

AVerMedia[®]

XR8032

User's Manual

FC CE

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 when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION ON MODIFICATIONS

To comply with the limits for the Class A digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class A limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Changes and modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

European Community Compliance Statement (Class A)



This product is conformity with the protection requirements of EU Council Directives 89/336/EEC amended by 92/31/EEC on the laws of the Member States relating to electromagnetic compatibility.

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

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

Battery Safety Information

Store the batteries in a cool dry place.

Do not dispose of used batteries in domestic waste. Dispose of batteries at special collection points or return to point of sale if applies.

Remove the batteries during long periods of non-use. Always remove exhausted batteries from the remote control. Battery leakage and corrosion can damage this remote control, dispose of batteries safely.

Do not mix old and new batteries.

Do not mix different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).

Do not dispose of batteries in a fire. The batteries may explode or leak.

Never short circuit the battery terminals.

**WARNING**

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

**CAUTION**

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

Manual Conventions

The following conventions are used throughout this manual



Caution symbol is intended to alert the user of the important installation and operating instructions. Fail to comply may damage the system.



Information symbol is intended to provide additional information for the purpose of clarification.

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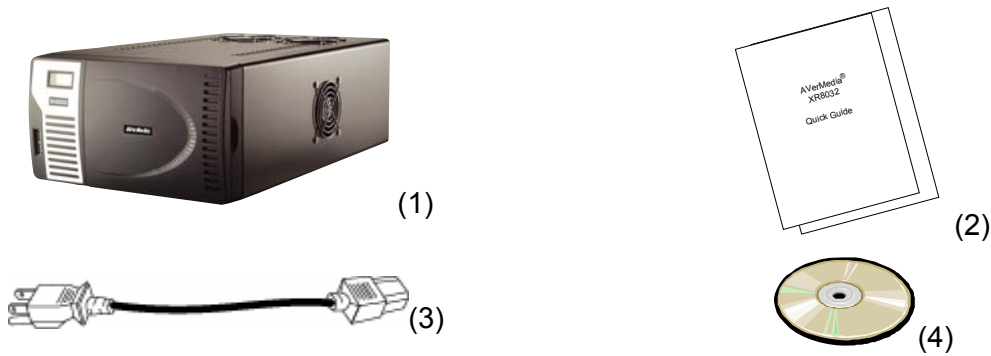
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Chapter 1 Introduction

AVerMedia® XR8032 is a standalone DVR unit that through the network to receive video and monitoring and recording of video. It can connect 8 sensors and relays. The XR8032 is customized to use it right away. No more software and hardware installation. Just connect the cables and you may now start video surveillance. Through the USB port, user can backup the recording video and playback within the bundled software on personal computer.

1.1 Package Contents



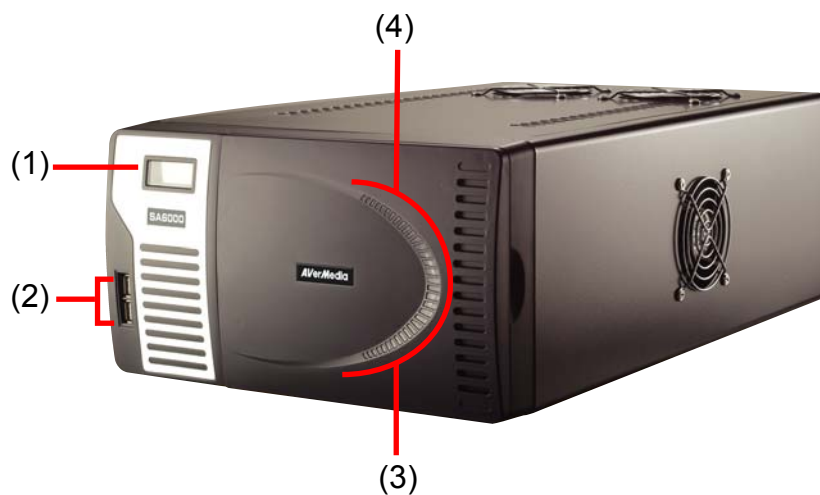
- (1) XR8032 unit
- (3) Power cord

- (2) Quick Guide
- (4) Utility Software CD (Manual included)



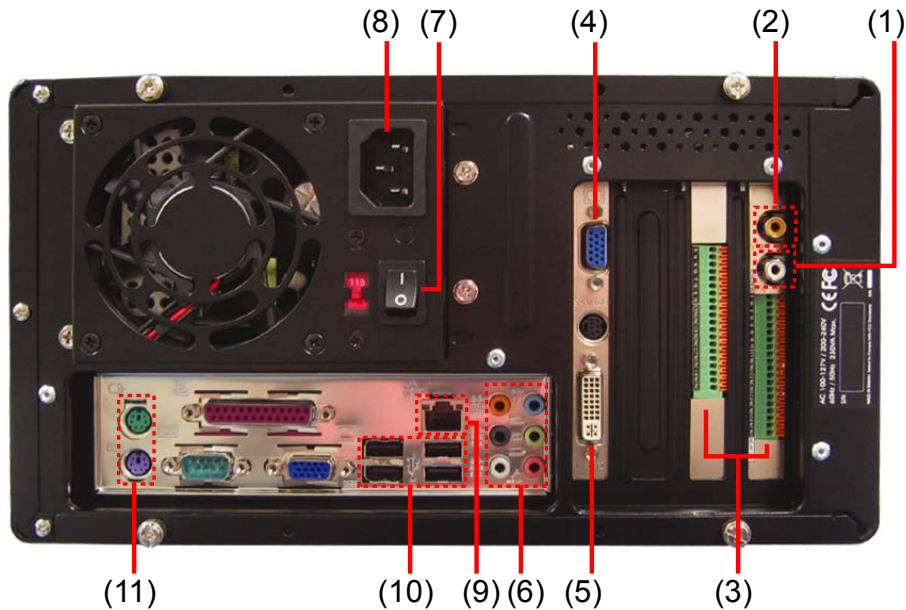
If there is any damage, shortage or inappropriate item in the package, contact your local dealer immediately.

1.2 Front Panel



Name	Function
(1) Temperature display panel	The panel will display the system current operating temperature
(2) USB ports	To connect external USB interface devices
(3) Power light	System power light
(4) Operating light	System operating light

1.3 Back Panel

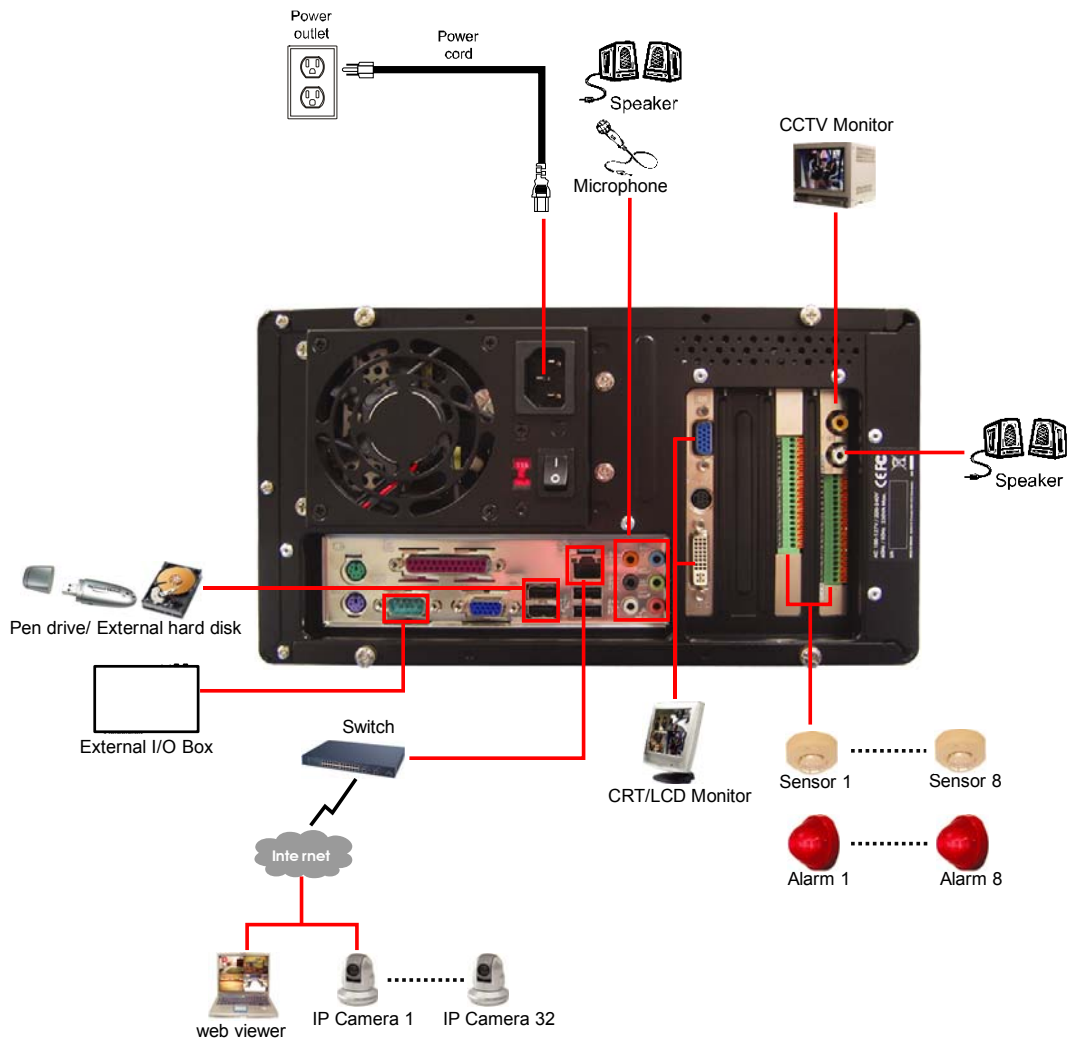


Name	Function
(1) Audio Out	Output the audio of the selected video channel i The audio output device needs to be powered by external power.
(2) TV Out	Output the video signal to a CCTV monitor
(3) Sensor In Relay Out	Support 8 sensor devices and 8 relay devices (Relay: 1A @ 125V AC/30V DC)
(4) VGA Out	Output the video signal to a CRT monitor
(5) Video Out (DVI)	Output the video signal to a LCD monitor
(6) Speaker/Microphone port	Connect the speaker and microphone i The speaker and microphone needs to be powered by external power.
(7) Power switch	Switch on/off DVR unit
(8) Power plug	Connect the power cord into this port
(9) LAN Port	For Ethernet connection
(10) USB Port	4 USB port for connection any USB interface devices
(11) Keyboard/mouse port	Connect the keyboard and mouse.

1.4 Connecting Device

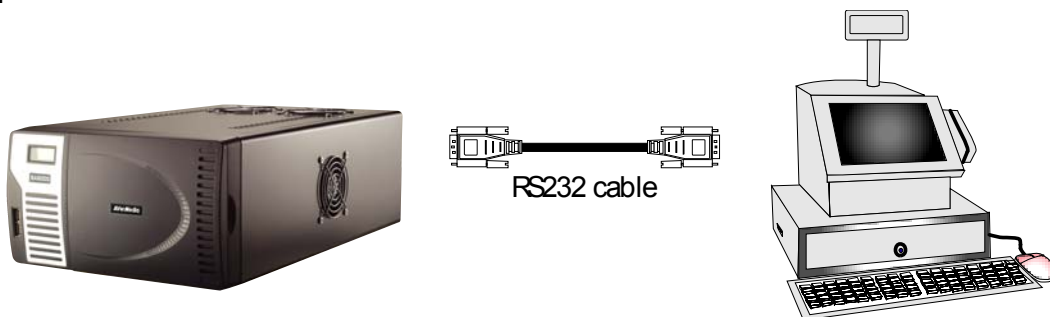
The DVR unit can connect up to 32 IP cameras through internet and also can connect 8 sensor devices, 8 alarm device and output video to a TV or CRT/LCD monitor. Connecting the unit to an external hard disk through USB connection, the bundled software enables you to transfer and back up the recorded video. Also, the bundled software can playback and segment the backup recorded video.

Follow the illustration below to make the connection:



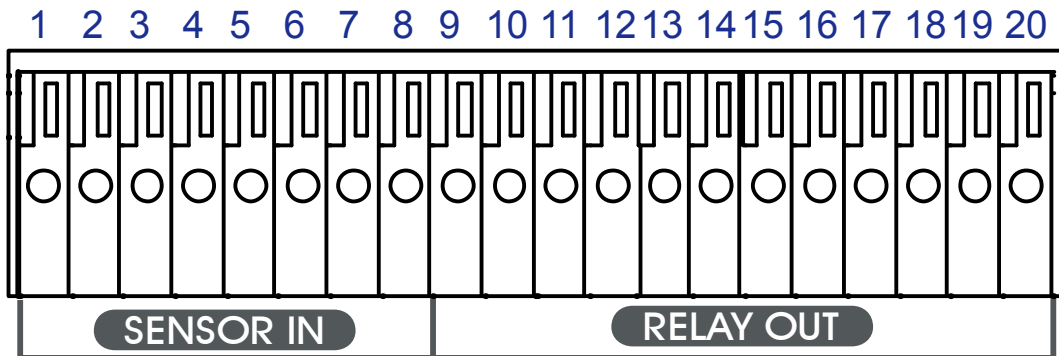
1.5 Connecting POS (Point of Sales)

AVerMedia® XR8032 can be integrated with POS system equipment. Connecting the POS equipment to DVR system thru RS232 connection, enables you to view, record and keep track of the items that were sold. You may also select the camera on where to display all the data. To connect, locate the RS232 port of the POS equipment and PC. Use an RS232 cable (not supplied) to make the connection. For more detail, please refer to ***POS user manual***.



1.6 Connecting the Sensor/Relay device

The I/O card enables you to connect (8) sensor inputs and (8) relay outputs. Just connect the external sensor and relay pin directly to the I/O card pinhole. Check the table below and locate which pinhole is assigned to sensor input and relay output. The two set of I/O card pinhole are the same.



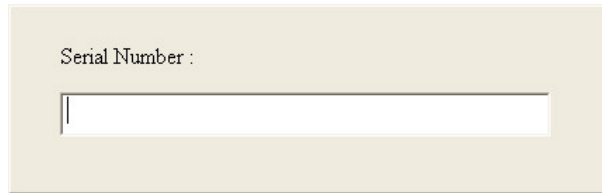
The signal from the sensor (i.e., infrared sensors, smoke detectors, proximity sensors, door sensors, etc.) is being transmitted to the I/O card and this triggers the system to respond and send signal to relay device (i.e., alarm, telephone etc).

Pin #	Definition	Pin #	Definition
1	Sensor 1/5 input signal	11	Relay Normal Close 1/5
2	Sensor 1/5 Ground	12	Relay Common 2/6
3	Sensor 2/6 input signal	13	Relay Normal Open 2/6
4	Sensor 2/6 Ground	14	Relay Normal Close 2/6
5	Sensor 3/7 input signal	15	Relay Common 3/7
6	Sensor 3/7 Ground	16	Relay Normal Open 3/7
7	Sensor 4/8 input signal	17	Relay Normal Close 3/7
8	Sensor 4/8 Ground	18	Relay Common 4/8
9	Relay Common 1/5	19	Relay Normal Open 4/8
10	Relay Normal Open 1/5	20	Relay Normal Close 4/8

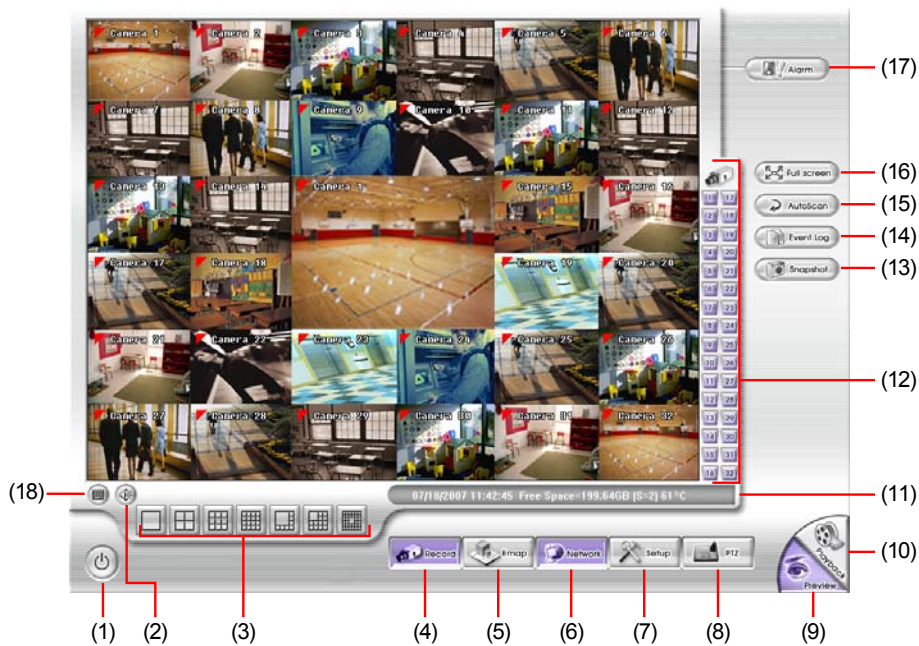
Chapter 2 Using the DVR Software

2.1 Running the Unit for the First Time

When the unit is turned on for the first time, the system will prompt you to enter the serial number. The serial number is inside the package.

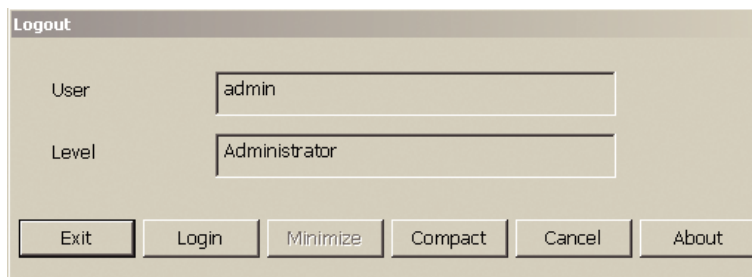


2.2 Function buttons of Advanced/Preview Mode













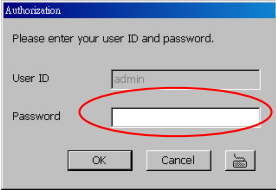


Name	Function
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(1) Exit Call up the Logout dialog box. In the logout dialog box, you may do the following:



- Click **Exit** to close the DVR program.
- Click **Login** to sign-in in different account.
- Click **Compact** to switch to compact mode (see [2.4](#)).
- Click **Cancel** to exit Logout dialog box.
- Click **About** to update patch or find about the software info.

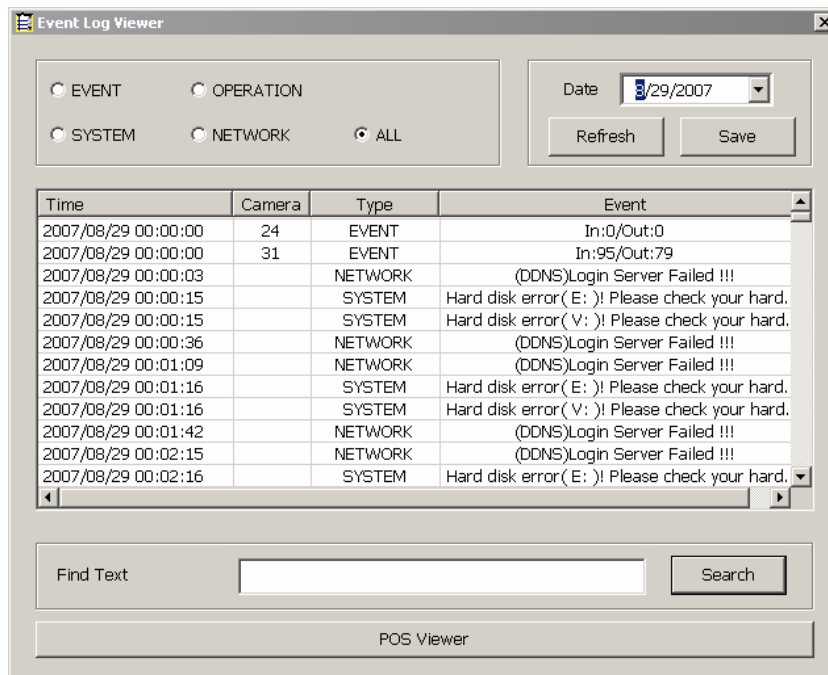
(2) Volume Adjust the audio volume to a proper volume.

Name	Function
(3) Split Screen Mode	<p>It provides 7 kinds of split display modes for your selection. You can select one of the split display modes by clicking the following icon.</p> <ul style="list-style-type: none">  1-Cam display  4-Cam split display  9-Cam split display  16-Cam split display  8-Cam split display  13-Cam split display  32-Cam split display
(4) Record	<p>Click  to start recording. The button turns violet when it is recording. Click it again to stop</p>
(5) E-Map	<p>Click  to load up to 8 desired E-Maps in BMP or JPG image format, and locate cameras, sensors, and relays to desired positions (see also 2.6)</p>
(6) Network	<p>Click  to allow inbound connections. When this function is enabled, the button turns violet. Click it again to disable all inbound connections.</p>
(7) Setup	<p>When setting up the system for the first time, type the word “admin” in the Password text box to access.</p>  <p>Click  button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication (see also Chapter 3)</p>
(8) PTZ	<p>Click  to pop-up a PTZ setup dialog to configure an appointed PTZ camera (also see 2.5)</p>
(9) Preview	<p>Click it to switch between Advanced/Preview Screen and Playback Screen (also see 2.3)</p>
(10) Playback	
(11) Status Bar	<p>It shows the current time, and the hard disk’s free space.</p>
(12) Camera ID	<p>Click a desired icon to play the desired channel. After you click the icon, it turns yellow. If you assign a split display mode and appoint a camera number, the icon group of the cameras will turn yellow altogether.</p>
(13) Snapshot	<p>Catch a static recording image and save it as a BMP or a JPG file.</p>
(14) Event log	<p>Click it to pop-up the Event Log Viewer dialog to check Event, Operation, POS (Point of Sales), System and Network logs. You can select a desired date and a log item to show all logs data in the table.(also see 2.2.1)</p>
(15) AutoScan	<p>Click it to start Auto Scan.</p>

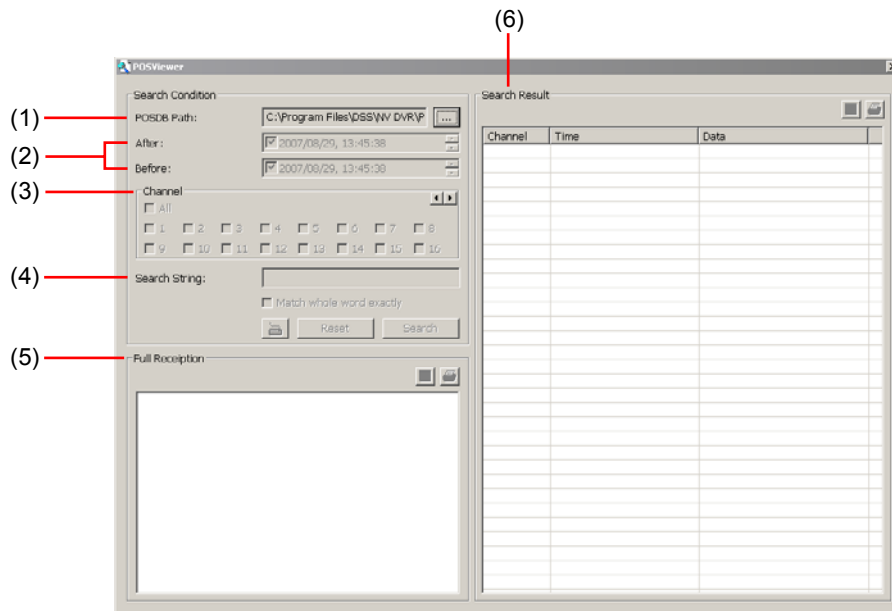
Name	Function
(16) Full screen	<p>Click it to turn to full screen mode. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.</p>  <p>Click the arrow icon to leave from full screen display mode</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(17) Alarm	Click  to view the status or advanced alarm information.
(18) On Screen Keyboard	If the keyboard is not available, you may use the Virtual Keyboard.






2.2.1 Using Event Log Viewer

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



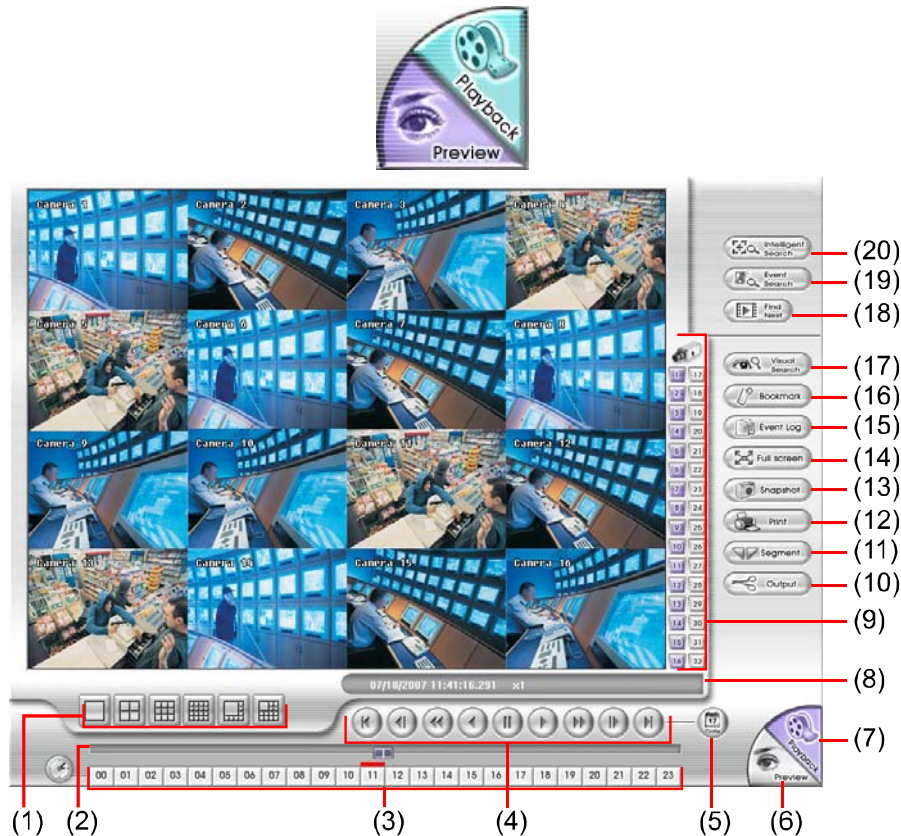
1. Click the Event Log button on DVR system main interface. The Event log viewer window will show up.
2. Select the Date to view or search certain event log by key word. Enter the key word in **Find Text** column and click **Search** button.
3. To filter the records, select and click the select button to display Event, System, Operation, Network or All.
4. The events list which display on the screen can be saved as text file format. To save the events list, click **Save** button.
5. To view POS event log, click **POS Viewer** bar to call out the POS event log window.




Name	Function
(1) POSDB Path	The storage path for POS event log. Click  to change the storage path.
(2) Before/After	Set a time period before and after of POS event log.
(3) Channel	Select the POS event log of channel
(4) Search String	Enter specific key word or word string to search the POS event log. Mark the “ Match whole word exactly ” box if wants to find exactly key word or word string of POS event log.
(5) Full Reception	Display the POS event log detail that user selected from Search Result window. Click  to save the POS event log. Click  to print out the POS event log.
(6) Search Result	Display the POS event log of search result. Click  to save the search result. Click  to print out the search result.

2.3 Familiarizing the Buttons in Playback Mode

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



Name	Function
(1) Split Screen Mode	Select from 6 kinds of split screen type to playback the recorded video file of all the cameras, or one camera over the other or alongside on a single screen. To view 32 channels, click 16 split screen button to switch channel display.
i	<ul style="list-style-type: none"> - If there are only 4 cameras, you won't be able to switch to 9, 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	<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, or 1/8x.</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>

Name	Function
(4) Playback Control Buttons	<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>
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
<p>i The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.</p>	
(6) Preview	Switch to Preview/Playback 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) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format (see also 2.7).
(11) Segment	Keep a portion of the recorded video (see also 2.7).
(12) Print	Print the screen shot.
(13) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(14) 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.
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Click the arrow icon to exit from full screen display mode</p> </div> </div>	
<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>	
(15) 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.
(16) 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 2.8)
(17) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also 2.9)
(18) Find Next	Search for the next event or changes in the motion detector frame.

Name	Function
	You can use this when you are using Intelligent Search or Event Search function.
(19) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (See also 2.10)
(20) Intelligent Search	Search the changes in the motion detector frame (See also 2.11).

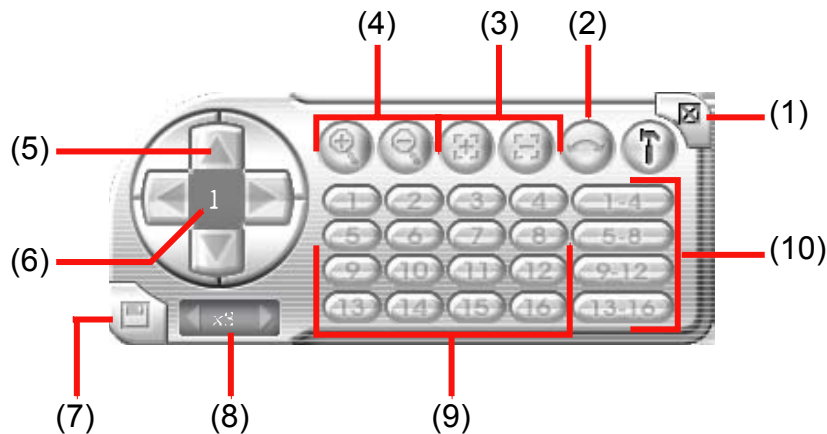
2.4 Familiarizing the Buttons in Compact Mode

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



Name	Function
(1) Split Screen Mode	Select from 7 kinds of split screen type to view 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 cameras, you won't be able to switch to 9, 16, 13, and 32 split screen mode. - When you are in single screen mode, Right click and Drag a square on the area you want to enlarge. - When you are in multiple-screen mode, Right click the video screen of the camera and Drag on where you want to locate it. To only display one of the video in the multiple-screen mode, Left click the video screen you want to display.
(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 2.3)

2.5 Familiarizing the Buttons in PTZ Camera Controller



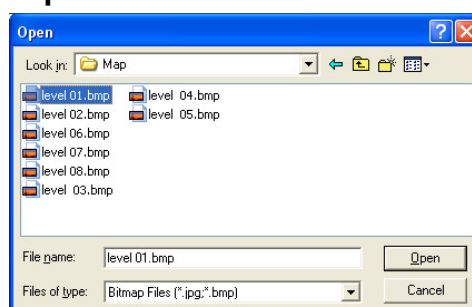
Name	Function
(1) Close	Exit PTZ camera controller.
(2) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(3) Focus +/-	Adjust the focus manually to produce clear image.
(4) Zoom +/-	Zoom in and out the image.
(5) Direction buttons	Adjust and position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

2.6 Setting Up and Using the Emap

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

2.6.1 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**.



1. 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. Right click camera icon can select the camera direction in 8 angles. 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**.

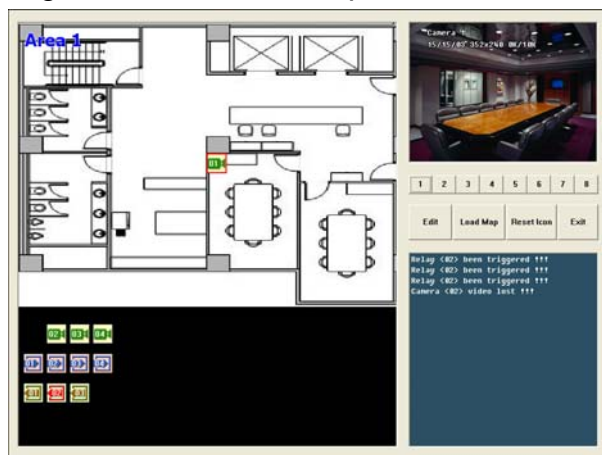


4. When you are done, click **Edit** button to save the new setting. To close Emap screen, click **Exit**.

2.6.2 To Use the Emap

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. Click **Exit** to close Emap screen.

2.7 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.

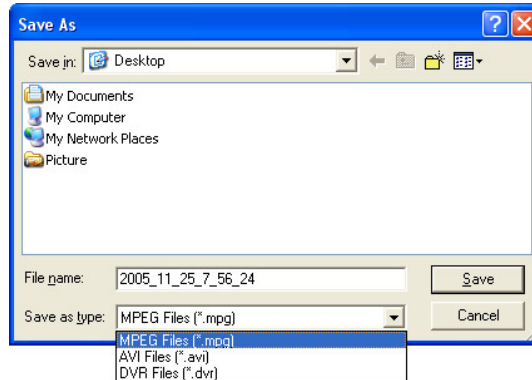


2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button

again.



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



2.8 To Bookmark a Section of the Video

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. You may select to enable/disable file protection.
 - **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.

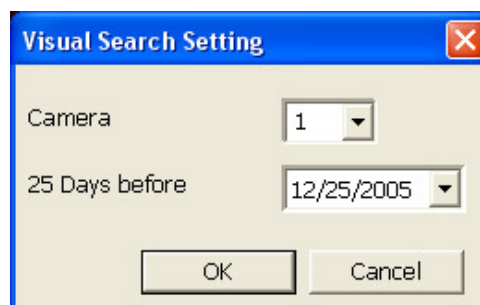


- When the bookmark is protected, the file won't be overwritten.
- The protected bookmark file will be deleted when the **Delete the recorded data** is enable in the **System setting**.(also refer to [3.1 System setting](#))

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

2.9 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




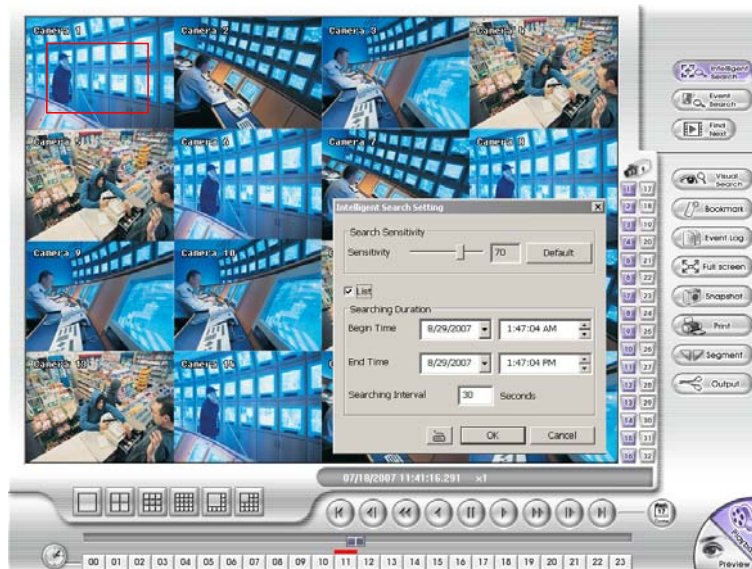
2.10 To Search Using the Event Search

1. Click on the video screen on where you want to search.
2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
3. In the Event Search Setting dialog box, check the type of condition you want to search. 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.

	Event	Time
1	VL	2005 11/25 07:56:19
2	VL	2005 11/25 07:56:49
3	VL	2005 11/25 07:57:20
4	VL	2005 11/25 07:57:50
5	VL	2005 11/25 07:58:21
6	VL	2005 11/25 07:58:52
7	VL	2005 11/25 07:59:22
8	VL	2005 11/25 07:59:53
9	VL	2005 11/25 08:00:24
10	VL	2005 11/25 08:00:55
11	VL	2005 11/25 08:01:26
12	VL	2005 11/25 08:01:56
13	VL	2005 11/25 08:02:26
14	VL	2005 11/25 08:02:57

2.11 To Search Using the Intelligent Search

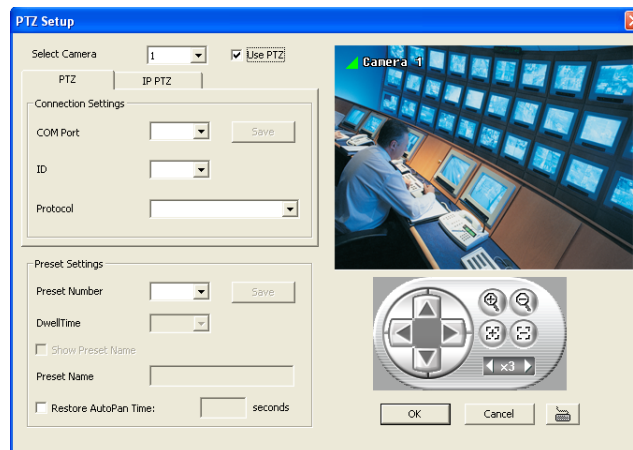
1. Click on the video screen on where you want to search.
2. Click **Intelligent Search**. The Intelligent Search text (red) would appear at the lower left corner of the screen.
3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click .
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.



2.12 To Setup the PTZ/IP PTZ Camera

2.12.1 Setup the PTZ Camera

1. In the PTZ control panel, click **Setup**.
2. When the PTZ Setup dialog box appears, select the camera number and check the **Use PTZ** box.

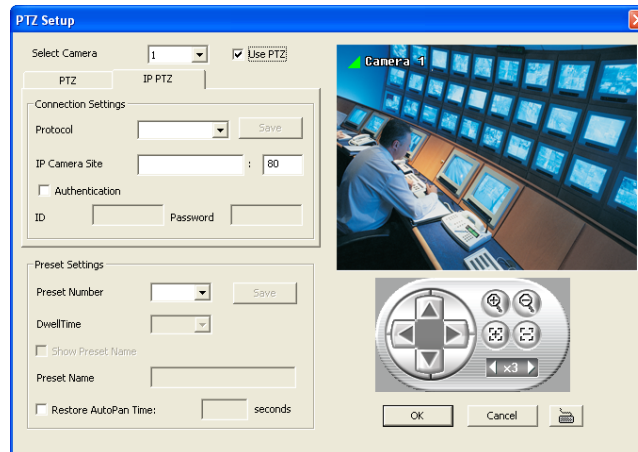


3. In the Connection Settings section, select the **COM Port** where the PTZ camera is connected, PTZ ID number and PTZ camera protocol. Then, click **Save** to keep the settings.
4. Use the PTZ control panel and adjust the position of the PTZ camera.
5. In the **Preset Setting** section, select the preset number to assign a number for the PTZ camera current position. Set the **DwellTime** (1-60 sec) for how long the PTZ camera stays in that position before it moves to the next one. If you want to add description, check the **Show Preset Name** box and in the **Preset Name** text box, type the word. When done, click **Save** to keep the settings.
6. Repeat step 4 & 5, if you want to save another PTZ camera position.
7. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved. Mark the check box and set the time period in second.
8. When is done, click **OK** to save the setting or Click **Cancel**, to leave without saving the new setting.

2.12.2 Setup the IP PTZ Camera


1. In the PTZ control panel, click **Setup**.
2. When the PTZ Setup dialog box appears, click **IP PTZ** tab.

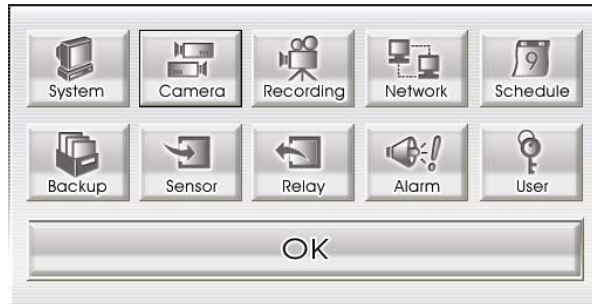
3. Select the camera number and check the **Use PTZ** box.



4. In the Connection Settings section, select the **Protocol** where the PTZ camera is connected and IP Camera Site that IP or URL of IP camera. Then, click **Save** to keep the settings.
5. Use the IP PTZ control panel and adjust the position of the IP PTZ camera.
6. In the **Preset Setting** section, select the preset number to assign a number for the IP PTZ camera current position. Set the **DwellTime** (1-60 sec) for how long the IP PTZ camera stays in that position before it moves to the next one. If you want to add description, check the **Show Preset Name** box and in the **Preset Name** text box, type the word. When done, click **Save** to keep the settings.
7. Repeat step 4 & 5, if you want to save another PTZ camera position.
8. **Restore AutoPan Time**: set a time period for restoring auto path function after the IP PTZ camera has been moved. Mark the check box and set the time period in second.
9. When is done, click **OK** to save the setting or Click **Cancel**, to leave without saving the new setting

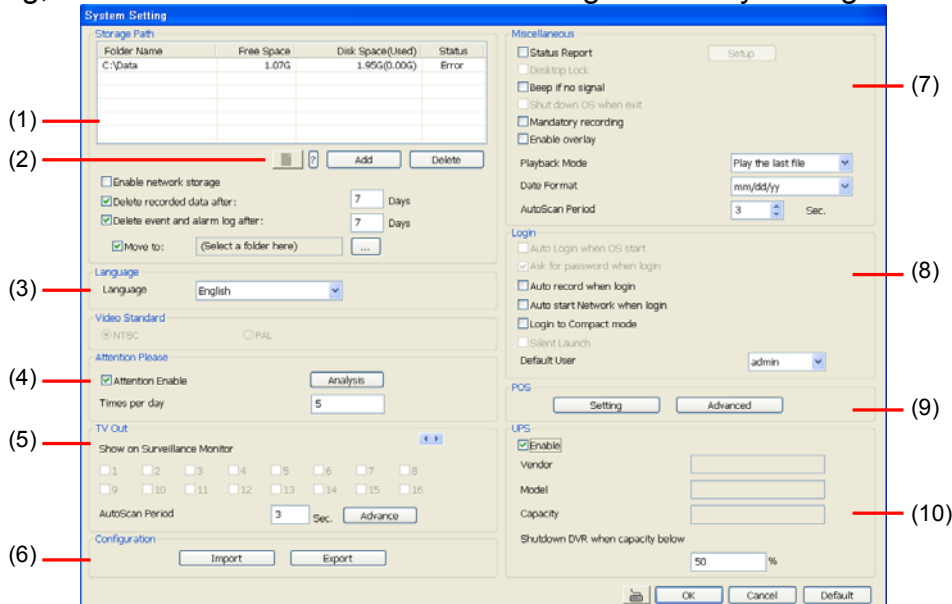
Chapter 3 Customizing the DVR System

In the Preview/Advanced screen mode, click  button to customize your DVR. When the DVR configuration setup selection appears, select and click the buttons you want to change the setting.



3.1 System Setting

In the System Setting dialog box, click **OK** to accept the new settings, click **Cancel** to exit without saving, and click **Default** to revert back to original factory 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. You may also add additional network-attached storage (NAS) for extremely high storage capacity. Select the Enable network storage check box to send the recorded video in network-attached storage. To add network storage, the Internet storage drive/folder must be mapped as Network Driver in DVR server. To know how to assign or connect to a network drive, please refer to your Windows help file and search "Map Network drive".

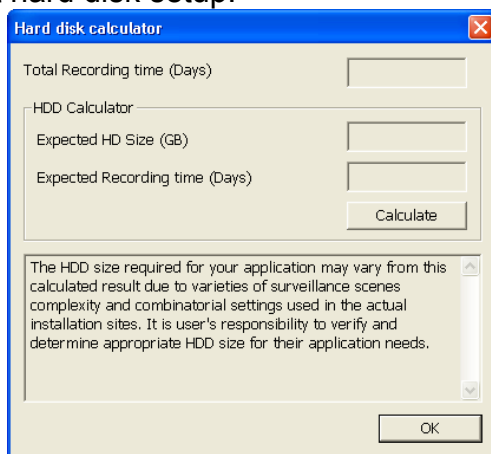
By default the data is stored in C:\Data, to insert another storage path, click **Add**. To remove the selected path, click **Delete**. If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the numbers of days in **Days** text box.

(2) Hard Disk Calculator

Estimate the hard disk recording capacity. The result of calculation is a rough value which only for reference. The hard disk record capacity will be varied by the real record quality and complexity of video scene.

Click , the hard disk calculator windows will show up. **Total Recording time** is the current hard disk recording capacity. Enter the expect hard disk size or expect recording

time in **Expected HD Size** or **Expected Record time**, and then click **Calculate** button. Click **OK** to exit the hard disk calculator windows. The hard disk calculation will base on the recording setup and current hard disk setup.

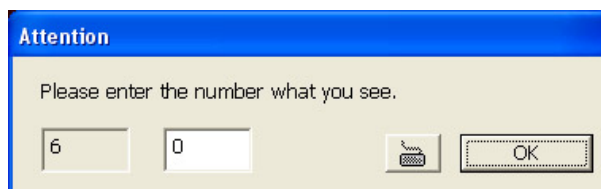


(3)Language

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

(5) Attention Please

Check the attentiveness of the person who is monitoring the system. You may set the number of times the Attention dialog box to appear in a day in **Times per day** text box. To check the graph on how fast the person response, click **Analysis**.



When this feature is enabled, the Attention dialog box would appear. The person who is monitoring the system must enter the same number that appears from the left box at the right text box and then click **OK**.

(6) TV Out

Select the camera you want to appear on TV and set the time gap from 3 to 10 sec. before it switches to the next camera.

- **Advance** button

Select the video card channel and camera that user wants to display on TV. Click **Advance** to enter configure interface.

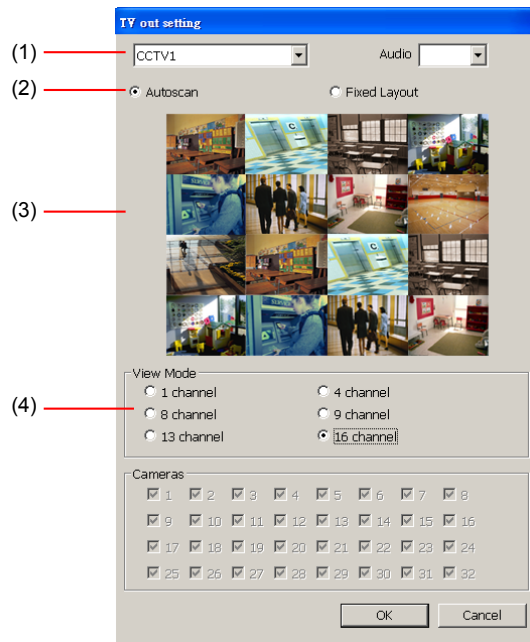
○ Autoscan

(1) Select the channel group from drop down list. If only have 16 cameras or less 16 cameras, there is only one channel group in the drop down list.

(2) Select the display mode as **Autoscan**.

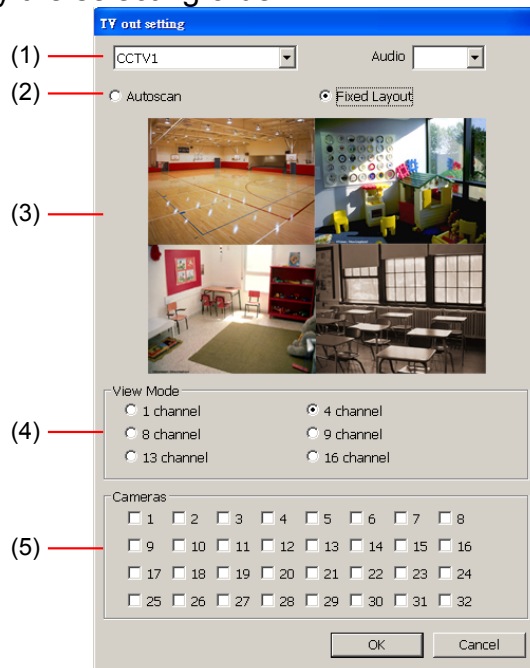
(3) **Preview screen**: Live camera video would be displayed here.

(4) **Video Mode**: Select the video mode user wants to display on screen. The system will auto cycle switch to display the next channels.



○ **Fixed Layout**

- (1) Select the channel group from drop down list. If only have 16 cameras or less 16 cameras, there is only one channel group in the drop down list.
- (2) Select the display mode as **FixedLayout**.
- (3) **Preview screen:** the selected camera video will preview in here.
- (4) **Video Mode:** Select the split mode of TV out display.
- (5) **Cameras:** User can select the cameras that user wants to display on the screen. Only those selected channels would be displayed on the screen. Also, the camera will be displayed by the selecting order.



(7) 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**.

(8) Miscellaneous

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

- **Status Report**

Send a daily system event and attention analysis report. To change the e-mail settings,

click **Setup**.

- **Beep if no signal**
Make sound when the video signal is lost.
- **Mandatory Recording**
Always recording the video in any condition.
- **Enable Overlay**
To enhance video signal for better video quality.
- **Playback Mode**
Select the mode of playback the video.
Select date and time: Select the date and time which user wants to playback.
Play the last file: Automatically playback the video from the last hour
Instant Playback: Automatically playback the video which has just recorded
- **Date Format**
Select the date format which wants to display in **Select date and time** playback mode
- **Auto Scan Period**
Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

(9) Login

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

- **Auto record when login**
Automatically start video recording when the DVR is executed
- **Login to compact mode**
Switch to compact mode directly when the DVR is executed.
- **Login to compact mode**
Switch to compact mode directly when the DVR is executed.
- **Default user**
Automatically log in to the selected default user when the DVR is executed

(10) POS

Set from which camera screen to display the data from the POS equipment. Click **Setting**, to set the POS Console Setting. To set the text flow and color format, click **Advanced**. (see also [3.1.1](#))

(11) UPS (Uninterruptible Power Supply)

Protect the system from damaging, such as power surges or brownouts. This automatically gives time to close the DVR properly when the battery backup power has reached the Shutdown when capacity below percentage level setting.

The UPS device must be connected to your computer (refer to your UPS user's guide).

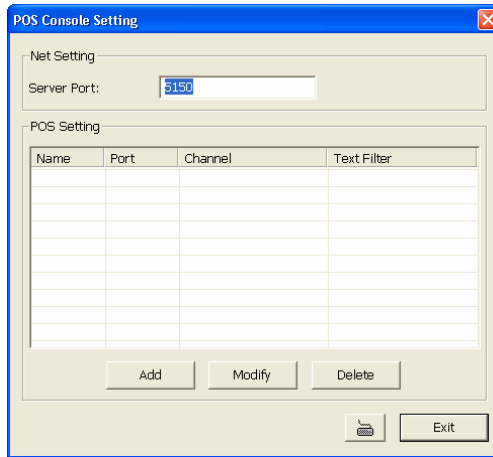


The UPS application must meet Windows 2000 or Windows XP system requirements.

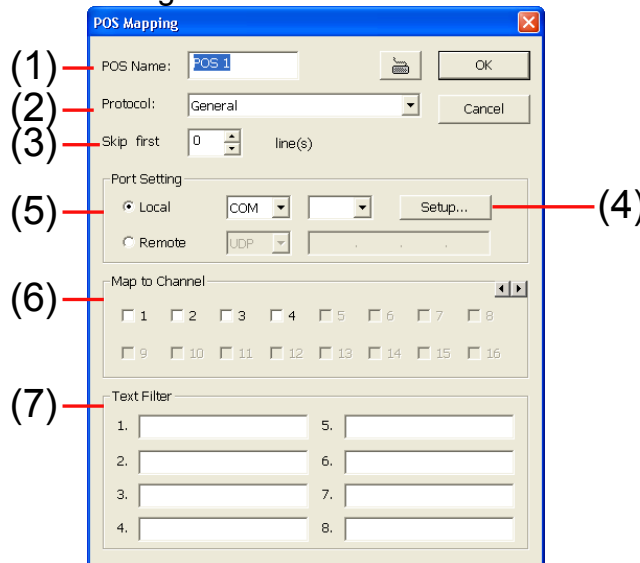
3.1.1 To Set the POS Setting:

In the **System Setting** dialog box, POS section, click **Setting**. To set the text flow and color format, click **Advance**.

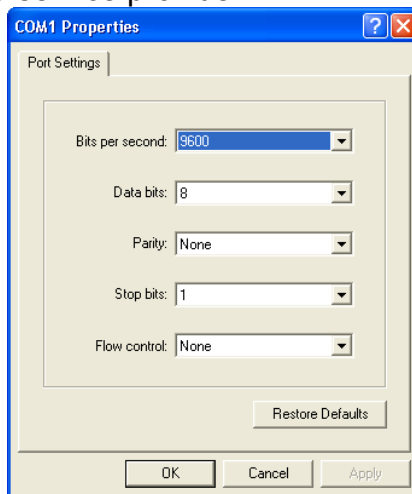
1. In the POS Console Setting dialog box, click **Add** to set a new POS setting, **Modify** to change the POS setting, and **Delete** to remove the selected POS setting. Click **OK** to save and close POS Console Setting.



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



- (1) **POS Name** : Enter a name to identify the POS
- (2) **Protocol** : Select General for Epson compatible printer or for TP_3688
- (3) **Skip first** : Set the number of lines you want to be removed
- (4) **Setup...** : Set the COM Properties. If you are not sure, please contact your POS service provider

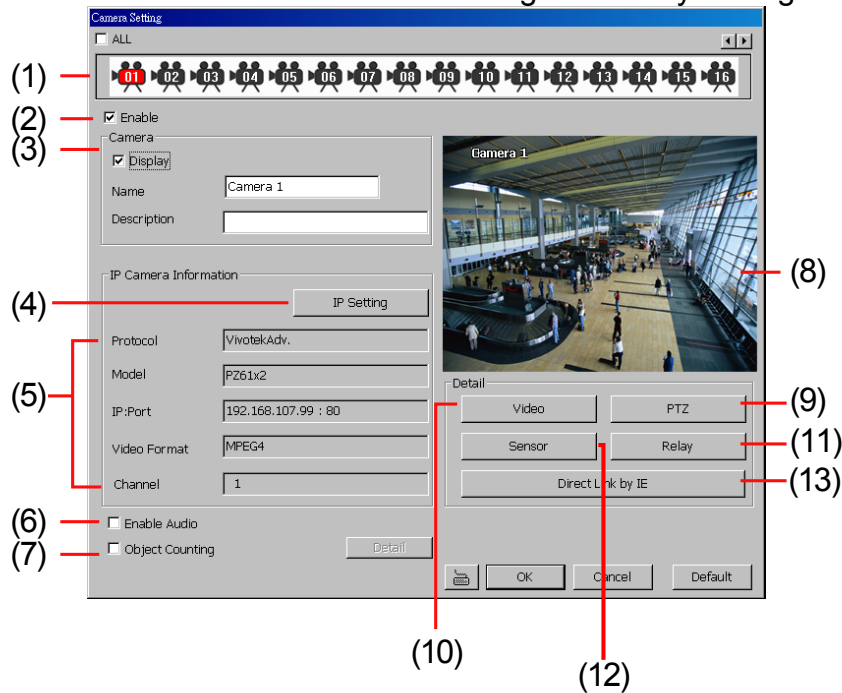


- (5) **Port Setting** : Select the Local or Remote port to where it is connected
 - Local** - select the COM port number which is connected.
 - Remote** – Use the UDP protocol for remote connection if POS system can broadcast to Internet. Enter the IP address of the remote station.

- (6) Map to Channel:** Select to which camera number to display the transaction text
(7) Text Filter : Enter the word you want to be removed

3.2 Camera Setting

In the Camera Setting dialog box, click **OK** 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 adjust the video setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns red when it is selected.

(2) Enable

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

(3) Camera

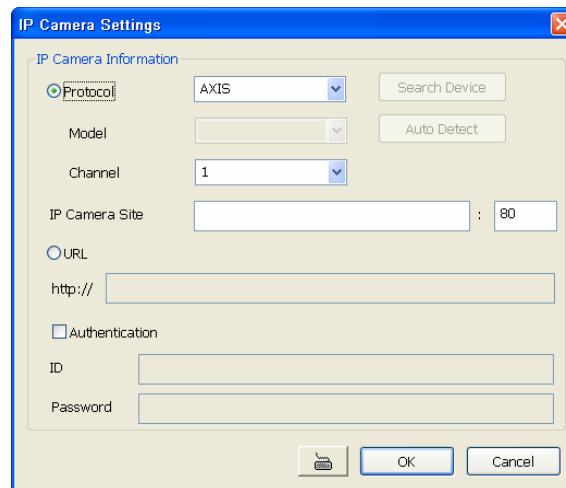
- **Display**
Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.
- **Name**
Change the camera name.
- **Description**
Add a short comment.

(4) IP Setting

Configure the camera for monitoring. Click **IP setting** to enter configuration interface. Click **OK** to save the setting and to cancel the setting click **Cancel**.

- **Protocol:** select the brand of camera. Drag down the list and select the brand of camera. User also can click **Search Device** to find the selected protocol of camera on the LAN network.
- **Model:** After selected the protocol of camera, the available model will be list in drag down list. If user is not sure the camera is which model, click **Detect Model** to find the correct model of camera. Choosing the wrong model, user is not able to continue the camera setup.
- **Channel:** assign a channel of video server.
- **IP Camera Site:** Enter the IP address and connecting port of the camera. Through the IP address and connecting port, the DVR system can reach and monitor the camera.
- **URL:** Besides the IP address, user can enter the URL of the camera, too.

- **Authentication:** Mark check box and enter the **ID** and **password** for authorizing to connect the camera. Only if the camera has assign the ID and password for authentication.



(5) Camera Information

Display the camera information, such as camera **protocol**, **model**, **video type**, **IP address**, and **channel number**. If the camera hasn't been configured, those information are blank.

(6) Enable Audio

Enable/disable camera audio recording.

(7) Object Counting

Select the two regions on the screen and the system will count the objects that appear from one selected region to another selected region.(See also [3.2.1](#)).

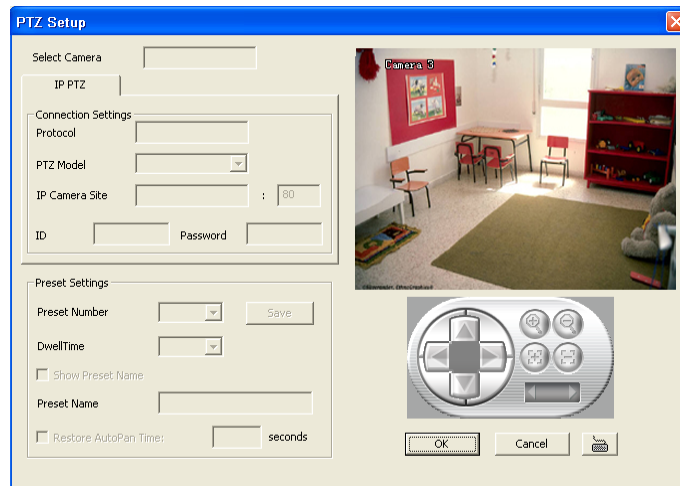
(8) Video Screen

Display the video of the selected camera.

(9) PTZ

If the camera is also a PTZ camera, the **PTZ Setting** button will be available. Click **PTZ Setting** to enter configuration interface. Click **OK** to save the setting and to cancel the setting click **Cancel**.

- **Select Camera:** Display the camera name
- **Connection Settings:** Display the camera setting information. The DVR system will auto get the information of camera from **IP Setting**.
- **Preset Setting:** Select the preset number to assign as the camera current position. Set the **DwellTime** (1-60 sec) for how long the camera stays in that position before it moves to the next one. If user wants to add description, check the **Show Preset Name** box and in the **Preset Name** text box, type the word. When done, click **Save** to keep the settings.
- **Control Panel:** The control panel can control camera to Zoom In/Out, focus In/Out, adjust camera lens direction and the moving speed of the camera lens.



(10) Video

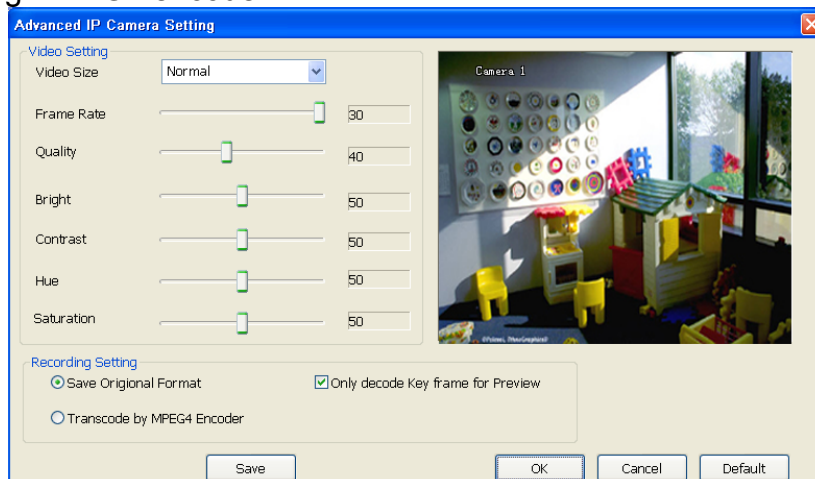
Adjust the video setting of the selected camera. Click **Video Setting** to enter video adjustment interface.

- Video Setting

Adjust the Frame Rate, Quality, Bright, Contrast, Hue, and Saturation.

- Recording Setting

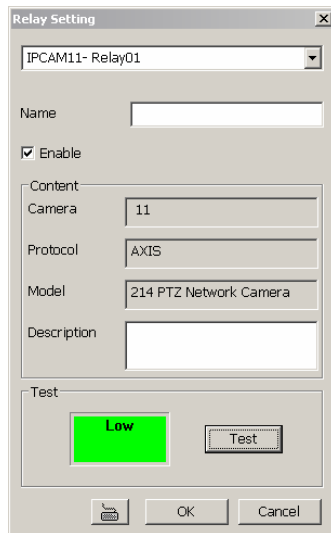
- **Save Original Format:** Save the video that is compressed by IP camera's compress mode.
 - ✓ **Only decode key frame for Preview:** When selected the **Save Original Format** selection, user can mark **Only decode key frame for Preview** this option. When previewing video, DVR system only shows key frame and one frame per second.
- **Transcode by MPEG4 Encoder:** Decoding the video and compress video again by using MPEG4 encoder.



(11) Relay Setting

To setup relay device that is embedded on the camera.

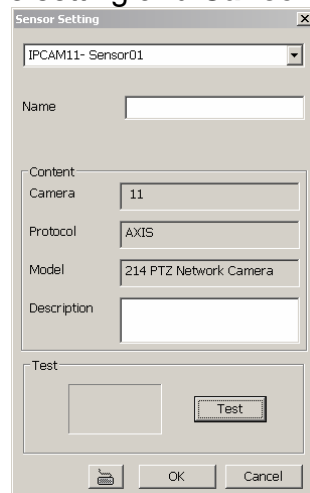
1. Click the drop-down list and select the relay ID number.
2. Enter relay name.
3. The DVR system automatically detects the camera and input relates information. In the Content section, enter relay description.
4. In the test section, click **Test** to trigger relay. Red is high and Green is low.
5.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



(12) Sensor Setting

To setup sensor that is embedded on the camera.

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

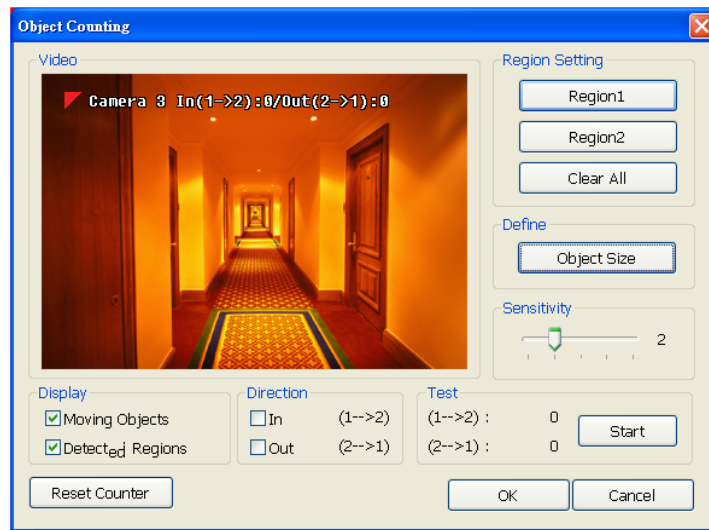


(13) Direct Link by IE

Using IE browser to connect to camera and view the real time video. Click **Direct Link by IE** , the IE browser will pop up and connect to camera. The video viewing interface will be varied by different brand of camera.

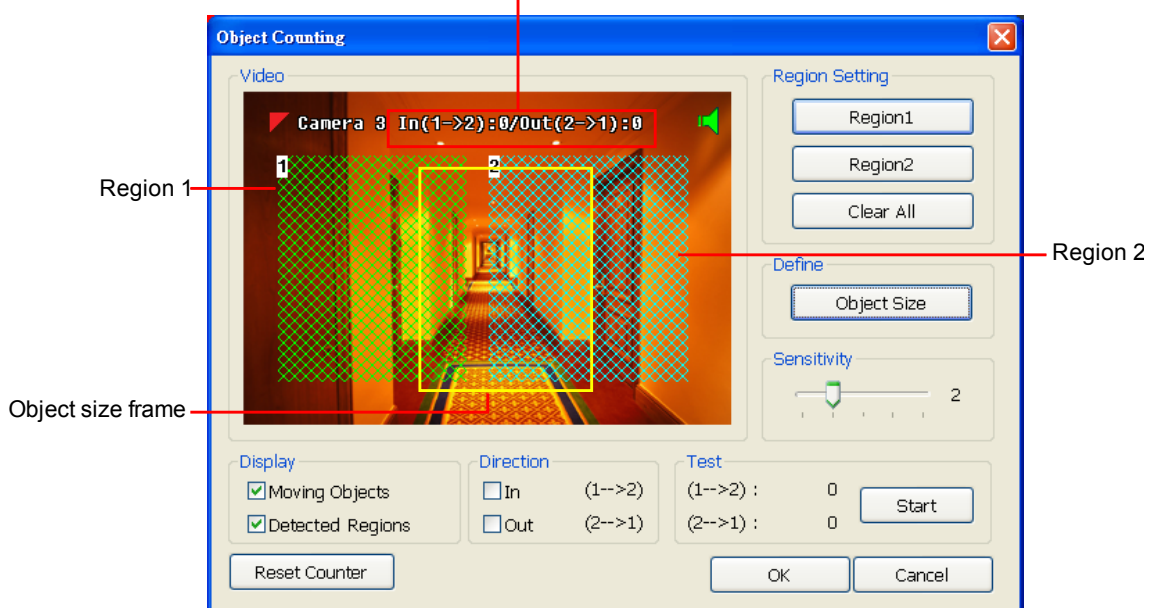
3.2.1 Setup the Object Counting

1. Click **Detail** to enter the object counting setup window.



2. Enable **Detected Regions** in **Display** section. This enables the object counting information show on the screen. **Moving Object** will enable the object size frame to show on the screen.
3. Click **Region1** and press left button of mouse and drag the area that user wants the object to be counted. And then, click **Region2** and drag another area that user wants the object to be counted, too. Those selected regions will mark in different color. The system will count the objects that move between the selected regions.
4. Click **Object size** to define the detected object dimensions. Press left button of mouse and drag on the screen. To see the object size frame on screen, enable **Moving Object** in Display section.
5. Adjust the sensitive of object detecting.
6. To test the setting, mark the **Directions (In/Out)** want to be test and click **Start**. The testing result will show in Test section.
7. Click **OK** to save the setting. Click **Cancel** to leave the setup window without saving.
8. The object counting information will be display on the screen of upper part.

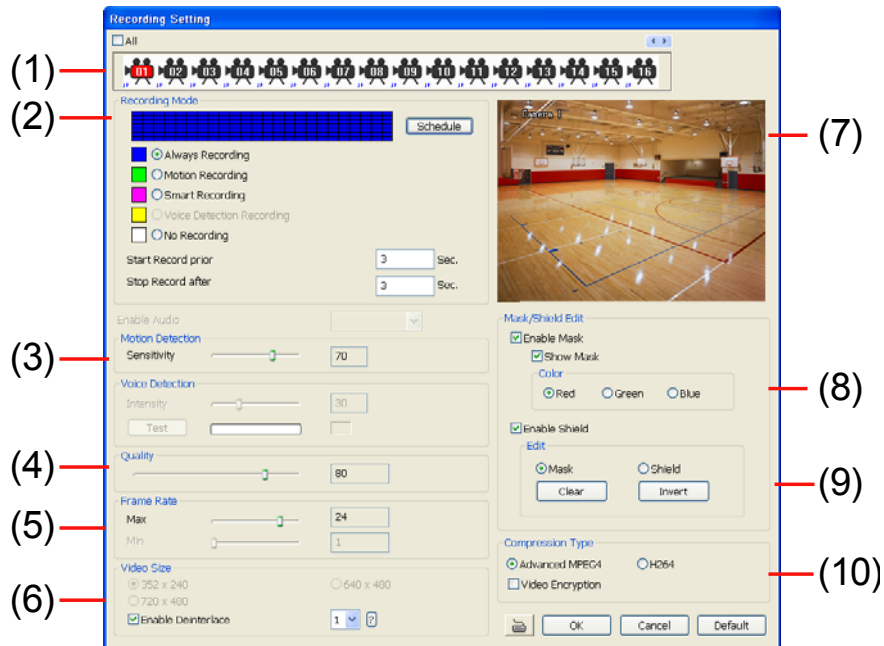
Object counting information display



3.3 Recording Setting

In the Recording dialog box, click **OK** 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 red when it is selected.

(2) Recording Mode

The blocks from 00 to 23 represent the time in 24-hour clock. To record in full 24 hours, select the recording mode and click the button. If you want to only record at a particular time, click the colored block beside the recording mode then click on the time blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen. The recording modes are listed below:

- **Always Recording**
Record the video from the selected camera and save it to the designated storage path (see also [3.1 #1](#)).
- **Motion Recording**
Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.
- **Smart Recording**
Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting Set the maximum and minimum frame rate setting in [\(5\) Frame Rate](#) section.
- **No Recording**
The system won't do any recording.

(3) Motion Detection

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

(4) Quality

Adjust the video quality. The higher the value, the lower the compression level and uses more hard disk space.



Only available when user selected “**Transcode by MPEG4 Encoder**” in **Video Setting** at **Camera setting** section(see [Chapter 3.2 #9](#))

(5) Frame Rate

Set the maximum number of frames to be recorded during motion and motionless state. The frame rate ranges from 1 to 30 for NTSC and 1 to 25 for PAL. The higher the frame rate, it uses more hard disk space.

i Only available when user selected “**Transcode by MPEG4 Encoder**” in **Video Setting** at **Camera setting** section(see [Chapter 3.2 #9](#))

(6) Video Size

You can activate the **Enable Deinterlace** to enhance the video quality. Set the **Enable Deinterlace** mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

(7) Video Screen


Display the video of the selected camera

(8) Mask/Shield Edit

Mask, mark an area on the screen to disregards the motion in the marked area and to only monitor outside the marked area. (see also [3.3.1](#) and [3.3.2](#))

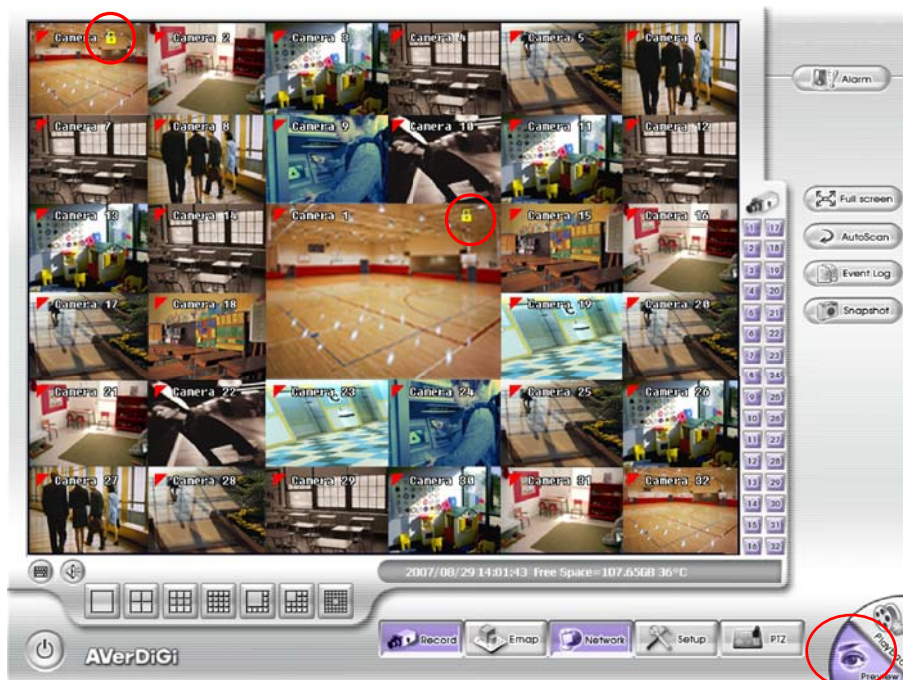
(9) Compression Type

Using the Advanced MPEG4 enables you to encrypt the recorded video that way only the person who knows the password can clearly view the video playback. The file size would become 10 to 30% more. Enabling the Video Encryption check box, you will be prompted to enter the password and retype the password for confirmation. Make sure not to forget the password for you would not be able to decrypt the video without it.


The  symbol would appear on the upper right of the encrypted video screen. You may see the video during live recording (see also [3.3.3](#)).



i Only available when user selected “**Transcode by MPEG4 Encoder**” in **Video Setting** at **Camera setting** section(see [Chapter 3.2 #9](#))



3.3.1 To Mask/Shield an area on the screen

1. In the Mask/Shield Edit section, activate the **Enable Mask/Enable Shield** check box.
2. In the Edit section, select between Mask or Shield and click the  button.

3. Click and drag a frame on the **(7) Video Screen** to create Mask or Shield area.



Shield is only available when user selected “**Transcode by MPEG4 Encoder**” in **Video Setting** at **Camera setting** section(see [Chapter 3.2 #9](#))

3.3.2 To show and change the color of the Mask:

1. Enable the **Show Mask** check box.
2. In the Color section, select the color and click ⊙ button.

3.3.3 To Playback Encrypted Video:

On Playback, Webcam, and Remote Console video screen, just click and enter the correct password to decrypt and playback the video.

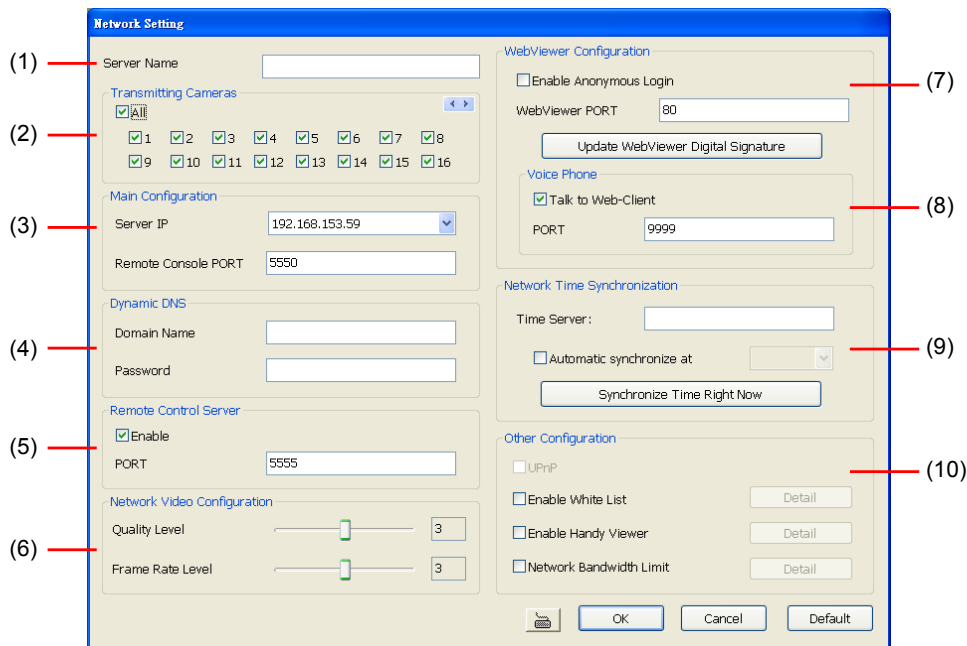
To encrypt the recoded video back, click and enter a **WRONG** password.



It is important to encrypt the video again, to avoid unauthorized user viewing the video.

3.4 Network Setting

In the Network Setting dialog box, click **OK** 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, Remote Console, PDA Viewer and Hand Viewer (still image). To select all the cameras, enable the ALL check box.

(3) Main Configuration

Set the Server IP and Remote Console Port number. The system will automatically detect your Server IP address. You need this when accessing DVR server from the remote location via internet.


(4) Dynamic DNS (Domain Name System)

Enter the Domain Name and Password. To use this feature, go to <http://ddns.avers.com.tw> and register.(also see [Appendix A](#)) You will be prompted to enter serial number, product name, password, and user information. Use this service if the IP address changes each time when you connect to internet.

(5) Remote Control Server

Enable/disable remote control from remote application (ex. CM3000). Enter the remote accessing port in **Port** column. The default value is 5555.



User also can manually run this function. To run, click **Start > Programs > DSS > Tool > Remote Control Server**. The  remote control server icon appears on the taskbar when the remote control server is enabled. (also see [Chapter 10](#))

(6) Network Video Configuration

Set up the video quality and frame rate for viewing and transmitting to the remote program. Scrolling adjust bar to set the **Quality level** and **FrameRate level**.

(7) WebViewer Configuration

Activate **Enable Anonymous Login** to remotely access the DVR server without the need of password

(8) Voice Phone

The **Talk to Web-Client** is to use the 2-Way Talk feature that allows the client and server to talk via internet using microphone. Make sure both microphone and speakers work before

using this feature. If the **Talk to Web-Client** is disabled, the person in the DVR server side can only hear the voice from the client side that is when the WebViewer 2-Way Talk button is activated (see also [6.1 #6](#)).

- i** Make sure that your Webcam Digital Signature is updated yearly; else you won't be able to access the DVR server from the DVR WebViewer. To update/download your WebViewer Digital Signature, click **Update WebViewer Digital Signature**. Make sure your PC is connected to internet.

(9) Network Time Synchronization

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

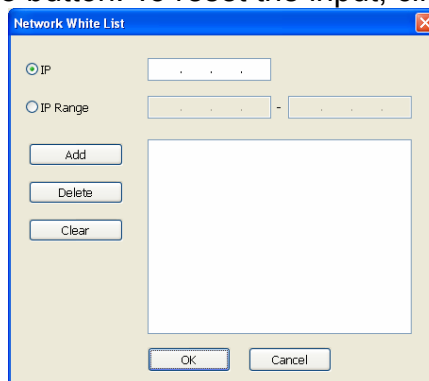
(10) Other Configuration

- UPnP

Enable UPnP function to automatically configure the port setting on the local network. This function is available when there is UPNP device in the same network. It will write the DVR port information into the router or other network device (see Appendix B)

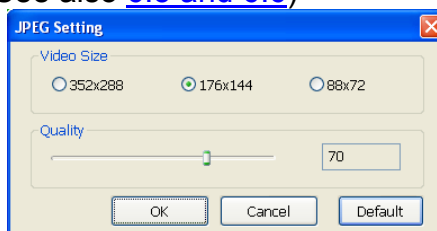
- Enable White List

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.



- Enable Handy View

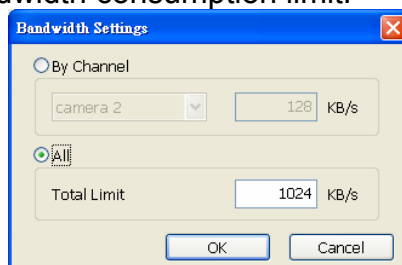
Enable remote users to use a PDA or a mobile phone to access DVR server and select the video size and quality. (See also [6.5](#) and [6.6](#))



- Network Bandwidth Limit

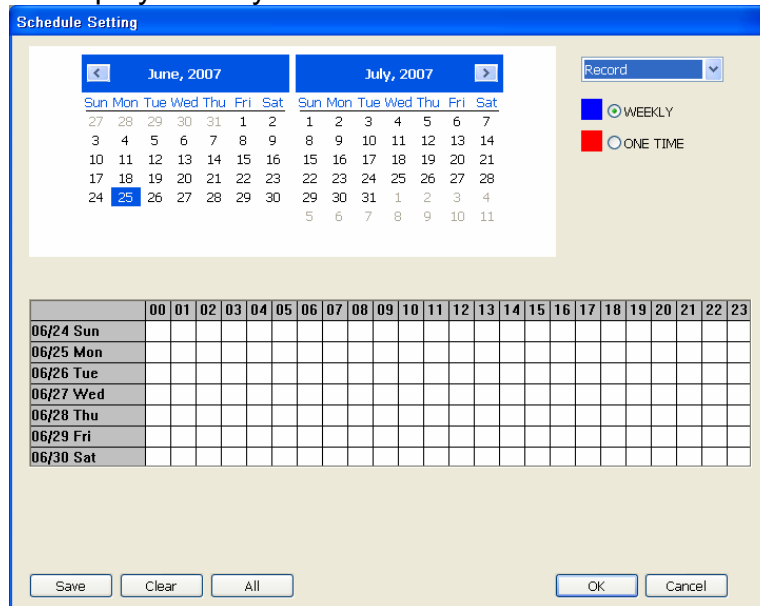
By Channel: Set the network bandwidth by each channel.

All: Set the total network bandwidth consumption limit.



3.5 Schedule Setting

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



To Set the Schedule Setting:

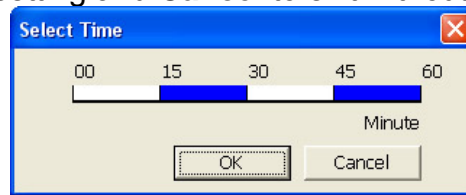
- Select the date in the calendar. Use and buttons to shift the calendar to the left or right.
- Select the condition you want to schedule in the drop down list.
 - Record**
Activate all the cameras to start video recording at the set time based on the Recording setting (see also [3.3](#)).
 - Backup**
Save another copy of all the data at the set time and specified backup path. DVR automatically updates and only backup the data that are not yet included in the archive. To assign backup path, click

Make sure the backup folder and storage folder are not on the same drive.

 - 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 DVR system at the appointed time.
 - Disable Alarm**
Deactivate the alarm at the set time temporarily.
 - Turn on Relay #**
Active the Relay at the set time. If there are no Relays are connected, Turn on Relay # function will not display in drag down list. The Relay number will depend on how many Relays are connected.
- Specify to either schedule it weekly or one time. Click to make a selection.
- Click on the blocks to set the schedule (see also [3.5.1](#)). Or click All to select all. 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.

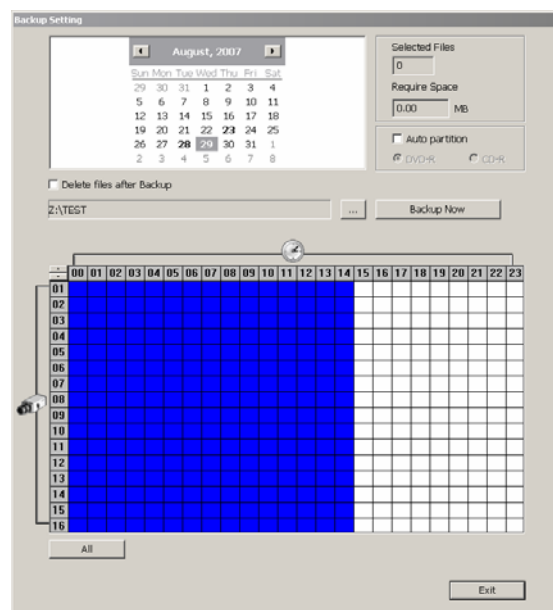
3.5.1 Set schedule at specific portion of time

1. **Right click** the colored blocks.
2. In the Select time dialog box, click to enable or disable the portion you want to set.
3. Click **OK** to accept the setting and **Cancel** to exit without saving the setting.







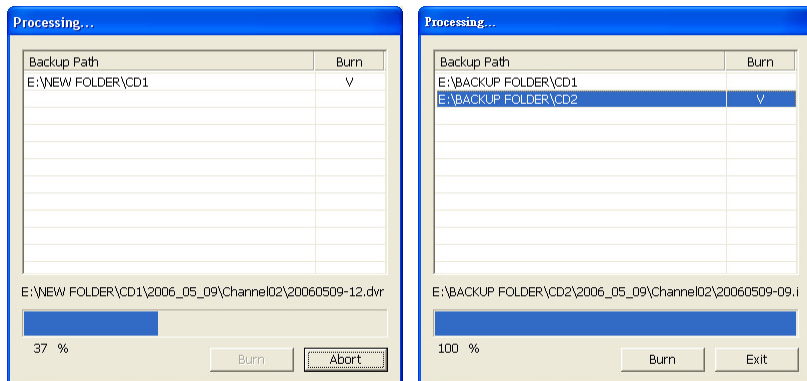
3.6 Backup Setting

In the Backup Setting dialog box, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera number. When you backup the file, you may find QLogViewer and Player application included in the backup folder (see also [Chapter 4](#)).

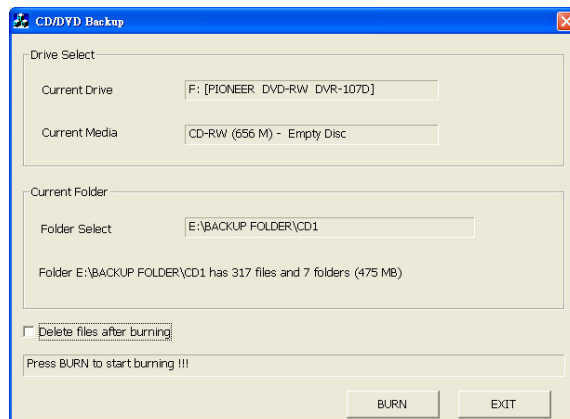


To Backup file:

1. Select the date of the recorded file in the calendar you want to backup. Use  and  buttons to shift the calendar to the left or right.
2. In the table below, click on the blue block to select the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. If you want to set the specific time, right-click on the selected block. Then, set the time to start and end.
3. Check the information beside the calendar.
 - Selected Files** : Show the number of files selected.
 - Require Space** : Show the total size of the selected file.
4. Enable Auto partition and select to divide the file size into DVD-R or CD-R. DVR automatically backup and divide the file sizes to facilitate burning into DVD or CD disc.
5. If you do **NOT** want to keep the recorded file in the storage folder, enable **Delete files after Backup** check box.
6. Click  to set the path on where to store the backup file.
7. Click  to start archiving the selected file.
8. In the Processing... dialog box, to stop archiving press **Abort**. When done, in the Backup Path list, shows the archived item. To burn the file in CD, you need to have NERO 6 or above installed in your PC then select the item in the list and click **Burn**. Click **Exit** to end this procedure and burn it later.



9. In CD/DVD Backup, enable/disable Delete file after burning check box to remove the archived file after burning. Click **Burn** to start and **Exit** to cancel this process.

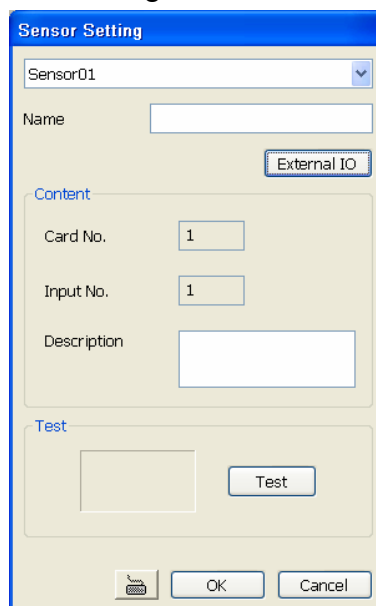


3.7 Sensor Setting

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

To Set the Sensor Setting:

1. Click the drop-down list and select the sensor ID number.
2. Enter sensor name.
3. Click **External IO** to configure external I/O device if it is available(see also [3.7.1](#))
4. The system automatically detects the sensor and input relates information. In the Content section, enter sensor description.
5. In the test section, click **Test** to check the sensor status. Red is high and Green is low.
6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

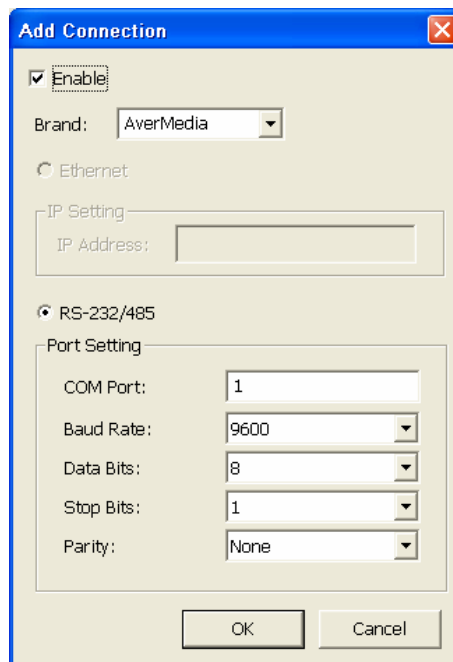


3.7.1 To Setup External I/O Box

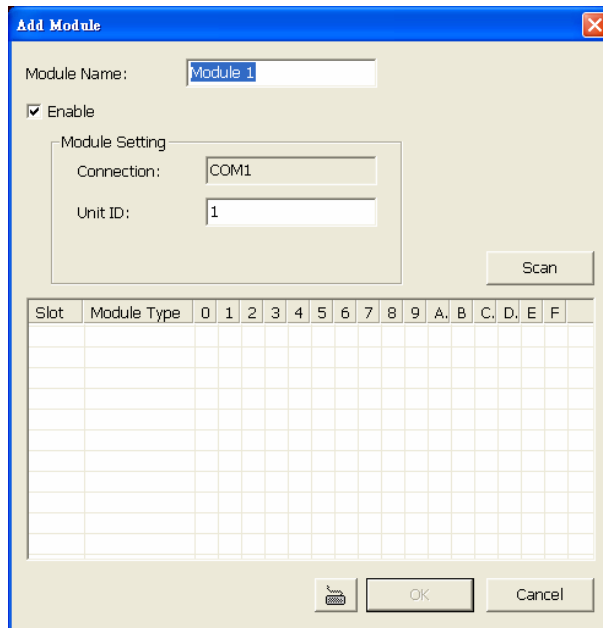
The DVR system can connect the external I/O box for more installed of I/O devices.



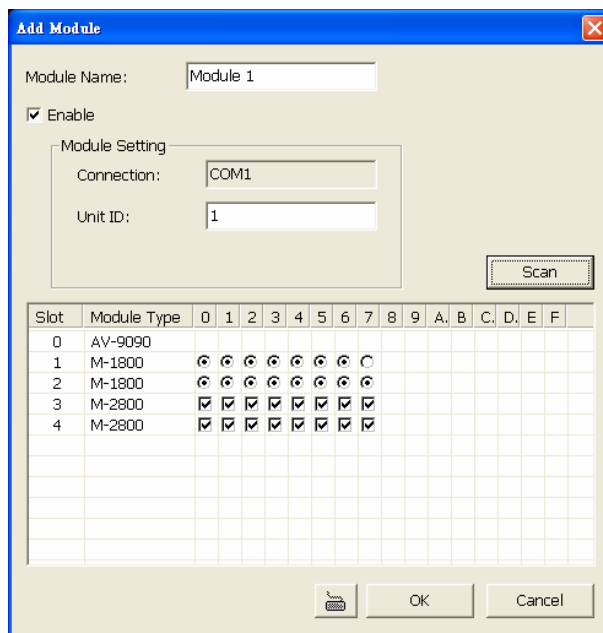
1. Click **Add**.
2. Mark **Enable** box to enable this external I/O box.
3. Select the Brand of external I/O box from drag down list.
4. In **Port Setting**, different brand of external I/O box may have different port parameters. Please refer to the external I/O box's user manual for port setting information. Using the default value if user uses AverMedia External I/O box.
5. Click **OK** to save the setting.
6. To add more than one external I/O box, click **Add** and follow the above step 2~4.



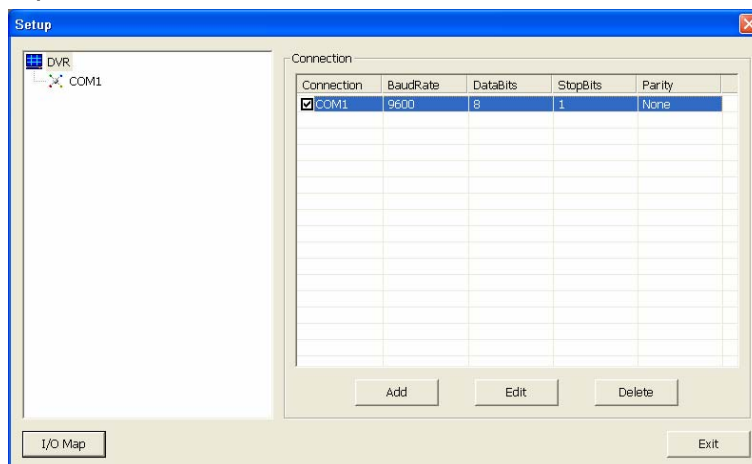
7. In External I/O box setup dialog, user will see all added External I/O. Click added External I/O box and click **Add** to scan the connected relays and sensors.
8. In **Add Module** windows, click **Scan** to scan the connected relays and sensors on the External I/O box.



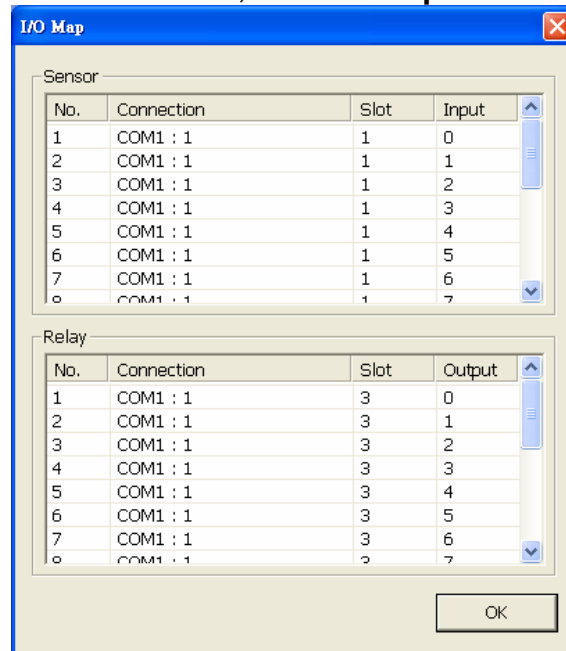
9. All connected relays and sensors will be listed. User can click radio button to control relays' status. And then, click **OK** to save the setting and click **Cancel** to exit and without saving.



10. All connected External I/O box and their modules will be listed as tree topology in External I/O Setup windows.



11. To view the all I/O devices information, click **I/O Map**.

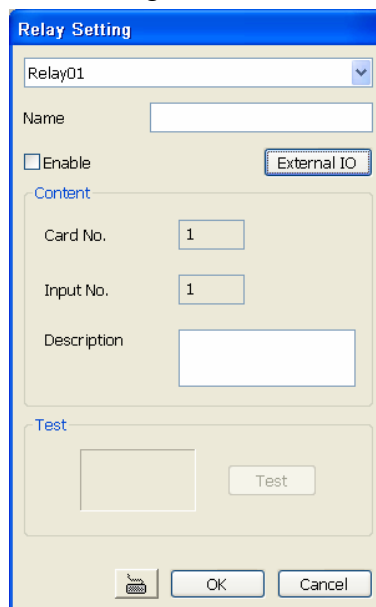


3.8 Relay Setting

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

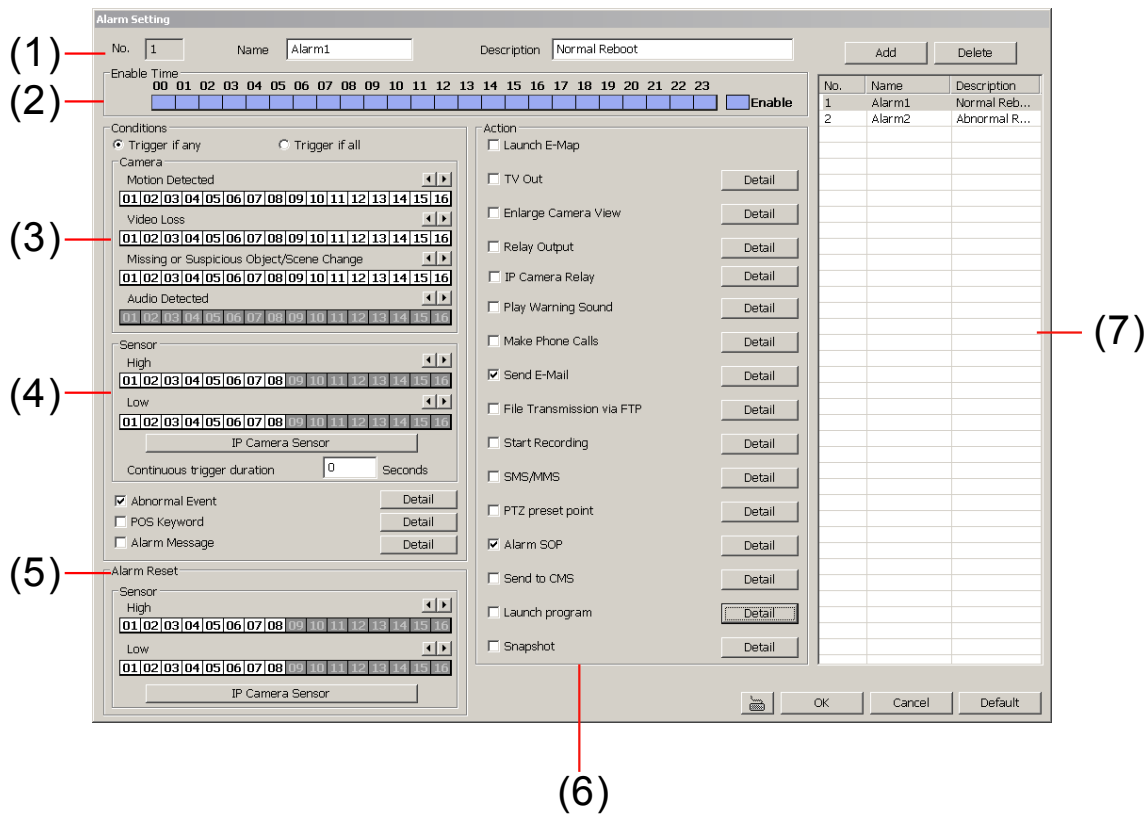
To set the Relay Setting:

1. Click the drop-down list and select the relay ID number.
2. Mark **Enable** to enable the selected relay.
3. Click **External IO** to configure external I/O device if it is available (see also [3.7.1](#)). When external I/O is set and it will be available in drag down list for selecting.
4. The system automatically detects the card and input number. In the Content section, enter relay description.
5. In the test section, click **Test** to trigger relay. Red is high and Green is low.
6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



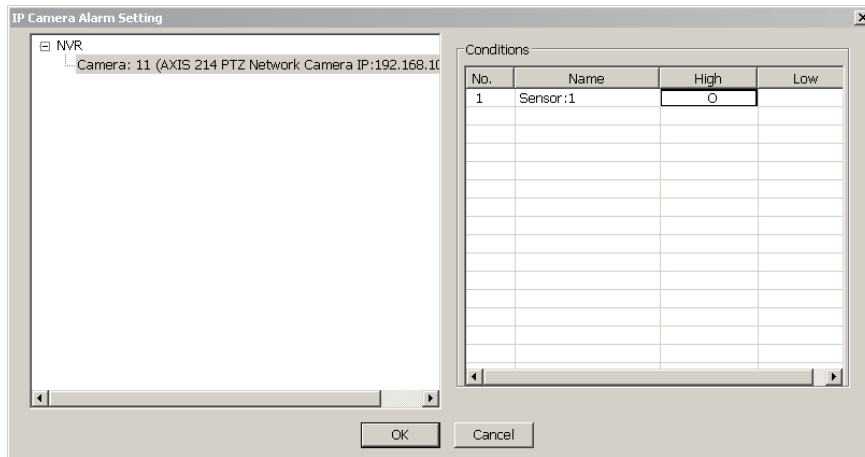
3.9 Alarm Setting

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

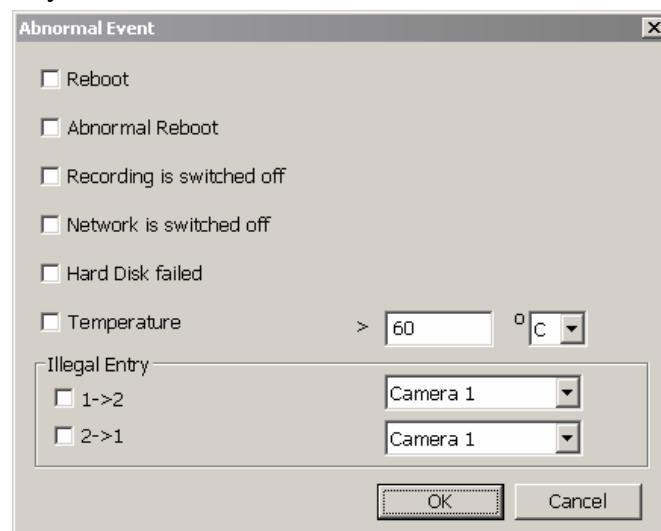


To set the Alarm Setting:

1. Click **Add** to insert and set a new alarm setting. Click the items in the **(7) Alarm Setting List**, if you want to modify the alarm setting.
2. In **(1) Alarm Setting number/Name/Description**, display the selected alarm setting number in the list below. Enter alarm name and description.
3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
4. In **(3) Conditions**, you can set “**Trigger if any**” to activate if it falls to one of the conditions or “**Trigger if all**” to activate if it falls to all conditions.
 - In Camera section, select and click on the camera number (01 to 16) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
 - In **Missing and Suspicious Object Detected**, click the camera number (01 to 16) and select the certain object on the screen (right click on camera number for detailed setting)), and when the certain object is missing or doubtful, the system will alarm.(see also [3.9.12](#) In **Scene Change**, when the camera has been moved, the system will alarm, too.
 - In **Audio Detect**, click the camera number (01 to 16) to the system to alarm when detect the abnormal audio.
5. In **(4) Sensor**, select and click on the sensor number (use ◀ and ▶ to select the sensor) to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low (see [3.7 step #4](#)). Click **IP Camera Sensor** to configure IP camera’s sensor condition. To set the sensor condition for the system to alarm, click **High** or **Low** column. The column with a circle means is selected.



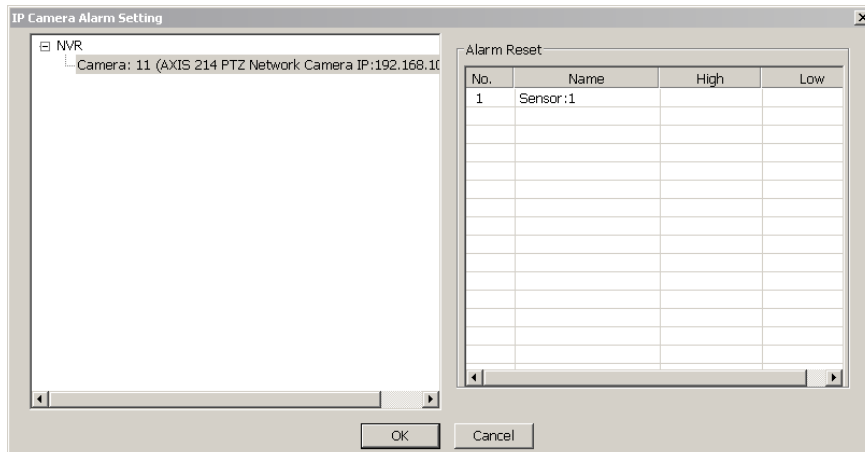
- Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.
 - **Normal Reboot:** when the DVR system reboot without abnormal condition, the system will send out the alarm message.
 - **Abnormal Reboot:** when the DVR system reboot in irregular condition, 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 can't work normally, the system will send out the alarm message.
 - **Illegal Entry:** any objects move between selected regions which user has set up in **Object Counting** section (see [3.2.1](#)), the system will send out the alarm. Select the entry (object moves from region 1 to 2 or from region 2 to 1) and camera for system alarm detection.



- Enable/disable the **POS Keyword** check box, to scan the data from the POS if it matches the keyword (see also [3.9.11](#)).
 - Enable/disable the **Alarm Message** check box, to active with external alarm message by your own program. For the detail configuration, please contact the local reseller.
 - **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.
6. In **(5) Alarm Reset**, click the camera number (01 to 16) 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 sensor condition to low.

Click **IP Cam Sensor** to IP camera sensor reset condition. Click High or Low column to set the reset condition of alarm.



7. In **(6) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.

- **Launch E-Map**

Display mini Emap screen.

- **TV Out**

Switch to only display the video on TV from where the alarm is activated.

- **Enlarge Camera View**

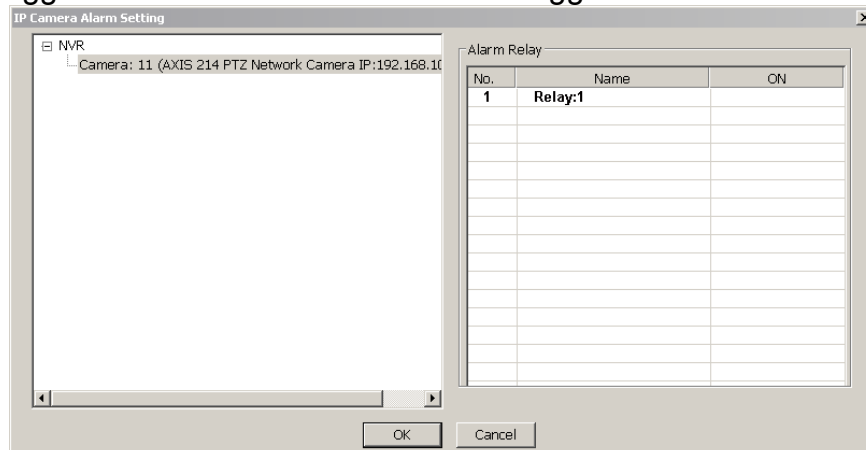
Switch to only display video in Preview/Advanced mode from where the alarm is activated.

- **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 (see also [3.9.1](#)).

- **IP Camera Relay**

Set to enable/disable IP camera relay trigger. Click **ON** column to enable/disable the relay trigger. The blank column means the trigger is off.



- **Play Warning Sound**

Play alarm sound. To setup click **Detail** (see also [3.9.2](#)).

- **Make Phone Calls**

Dial and contact the number in the list. To setup click **Detail** (see also [3.9.3](#)). To use this feature, the PC must have a voice modem connected to it. The supported audio system is only 8KHz and 16Bit mono.

- **Send E-mail**

Send an electronic text message. To setup click **Detail** (see also [3.9.4](#)).

- **File Transmission via FTP**

Upload file to remote computer thru FTP (File Transfer Protocol). To setup click **Detail** (see also [3.9.5](#)).

- **Start Recording**

Record the video from the selected camera. To setup click **Detail** (see also [3.9.6](#)).

- **SMS (Short Message Service)/MMS (Multimedia Messaging System)**

SMS transmits only text messages to mobile phone. MMS transmits text messages and images over wireless networks using the wireless application protocol (WAP). Make sure your mobile phone support this feature and your PC is connected to GSM/GPRS modem. To setup click **Detail** (see also [3.9.7](#)).

- **PTZ preset point**

Position the PTZ camera based on the preset point setting. To setup click **Detail** (see also [3.9.8](#)).

- **Alarm SOP (Standard Operation Procedure)**

List the instructions to inform the person of what to do when the alarm is activated. To setup click **Detail** (see also [3.9.9](#)).

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

Enable/disable the selected camera to send video to CMS when the alarm is activated (see also [3.9.10](#))

- **Launch Program**

To call up the external program that is provided by 3rd party. Click **Detail** and click **...** to locate the program path. Enable **Multiple instance** check box to allow the program can be executed many times at the same time.

- **Snapshot**

Take a snapshot when the alarm is activated.

a. **Select Camera:** specify which channel video to be snapshot when the alarm is occurred.

- **Alarm Camera:** when a channel has an alarm occurred, and then, the DVR system will snapshot the channel video.

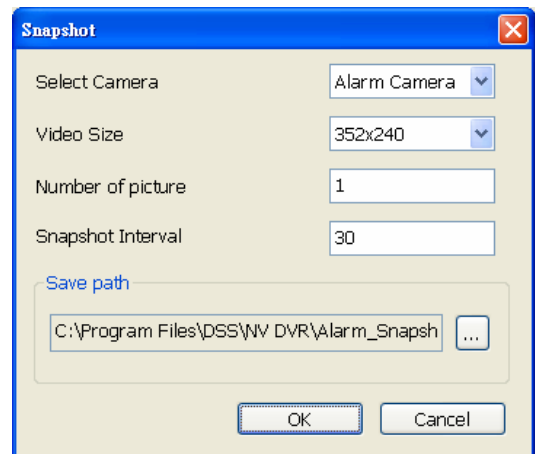
- **Camera # (1~32):** the selected channel would be snapshot when an alarm is occurred.

b. **Video Size:** select the size of snapshot picture.

c. **Number of picture:** the number of picture that is going to be taken.

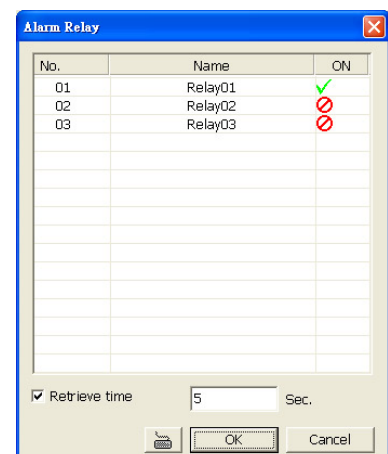
d. **Snapshot Interval:** a time gap for next snapshot

e. **Save Path:** a storage path for saving snapshot pictures.



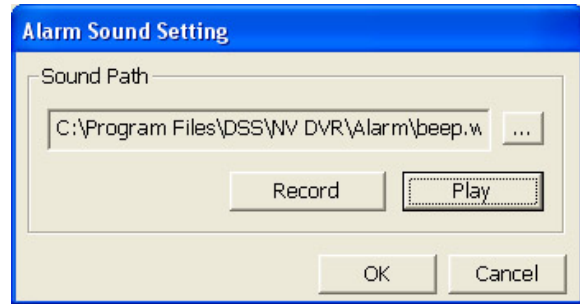
3.9.1 To Setup Alarm Relay:

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.

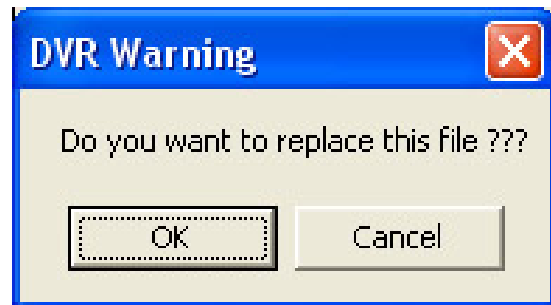


3.9.2 To Setup the Alarm Sound Setting:

1. Beside the Play Warning Sound check box, click **Detail**.
2. In the Alarm Sound Setting dialog box, click **...** to select other wav file from other source or folder, **Play** to listen, **Record** to make a new copy of a sound.



3. If you click **Record**, you will be prompted if you want to replace the file. Click **OK** to continue and **Cancel** to discontinue.



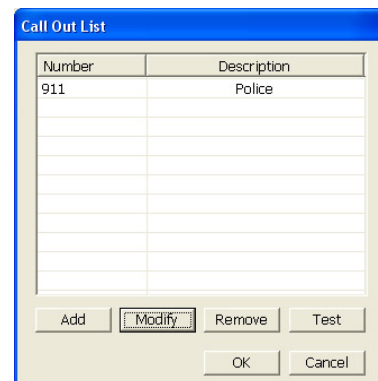
4. When the Sound Recorder appears, use the record control panel to record, stop, play, rewind and forward. If you want to keep the existing file, click **File > Save As...**, enter filename and click **Save**. Make sure you have microphone connected to your PC.



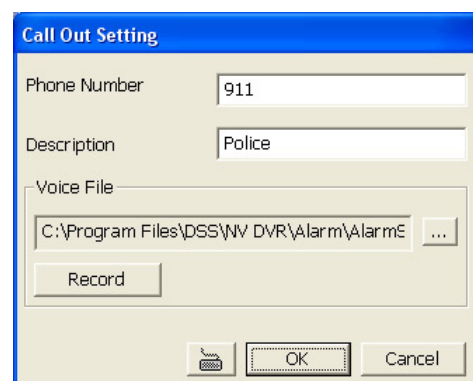
5. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.9.3 To Setup Call Out List:

1. Beside the Make Phone Calls check box, click **Detail**.
2. In the Call Out List, click **Add** to insert a new contact number, **Modify** to edit the selected item, **Remove** to delete the selected item, **Test** to check if it is working.



3. In the Call Out Setting, enter the phone number and description. Click **...** to select existing sound recorded massager and **Record** to make a new voice message.
4. When the Sound Recorder appears, use the record control panel to record, stop, play, rewind and forward. If you want to



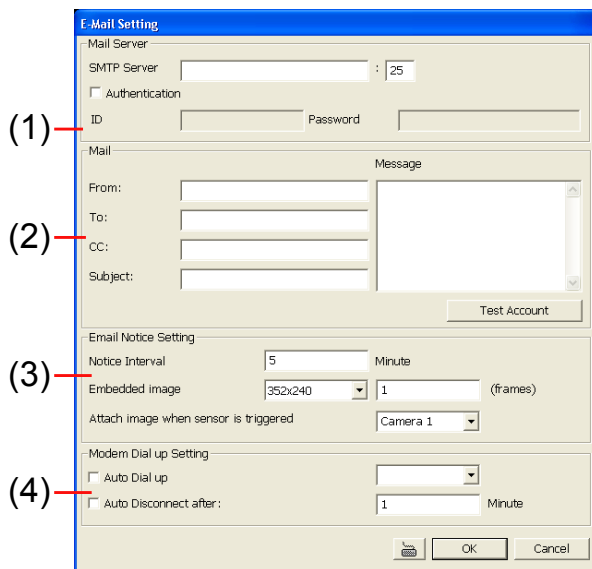
5. The existing file, click **File > Save As...**, enter filename and click **Save**. Make sure

you have microphone connected to your PC.

- The supported audio system is only 8KHz and 16Bit mono.
- Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.9.4 To Setup Send E-mail Setting:

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.



(1) Mail Server

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

(2) Mail

To check if it is working, click **Test Account** button.

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.

(3) Email Notice Setting

Notice Interval Set the period of time before it sends another e-mail notice.

Embedded image Select the image size and set the number of frames.

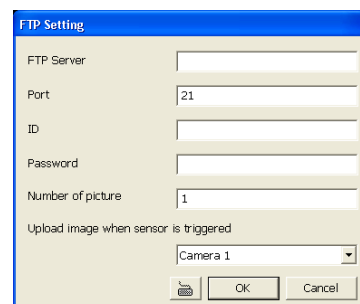
Attach image when sensor is triggered When the sensor is triggered, the system will capture the image and send the image to the certain e-mail address with the alarm message.

(4) Modem Dial up Setting

If you are using dial up modem, enable **Auto Dial up** check box and select the modem name. You may also set the time to disconnect automatically, just enable the **Auto Disconnect after** check box and set time.

3.9.5 To Setup FTP Setting:

- Beside the File Transmission via FTP check box, click **Detail**.
- In the FTP Setting dialog box, enter the FTP IP, port, user ID and password.
- In **Number of Pic** text box, enter the number of sequence images that want to send when file is transmitting.
- In **Upload image when sensor is triggered**, select the camera that the images will be capture and send when the



sensor is triggered.

5. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

3.9.6 To Setup Alarm Recording Setting:

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 or **Max** to record the maximum of frames based on the available speed.
4. In the Stop Recording after text box, set the number in second for the program to continue recording after the alarm has ended.
5. Click **OK** to accept the new settings and **Cancel** to exit without saving.

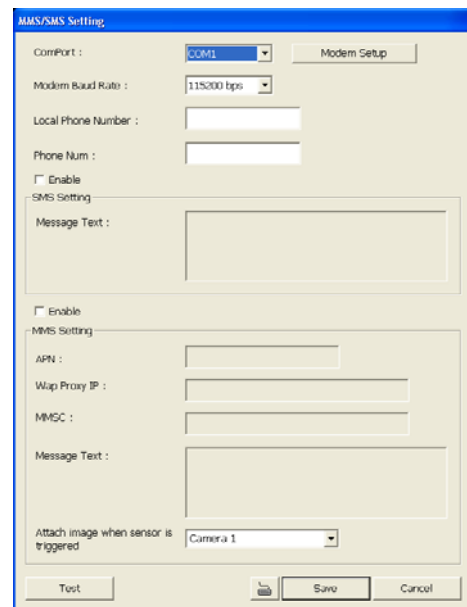


3.9.7 To Setup SMS/MMS Setting:

To use this feature, GSM/GPRS modem is required. Connect the GSM/GPRS modem to the serial COMM port of PC. Beside the SMS/MMS check box, click **Detail**.

Select the port number in Com Port drop down list from where the GSM/GPRS modem is connected.

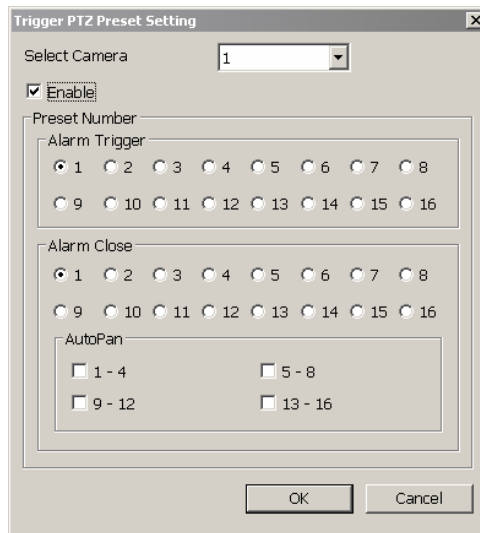
1. Click **Modem Setup** button to automatically detect the Modem Baud Rate.
2. In **Local Phone Number** text box, enter the GSM SIM card phone number.
3. In **Phone Num** text box, enter the contact number.
4. You may now set to send thru SMS &/or MMS. If you enable SMS setting, just enter the message in the text box. If you enable MMS, enter the APN name, WAP IP, MMS address and the message. If you are not sure, please contact your mobile service provider.
5. **Attach image when sensor is triggered** select the camera that the images will be capture and send when the sensor is triggered.
6. Click **OK** to accept the new settings and **Cancel** to exit without saving.



Make sure your ISP provider and cell phone provider both support JPG file format transmitting.

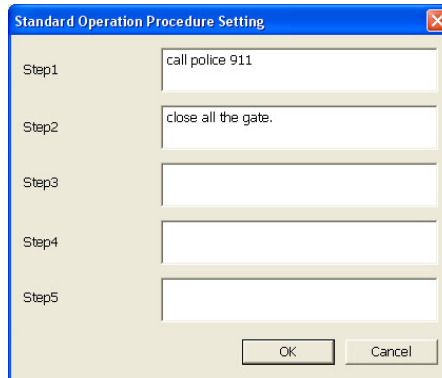
3.9.8 To Setup PTZ Preset Point:

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 ended point, user also can select one preset position or **Auto Pan** between preset position group.



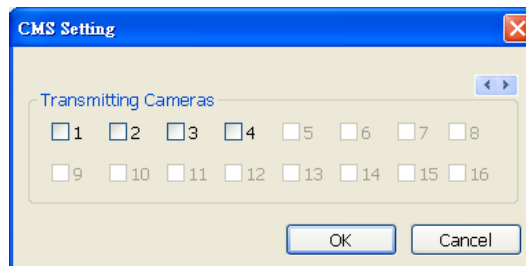
3.9.9 To Setup Alarm SOP:

Beside the Alarm SOP check box, click **Detail**. In the step text boxes, type the standard protocol when the alarm is activated. When the alarm is activated the Standard Operation Procedure dialog box will appear. Just click **Next** to see the next instruction, **Back** to see the previous instruction, **Finish** to end and **Abort** to terminate.



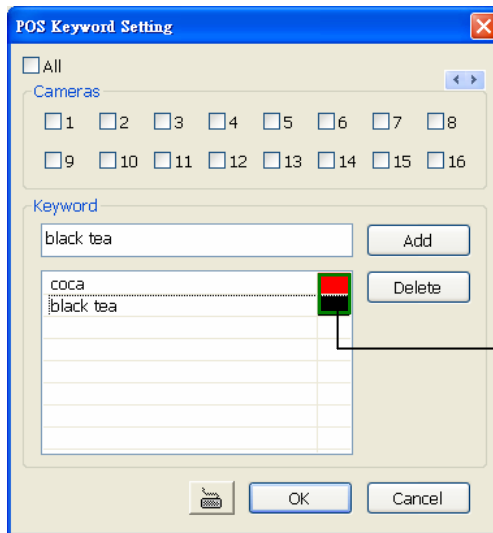
3.9.10 To Setup CMS Setting

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.



3.9.11 To Setup POS Keyword Setting

1. Beside the Send to POS Keyword check box, click **Detail**.
2. In the POS Keyword Setting, select the camera to enable/disable scanning the keyword. Enable **All** to select all cameras.
3. Enter the text below keyword text box. Click **Add** to include the keyword in the list. To remove, select the word in the list and click **Delete**. You may only add 8 keywords. User can define the color for each keyword. To set the color, click the color panel after next to POS keyword column and a color selection window will pop up. Select the color that user wants and click **OK**.
4. Click **OK** to accept the new settings and **Cancel** to exit without saving.



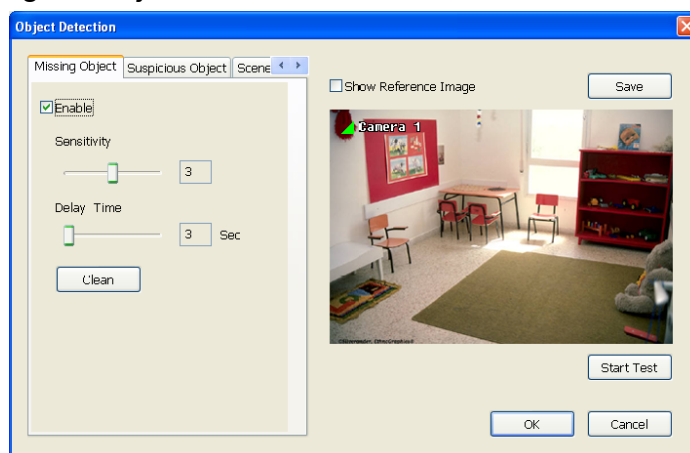
Click to change color of keyword

3.9.12 Missing and Suspicious Object Detected

- Missing Object

Select the certain object on the screen for the system to detect; when the object is disappear or move and the system will alarm. Click **OK** to exit and save the configuration. To exam the setup condition, click **Start Test**.

1. Select the camera number (0-16) and press RIGHT button on the mouse to call up the setup windows.
2. Click **Save** to capture the image for comparing reference first. To view the captured image, enable the **Show Reference Image** check box. The captured image will display on screen. The reference image is sharing with the Suspicious Object and Scene Change function.
3. Mark the **Enable** check box to setup the condition.
4. Use the mouse to click and drag the frame on the screen. User can drag more than one frame.
5. **Sensitivity**: Set the system detects sensitivity.
6. **Delay Time**: Set the lasting time for system to detect the object.
7. To reset all object frames, click **Clean**. To clean an object frame, click right button of mouse and drag the object frame that user want to clean.

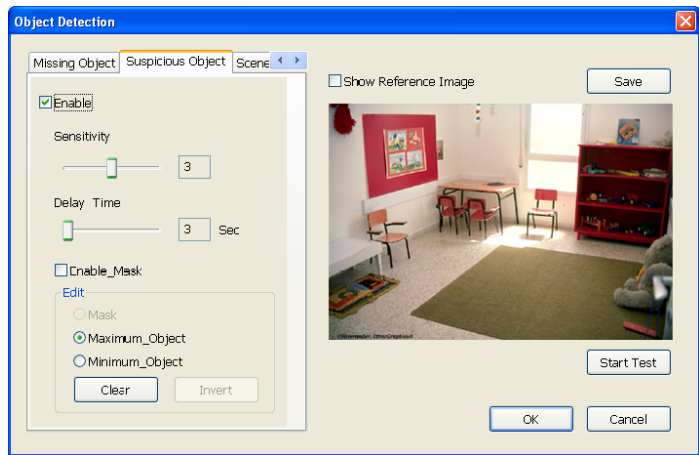


- Suspicious Object

Suspicious Object is including the object missing or the doubtful object appears on the screen. Click **OK** to save and exit the setup windows. To exam the setup condition, click **Start Test**.

1. Select the camera number (0-16) and press right button on the mouse to call up the setup windows. And then, click the **Suspicious Object** Tab.

2. Click **Save** to capture the image for comparing reference. To view the captured image, enable the **Show Reference Image** check box. The captured image will display on screen. The reference image is sharing with the Missing Object and Suspicious Object function.
3. Mark the **Enable** check box to setup the condition.
4. **Sensitive:** Set the system detects sensitivity.



5. **Delay Time:** Set the lasting time for system to detect the object.
6. Use the mouse to click and drag the frame on the screen.
 - **Maximum_Object:** the maximum detect size. The objects are out of the maximum detect area will be disregard. Use mouse to click and drag the frame on the screen.
 - **Minimum_Object:** the minimum detect area. When the objects are smaller than the minimum detect area, the system will disregard. Use mouse to click and drag the frame on the screen.

7. **Enable Mask**

Mark an area on the screen to disregards the motion in the marked area and to only monitor outside the marked area. Mark the **Enable Mask** check box, click and drag the mask frame on the screen.

8. To reset all object frames, click **Clean**. To clean an object frame, click right button of mouse and drag the object frame that user want to clean

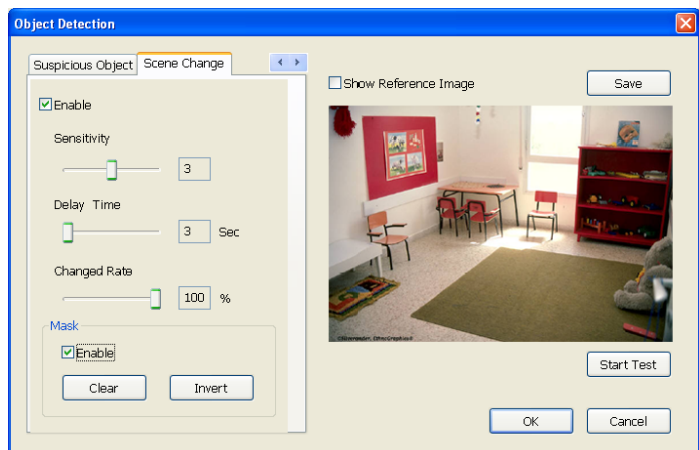
- **Scene Change**

When the camera has been moved, the system will alarm.

1. Select the camera number (0-16) and press right button on the mouse to call up the setup windows. And then, click the **Scene Change** Tab.
2. Click **Save** to capture the image for comparing reference. To view the captured image, enable the **Show Reference Image** check box. The captured image will display on screen. The reference image is sharing with the Missing Object and Suspicious Object function.
3. Mark the **Enable** check box to setup the condition.
4. **Sensitive:** Set the system detects sensitivity.
5. **Delay Time:** Set the lasting time for system to detect the movement.
6. **Change Rate:** Set the camera movement range which compare with the original position.
7. **Enable Mask**

Mark an area on the screen to disregards the motion in the marked area and to only monitor outside the marked area. Mark the **Enable Mask** check box, click and drag the mask frame on the screen.

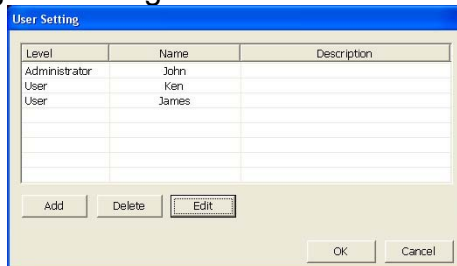
8. To reset all object frames, click **Clean**. To clean an object frame, click right button of mouse and drag the object frame that user want to clean.



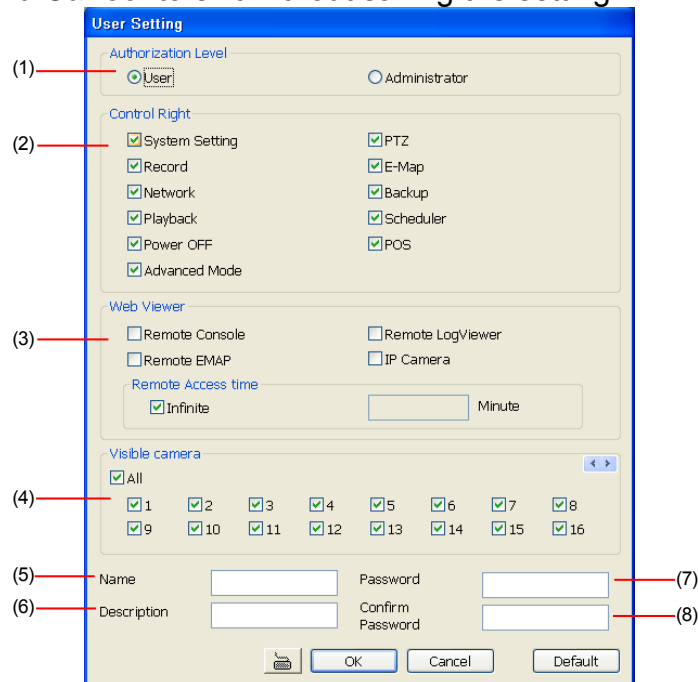
3.10 User Setting

Only administrator can access User Setting. The maximum user accounts are 256.

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



After clicking **Add** or **Edit**, you may customize the user control setting. **OK** to exit and accept the setting, and **Cancel** to exit without saving the setting



(1) Authorization level

Select the status of the user. Only Administrator-level can access User Setting, and reset the Alarm status when using the Remote Console.

(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.

- Remote EMAP

Allow the user to view the E-map of DVR 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) Name

Enter the user name.

(6) Description

Enter the user description.

(7) Password

Enter the user password.

(8) Confirm Password

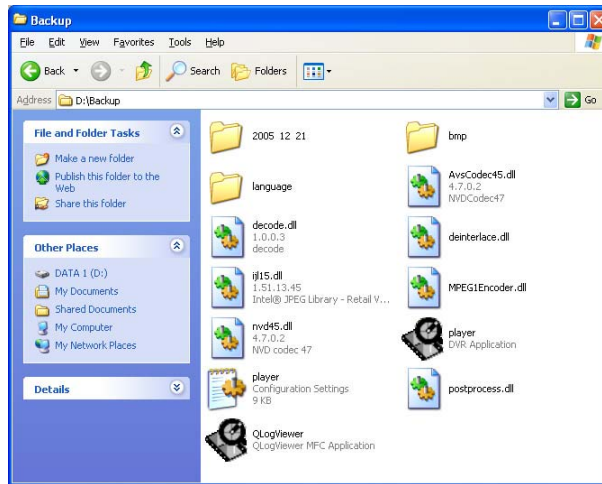
Enter the same user password for confirmation.

Chapter 4 Backup Video Players

You can playback the backup files using QLogViewer and Player applications. When you back up the recorded file, QLogViewer and Player applications are automatically included in the backup folder.

QLogViewer can only playback one video at a time. It only comes with video segmentation, output segmentation, capture screen shot, and print the screen. With Player, it is the same as in Playback mode and supports six (6) different split screen types to view all the video at the same time. The only difference is that there are no Preview and Playback buttons.

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



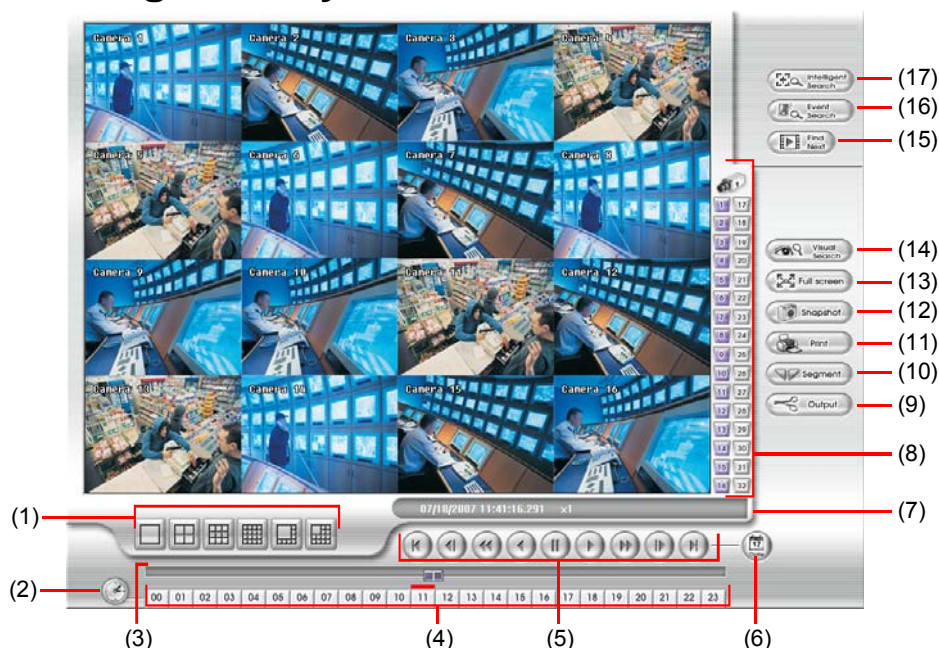
4.1 Familiarizing QLogViewer Buttons



Name	Function
(1) Time	Display the file date, time and play speed.
(2) File	Display the path where the file is located.
(3) Playback Control Buttons	Begin: Move at the beginning of the recorded video file. Previous: Go back to the previous frame.

Name	Function
(3) Playback Control Buttons	<p>Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.</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.</p> <p>Next: Go to the next frame.</p> <p>End: Go to the end of the recorded video file.</p>
(4) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(5) Segmentation	Keep a portion of the recorded video you want. For operational procedure, please refer to Chapter 4.8.
(6) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format.
(7) Save	Capture and save the screen shot either in *.jpg or *.bmp format.
(8) Print	Print the screen shot.
(9) Open	Access the backup video file.


4.2 Familiarizing the Player Buttons



Name	Function
(1) Split Screen Mode	<p>Select from 6 kinds of 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.</p> <p>To view 32 channels, click 16 split screen button to switch channel display.</p>
(2) Exit	Close the Player.



- 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.

Name	Function
(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.
(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 ½x, ¼x, or ⅓x.</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) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
	<p>The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.</p>
(7) Status bar	Display the recorded date, time and play speed.
(8) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(9) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format (see also 2.7).
(10) Segment	Keep a portion of the recorded video you want (see also 2.7).
(11) Print	Print the screen shot.
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(13) Full screen	<p>View in Playback-compact mode. To return, Right click the mouse or press 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) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also 2.9)
(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 only.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion , Video Loss, POS) . (See also 2.10)
(17) Intelligent Search	Search the changes in the motion detector frame (See also 2.11).

Chapter 5 Using Functional Keys

The DVR system provides shortcut keys. The table shows the function keys and descriptions.

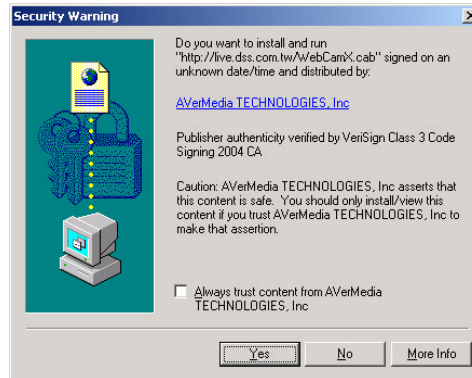
Function Keys	Description
F1	Display system information
F2	Start recording
F3	Enable network function
F4	Access system settings
F5	Switch to playback mode
F6	Access E-map setting
F7	Access PTZ camera control panel
F8	Snapshot
F9	Switch to Full Screen
F11	Switch to AutoScan
Ctrl + A	Turn on/off hardware AGC (Auto Gain Control)

Chapter 6 Using the Remote Programs

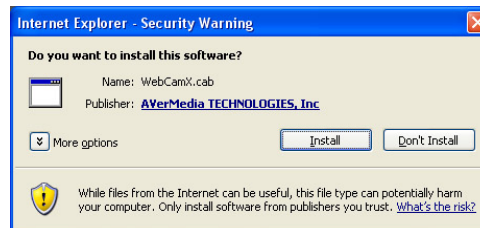
You can use Microsoft Internet Explorer to access DVR server by entering the IP address or domain name. To use this feature, make sure that you are connected to the internet and the Network feature is enabled.

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.

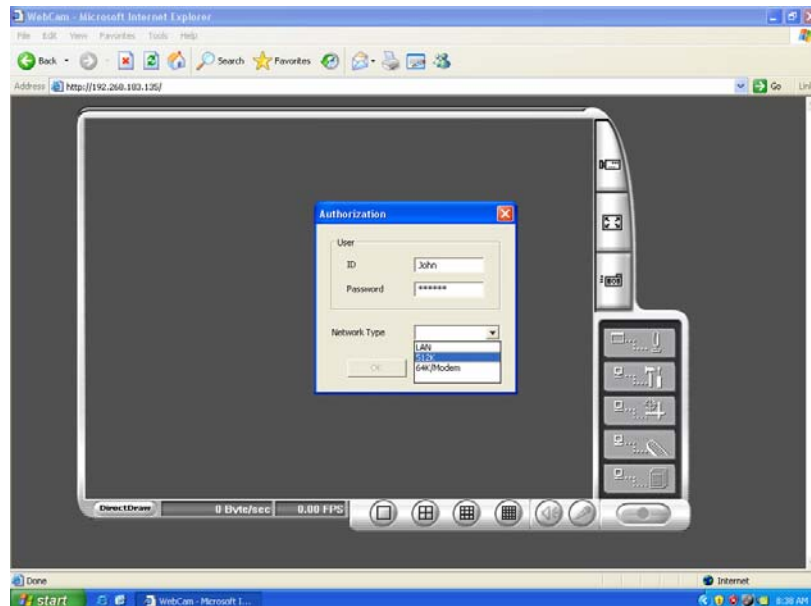
For Windows 2000, click **Yes** when the Security Warning dialog box appears.



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



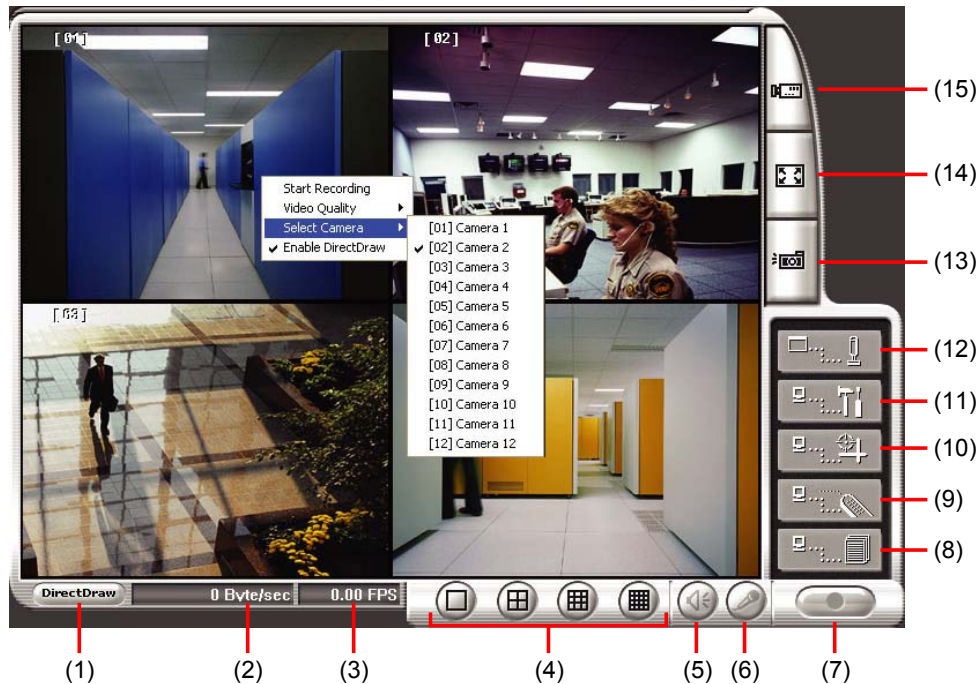
After installing the WebCamX.cab and when connecting to the DVR server, you are required to enter User ID, password and select the network type.




If you are not in a LAN network environment, remote playback video may be un-smooth due to network speed limitation. Slow network transmission speed may possibly cause system performance drop as well.

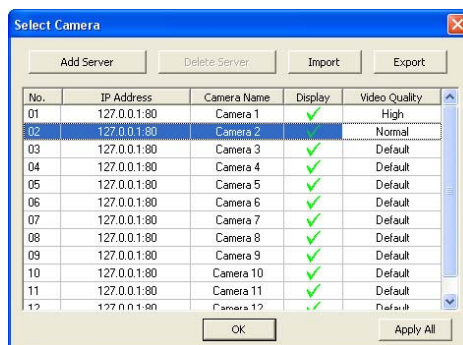
6.1 Familiarizing the WebViewer Buttons

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



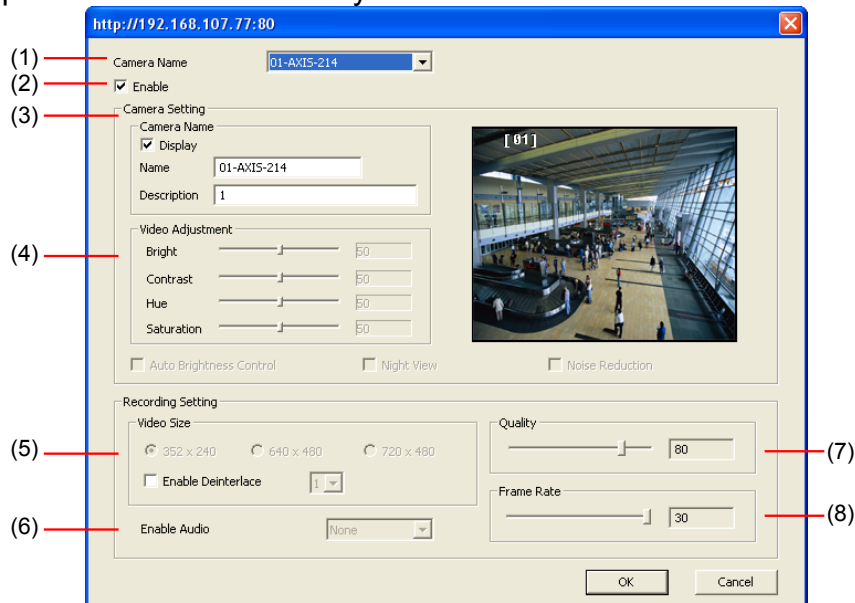
Name	Function
(1) DirectDraw	Enhance the video quality.
 Not all graphic cards can support this function.	
(2) Received file size	Indicate the size of the data being sent per second.
(3) Camera frames	Indicate the number of frames per second.
(4) Split display mode	Select from 4 kinds of split screen types to view all the cameras. It also allows you to switch and view different camera number. To view 32 channels, click 16 split screen button to switch channel display.
(5) Audio	Enable/disable remote sound.
(6) 2-Way Talk	Enable/disable 2-way audio function. This function allows the client and server to talk via internet using MIC. Make sure your microphone and speakers work before using this function. If the DVR server Talk to web-client setting is disabled, you won't be able to hear from the other side.
(7) Record	Save the video of the selected camera in AVI format.
(8) Event Log Viewer	Display the Event logs, Operation logs, POS logs, System logs, and Network logs.
(9) Remote Console	Initiate Remote Console. The interface is the same as DVR application and allows you to control DVR server (see also 6.2).
(10) Remote E-Map	Display the DVR server Emap screen (see also 2.6).
(11) Remote setup	Change the DVR server settings (see also 6.1.1).
(12) Select a PTZ camera	Initiate PTZ camera controller (see also 6.2)

Name	Function
(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.
(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. In Video Quality column, click to select between High, Normal or Low.</p> <p>Click Add Server and select the server type between DVR and IP Cam to add.</p> <p>Click Delete Server to delete the selected item.</p> <p>Click Import to replace it with the previous saved list.</p> <p>Click Export to save the list.</p> <p>Click Apply All to change all the camera video quality based on the selected setting.</p> <p>Click OK to exit.</p>



6.1.1 To Setup Remote System Setting

Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting. The setting here applies to Remote DVR only.



(1) Camera Name

Select the camera you want to adjust the settings.

(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) Camera Name

- 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.

- **Name**
Change the camera name.
- **Description**
Add a short comment.

(4) Video Adjustment

Adjust the Brightness, Contrast, Hue and Saturation of the selected camera.

(5) Recording Setting

Select the size of the video and click the  button. The higher the size, the larger the file it create. You can also activate the **Enable Deinterlace** to enhance the video quality. Set the **Enable Deinterlace** mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

(6) Enable Audio

Select to assign the audio channel of the selected camera. You can only assign one audio channel to one camera source. This way you can record both audio and video.

(7) Quality

Adjust the video quality. The higher the value, the lower the compression level and uses more hard disk space.

(8) Frame Rate

Set the number of images per second of the video to be recorded. The frame rate ranges from 1 to 30 for NTSC and 1 to 25 for PAL. The higher frame rate, it uses more hard disk space.

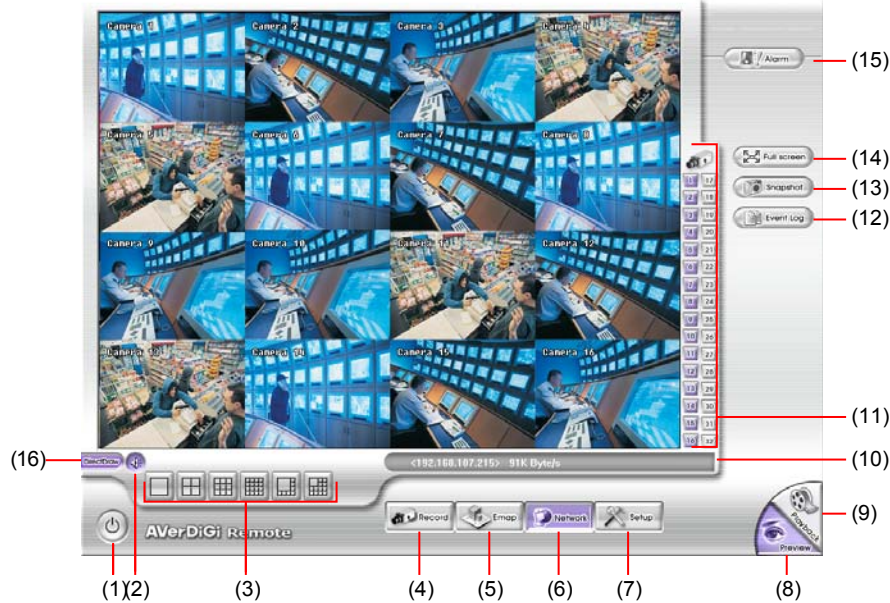
6.2 Familiarizing the WebViewer PTZ Buttons



Name	Function
(1) Direction buttons	Adjust and position the focal point of the PTZ camera. Click the center to pan automatically.
(2) 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.
(3) AutoPan Groups	Operate the PTZ cameras automatically based on the selected camera group preset position number.

Name	Function
(4) Camera preset position number	Move the PTZ camera to the preset point.
(5) Zoom +/-	Zoom in and out the image.
(6) Focus +/-	Adjust the focus manually to produce clear image.

6.3 Familiarizing the Remote Console Buttons



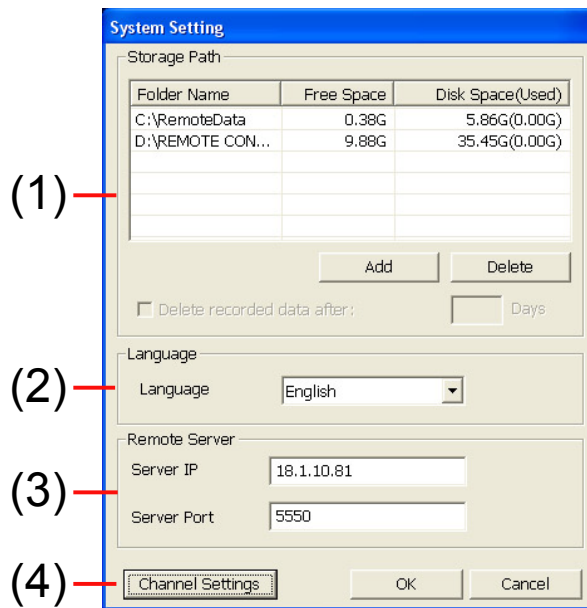
Name	Function
(1) Exit	Close the Remote Console.
(2) Volume	Enable/disable the sound.
(3) Split Screen Mode	Select from 6 kinds of split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen. To view 32 channels, click 16 split screen button to switch channel display.
<p>i</p> <ul style="list-style-type: none"> - If there are only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen mode. - To change the video quality, right-click on the screen and select between High, Normal or Low. 	
(4) Record	Start/stop video recording.
(5) Emap	Display the map in each area, the camera/sensor/relay location and the warning event. (see also 2.6)
(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 6.3.1)
(8) Preview	Switch to Preview/Advanced 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 6.4)
(10) Status Bar	Display the current date, time and hard disk free space.
(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) 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) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.

Name	Function
(14) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press ESC on the keyboard.
(15) Alarm	Alert and display warning info. Only Administrator-level can reset and turn on, off and trigger the Sensor and Relay by right-clicking the item in the Sensor and Relay list.
(16) Direct Draw	Enhance the video quality.

i Not all graphic cards can support this function.

6.3.1 To Setup Remote Console Setting

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**.

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

(2) Language

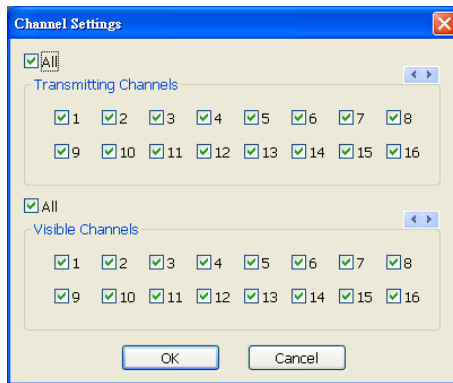
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

(3) Remote Server

Enter the DVR Server IP and Port number.

(4) Channel Settings

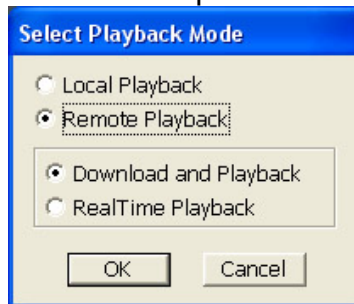
The numbers from 01 to 16 represent the camera ID. In Transmitting Channels section, enable the camera number to receive the camera signal from the server. In Visible Channels section, enable the camera number to view the camera signal on Remote Console screen. To select all the cameras, enable the **ALL** check box.



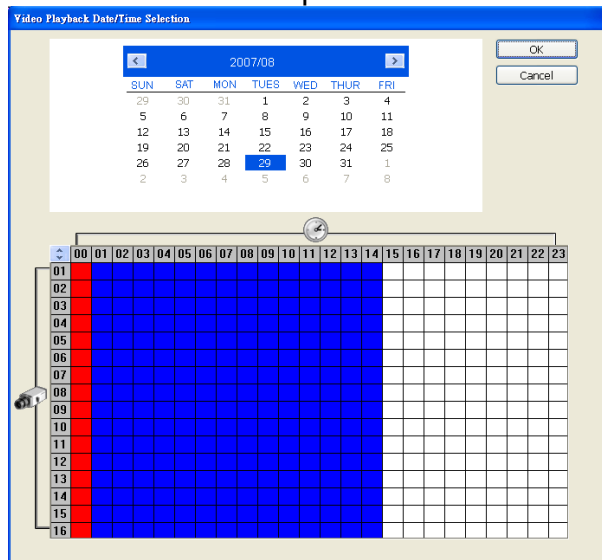
6.4 Using the Remote Playback

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

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



In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera number.



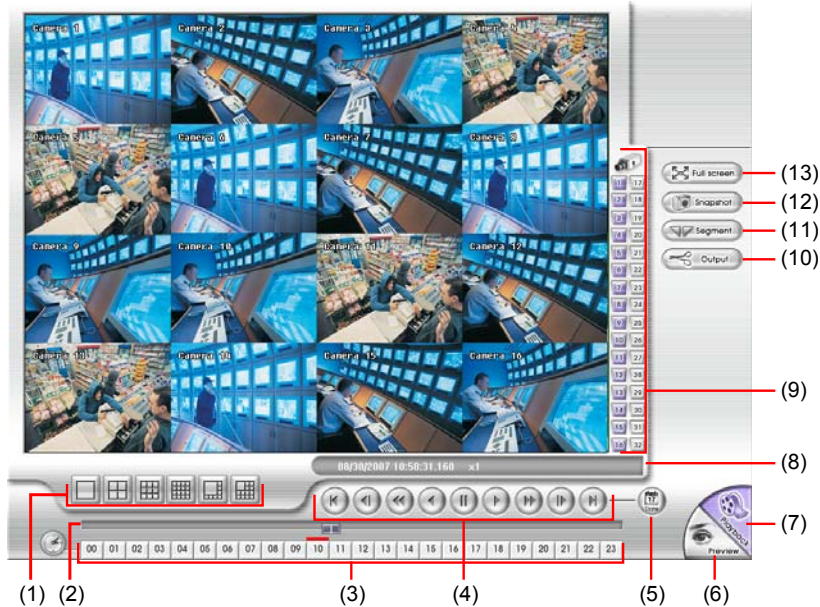
To Make a Selection:

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

selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to download and open (see also [6.4.2](#)).



6.4.1 Familiarizing the Local Playback Buttons




Name	Function
(1) Split Screen Mode	Select from 6 kinds of 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. To view 32 channels, click 16 split screen button to switch channel display.
(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.
(4) Playback Controls	Control playback actions such as play, pause, stop, and fast forward.
(5) Preview	View a preview of the selected video file.
(6) Full Screen	Toggle the video playback to full screen mode.
(7) Playback Controls	Control playback actions such as play, pause, stop, and fast forward.
(8) Playback Controls	Control playback actions such as play, pause, stop, and fast forward.
(9) Vertical Toolbar	Access various playback and navigation functions.
(10) Output	Control the output of the video playback.
(11) Segment	Control the segment of the video playback.
(12) Snapshot	Take a snapshot of the current video frame.
(13) Full Screen	Toggle the video playback to full screen mode.



- 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.



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
(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 ½x, ¼x, or ⅛x.</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>
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
	<p>The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.</p>
(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) Output	Save the segmented file in *.mpg, *.avi, or *.dvr format (see also 2.7).
(11) Segment	Keep a portion of the recorded video you want (see also 2.7).
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(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>

6.4.2 Familiarizing the RealTime Playback Buttons



Name	Function
(1) Split Screen Mode	Select from two (2) different split screen type to playback the recorded video file of all the camera, or one camera. To view all channels, click 4 split screen button to switch channel display.
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	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, or 1/8x. Rewind: Wind back the recorded video file. Pause: Briefly stop playing the recorded video file. Play: Play the recorded video file. Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x or 32x. Next: Go to the next frame. End: Go to the end of the recorded video file.
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
i	The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 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) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(11) 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.

6.4.3 Familiarizing the Download and Playback Buttons



Name	Function
(1) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(2) 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, or 1/8x.</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.</p> <p>Next: Go to the next frame.</p> <p>End: Go to the end of the recorded video file.</p>
(3) Date	Open other file.
(4) Output	Save the segmented file in *.mpg, or *.avi, format.

Name	Function
(5) Print	Print the screen shot.
(6) Save	Save the screen shot either in *.jpg or *.bmp format and video in *.dvr format.
(7) Segment	Keep a portion of the recorded video you want. You may follow the instruction in 2.7 .

6.5 Using Handy Viewer to Access DVR Server

Users can use a mobile phone to access the DVR through Internet. Make sure your mobile phone support IE browser and is connected to the internet. To access the DVR server, open IE browser and enter <http://enter server IP or domain name here/mobile>. You can see the latest screen shot. Click << >> to change the channel or camera and **Refresh** to reload new screen shot.

6.6 Using PDA Viewer to Access DVR Server

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

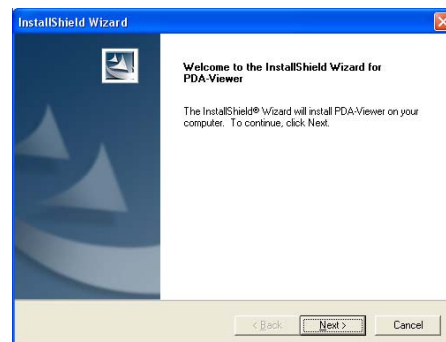
OS: MS Windows CE 4.0, PocketPC 2002/2003, Mobile 5 PDA version
 CPU: ARM architecture

6.6.1 To install PDA Viewer thru ActiveSync

1. Connect your PDA to your PC. Place the CD into the CD-ROM drive then click Install PDA Viewer. And follow the on screen instructions.



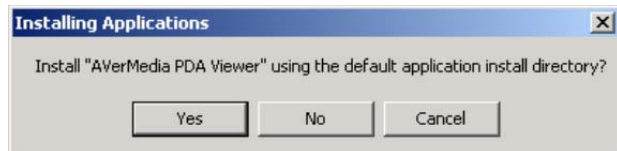
2. Click Next to continue.



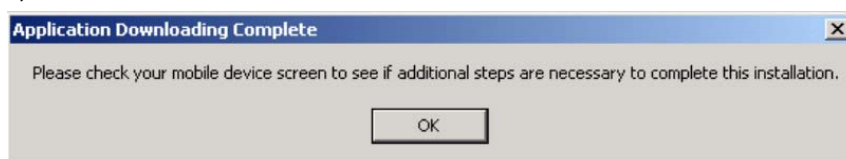
3. Read the license agreement and click **Yes** to accept all the terms. The system will then automatically install the application.



4. When you are prompted, click **Yes** to install the application using the default directory.



5. When done, click OK.

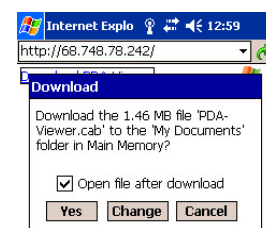


6.6.2 To install PDA Viewer from the Internet

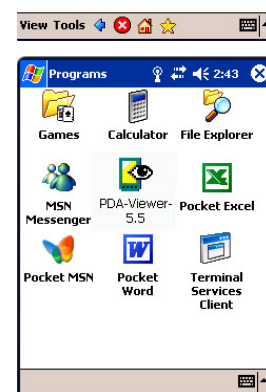
1. Make sure you are connected to the internet.
2. Open the web browser and enter the server IP. Then click the hyperlink Download PDA-Viewer.



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

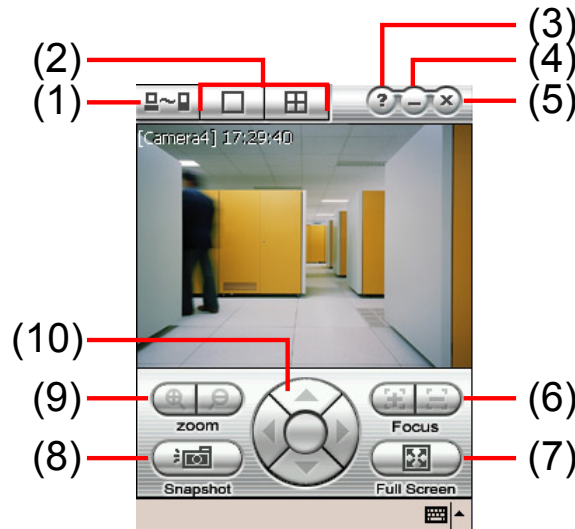


4. After the installation, the PDA-Viewer 5.5 icon will appear in the Programs list.



6.6.3 To Use the PDA Viewer

1. Run the PDA-Viewer 5.5 in the Programs.
2. Familiarizing the PDA Viewer buttons.



Name	Function
(1) Connect	Hook up to the DVR server. Make sure you are connected to internet. When the iView screen appears, enter the server IP, port, user ID, password and select the connection type. Then, click OK.
(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 PDA-Viewer software version.
(4) Minimize	Reduce the size to taskbar.
(5) Exit	Close the PDA-Viewer.
(6) Focus	Adjust the focus of PTZ camera to produce clear image.
(7) Full Screen	Use the entire screen to only display the video.
(8) Snapshot	Capture and save the screen shot in *.bmp format.
(9) Zoom	Zoom in and out the PTZ camera image.
(10) Direction buttons	Adjust and position the focal point of the PTZ camera.

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



6.7 Using Java-Viewer to Access DVR Server

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

6.7.1 To install JAVA-Viewer from the DVR Server

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

6.7.2 To Use the JAVA-Viewer

1. Run the JAVA-Viewer program.
2. Enter the DVR IP address, port number, user ID, and password. Please refer to your DVR server setting for that information.
3. And then, select the Connect to connect to DVR server.



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



5. When connection is success, you will see the camera video on the screen.



6. To switch to different camera view, select menu and select the channel.



7. The JAVA-Viewer support PTZ control function, you can refer to **Help** file for detail function control key. Select **menu** and go the way down to select the **Help** file.

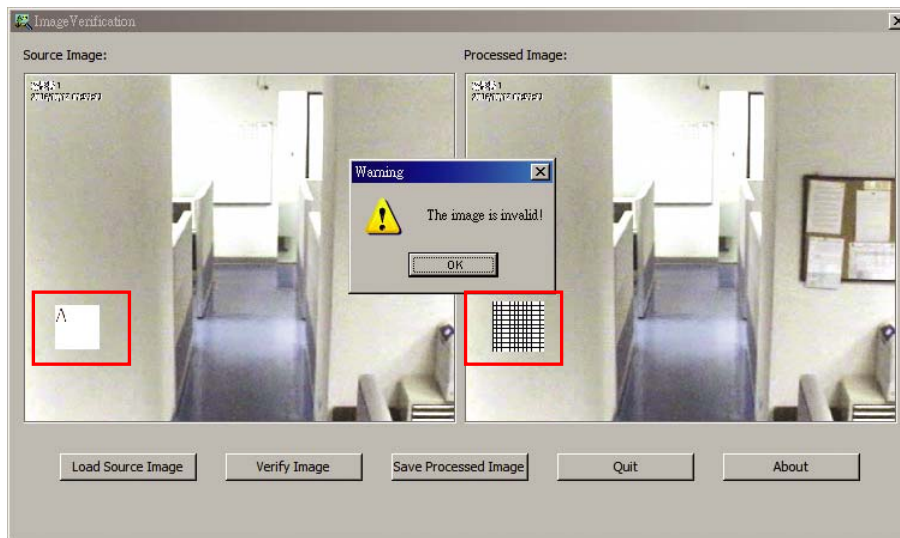


Chapter 7 Image Verification

ImageVerification is a watermark-checking program to identify the authenticity of a saved image (e.g. by snapshot). This program can only verify uncompressed bmp image files.

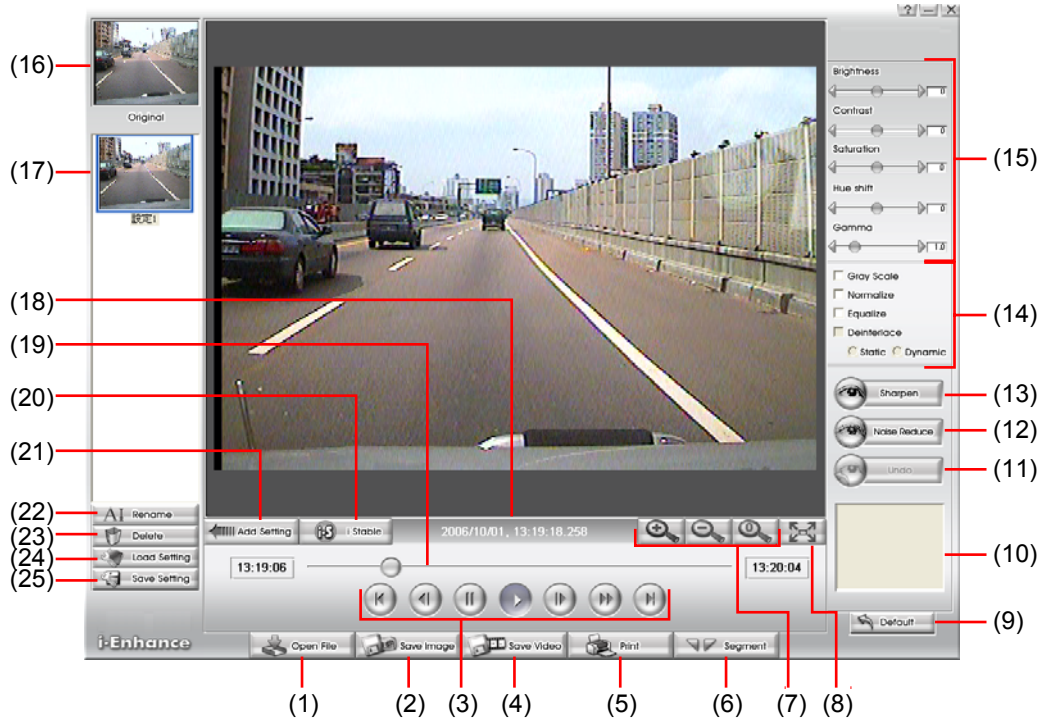
7.1 To Run the ImageVerification program

1. Click **Start > Programs > DSS > ImageVerification**.
2. In the ImageVerification screen, click **Load Source Image** and locate the image source.
3. Click **Verify Image** to begin the process.
4. Check the result in the Processed Image screen. If the picture is unmodified, the image in the Source Image and Processed Image screen would be exactly the same. If the picture is being modified, a warning dialog box would prompt you and the modified area is highlighted.



Chapter 8 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 wanted 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.



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	Begin: Move to the beginning of the video file. Previous: Go back to the previous frame. Pause: Briefly stop playing the video file. Play: Play the video file. Faster: Play the video file at 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 wanted 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.
(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.

Name	Function
(14) Effects	<ul style="list-style-type: none"> • Gray Scale: convert the image into black and white (monochrome). • Normalize: adjust the brightness intensity. • Equalize: automatically adjust the images that are too dark. • De-interlace: smooth out the overlying frames. • 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 8.1)
(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.

8.1 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 windows 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 i-Stable 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 windows.



Chapter 9 Web Tools

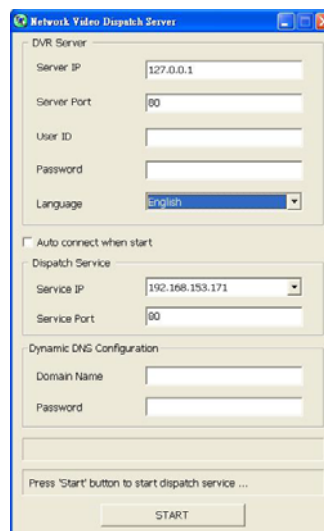
The bundled Web Tools includes Dispatch Server and Remote Backup program. To install Web Tools, place the CD into the CD-ROM drive then click **Install Web Tools**.

9.1 Dispatch 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.

To Run Dispatch program:

1. Make sure you are connected to the internet.
2. Click **Start>Programs>DSS>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 star**
Enable to automatically connect the dispatch server when start up
5. In the **Dispatch Service** section, if you have installed more than one network card, select the Service IP number.
6. 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.
7. Click **START** to connect.



9.2 Remote Backup

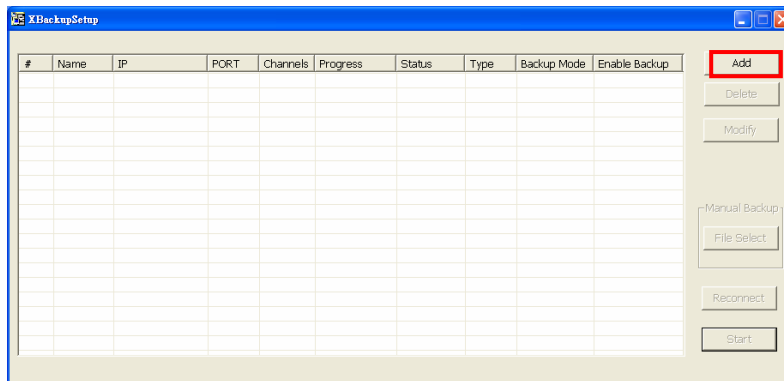
Remote Backup is purely for backing up the *.dvr file from the DVR sever. You can select between Auto Backup and Manual Backup. Auto Backup continuously archives one hour of the recorded data at a time, starting from the specified date. As for Manual Backup, it only archives the recorded data of selected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



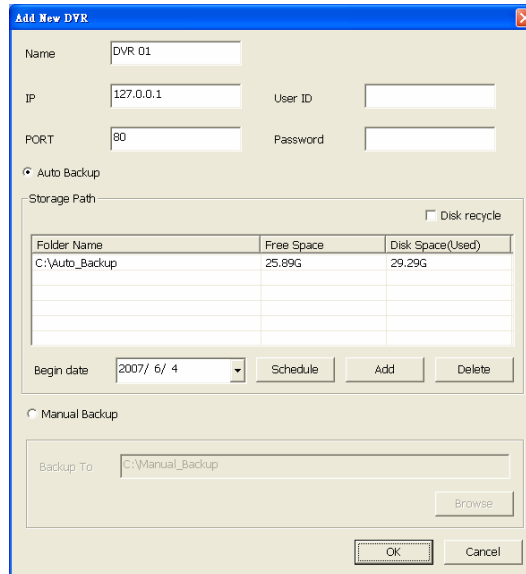
To back up the data, you must have at least 2G hard disk space.

To back up the recoded data from the DVR server:

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



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



5. Select the Backup mode:

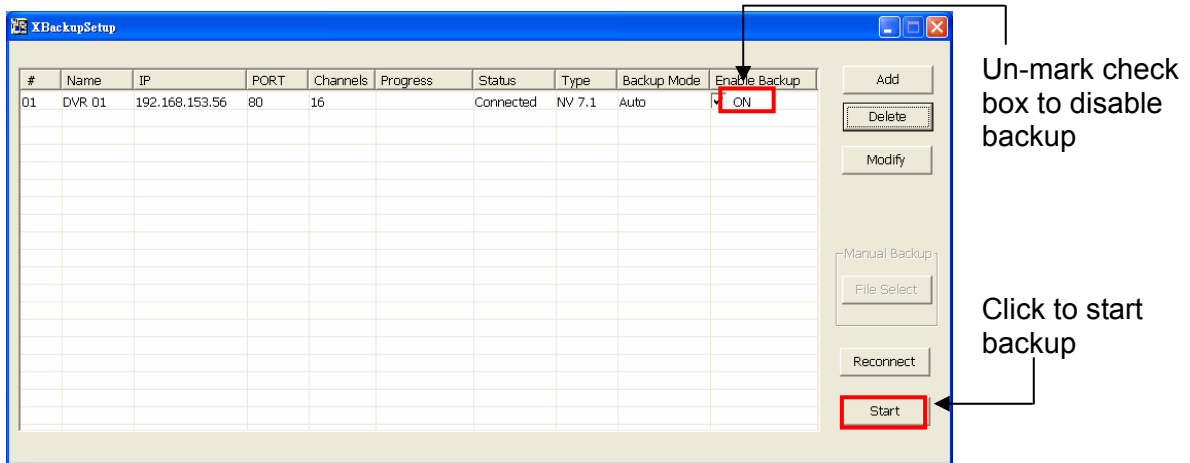
Auto Backup mode: the backup will automatically execute when the setup is completed

- 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.

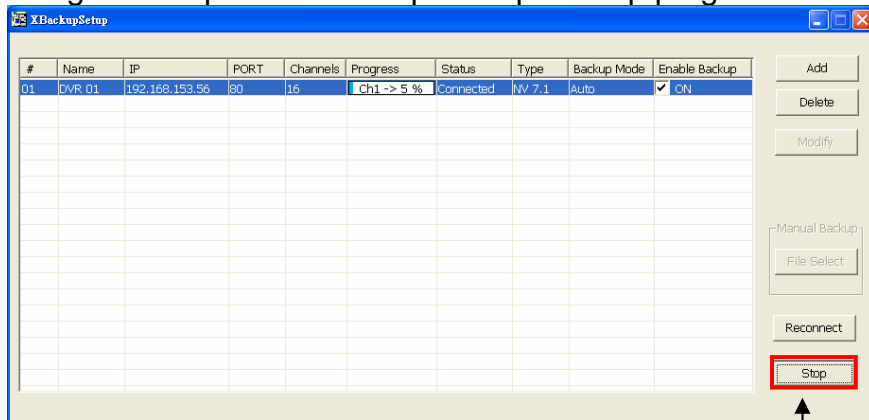
Manual Backup mode: the backup progress will start when user press the backup button

- 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 windows.



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





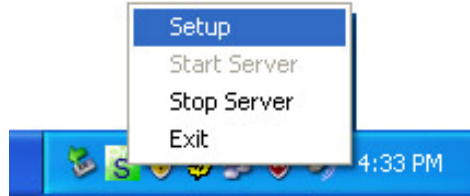
While backup, the **start** button will turn to **stop** button

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

Chapter 10 Using the Remote Control Server

The bundled Remote Control Server enables the PC with Central Management System program (CM1000) installed in it remotely access the DVR server. You may need to manually run this program for CMS access the DVR server. To run, click **start > Programs > DSS > DVR > Remote Control Server**.

The  remote control server icon appears on the taskbar when the remote control server is enabled. To change the port setting or stop server, right-click  icon and then make a selection.



User can also setup Remote Control Server in DVR **Network** setting, please see [Chapter 3.4 #5](#).

Appendix A Registering Domain Names

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 or Netscape Navigator to access the following dialog.

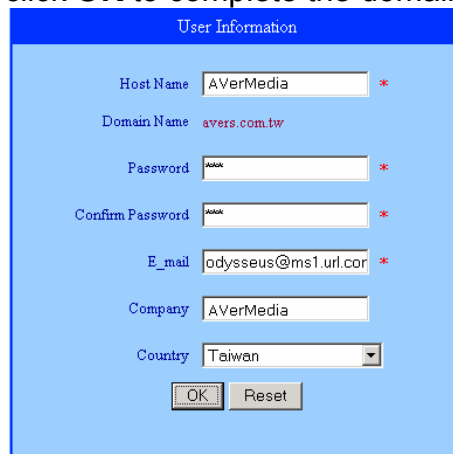


The 'User Login' dialog box has a blue header. It contains a text input field for 'Serial No.', a dropdown menu for 'Product' with 'DX7000' selected, and two buttons: 'OK' and 'Reset'.

First input the serial number and select the product name. The serial number is located on accessories box. The serial number input format should be 12 digits without colon (:), or hyphen (-).

2. 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. It contains several fields: 'Host Name' (text input, 'AVerMedia', red asterisk), 'Domain Name' (text input, 'avers.com.tw'), 'Password' (text input, masked with asterisks, red asterisk), 'Confirm Password' (text input, masked with asterisks, red asterisk), 'E_mail' (text input, 'odysseus@mst1.url.cor', red asterisk), 'Company' (text input, 'AVerMedia'), and 'Country' (dropdown menu, 'Taiwan'). At the bottom are 'OK' and 'Reset' buttons.

Warranty Notice

LIMITED WARRANTY

AVerMedia® TECHNOLOGIES, Inc. warrants that this product to be free of defects resulting from faulty manufacturing or components under the following terms:

WARRANTY LENGTH

Labor is warranted for 15 months from the date of purchase. Replacement products will be warranted for the remainder of the 15-month warranty period or 30 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:
 - a. 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.
 - b. Misapplication of service by someone other than the manufacturer's representative.
 - c. Any shipment damages. (Claims must be made with carriers.)
 - d. Any other cause that does not relate to a product defect.
3. Cartons, cases, batteries, cabinets, tapes, or accessories used with the product.
4. AVerMedia TECHNOLOGIES, Inc. does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose.

WHAT WE WILL AND WILL NOT PAY FOR

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

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

EXCLUSION OF DAMAGES

THE MANUFACTURER'S SOLE OBLIGATION AND LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT AT OUR OPTION. THE MANUFACTURER SHALL NOT, IN ANY EVENT, BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE (INCLUDING, BUT NOT LIMITED TO, DAMAGES RESULTING FROM INTERRUPTION OF SERVICE AND LOSS OF BUSINESS) OR LIABILITY 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 15 months 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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Web Site: www.avermedia.com / www.averdigi.com