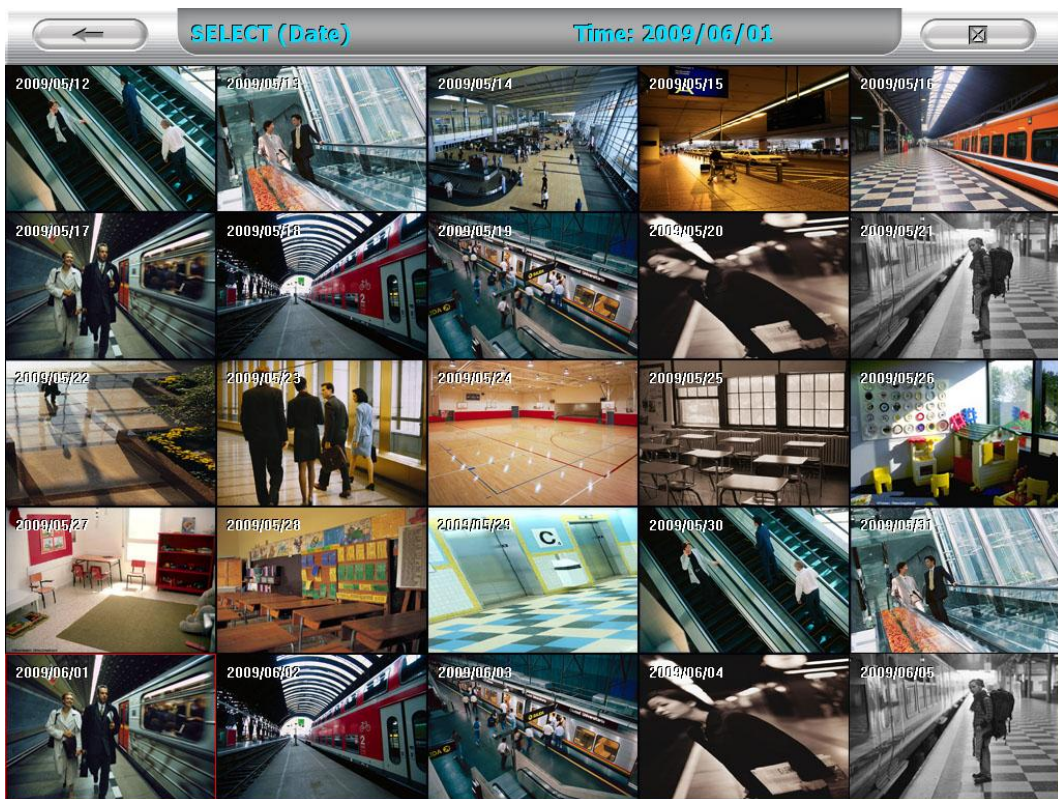
(16) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 2.6.7).
(18) Audio	Enable/disable audio play
(19) 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.

7.4.1.1 To Search Using the Visual Search

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

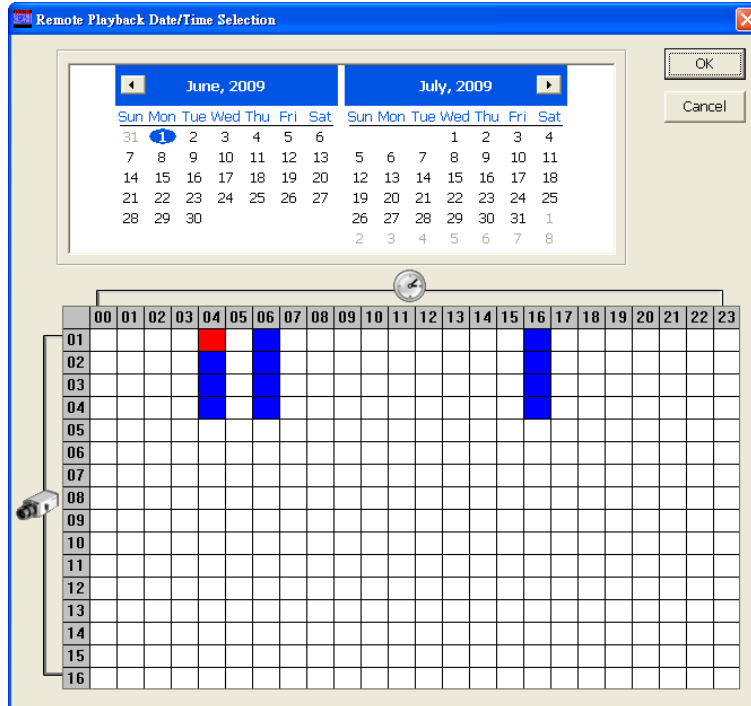


6. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour, every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click . To view from the selected frame and close event search, click .



7.4.2 Playback in Download and Playback Mode

When selected the Download and Playback mode, select the date and time to playback from the **Remote Playback Date/Time Selection**. In the **Remote Playback Date/Time Selection**, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 represent the camera number.



Click **OK** and the **Time Selection** window will show up. In **Time Selection** window, the system divides the selected hour into 16 video thumbnails. Click on the video thumbnail you want to download and open.



The Download and Playback interface as following shown:

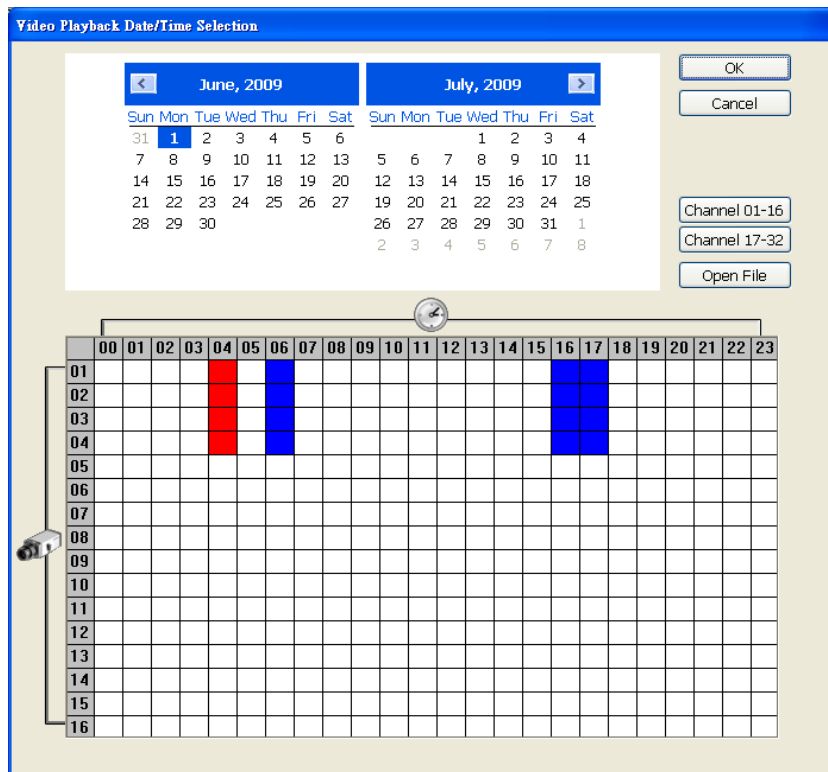


Name	Function
(1) Exit	To exit application
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Playback Control Buttons	<ul style="list-style-type: none"> Begin: Move at the beginning of the recorded video file. Previous: Go back 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	To switch the application UI display language
(6) Export	Export includes Snapshot, Print, and Output Video Clip function. <ul style="list-style-type: none"> ■ 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 2.6.3)
(7) Segment	Keep a portion of the recorded video (see also Chapter 2.6.3).
(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.

Name	Function
(9) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 7.4.1.1)
(10) Audio	Enable/disable audio play
(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.

7.4.3 Playback in RealTime Playback Mode

When selected the RealTime Playback mode, select the date and time to playback from the **Video Playback Date/Time Selection**. 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 08 represent the camera number. Mark **Day Light Saving**, the playback calendar will show the available video records during day light saving time period.



Click **OK** and the RealTime Playback interface as following shown:



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

(1) Split Screen Mode Select from 4 different split screen type to playback the recorded video file of all the camera, or one camera.










- i** - If there are only 8 cameras, you won't be able to switch to 13 and 16 split screen mode.
- To zoom in an area on the screen, **Right click and Drag** a square on the area you want to enlarge.

(2) Progress bar Show the progress of the file being played. You may move the bar to seek at any location of the track.

(3) Hour Buttons Select and click to playback the recorded video file on the specific time frame.

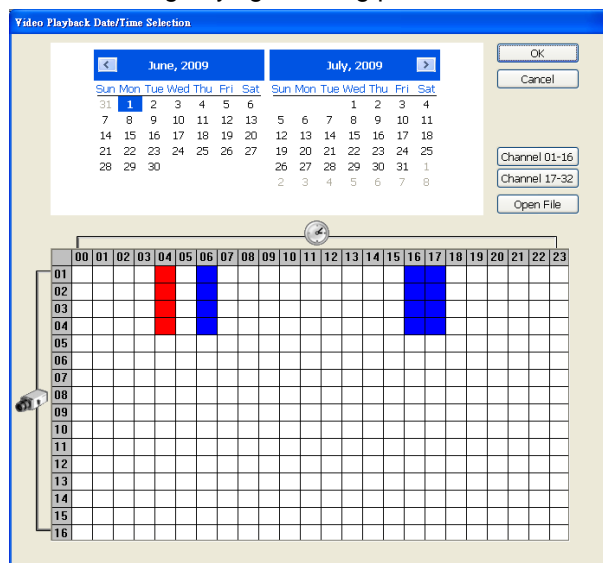
- i** The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.

(4) Playback Control Buttons

-  **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.

(5) Archive

- Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
- Also, user can open the recorded file from certain location by click **OPEN FILE** button
- **Channel 01~ 16** and **Channel 17 ~ 32:** If channels are over 16, click it to switch to different channel group of playback calendar.
- Mark **Day Light Saving**, the playback calendar will show the available playback records during day light saving period.



- i** The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 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.

Name	Function
(6) Preview	Switch to Preview/Advanced mode.
(7) Playback	Switch to Playback mode. This allows you 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	<p>Export includes Snapshot, Print, Output Video Clip, and Backup function.</p> <ul style="list-style-type: none"> ■ 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 2.6.3).
(11) Full screen	<p>View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard.</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(12) 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 POS.
(13) Audio	Enable/disable audio play
(14) 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 8 Using PDAViewer to Access DVR server

Users can 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

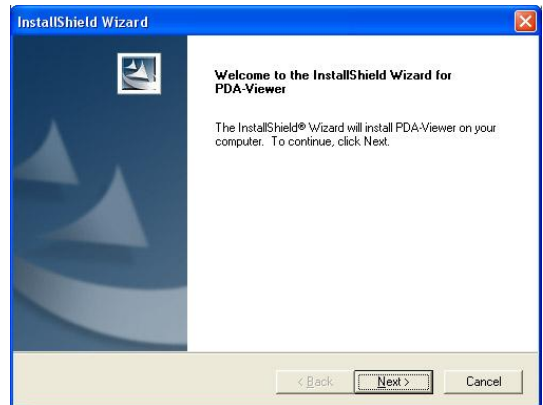
8.1 Installing PDAViewer

8.1.1 To Install PDAViewer thru ActiveSync

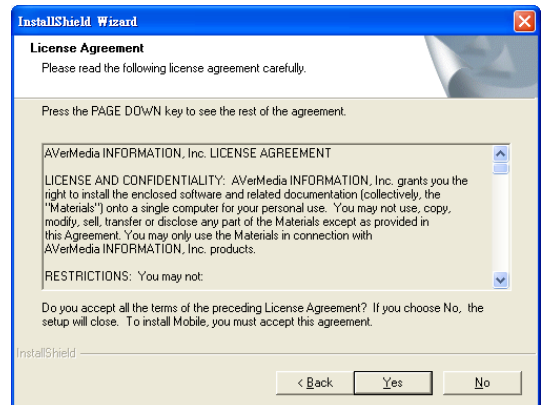
1. Connect your PDA to your PC. Place the CD into the CD-ROM drive then click **Utilise** and select the **PDAViewer** fold and click **setup.exe** to install the PDAViewer program. And follow the on screen instructions.



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.



8.1.2 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**.

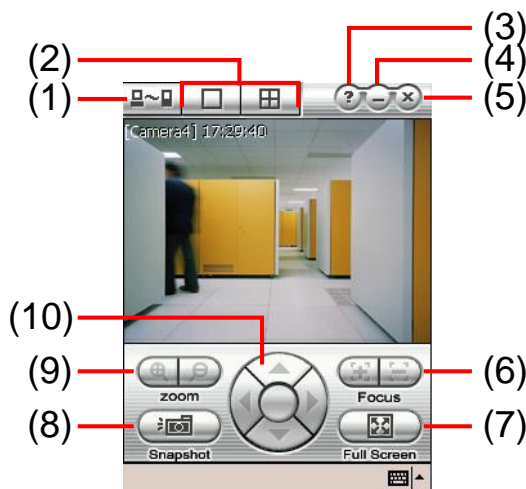


3. After the installation, the PDAViewer icon will appear in the Programs list.

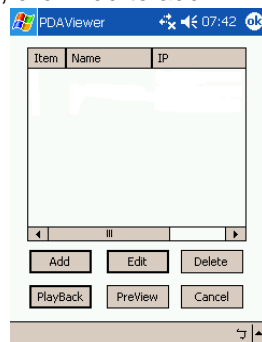


8.2 To Use the PDAViewer

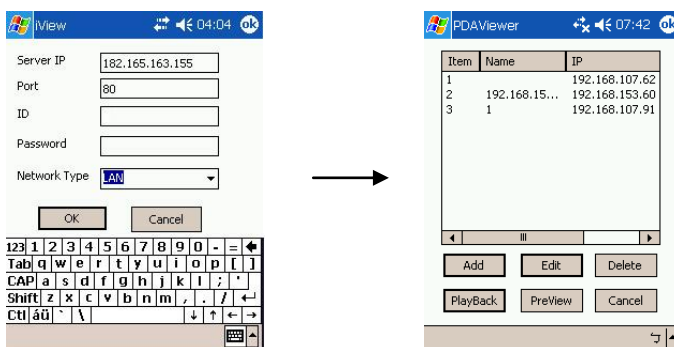
1. Run the **PDAViewer** on your PDA.
2. Familiarizing the PDAViewer buttons.



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 8.3](#))

(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.

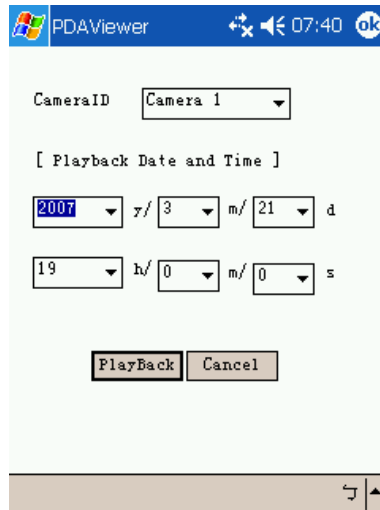
Name	Function
(10) Direction buttons	Adjust and position the focal point of the PTZ camera.

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



8.3 To Playback in PDAViewer

- Run the **PDAViewer** in the Programs.
- Hook up to the DVR server.
- Click **Connect** icon and select the DVR server.
- Click **Playback** to enter playback option screen.
- Select the **camera, data, and time.**
- Click **Playback** to start playing the recorded video.

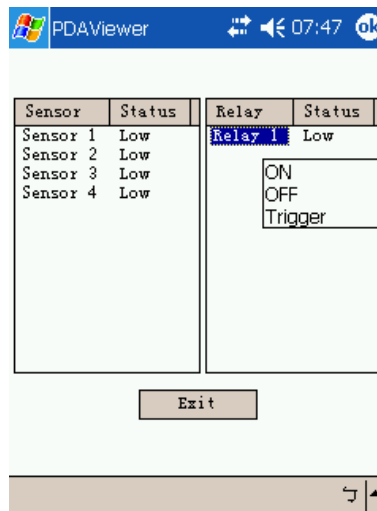


- While playback, user can view and change status of I/O devices.
- On the playback screen, tap on video screen longer the popup menu will appear.

9. Select the **Remote IO**.



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



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

Chapter 9 Web Tools

The bundled Web Tools includes iDispatch Server, Remote iBackup, and Remote iSetup program. To install Web Tools, place the CD into the CD-ROM drive then click **Install Web Tool**. And then, follow the install wizard to complete the installation.




9.1 Using the iDispatch Server

Dispatch is designed to reduce the network traffic of the DVR server. Instead of connecting directly to the DVR server, the client can connect to the computer that is connected to the DVR server using the Dispatch program.

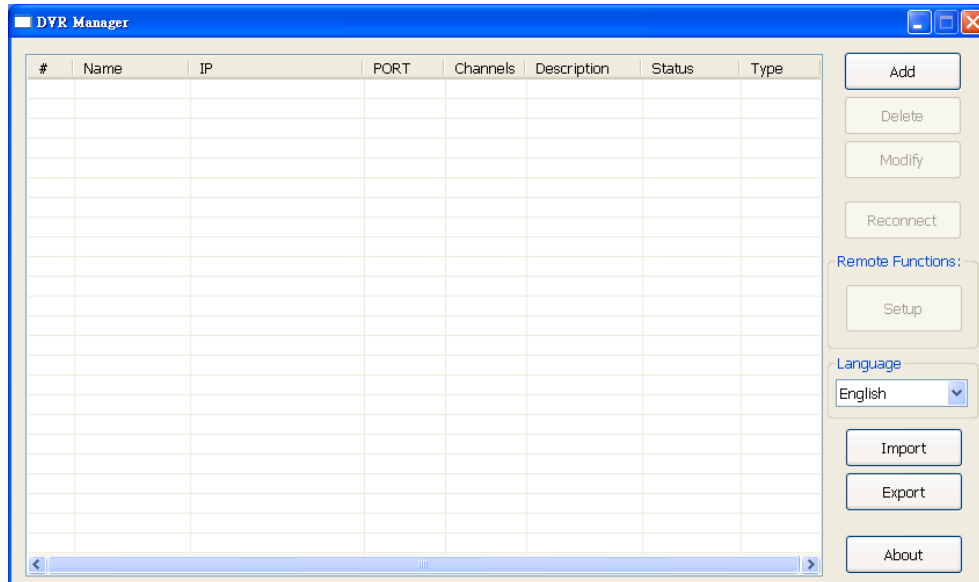
1. Make sure you are connected to the internet.
2. Click **Start>Programs>Web Tool>Dispatch**.
3. In the DVR Server section, enter the DVR server IP, port, user ID and password. You can also select to display the language you prefer.
4. **Auto connect when start:** Enable to automatically connect the dispatch server when start up
5. **3GPP Service:** Enable to allow user using 3GPP service to receive video stream from Dispatch server. The **Service Port** must same as RTSP port of 3GPP on DVR server.
6. In the **Dispatch Service** section, if you have installed more than one network card, select the Service IP number.
7. In the **Dynamic DNS Configuration** section, enter the DNS server Name and Password. The DNS server can be the remote storage server for sharing the DVR system loading.
8. Click **START** to connect.

9.2 Using the Remote iSetup

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 **Web Tools**. After installation, click  to start the Remote Setup application.

9.2.1 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 Webviewer 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.

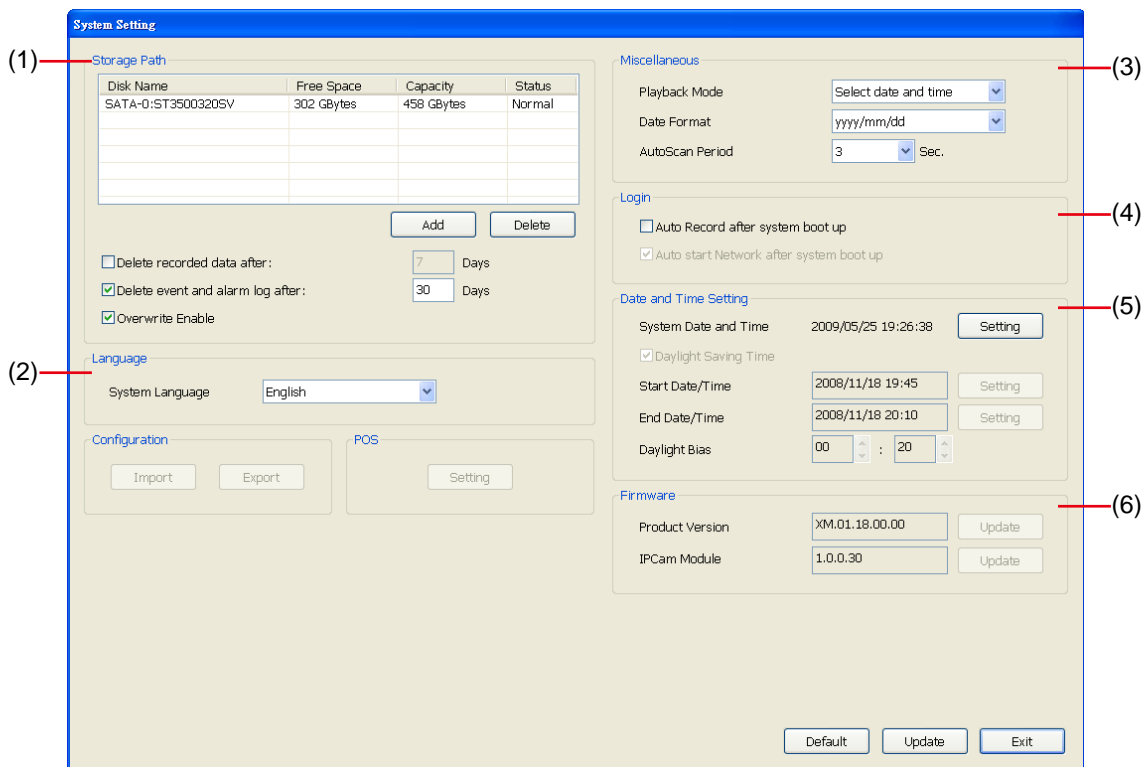
6. When connection is lost, click **Reconnect** to connect again.
7. To modify or delete the added DVR server, select the DVR server from listing and click **Modify** to change the setting and click **Delete** to remove the DVR server.
8. User also can import the setting by clicking **Import** button. To save the setting to local hard disk, click **Export** button.

9.2.2 To Setup Remote System Setting

The setting here applies to Remote DVR only.

9.2.2.1 System Setting

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



(1) Storage Path

Display the directory on where to save the data. You may also add additional storage path for extremely high storage capacity. To insert another storage path, click **Add**. To remove the selected path, click **Delete**.

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.

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 numbers of days in **Days** text box.

Enable **Overwrite Enable**, 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.

(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) 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. To set the instant playback time period, fill in the time in second at **Set Instant Playback's Play Time** column.

- **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.

(4) 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 system is executed.

(5) Date and Time Setting

Adjust the DVR system time and date. Click **Setting** to select the month, date, hour, and minute.

(6) Firmware

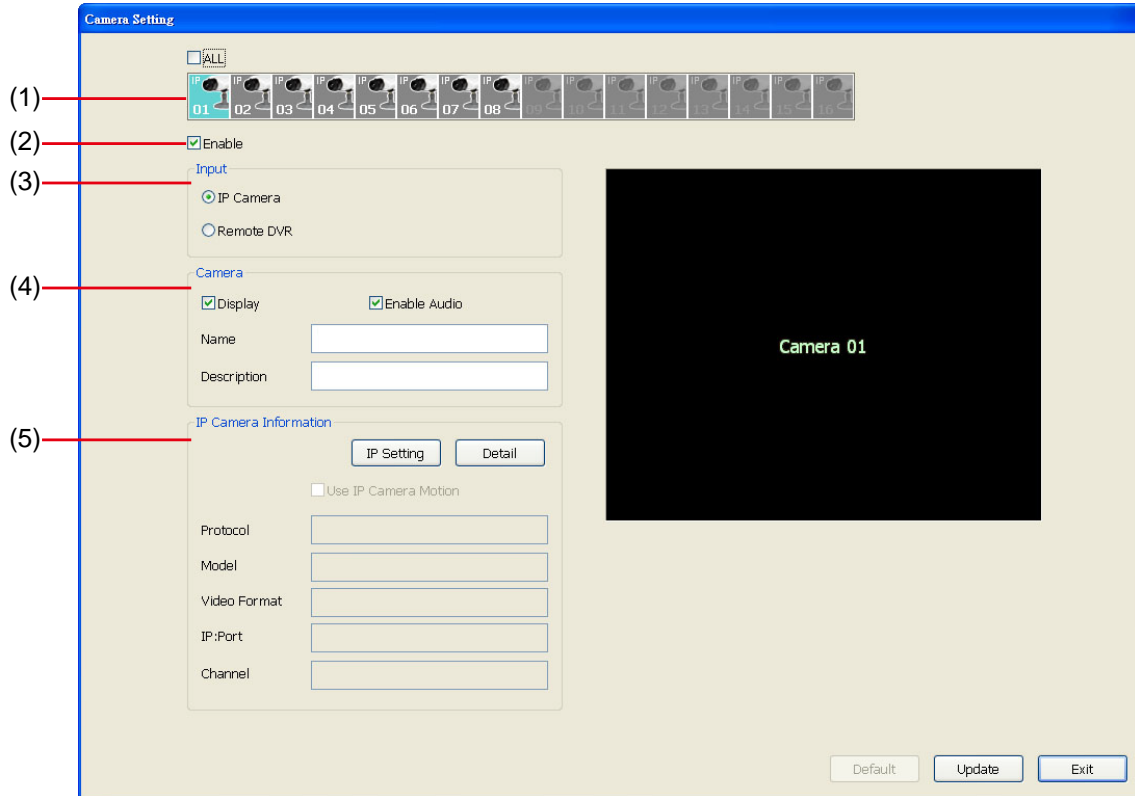
Display current system and connected IP camera firmware version.

9.2.2.2 Camera Setting

The MXR series can support up to 8 IP cameras.

To Setup IP Camera

Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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

Enter the name of the camera that will be seen on surveillance screen.

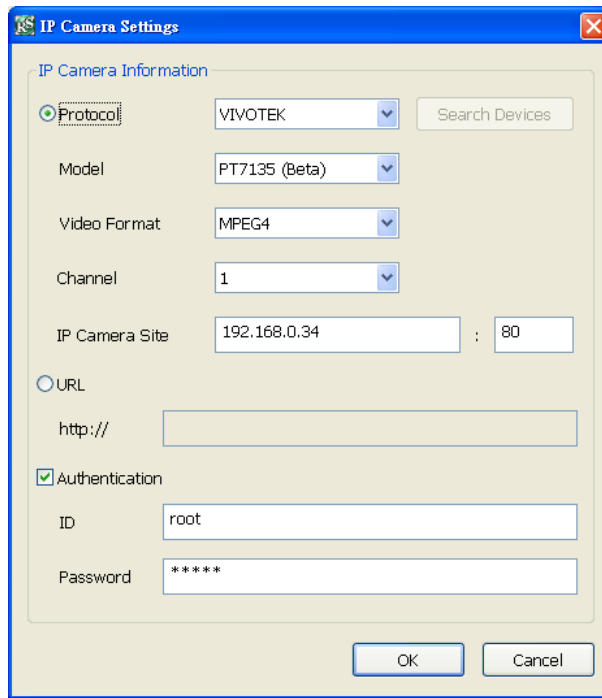
- Description

Add a short comment

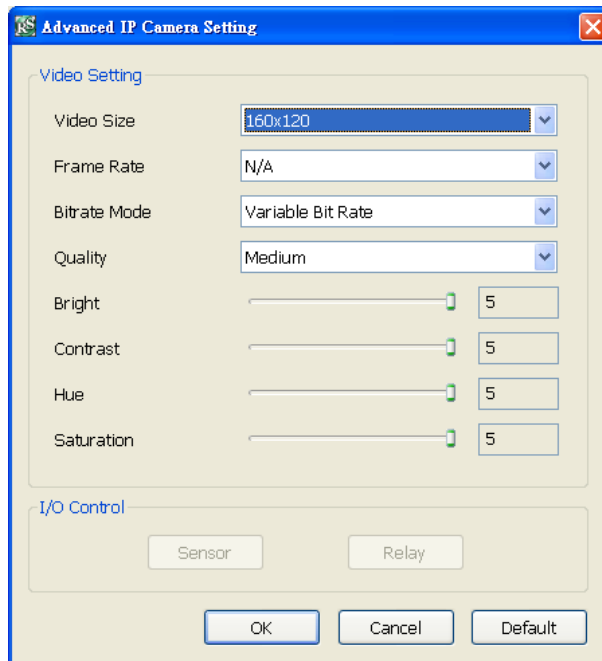
(5) IP Camera Information

To setup IP camera and display current IP camera information.

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



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



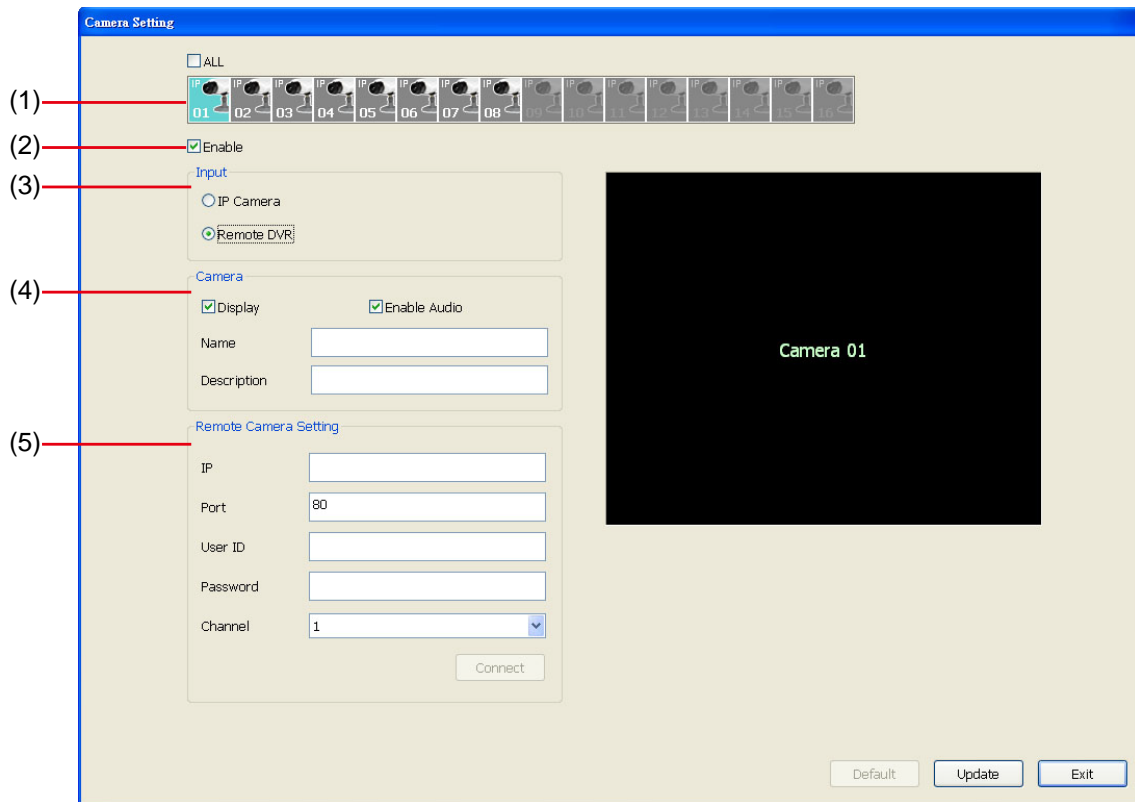
User can select **Video size**, **Frame rate**, **Bitrate mode** and **Quality** of camera. Also, user can adjust **Bright**, **Contrast**, **Hue**, **Saturation**, and **I/O Control** of the camera.



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

To Setup Camera from the Remote DVR

User can add the camera from another DVR through the network. Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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

Enter the name of the camera that will be seen on surveillance screen.

- Description

Add a short comment

(4) Remote Camera Setting

- IP

Enter the IP address of the camera

- Port

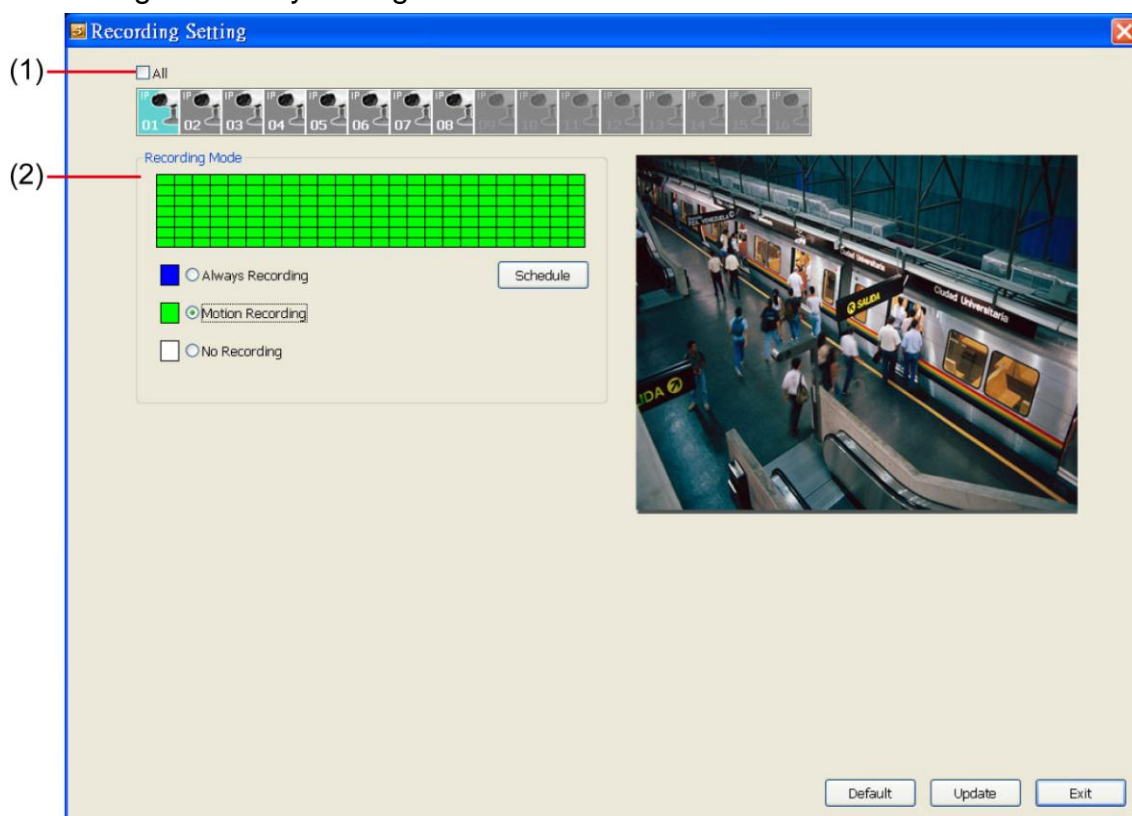
The port for connection

- 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.

9.2.2.3 Recording Setting

Click **Update** to accept the new settings, click **Cancel** 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 blocks represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the **Always Recording** mode. 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**

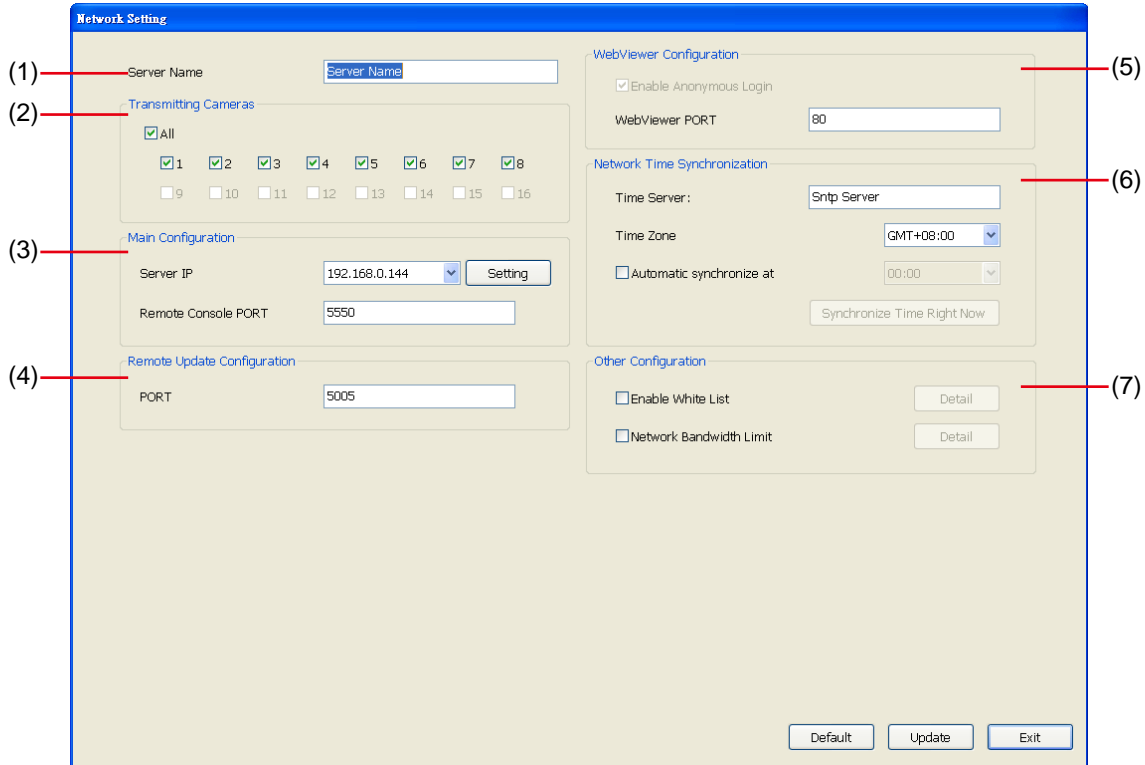
Start recording the video from the selected camera only when the system detects movement.

- **No Recording**

The system won't do any recording.

9.2.2.4 Network Setting

Click **Update** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory setting.



(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 WebViewer and Remote Console. 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. MXR series provides dual Gigabit LAN port to balance the bandwidth usage of the DVR system. User can configure one LAN port is for receiving data from IP camera. And the other one is for remote accessing to DVR system for recorded video viewing. Click **Setting** to setup DVR IP.

- **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
 - **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) WebViewer Configuration

Fill in the **WebViewer PORT** for remote accessing connection.

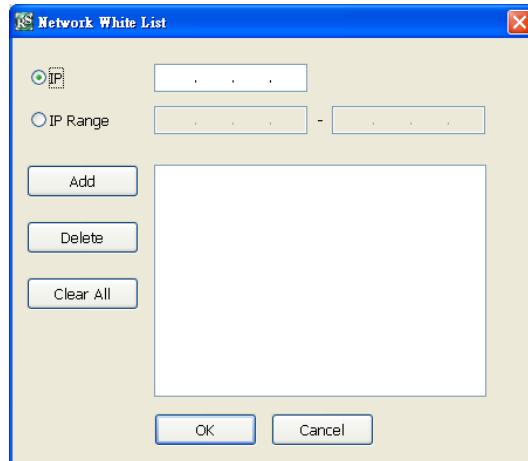
(6) Network Time Synchronization

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

- **Enable White List**

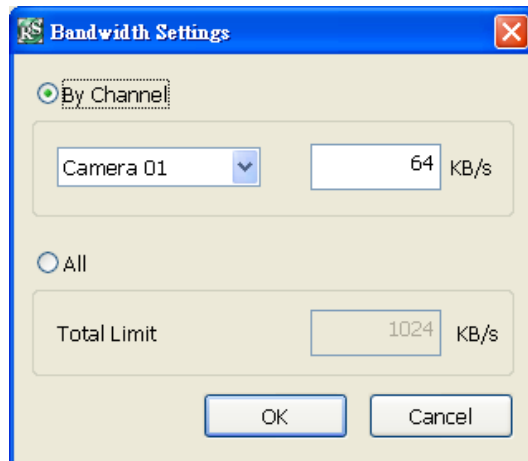
An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



- **Network Bandwidth Limit**

By Channel: Set the network bandwidth by each channel.

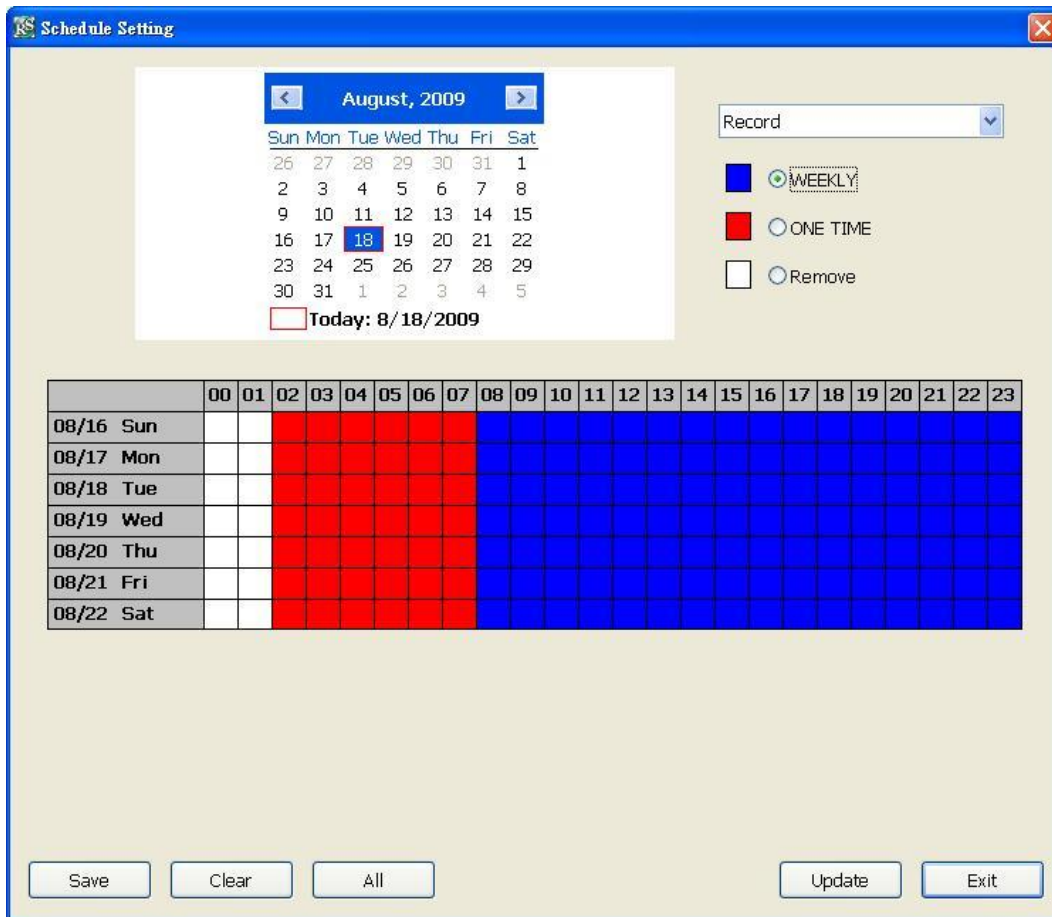
All: Set the total network bandwidth consumption limit.



9.2.2.5 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.

Click **Update** to accept the new settings and click **Save** to save the schedule setting. Click **Clear** can clear all schedule selecting and to select all click **All**. To exit click **Exit**, and click **Default** to revert back to original factory setting.



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
 - **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 save 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.

9.2.2.6 Sensor Setting

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

1. Click the drop-down list and select the sensor ID number.
2. Enter sensor name in **Name** column.
3. The system automatically detects the card and input number. 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 **Update** to accept the setting and **Exit** to exit without saving the setting.

The screenshot shows a software window titled "Sensor Setting". At the top left is a small icon and the title "Sensor Setting", and at the top right is a close button (X). Below the title bar is a drop-down menu currently showing "Sensor 1". Underneath is a "Name" label followed by a text input field containing "Sensor 01". To the right of this field is a button labeled "External IO". Below this is a section titled "Content" in blue text. It contains three input fields: "Card No." with the value "1", "Input No." with the value "1", and a larger text area for "Description" containing "Sensor 01 TEST". Below the "Content" section is another section titled "Test" in blue text. It contains a rectangular area on the left and a button labeled "Test" on the right. At the bottom of the window are two buttons: "Update" and "Exit".

9.2.2.7 Relay Setting

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

1. Click the drop-down list and select the relay ID number.
2. Enter relay name in **Name** column.
3. The system automatically detects the card and input number. 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 **Update** to accept the setting and **Exit** to exit without saving the setting.

The screenshot shows a software window titled "Relay Setting". At the top left is a small icon and the title "Relay Setting". At the top right is a close button (X). Below the title bar is a dropdown menu showing "Relay 1". Underneath is a "Name" label followed by a text input field containing "Relay 01". To the left of the "Enable" checkbox is a checked box, and to the right is an "External IO" button. Below this is a section titled "Content" in blue text. It contains three input fields: "Card No." with the value "1", "Input No." with the value "1", and a "Description" text area containing "Relay 01 TEST". Below the "Content" section is a section titled "Test" in blue text. It contains a large empty rectangular area and a "Test" button. At the bottom of the window are two buttons: "Update" and "Exit".

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

No.	Name	Description
1	Alarm 1	

1. Click **Add** to insert and set a new alarm setting. Click the items in the **Alarm Setting List** if you want to modify the alarm setting.

No.	Name	Description
1	Alarm 1	

2. In **No./Name/Description** enter alarm name and description. Alarm **No.** will be created by DVR system.

A screenshot of a form with three input fields: 'No.' containing '1', 'Name' containing 'Alarm 1', and 'Description' which is empty.

3. In **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.

A screenshot of the 'Enable Time' section. It features a horizontal row of 24 boxes representing hours from 00 to 23. All boxes are currently blue. To the right of the row is an 'Enable' checkbox, which is also checked and blue.

4. In **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.

A screenshot of the 'Conditions' section. It contains two radio buttons: 'Trigger if any' (which is selected) and 'Trigger if all'.

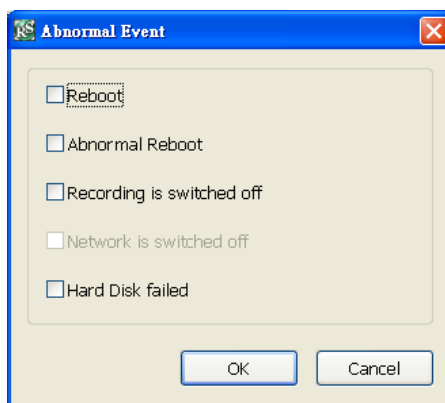
5. In **Camera** section, select and click on the camera number in **Video Loss** to set the condition for the system to alarm.

A screenshot of the 'Camera' section. It has three sub-sections: 'Motion Detected', 'Video Loss', and 'Audio Detected'. Each sub-section has a grid of 16 camera numbers (01-16). In the 'Video Loss' grid, the numbers 01, 02, and 03 are highlighted in pink.

6. In **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. Click **IP Camera Sensor** to configure sensor status of IP camera. Click **High/Low** to set sensor status to high or low.

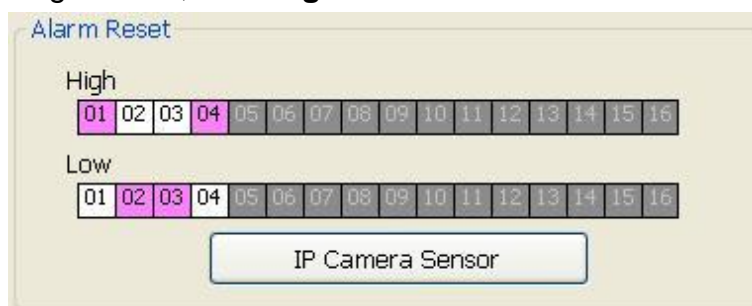
A screenshot of the 'Sensor' section. It has two sub-sections: 'High' and 'Low'. Each has a grid of 16 sensor numbers (01-16). In the 'High' grid, 03 is highlighted in pink; in the 'Low' grid, 04 is highlighted in pink. Below the grids is a button labeled 'IP Camera Sensor'. Underneath is a text input field for 'Continuous trigger duration' with the value '0' and the unit 'Seconds'. At the bottom left is a checkbox for 'Abnormal Event' and a 'Detail' button.

- **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.
- **Abnormal Event:** Enable/disable the condition of the event for system to alarm.

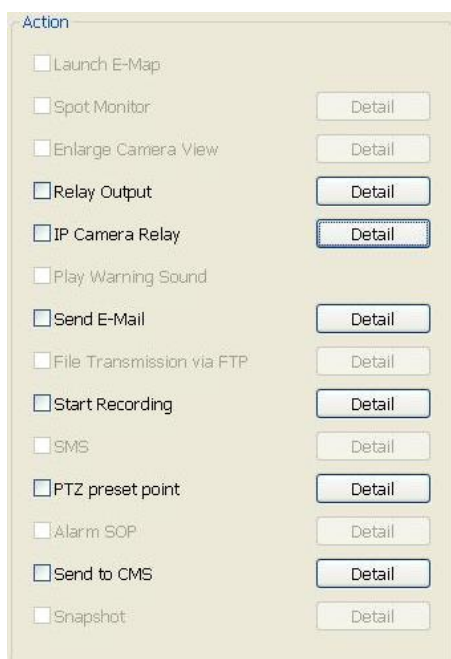


- **Reboot:** when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- **Abnormal Reboot:** when the DVR system reboot in irregular condition, the system will send out the alarm message.
- **Recording is switched off:** when the recording has been stopped, the system will send out the alarm message.
- **Hard Disk failed:** when the hard disk doesn't work normally, the system will send out the alarm message.

7. In **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. To set sensor status of IP camera, click **IP Camera Sensor**. In IP Camera Alarm Setting window, click **High/Low** to set sensor status.



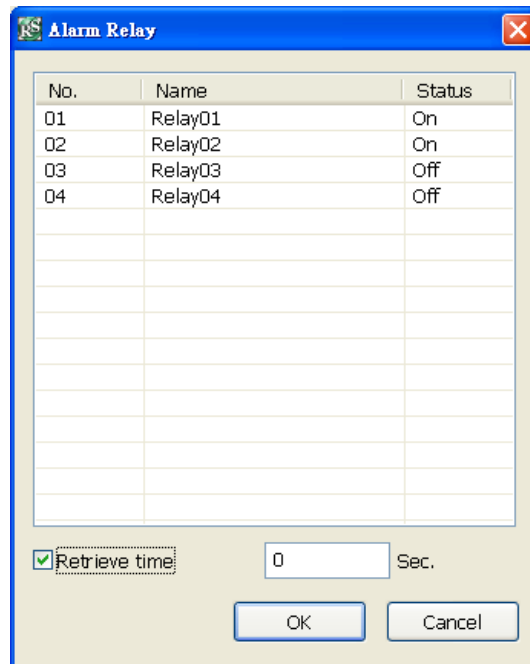
8. In **Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.



- **Relay Output**

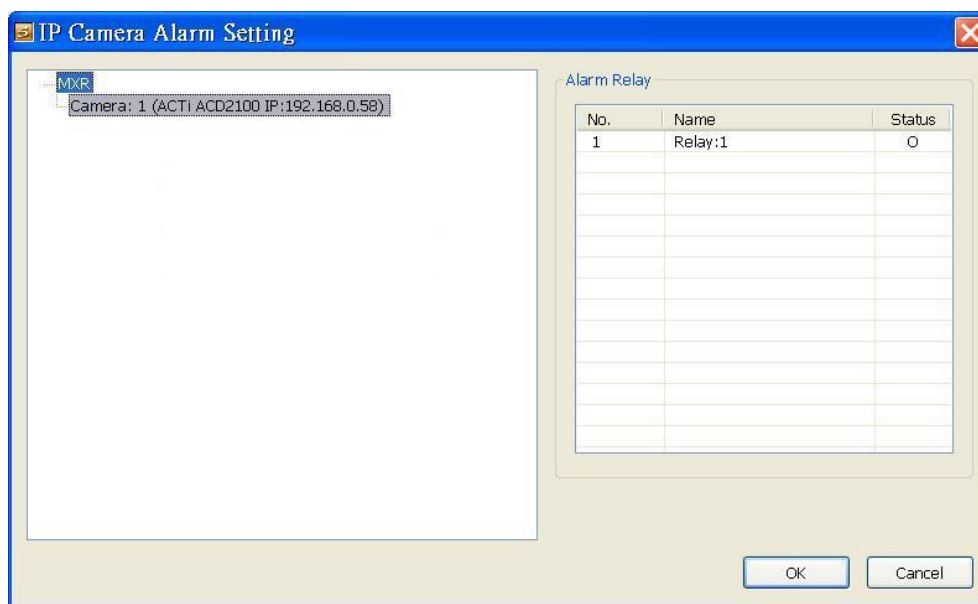
Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

1. Beside 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. In **Status** column, click to change the relay device status – circle means the status is on and blank means is off status.



- **Send E-mail**

Send an electronic text message. Beside 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.

■ **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**.

■ **Mail**

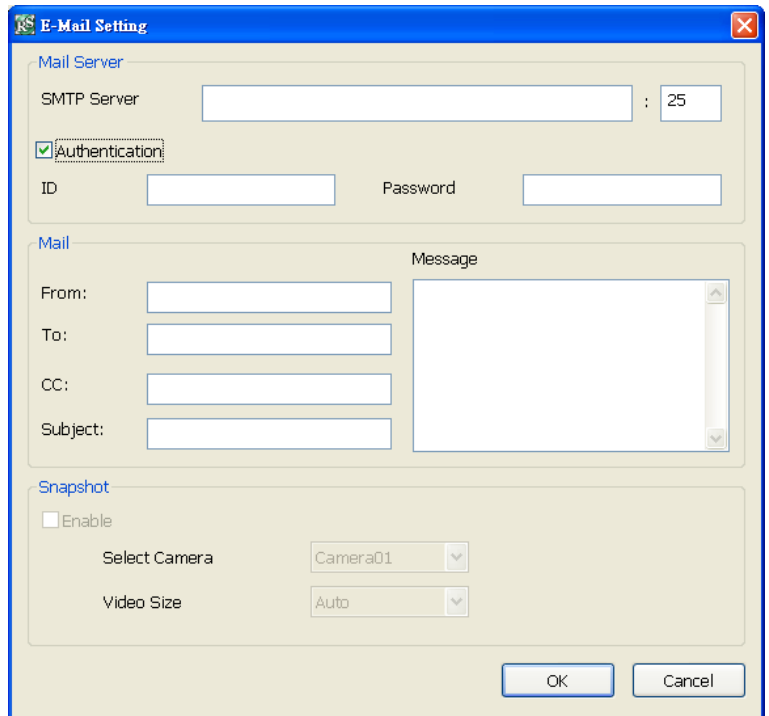
Fill the mailing information.

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. Beside the Start Recording check box, click **Detail**.

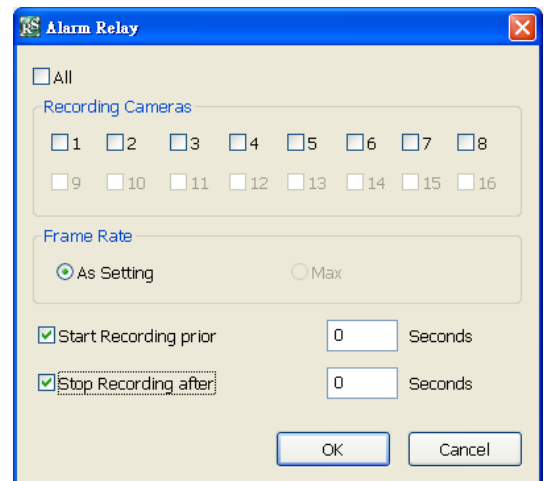
2. In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable **All** to select all cameras.

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.

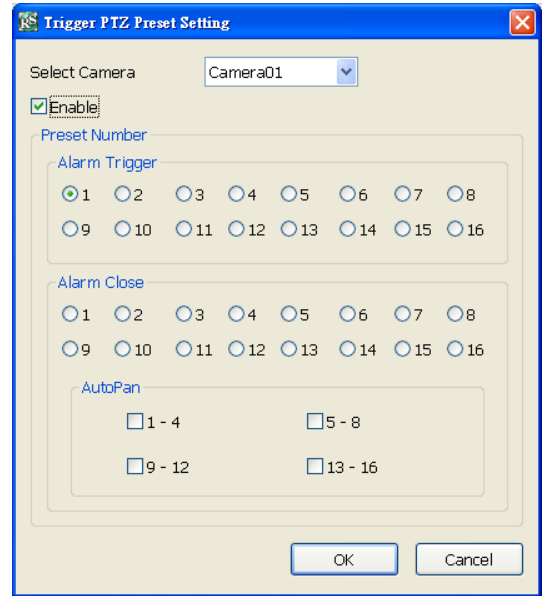
5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.

6. Click **OK** to accept the new settings and **Cancel** to exit without saving.



- **PTZ preset point**

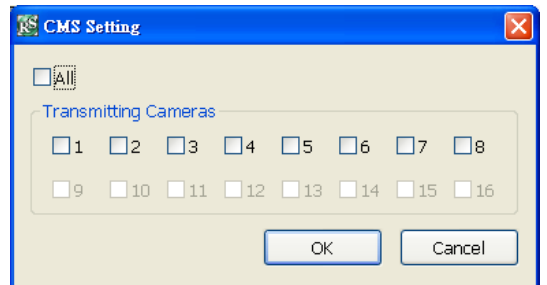
Position the PTZ camera based on the preset point setting. Beside the PTZ preset point check box, click **Detail**. In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number then select the **Enable** check box. Select the position of the PTZ camera when the alarm is activated and ended. 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.

Beside 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) WebViewer

Enable/disable WebViewer 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 Web Viewer.

- **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.

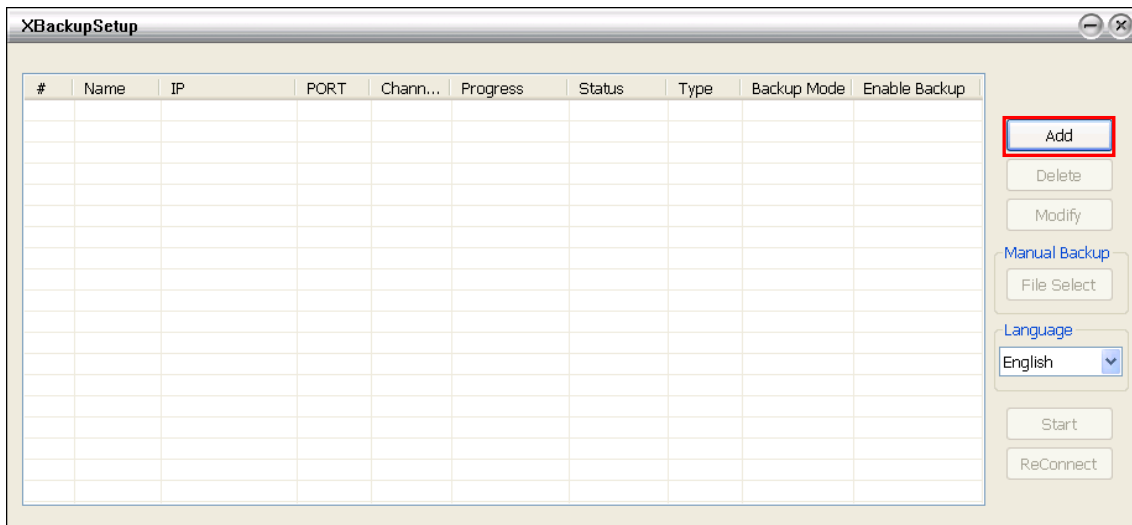
9.3 Using the Remote iBackup

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.

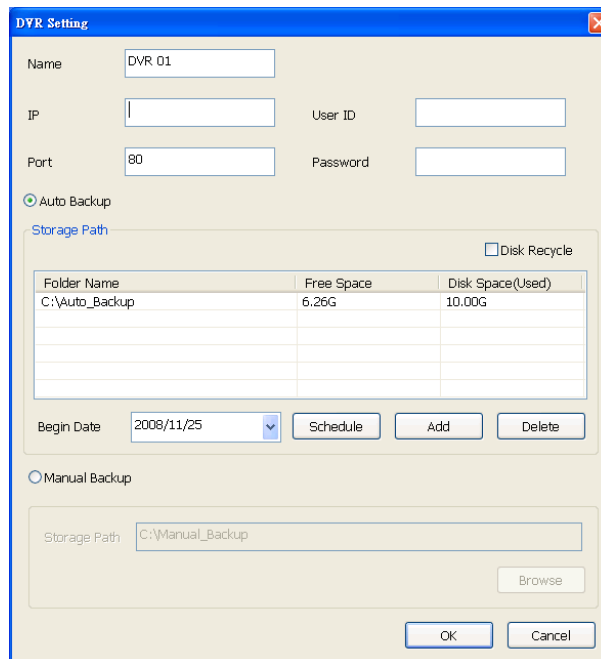
i To back up the data, you must have at least 2G hard disk space.

■ 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

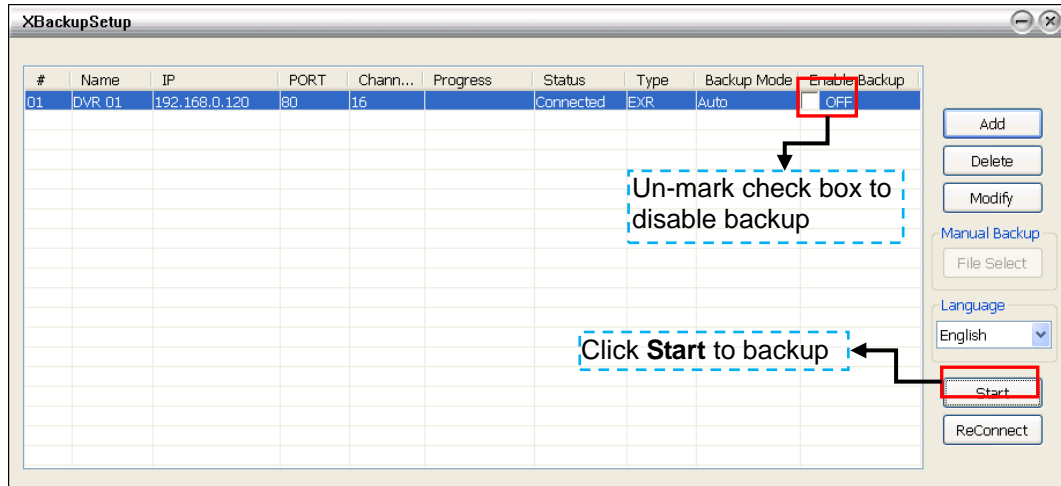
when it is unselected.

- Enable/disable **Disk Recycle** check box, to automatically overwrite the oldest file when there is not enough free space to backup the file.

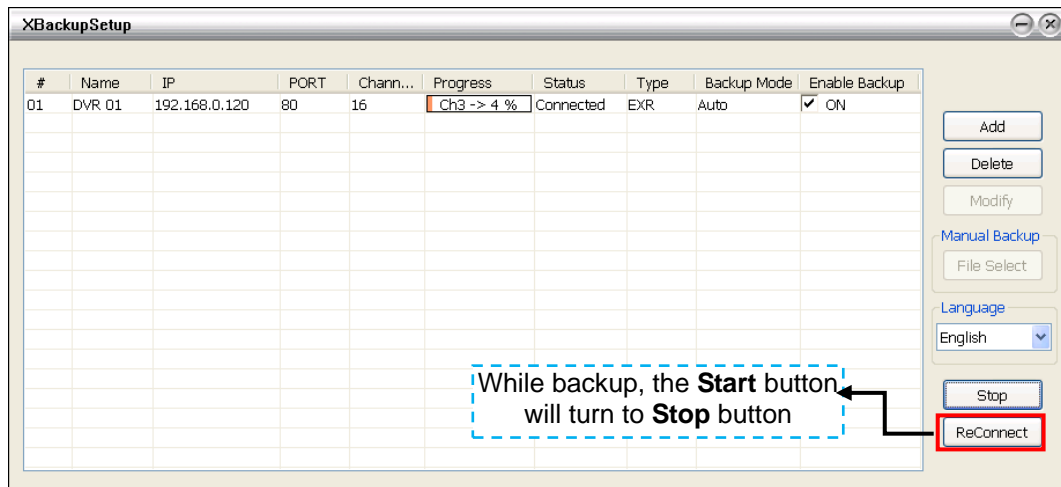
■ **Manual Backup mode:** the backup progress will start when user press the backup button

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

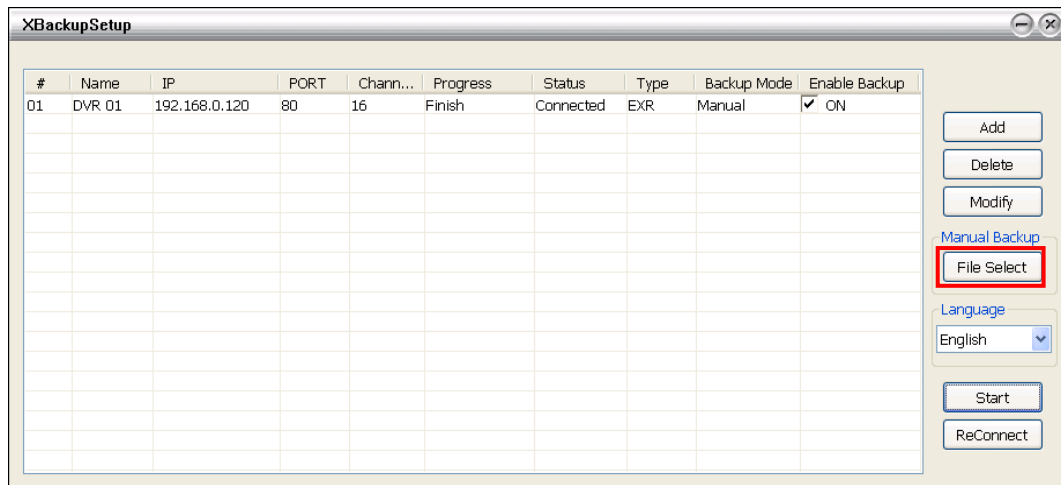
6. Click **OK** to complete the adding DVR server. The added DVR server will display in Remote Backup main window.



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.



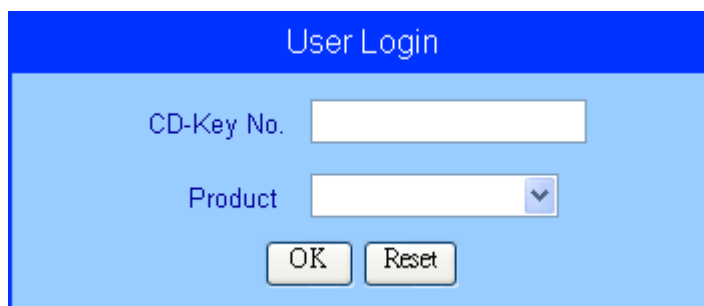
Appendix A Registering Domain Name

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 to access the following dialog.



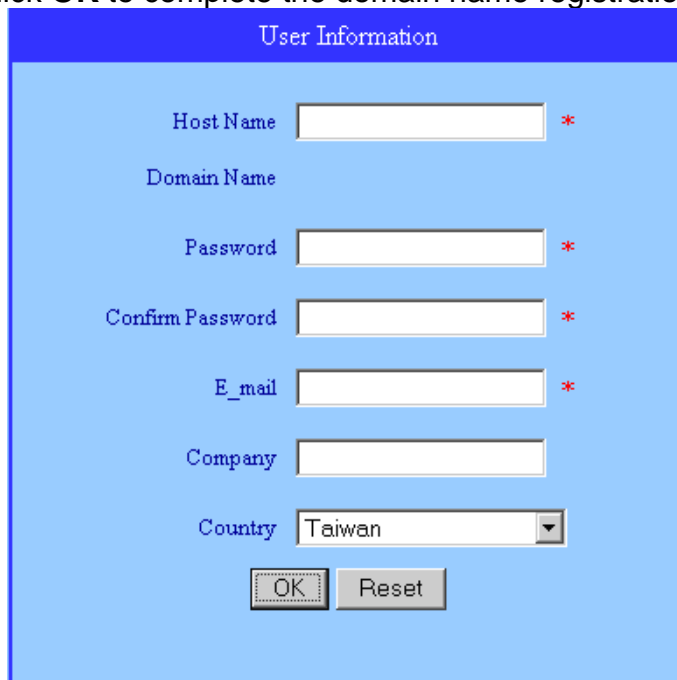
The 'User Login' dialog box has a blue header with the title 'User Login'. Below the header, there are two input fields: 'CD-Key No.' with a text box and 'Product' with a dropdown menu. At the bottom, there are two buttons: 'OK' and 'Reset'.

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

i In the Preview mode of MXR Client Software, click  button. In **Mode Select** window, select the setup mode –**Server Setup**. The DVR configuration setup selection will appears, select and click **Network**. In Network Setting window, click **Setting** of Server IP and user should see the MAC address of the DVR server.

3. User Information

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



The 'User Information' dialog box has a blue header with the title 'User Information'. Below the header, there are several input fields: 'Host Name' (text box with a red asterisk), 'Domain Name' (text box), 'Password' (text box with a red asterisk), 'Confirm Password' (text box with a red asterisk), 'E_mail' (text box with a red asterisk), 'Company' (text box), and 'Country' (dropdown menu with 'Taiwan' selected). At the bottom, there are two buttons: 'OK' and 'Reset'.

Warranty Notice

LIMITED WARRANTY

AVerMedia 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 (1) one year from the date of purchase

Parts are warranted for (1) one 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. AVerMedia 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

This warranty gives you specific legal rights, and you may also have other rights granted under state law. These rights vary from state to state

CONTACT INFORMATION

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