

IWH5000 series

IWH5416+16

IWH5416 Touch II

User's Manual



FCC NOTICE (Class A)



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

Federal Communications Commission Statement

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Class A ITE

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

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

European Community Compliance Statement (Class A)



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

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

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WARNING

- TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
- GUARANTEE BECOMES VOID IN CASE OF ANY UNAUTHORIZED MODIFICATIONS INTO DOM CONTENTS.
- DO NOT REMOVE REMOVABLE HDD BAY SHILE SYSTEM IN USE. IT WOULD DAMAGE DOM CONTENTS.
- DO NOT INSTALL DVR IN THE AIRTIGHT ENVIROEMENT. IT WOULD CAUSE INSTABILITY OF THE SYSTEM.
- While transporting the DVR server to other location, we suggest removing hard disk from DVR server to avoid the unexpected condition to damage the hard disk.

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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Chapter 1 Introduction

1.1 Package Contents



- If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer.
- Rack ear is an optional accessory.

1.1.1 IWH5416+16(32CH)



6HDD Bay model

- IWH5000 series unit
- Optical USB mouse
- Software CD (Manual and Quick Guide are included)
- RS-485 cable



4HH Bay model

- Power Cord (*The power cord may vary according to the local electricity system.)
- DVI cable (16CH)
- Audio in cable (2 Spot monitor cables are included)

1.1.2 IWH5416 Touch II(16CH)



4HDD bay model

- IWH5216 Touch II unit
- Optical USB mouse
- Software CD (Manual and Quick Guide are included)
- RS-485 cable



6 HDD bay model

- Power Cord (*The power cord may vary according to the local electricity system.)
- DVI cable (16CH)
- Audio in cable (2 Spot monitor cables are included)

1.1.3 Optional Accessories

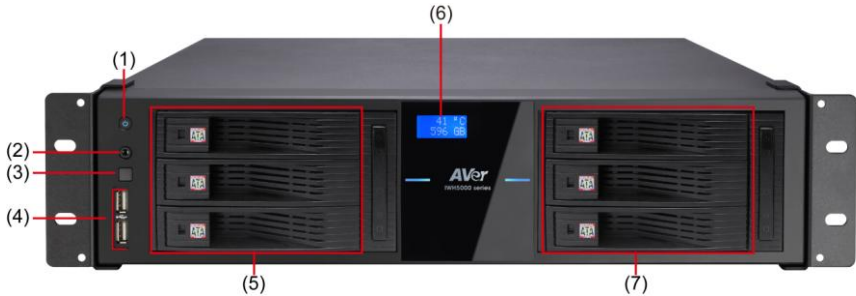
- Loop through cable(16channels)
- Remote controller
- Rack ears
- IR Extended Cable

1.2 Hardware Introduction

1.2.1 Front Panel

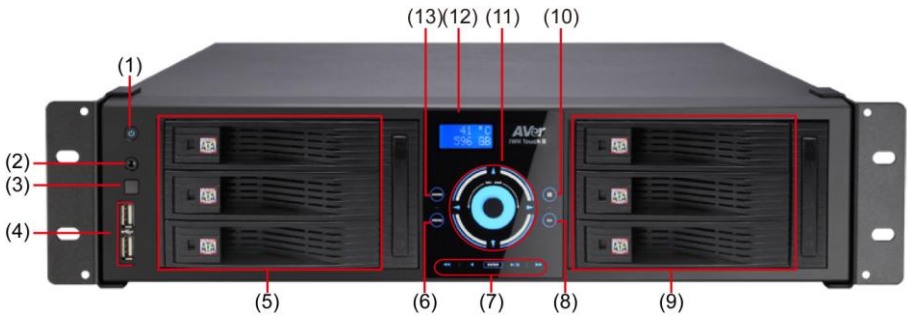
1.2.1.1 6HDD Bay Model

■ IWH5416+16(32CH)










Name	Function
(1) Power	Power on the DVR unit
(2) IR Sensor port	For extended IR sensor cable(optional)
(3) IR Sensor	Receive signal from the remote control to operate the DVR unit
(4) USB port	2 x USB 2.0 ports for connecting USB device, ex: USB pen drive, external hard disk, mouse...and so on.
(5)&(7) Removable HDD drawer	Each HDD bay can be installed one(1) SATA hard disk(see also Chapter 2.1.2)
(6) LED display panel	Display current hard disk free space and system temperature.

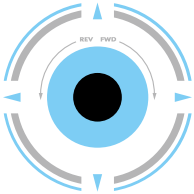
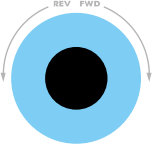
■ IWH5416 Touch II(16CH)



TIP

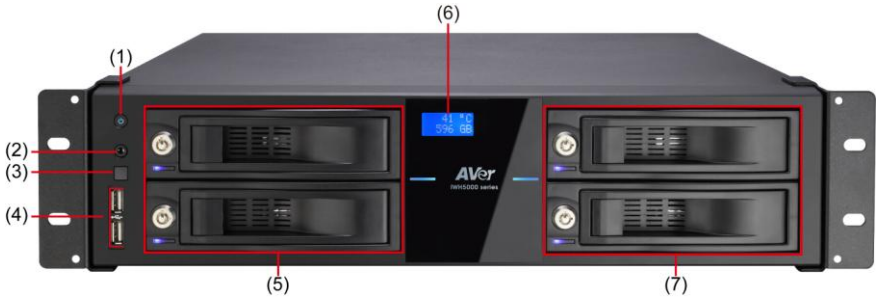
Touch the blue word, button center, blue arrow, and blue area to make a selection or functional.

Name	Function
(1) Power	Power on the DVR unit
(2) IR Sensor port	For extended IR sensor cable(optional)
(3) IR Sensor	Receive signal from the remote control to operate the DVR unit
(4) USB port	2 x USB 2.0 ports for connecting USB device, ex: USB pen drive, external hard disk, mouse...and so on.
(5)&(9) Removable HDD drawer	Each HDD bay can be installed one(1) SATA hard disk(see also Chapter 2.1.2)
(6) 	Call out system setup menu on preview mode Call out playback menu on playback mode
(7) Playback Control buttons	 To playback video at slower speed of 1/2x, 1/4x, 1/6x, 1/8x, 1/16x, or 1/32x.
	 To rewind the recorded video
	Enter Confirm or make a selection
	 To pause playback
	 To start playback
(8) 	To playback video at faster speed of 2x, 4x, 6x, 8x, 16x, or 32x.
	Press the button can select channel 1, 2, 3, 4, 5... to channel 16.
(10) 	Press the button can select single, QUAD, 9-split screen, 16-split screen, 7+1 split screen, and 12+1 split screen mode.

Name	Function
<p>(11)</p> 	<p>Move cursor to left, right, up, and down direction DVR application interface and function setup window.</p> <hr/> <p>To move PTZ camera lens to left, right, up and down in PTZ mode</p> <hr/>  <p>Touch the blue area to go to next or previous frame. Go forward direction is Next frame and backward direction is Previous frame.</p>
<p>(12) LED display panel</p>	<p>Display current hard disk free space and system temperature.</p>
<p>(13) Mode</p>	<p>Switch between preview, playback, and EMap mode.</p> <ul style="list-style-type: none"> ■ In preview mode, user can switch between Preview, Playback and EMap mode. ■ In playback mode, user can switch between Preview and Playback mode. ■ In EMap mode, user can switch between Preview and Emap mode.

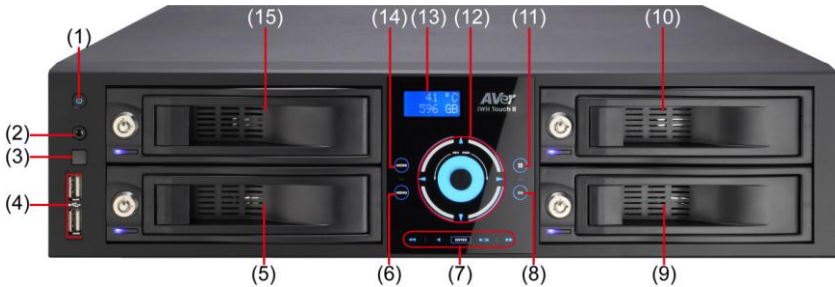
1.2.1.2 4HDD Bay Model

■ IWH5416+16(32CH)











Name	Function
(1) Power	Power on the DVR unit
(2) IR Sensor port	For extended IR sensor cable(optional)
(3) IR Sensor	Receive signal from the remote control to operate the DVR unit
(4) USB port	2 x USB 2.0 ports for connecting USB device, ex: USB pen drive, external hard disk, mouse...and so on.
(5)&(7) Removable HDD drawer	Each HDD bay can be installed one (1) SATA hard disk.
(6) LED display panel	Display current hard disk free space and system temperature.

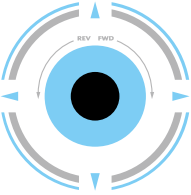

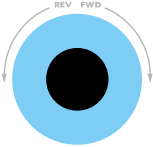
■ IWH5416 Touch II(16CH)



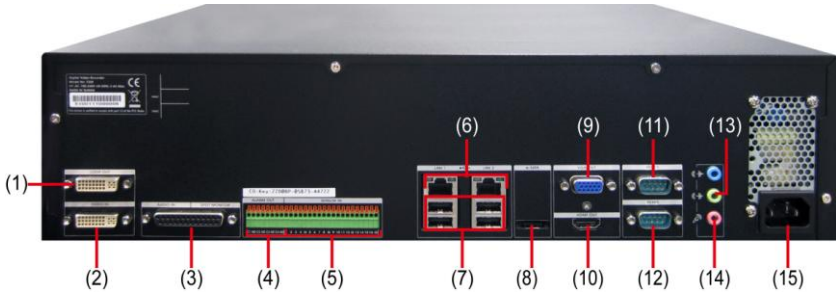
TIP

Touch the blue word, button center, blue arrow, and blue area to make a selection or functional.

Name	Function
(1) Power	Power on the DVR unit
(2) IR Sensor port	For extended IR sensor cable(optional)
(3) IR Sensor	Receive signal from the remote control to operate the DVR unit
(4) USB port	2 x USB 2.0 ports for connecting USB device, ex: USB pen drive, external hard disk, mouse...and so on.
(5)&(9)&(10)&(15) Removable HDD drawer	Each HDD bay can be installed one(1) SATA hard disk(see also Chapter 2.1.2)
(6) 	Call out system setup menu on preview mode Call out playback menu on playback mode
(7) Playback Control buttons	 To playback video at slower speed of 1/2x, 1/4x, 1/6x, 1/8x, 1/16x, or 1/32x.
	 To rewind the recorded video
	Enter To confirm or make a selection
	 To pause playback
(8) 	 To start playback
	 To playback video at faster speed of 2x, 4x, 6x, 8x, 16x, or 32x.
	Press the button can select channel 1, 2, 3, 4, 5... to channel 16.
(11) 	Press the button can select single, QUAD, 9-split screen, 16-split screen, 7+1 split screen, and 12+1 split screen mode.

Name	Function
<p>(12)</p> 	 <p>Move cursor to left, right, up, and down direction DVR application interface and function setup window.</p> <hr/> <p>To move PTZ camera lens to left, right, up and down in PTZ mode</p> <hr/>  <p>Touch the blue area to go to next or previous frame. Go forward direction is Next frame and backward direction is Previous frame.</p>
<p>(13) LED display panel</p>	<p>Display current hard disk free space and system temperature.</p>
<p>(14) Mode</p>	<p>Switch between preview, playback, and EMap mode.</p> <ul style="list-style-type: none"> ■ In preview mode, user can switch between Preview, Playback and EMap mode. ■ In playback mode, user can switch between Preview and Playback mode. ■ In EMap mode, user can switch between Preview and Emap mode.

1.2.2 Back Panel(32CH/16CH)



Name	Function
(1) Video Loop Out(16CH)	Output the video signal to a CCTV monitor.
(2) Video In	Input the video camera signal and display it on channel 1~ 16.
(3) Audio In & Spot Monitor	Inputs the audio signal to audio input device (16 channels) and two (2) spot monitor output can display video on the Spot monitor when receive an alarm video.
<p>i The audio input device has its own power supply is necessary.</p>	
(4) Relay Out	Support 4 relay devices (Relay: 1A @ 250V AC/30V DC).
(5) Sensor In	Support up to 16 sensor devices.
(6) LAN 1/ LAN 2 Port	For Gigabit Ethernet connection.
(7) USB port	For connecting USB interface devices such pen drive, external hard disk, mouse, keyboard...etc.
(8) eSATA interface	For connecting with e-SATA storage.
(9) VGA Out	Output the video signal to LCD monitor.
(10) HDMI port	Output the video signal to TV/HDMI monitor.
(11) RS232 port	For POS device connection.
(12) RS485	For PTZ camera (see Appendix E) or System Controller Pro connection.
(13) Audio output	For audio output device connection, such as speaker.
(14) MIC In	To connect the microphone.
(15) Power Plug	Connect the power cord into this port.

Chapter 2 Hardware Installation

2.1 Hard Disk Installation

2.1.1 6HDD Bay Model(32CH/16CH)

The DVR unit can support up to 4 SATA hard disks. Follow the illustrated instructions below to install the hard disk:

1. Open the door of HDDbay.



2. Slide the hard disk into the HDD bay and push the hard disk inside the HDD bay completely.



3. Close the door of HDD bay.



4. Lock the HDD bay by using the key that is included in accessories kit.



5. User may now connect all the cables and power on the DVR unit.

2.1.2 4 HDD Bay Model(32CH/16CH)

The DVR unit can support up to 4 SATA hard disks. Follow the illustrated instructions below to install the hard disk:

1. Open the door of HDD bay.



2. Slide the hard disk into the HDD bay and push the hard disk inside the HDD bay completely.



3. Push to close the door of HDD bay and lock the HDD drawer by using the key that is included in accessories kit.

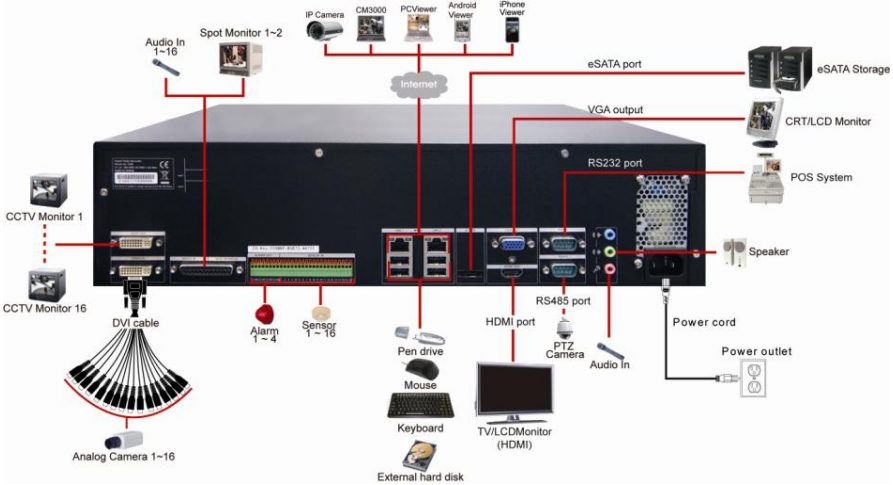


4. User may now connect all the cables and power on the DVR unit.

2.2 Connecting Device

2.2.1 IWH5416+16(32CH)

The back panel of the DVR unit, user can connect up to 32 cameras on both IP camera and analog camera. The DVR unit also can connect 16 sensor devices, 4 alarm devices, and output video to TV/LCD monitor (HDMI). Follow the illustration below to make the connection:



For backup recorded video, plugging the pen drive through USB port, and then, use the bundled software enables user to playback and export video clip.



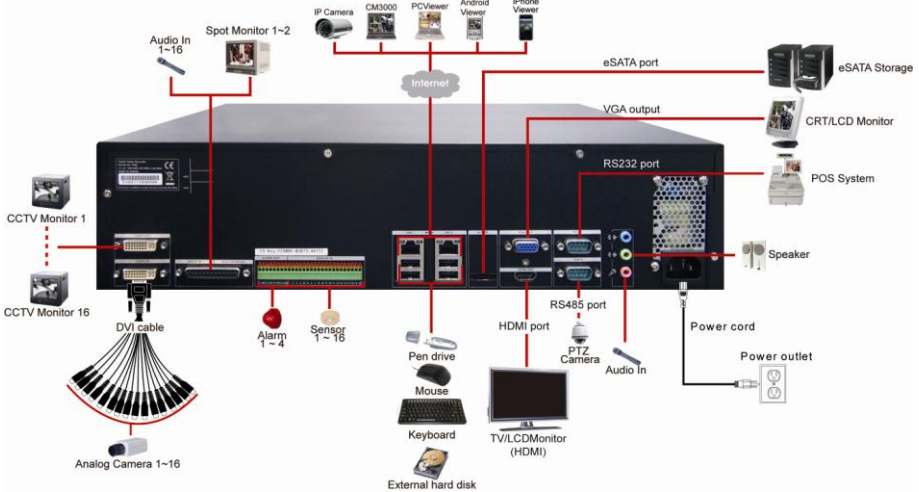
4HDD Bay Model



6HDD Bay Model

2.2.2 IWH5416 Touch II(16CH)

The back panel of the DVR unit, user can connect up to 16 cameras on both IP camera and analog camera. The DVR unit also can connect 16 sensor devices, 4 alarm devices, and output video to 2 CRT/LCD monitor. Follow the illustration below to make the connection:



For backup recorded video, plugging the pen drive or external hard disk through USB port, and then, use the bundled software enables user to playback and export video clip.



4 HDD Bay Model



6 HDD Bay Model

2.2.3 RS485 Cable Definition

The following list is cable definition of the RS485 cable.



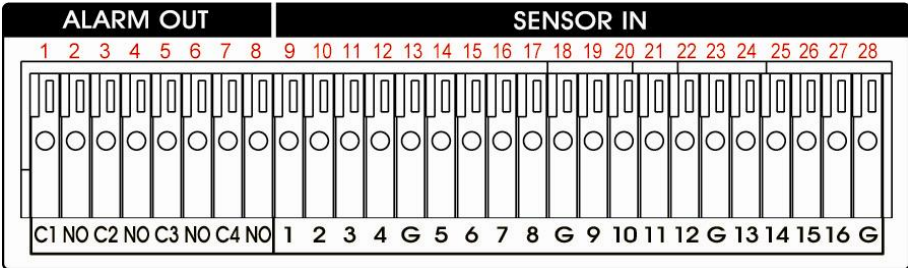
RS485 cable figure

	RS485 cable site (Color of cable)	PTZ camera site
4	Red	RX+
5	Green	RX-
8	White	TX+
9	Black	TX-

2.3 Pin Definition of Sensor/Relay/RS485 Port

2.3.1 Pin definition of Sensor and Relay

The I/O card enables you to connect 16 sensor inputs and 4 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.

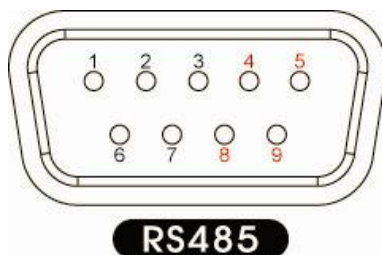


The signal from the sensor (i.e., infrared sensors, smoke detectors, proximity sensors, door sensors, etc.) is being transmitted to the I/O card and this triggers the system to respond and send signal to relay device (i.e., alarm, telephone etc).

#	Pin	Definition	#	Pin	Definition
1	C1	Relay Signal Close 1	15	6	Sensor Signal 6
2	NO	Relay Signal Normal Open	16	7	Sensor Signal 7
3	C2	Relay Signal Close 2	17	8	Sensor Signal 8
4	NO	Relay Signal Normal Open	18	G	Sensor Ground Signal
5	C3	Relay Signal Close 3	19	9	Sensor Signal 9
6	NO	Relay Signal Normal Open	20	10	Sensor Signal 10
7	C4	Relay Signal Close 4	21	11	Sensor Signal 11
8	NO	Relay Signal Normal Open	22	12	Sensor Signal 12
9	1	Sensor Signal 1	23	G	Sensor Ground Signal
10	2	Sensor Signal 2	24	13	Sensor Signal 13
11	3	Sensor Ground Signal	25	14	Sensor Signal 14
12	4	Sensor Signal 4	26	15	Sensor Signal 15
13	G	Sensor Ground Signal	27	16	Sensor Signal 16
14	5	Sensor Signal 5	28	G	Sensor Ground Signal

2.3.2 Pin Definition of RS485 Port

The following is a pin definition of RS485 port on DVR server.

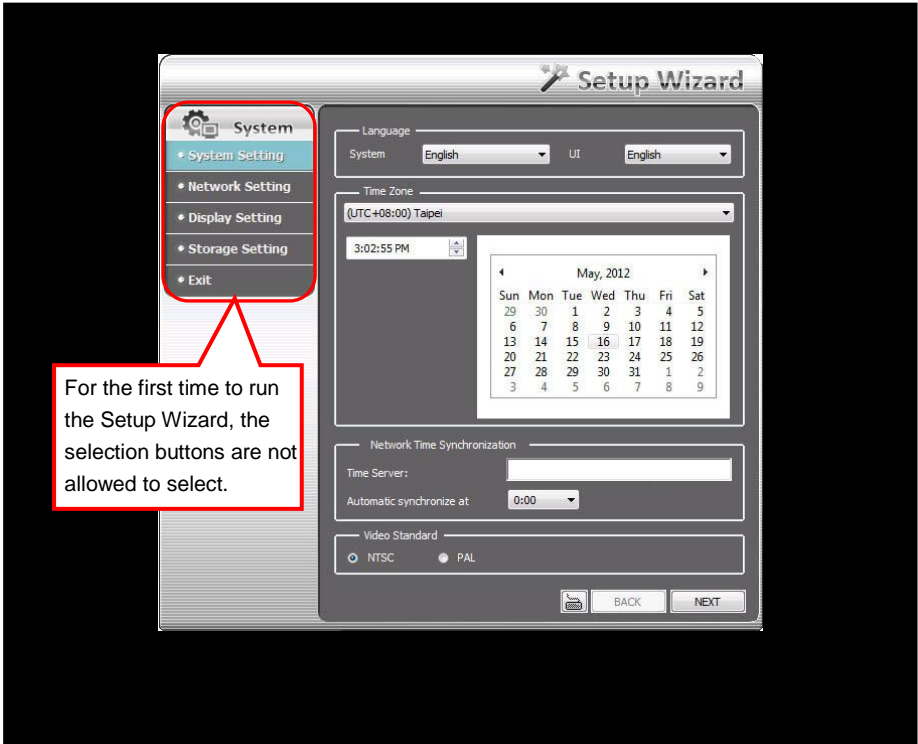


Pin #	Definition
4	RX+
5	RX-
8	TX+
9	TX-

Chapter 3 Setup Wizard

For the first time to run the DVR, the **Setup Wizard** will guide you to setup common settings of DVR.

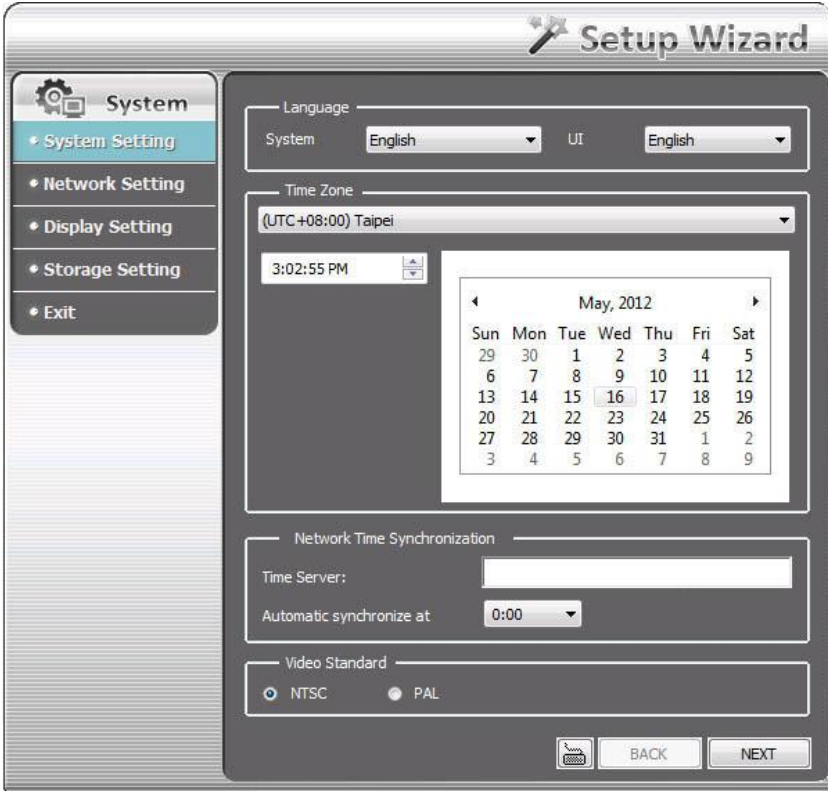
After DVR system starts up, the wizard dialog is shown as following:



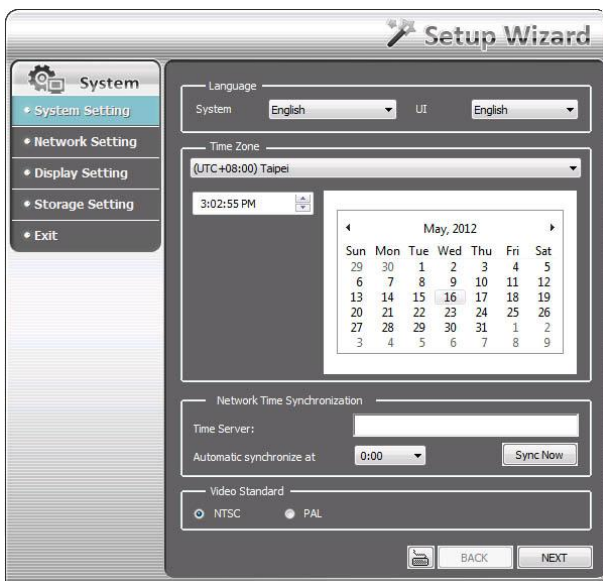
The user can re-do the Setup Wizard by click **Setting** >> **Setup Wizard** in preview mode.

System Setting Wizard

In System Setting step, select the language of DVR system and interface, current time zone of DVR is located, setup network time synchronization, and select video standard of DVR system.



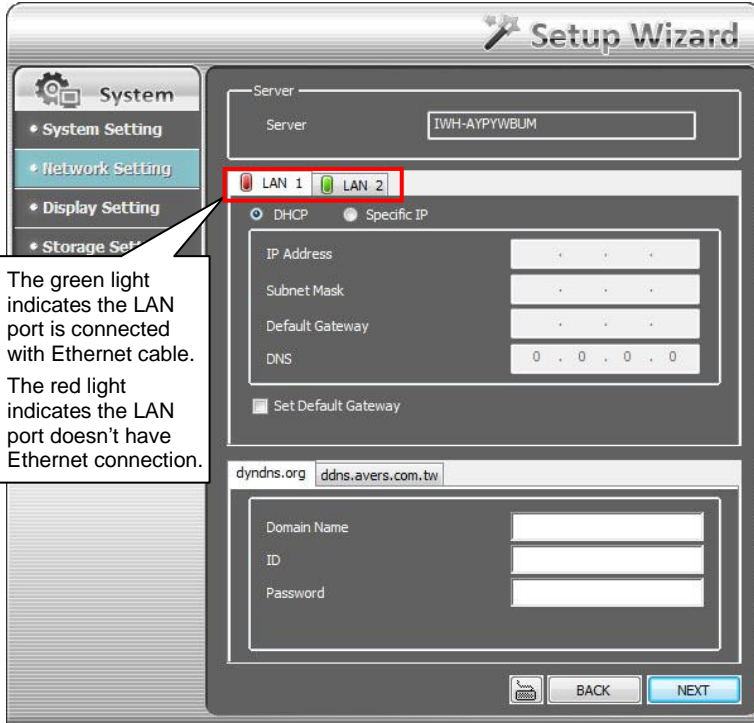
1. **Language:** Customize the language for the DVR system, interface, and tool tips based on the selected language. The default the language is in English.
2. **Time Zone:** Select the time zone, time, year, and date of DVR is located to setup correct DVR time.
3. **Network Time Synchronization:** Adjust the DVR system time same as network time server. Enter the **Time Server** IP address or domain name. Select **Automatic Synchronize** time to set automatic synchronize time on a daily basis. To adjust time manually, user need to complete Setup Wizard and click **Setup >> Setup Wizard >> System setting**, then, click **Sync Now** button to adjust time right away. The **Sync Now** button will show after completing the Setup Wizard.



4. **Video Standard:** Change and select the proper video standard according to your camera video system. If the video system setting is wrong, the video would appear abnormally.
5. Click **Next** to go to next wizard section.

Network Setting Wizard

Setup the IP address of DVR and configure the DDNS. After completed all configuration, click **Next** to save the setting and go to next wizard setting.



1. **LAN1/LAN2:** Select IP address mode -- **DHCP** or **Static IP**.



After setup LAN1, click **Next** will go to **LAN2** setup page.

- **DHCP:** To use DHCP server assigning DVR server an IP address.
- **Static IP:** Assign a fixed IP address for DVR server
 - **IP ADDRESS:** Assign a constant IP address which a real IP addresses give from ISP to DVR system.



Do Not assign the DVR to 1.0.0.0 network segment. It will cause the DVR cannot access to Internet due to the un-recognition to 1.0.0.0 IP segment.

- **Mask:** It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to DVR system.

- **GATEWAY:** A network device act as a passageway to internet. Enter the network gateway IP address
 - **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
 - **Set Default Gateway:** Select LAN1 or LAN2 port as a default gateway. Only one LAN port can be the default gateway. When user has changed the default gateway, the DVR system will disable the previous one automatically.
2. **DDNS setting:** To use this feature, go to <http://ddns.avers.com.tw> or <http://dyndns.org> and register.



The DDNS setting is not required to setup if user hasn't apply your domain name yet.

■ **dyndns.org**

- **Domain Name:** The user has applied on website www.dyndns.org.
- **ID:** The account ID that user has created on website www.dyndns.org.
- **Password:** The password that user has setup when created an account on <http://www.dyndns.org>.

dyndns.org

■ **ddns.avers.com.tw**

- **Domain Name:** The domain name that user has applied on website ddns.avers.com.tw.
- **CD-Key:** The CD-Key is located on back panel of DVR unit.
- **Password:** The password that user has setup when applied DNS on website ddns.avers.com.tw.

ddns.avers.com.tw

■ Register the Domain Name on <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.



- First input CD-Key number and select the product name.



One of CD-Key allows user to register two domain names. One of domain name can be used by Dispatch serve.

- Then click **OK** to login or **Reset** to clear the previous input.

2. User Information

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



- Note that Host Name and Domain Name (avers.com) are the replacement for Internet address while a remote client tends to search a dynamic server.
- Host Name column supports alphabet letters and number only. The maximum character is 15.
- The password maximum character is 12.

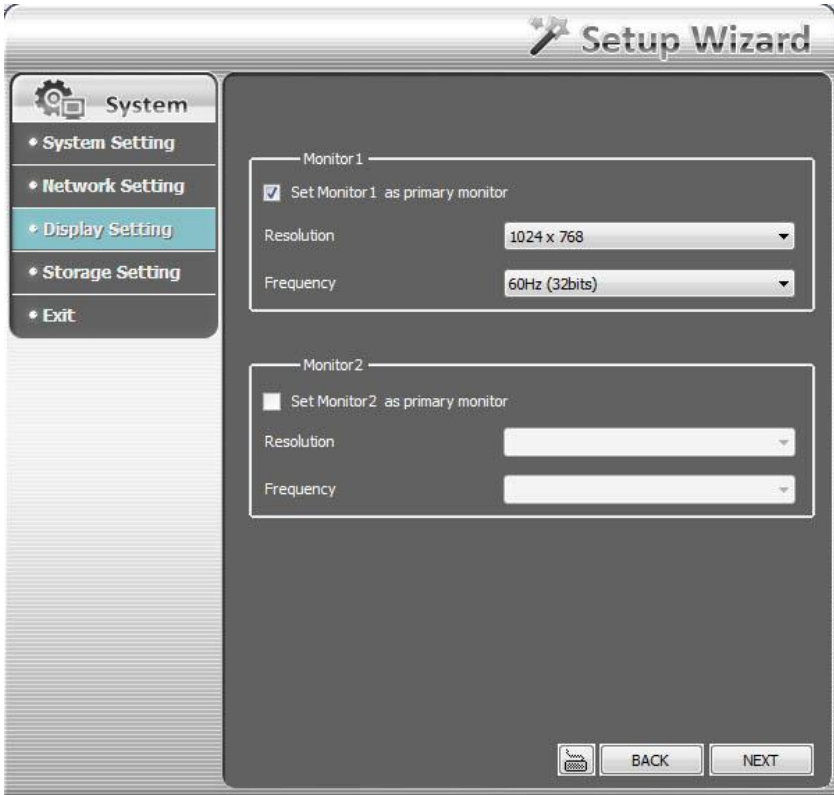
■ Register the Domain Name on <http://dyn.com/dns/>

1. Open the browser on your PC and enter the URL <http://dyn.com/dns/>
2. Follow the DyDNS's instruction on website to apply the free domain name.

Display Setting Wizard

Set monitor resolution and frequency. The DVR system support dual monitor and user need to set a primary monitor when using dual monitor. The preview UI is displayed on primary monitor (Monitor 1) and the **Monitor 1** sign is displayed at left-upper corner on preview UI screen. The playback UI and Eamp UI are displayed on monitor 2 and **Monitor 2** sign is displayed at left-upper corner on screen.

Select the **Resolution** and **Frequency** from drop-down list and click **Next** to save the setting and go to next wizard setting.



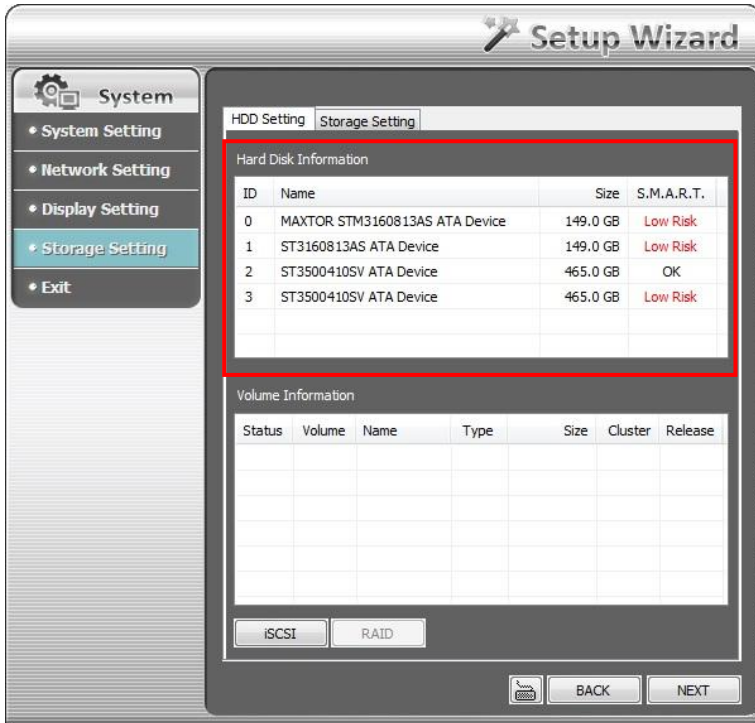
Storage Setting Wizard

To create partition, format the hard disk and select storage path for saving recording data. Also, user can setup iSCSI for an extra storage capability if user has iSCSI server on your LAN network.

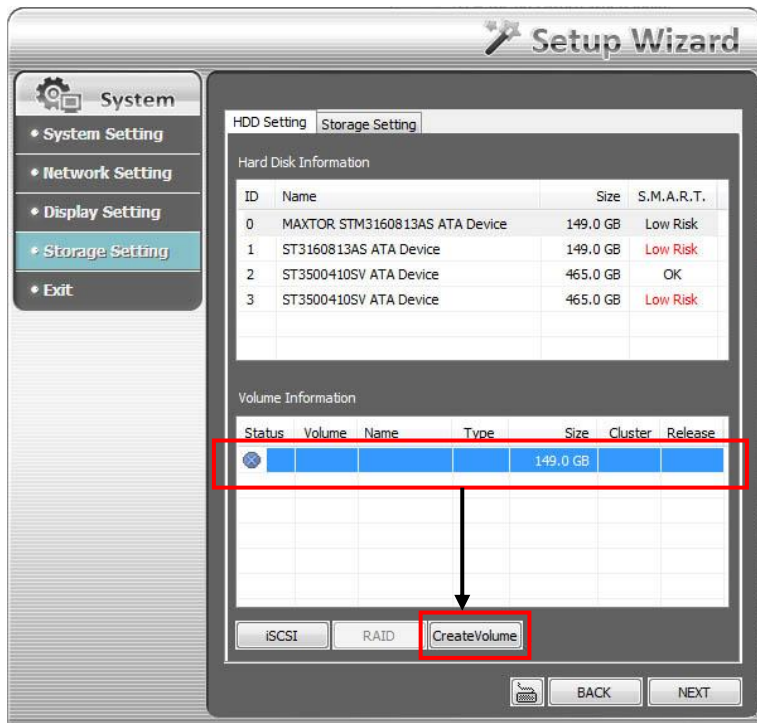
■ **HDD Setting:** To create and format hard disk partition, delete a partition, and formatting the hard disk.

➤ **Create a partition**

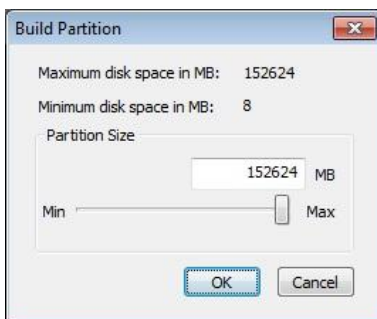
1. Select the hard disk from **Hard Disk Information** table.



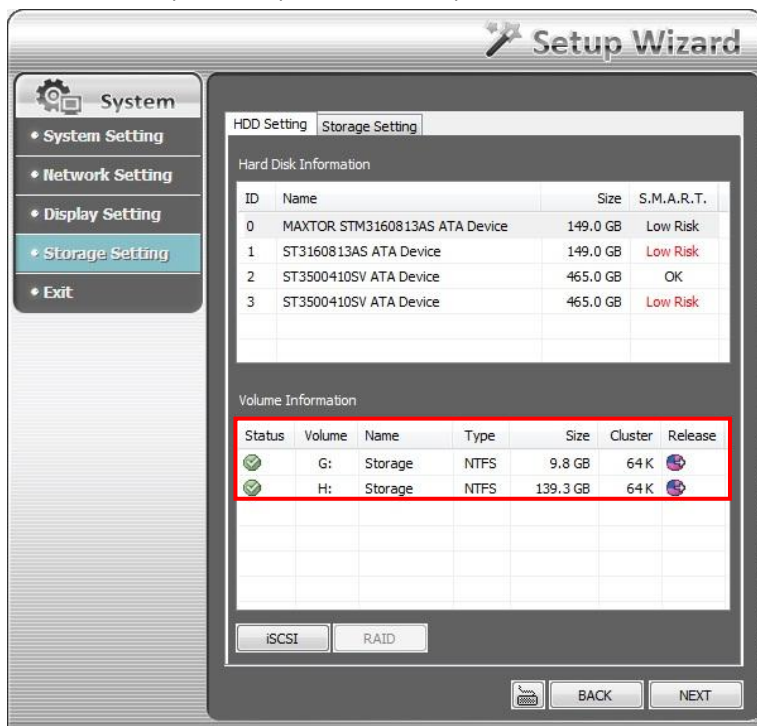
2. Click on the hard disk is in **Volume Information** table and click **Create volume** to set the size of partition.



3. User can enter the partition size or scroll the bar to adjust the size. Then, click **OK** to create and format the partition. The created and formatted partition will list in **Volume Information** table.

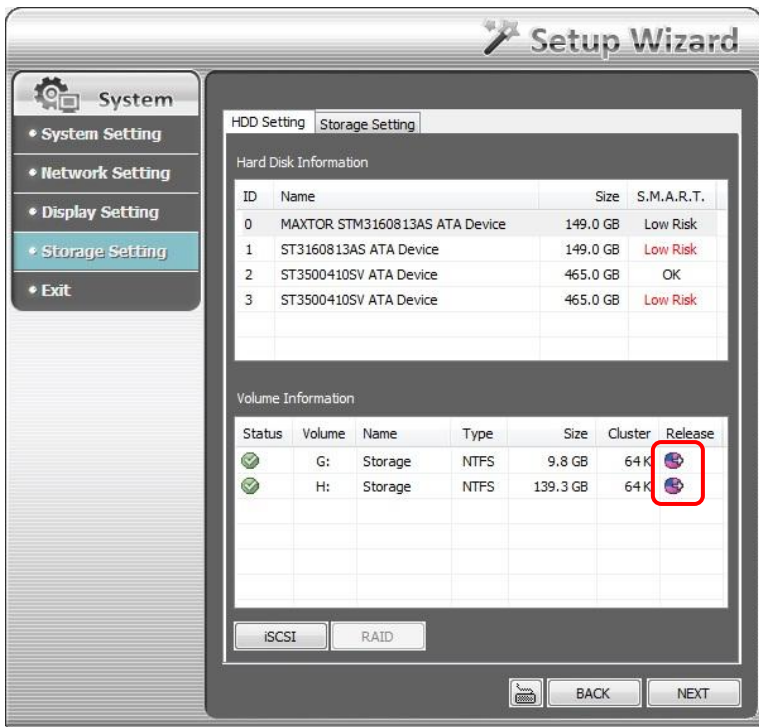


- Each partition is assigned a letter as a volume ID. When user select a storage path, please remember the volume ID match to which partition. To select storage path, click **Next** to go to **Storage Setting** page.
- To create another partition, repeat the above steps.

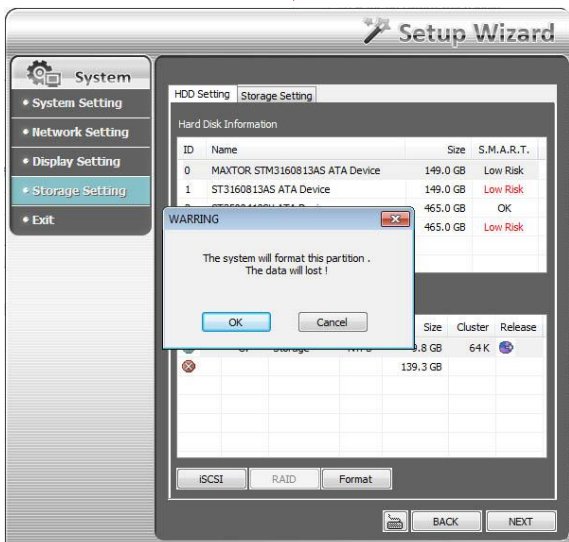
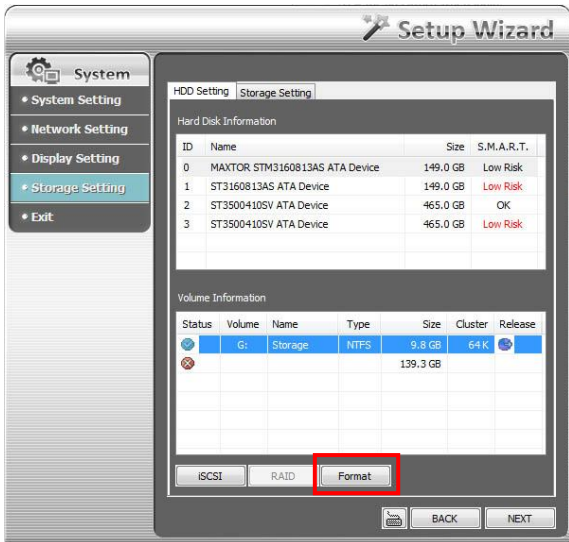


➤ **Release the partition:** User can delete the partition. When the partition has been deleted, all data save in partition will be erased

1. In Volume Information table, click Release icon (🗑️) of the partition that user wants to delete it.
2. The DVR system will delete the partition and all data will be erased.

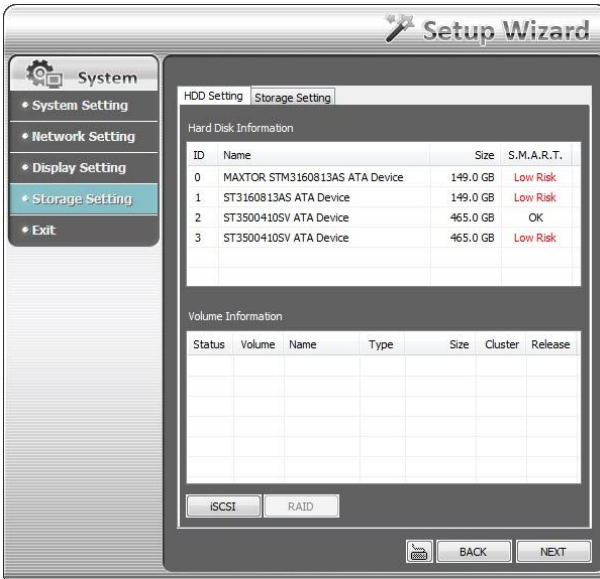


- **Format the hard disk:** To format a hard disk or a partition. All data on the hard disk or partition will be erased.
 1. Select the hard disk in Hard Disk Information table and select the partition or hard disk that want to be format in Volume Information table.
 2. Then, the **Format** button will show and click **Format** button to format it.

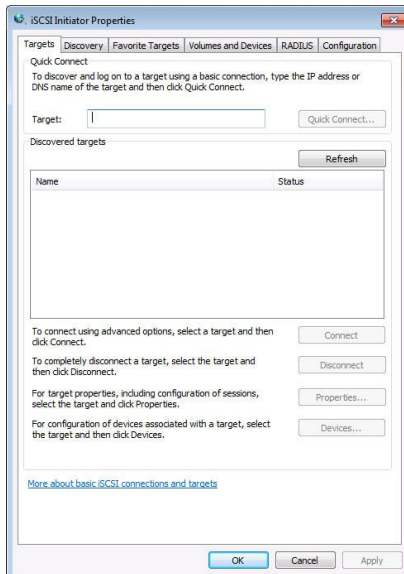


■ **iSCSI:** To connect the iSCSI server that user has on LAN network.

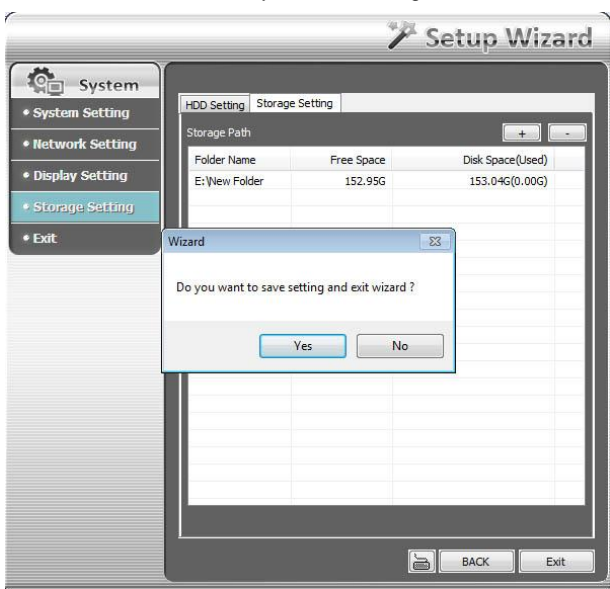
1. Click iSCSI button.



2. Enter the IP address or DNS name of the iSCSI server and click **Quick Connect** to make a connection to iSCSI server. After connected, user can set the iSCSI server as a storage path.



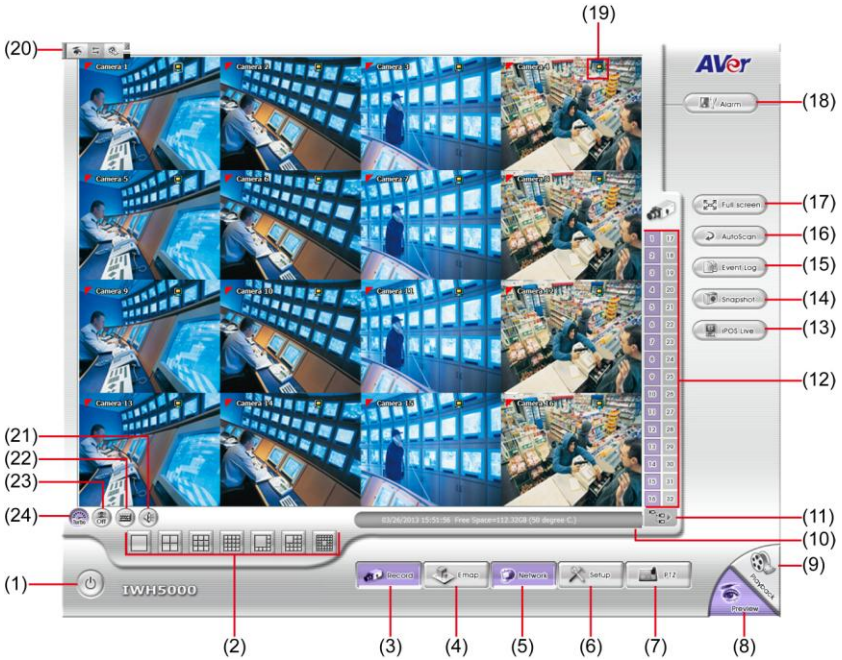
6. After completing Storage setting, click **Exit** button and select **Yes** to save and exit the Setup Wizard. If user wants to modify some of setting, select **No** will back to Setup Wizard.



Chapter 4 Using the DVR Software

In this chapter, it will description how to preview and playback video on DVR system. Also, it will introduce each function in preview and playback mode.

4.1 Familiarizing the Functions in 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:

Logout

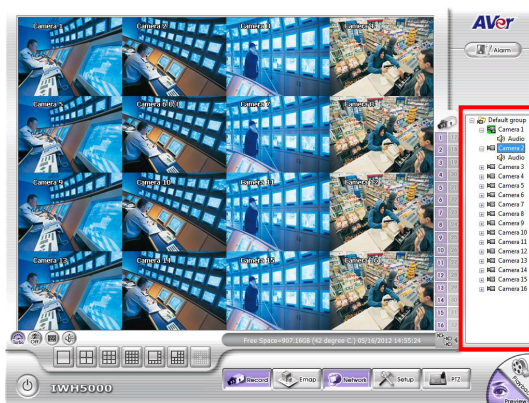
User:

Level:

- **Exit:** To shutdown the DVR system.
- **Reboot:** Restart the DVR system.
- **Login:** To login in different account. Default user ID is **admin** and password is **admin**.

Name	Function
(1) Exit	<ul style="list-style-type: none"> - About: Display current DVR program version. User also can update the DVR program firmware. - Compact: Switch to compact mode - Guest: Switch to the guest mode. In guest mode, the functions are limited to preview and playback function only. For complete functions of DVR, please login as an administrator authority level. - Cancel: To exit Logout dialog box
(2) 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"> - The 16CH DVR doesn't support 32-split screen mode. - If there are only 4 cameras, you won't be able to switch to 9, 13, and 16 split screen mode. - The DVR system will save the current operating mode status (split screen mode, auto scan, and compact mode status) when shutdown DVR application and apply the mode for next login. - 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 relocate it. - To only display one of the video in the multiple-screen mode, Left click on the video screen you only want to display.
(3) Record	<p>To start recording. The button turns violet when it is recording. Click it again and enter the password to stop.</p>
(4) EMap	<p>To load up to 8 desired Emaps in BMP or JPG image format, and locate cameras, sensors, and relays to desired positions (see also Chapter 4.5).</p>
(5) Network	<p>To allow inbound connections. When this function is enabled, the button turns violet. Click it again to disable all inbound connections.</p>
(6) Setup	<p>When setting up the system for the first time, type the login password in the Password text box to access. The default ID is admin and password is admin.</p> <p>Click Setup  button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication.</p>
(7) PTZ	<p>To call out a PTZ setup dialog to configure an appointed PTZ camera (see also Chapter 4.4).</p>

Name	Function
(8) Preview	Switch to Preview mode. This allows you to view live camera display. Press ctrl + F can freeze the live preview video screen. And then, click Snapshot can save the freeze video screen.
(9) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see Chapter 4.2)
(10) Status Bar	It shows the current time, system temperature, and the hard disk's free space.
(11) Camera Group Tree	To view the user defined channel group tree (see also Chapter 5.2.4). Click “+” of group to extend group and drag the camera to surveillance screen to view. Click “+” of camera to view the camera information.



(12) Camera ID	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.
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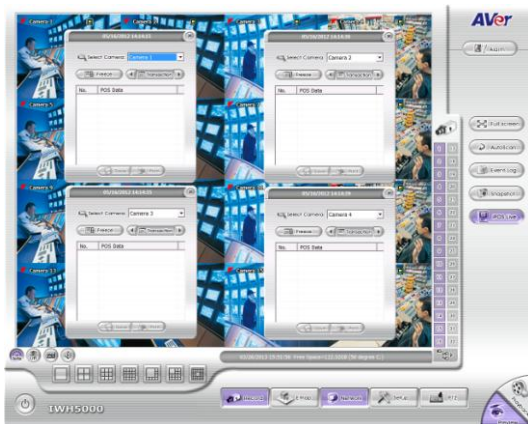
Name**Function**

(13) iPOSLive

To view the real time iPOS data of channels. Click the iPOSLive to call out the real time iPOS data windows.





DVR system supports multiple iPOS data channel display when multi-channel function has enabled (see also [iPOS Pro Setting](#) in [System Setting](#)). In default, user only can view one iPOS data channel one at time.



To switch to different channel, click **Select Camera** drop down list to select the channel. To tempore stop iPOS data coming, click **Freeze**. To un-freeze, click **Transaction**.

(14) Snapshot



Catch a static recording image and save it as a BMP or a JPG file.


Name	Function
(15) Event log	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(see also Chapter 4.1.1).
(16) AutoScan	Click it to start Auto Scan.
(17) Full screen	<p>Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.</p>  <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(18) Alarm	Click Alarm Status () button to view the status or advanced alarm information.

Name	Function
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(19) Live Playback button



If user has enabled the live playback function in System setup, the live playback icon should be seeded on the each channel of the preview screen(see also (9) Miscellaneous in Chapter 5.1).







Click  to playback the recorded file instantly in preview mode. When the channel is in live playback mode, the icon is . Move the mouse to the bottom of the live playback channel, the playback tool bar

() will show up. Using the playback tool bar to control the playback. Total 4 channels can be live playback at the same time.




(20) Preview/Playback/
Emap Switch button

When using dual monitor, if user has enabled playback or Emap and the Preview/Playback () or Preview/Emap() switch button is displayed on preview screen.

-  (Preview/Playback): When the playback screen has enabled, click the two direction arrow area () that will switch playback screen to display on monitor 1(primary monitor). To switch playback screen back to monitor 2(2nd monitor), click two direction arrow area () again.
-  (Preview/Emap): When the Emap screen has enabled, click the two direction arrow area () that will switch Emap screen to display on monitor 1(primary monitor). To switch Emap screen back to monitor 2(2nd monitor), click two direction arrow area () again.

Click X to close the switch button and to call out the switch button just enables playback or Emap again.

Name	Function
(21) Volume	Adjust the audio volume to a proper volume.
(22) On Screen Keyboard	If the keyboard is not available, you may use the Virtual Keyboard.
(23) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.
(24) Turbo	<p>To improve the smoothness of live video. Turbo button is disabled () in default. When turbo button is enabled or disabled that applies to whole DVR system, not the specific channel. When restart or shutdown DVR system, the current turbo status won't be saved by DVR system</p>

4.1.1 Using Event Log Viewer

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



- DVR system supports HDD failure pre-detection mechanism called **HDD S.M.A.R.T.** function. Once when DVR system has detected the HDD failure possibility, an event log will be occurred and user can check it in Event Log Viewer window.
- The HDD S.M.A.R.T. function accurate is approximately about **60%**.
- The HDD warning event log will issue once a day.

No.	Time	Camera	Type	Event
1	2012/05/16 00:01:43	06	EVENT	Alarm Triggered (Motion Detected)
2	2012/05/16 00:01:43	07	EVENT	Alarm Triggered (Motion Detected)
3	2012/05/16 00:01:43	08	EVENT	Alarm Triggered (Motion Detected)
4	2012/05/16 00:01:43	09	EVENT	Alarm Triggered (Motion Detected)
5	2012/05/16 00:01:43	10	EVENT	Alarm Triggered (Motion Detected)
6	2012/05/16 00:01:43	11	EVENT	Alarm Triggered (Motion Detected)
7	2012/05/16 00:01:43	12	EVENT	Alarm Triggered (Motion Detected)
8	2012/05/16 00:01:43	13	EVENT	Alarm Triggered (Motion Detected)
9	2012/05/16 00:01:43	14	EVENT	Alarm Triggered (Motion Detected)
10	2012/05/16 00:01:43	15	EVENT	Alarm Triggered (Motion Detected)



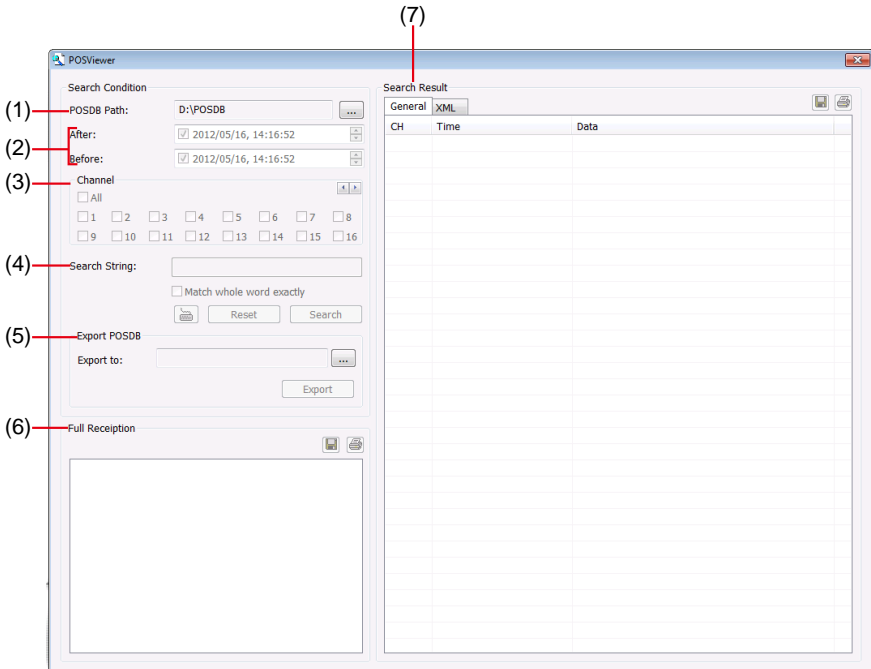
HDD S.M.A.R.T. warning messages' description are as following:







- **HDD warning (Low risk):** abnormal situations are occurred frequently but hard disk can recovery by itself.
- **HDD warning(High risk):** When HDD warning(Low risk) event has occurred too frequently, even though hard disk can recovery by itself; however hard disk recovery too frequently will effect performance of hard disk. Therefore, it is recommended to replace the hard disk.

[Note] HDD S.M.A.R.T. is an accumulation mechanism, therefore the HDD warning (High risk) event log will issue once every day until hard disk has been replaced.

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 event list which display on the screen can be saved as text file format. To save the event list, click **Save** button.
5. To view POS event log, click POSViewer bar to call out the POSViewer window (see also [Chapter 4.1.1.1](#)).
6. Click Counting Log Viewer to view object counting information (see also [Chapter 4.1.1.2](#)).
7. To view FaceFinder log, click Object Log Viewer (see also [Chapter 4.1.1.3](#)).

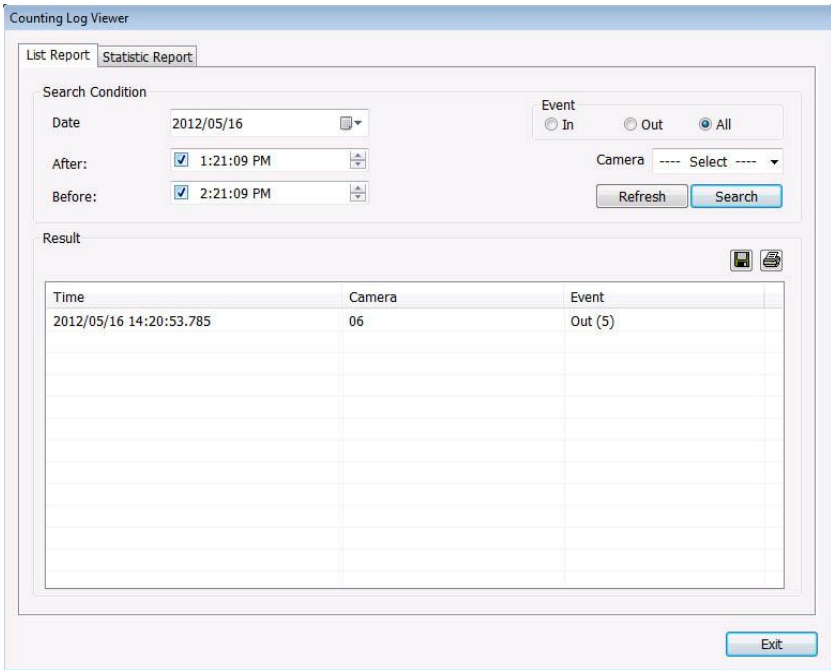
4.1.1.1 Using POSViewer





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) Export POSDB	It allows user to save the POS database to selected storage path in excel format. Click  to change the storage path. Click Export to save the POSDB to selected storage path.
(6) 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.
(7) Search Result	Display the POS event log of search result. Click  to save the search result. Click  to print out the search result.

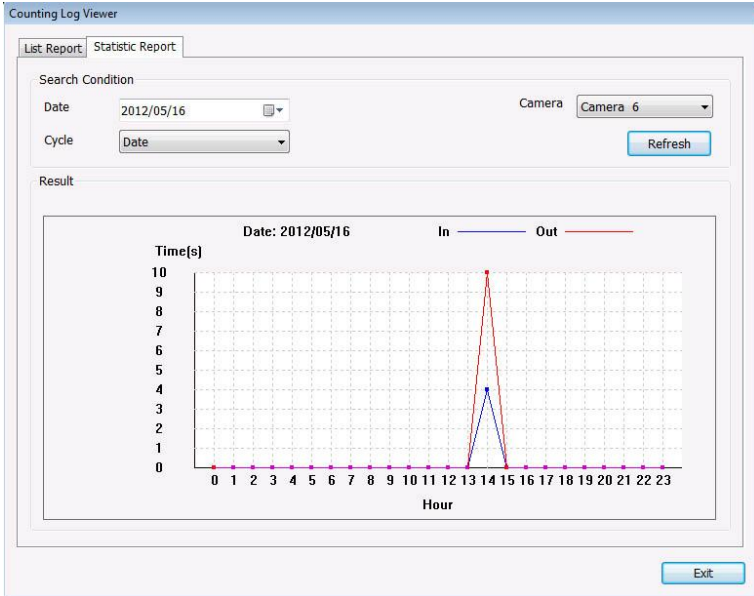
4.1.1.2 Using Counting Log Viewer

Click **Counting Log Viewer** button on Event Log Viewer window to search and view the list and statistic report of object counting. If the object counting function is not enabling, there will be no any data to view. To setup object counting, please refer to [Chapter 5.2.1](#).



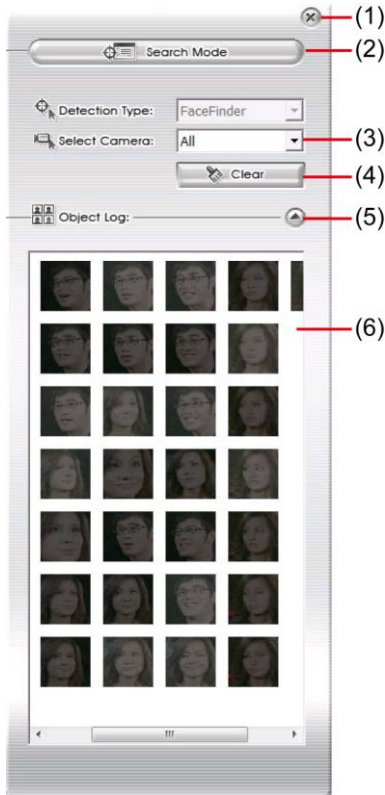
1. Select the **Date** and set a time period between **After** and **Before** for object counts searching.
2. Select the search **Event – In, Out or All**.
3. Select one **Camera** or **All** cameras to search.
4. Click **Search** to start searching.
5. The result will be list out in **Result** table.
6. To save the search result, click .
7. Click  to print out the object counts log list.
8. To view the analysis of object counts, click **Statistic Report** tab.

9. User can select the **Date**, **Camera**, and **Cycle** to view the report of object counts (In/Out).



4.1.1.3 Using the Object Viewer

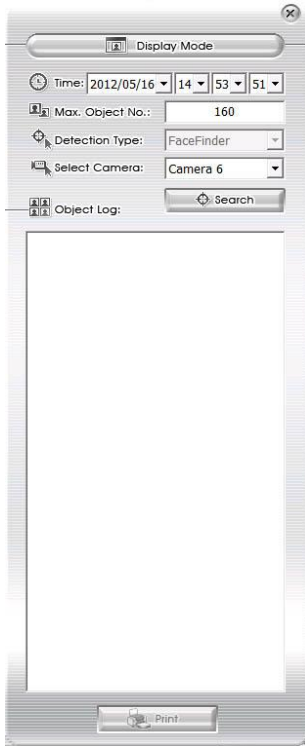
Click **Object Log Viewer** button on Event Log Viewer window to view and search FaceFinder log. If the FaceFinder function is not enabling, there will be no any data to search and view. To setup FaceFinder, please refer to [Chapter 5.2.2](#).



Name	Function
(1) Close	Click to close Object Log Viewer window.

Name	Function
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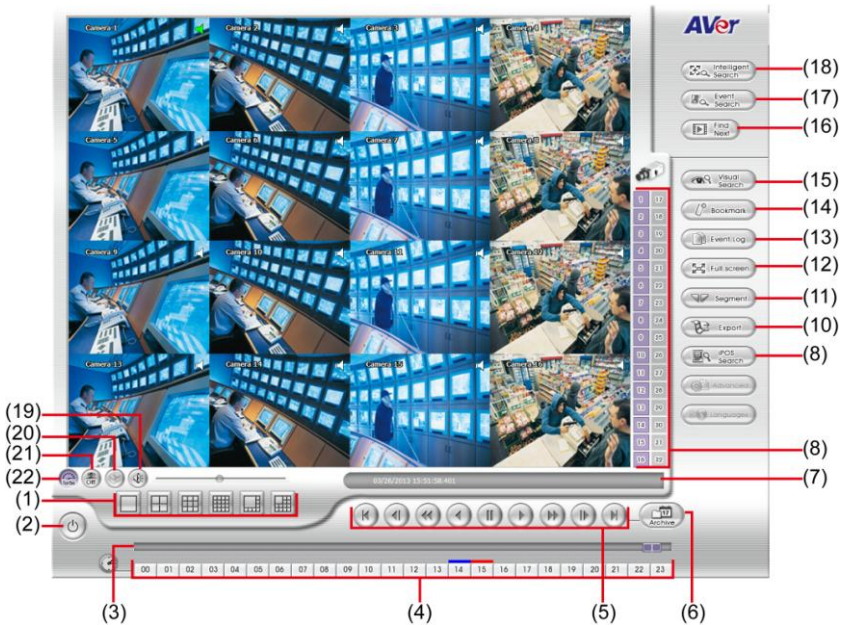
(2) Search Mode Switch to face object log search mode.
 In search mode UI, select the **Time** and **Camera** to search the object log. The result will display at **Object Log** window. Click **Print** button to print out the search result.



(3) Select Camera	Select the camera to view or select all to view all cameras.
(4) Clear	To clear all object log in Object Log list.
(5) Close up	Click to close up the Object Log List window.
(6) Object Log List	Display the face object logs. It can display 32 object logs and when the list is full, the first row of object log will be replaced.

4.2 Familiarizing the Buttons in Playback Mode

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



Name	Function
(1) Split Screen Mode	Select from 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.
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin-right: 10px;"> i </div> <ul style="list-style-type: none"> - If there are only 4 cameras enabled, 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. </div>	
(2) Exit	Close the application.

Name	Function
(3) Progress bar	<p>Show the progress of the file being played. You may move the bar to seek at any location of the track.</p> <p>When in single screen playback mode, the colors in progress bar have different means.</p> <ul style="list-style-type: none"> ■ Green color: a motion was detected and recorded ■ Blue color: is a general (always) recording file and no any event or motion happen during recording ■ Red color: the sensor was triggered while recording ■ Black color: no record file at the time period ■ Yellow color: the video loss happen while recording



The progress bar is designed and drawn based on key frame only.

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



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

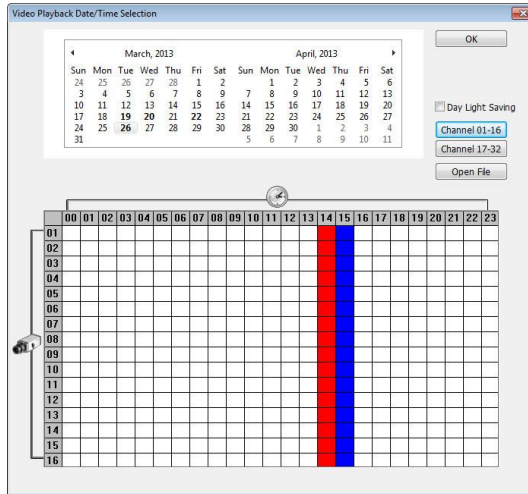
(5) Playback	From left to right order:
Control Buttons	<p>Begin: Move at the beginning of the recorded video file.</p> <p>Previous: Go back to the previous frame.</p> <p>Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x, 1/16x, or 1/32x.</p> <p>Rewind: Wind back the recorded video file.</p> <p>Pause: Briefly stop playing the recorded video file.</p> <p>Play: Play the recorded video file.</p> <p>Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x or 32x.</p> <p>Next: Go to the next frame.</p> <p>End: Go to the end of the recorded video file.</p>

Name**Function**

(6) Archive

Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.

- **OPEN FILE:** user can open the recorded file from other storage path.
- **Channel 01~ 16&Channel 17 ~ 32:** Switch to different channel group of playback calendar.
- **Day Light Saving:** the playback calendar will show the available video records during day light saving time period.



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.

(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.

Name	Function
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(9)iPOS Serach

To find iPOS event by keyword or period.

POSDB Path: where the iPOS data located.

Start Time: select the search start time and date

End Time: select the search end time and date

Select Camera: select the camera for iPOS events search

Keyword: enter a keyword to search iPOS event

- **Match whole words exactly:** the iPOS event must 100% match the keyword that user has entered.

The search result will display in Search Result windows. User can click specific iPOS event to view and the iPOS detail will display in Search Receipt.

To save the search result, click **Save** button. Click **Print** button to print the search result.

To save the selected iPOS search receipt, click **Save**. Click **Print** to print the selected iPOS event's detail.

The screenshot shows a software window titled "Search Condition" with a close button (X) in the top right corner. Below the title bar, there are several input fields and controls:


- POSDB Path:** A text box containing "E:\POSDB" and a folder icon on the right.
- Start Time:** A time selection control with dropdowns for "2012/05/17", "00", "00", and "00".
- End Time:** A time selection control with dropdowns for "2012/05/17", "23", "59", and "59".
- Select Camera:** A dropdown menu currently showing "---- Select ----".
- Keyword:** A text input field with a keyboard icon on the left.
- Match whole words exactly:** A checkbox that is currently unchecked.
- Search:** A button with a magnifying glass icon.

Below the search controls is a section titled "Search Result" containing a table with the following columns: "Camera", "No.", "Time", and "POS Data". The table is currently empty.


At the bottom of the "Search Result" section are two buttons: "Save" and "Print".

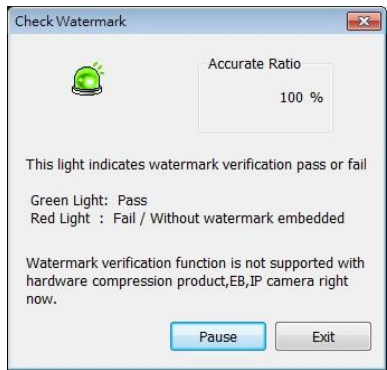
Below the search results is a section titled "Search Receipt" containing a table with the following columns: "No." and "POS Data". This table is also empty.


At the bottom of the "Search Receipt" section are two buttons: "Save" and "Print".


Name	Function
(10) Export	<p>Export includes Snapshot, Print, Output Video Clip, and Backup function.</p> <ul style="list-style-type: none"> ■ Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format. ■ Print: Print the screen shot. ■ Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 4.2.1). ■ Backup: Save the playback file to USB device or DVD-ROM disk (see also Chapter 5.6 Backup Setting).
(11) Segment	Keep a portion of the recorded video (see also Chapter 4.2.1).
(12) Full screen	<p>Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon on the screen.</p> 
(13) Event log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(14) Bookmark	Mark a reference point when previewing the recorded video file to which you may return for later reference. You may also set it to protect the file. (See also Chapter 4.3.2)

Name	Function
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 4.2.3).
(16) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(17) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (See also Chapter 4.2.4).
(18) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 4.2.5).
(19) Audio	Enable/disable audio sound.


(20) Watermark To verify the playback video has not been modified
 To verify the playback video doesn't been modified. Click  to check the video. Watermark verification window will show up as following:





 Watermark verification doesn't support the video that is recorded from MPEG IP camera.

(21) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.
(22) Turbo	To improve the smoothness of live video. Turbo button is disabled () in default. When turbo button is enabled or disabled that applies to whole DVR system, not the specific channel. When restart or shutdown DVR system, the current turbo status won't be saved by DVR system


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

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



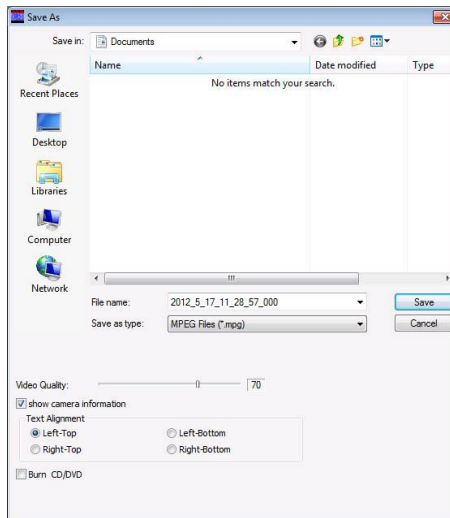
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** button () to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button () again.



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

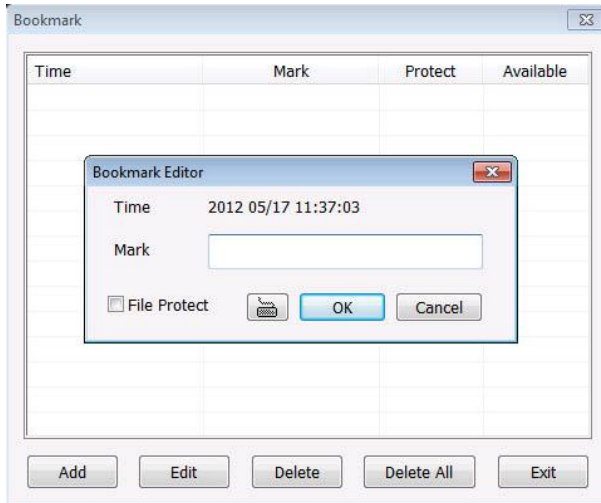


Right-click function is disabling for security issue.



4.2.2 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:



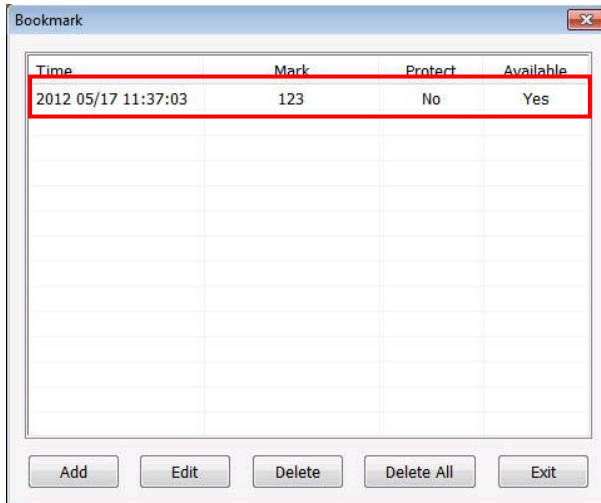
- **Add:** To include the new reference mark in the bookmark list. In Bookmark Editor window, user can assign a name for this mark. User also can select the **File protect** to prevent the bookmark file to be deleted.



When the bookmark is protected, the file won't be overwritten. The protect file can be deleted only when the **Delete the recorded data** is enable in the **System setting**.(also refer to [Chapter 5.1 System setting](#))

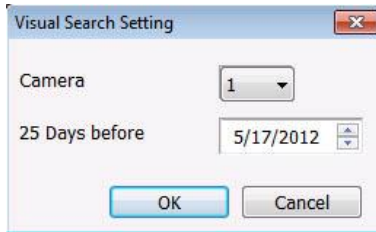
- **Edit:** To change the mark description or enable/disable file protection.
- **Delete:** To remove the selected reference mark in the list.
- **Delete All:** To remove all the reference marks in the list.
- **Exit:** To close Bookmark dialog box.


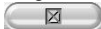
3. Select and click one in the bookmark list to preview the file.



4.2.3 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**.

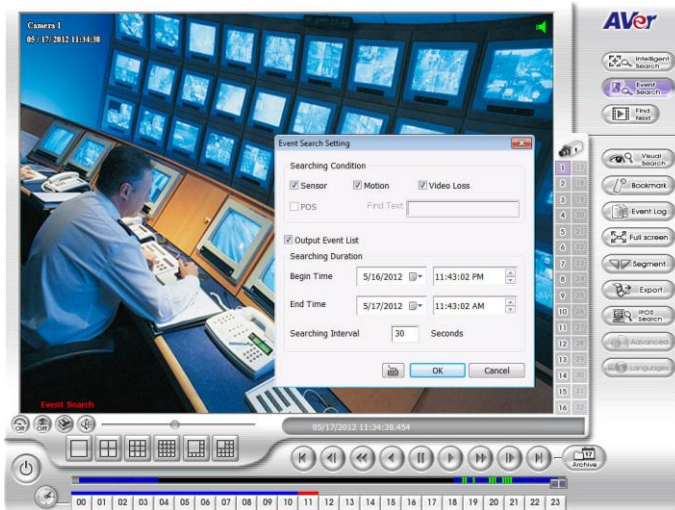



3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour, every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click . To view from the selected frame and close event search,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

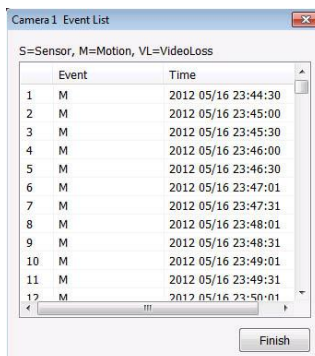


4.2.4 To Search Using the Event Search


1. Click on the video screen on where you want to search.



2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
3. In the Event Search Setting dialog box, check the type of condition you want to search. 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 **Find Next** () button.
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** and **End Time**. Set the **Searching Interval** time for in a period of time won't list out the same events. Then, click **OK** to start searching.
5. When the Event list appear, click and select the item you want to view.



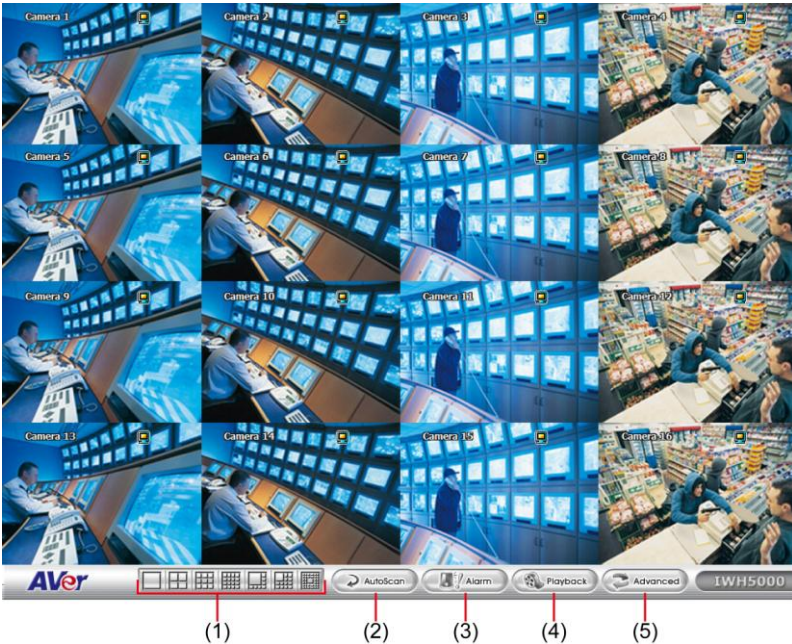
4.2.5 To Search Using the Intelligent Search

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



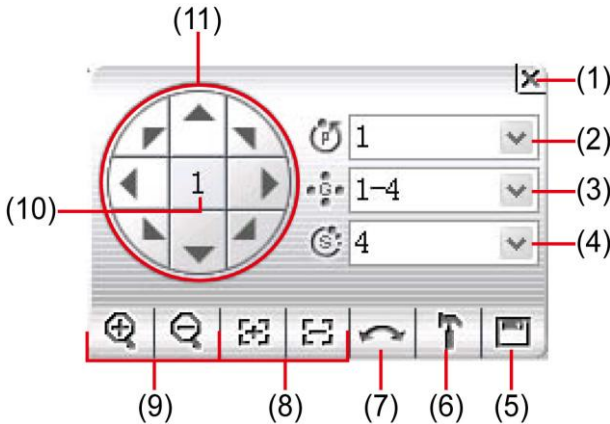
4.3 Familiarizing the Buttons in Compact Mode

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



Name	Function
(1) Split Screen Mode	Select from 6 kinds of split screen type to view all the camera, or one camera over the other or alongside on a single screen.
<p>i</p> <ul style="list-style-type: none"> - The 16CH DVR doesn't support 32-split screen mode. - If there are only 4 cameras enabled, you won't be able to switch to 9, 16, and 13 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) Auto Scan	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 Chapter 4.4)
(5) Advanced	Switch to Preview/Advanced mode.

4.4 Function Buttons in PTZ Camera Controller



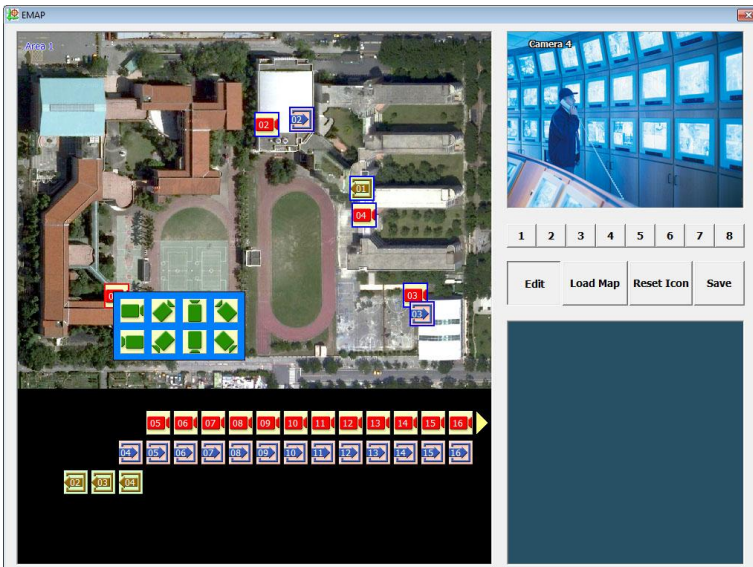
Name	Function
(1) Close	Exit PTZ camera controller.
(2) Camera preset position number	Move the PTZ camera to the preset point. When user select the preset point 95, a OSD panel will show out and user can operate PTZ camera through the OSD panel. But preset point 95 only support for Peloc-D , Peloc-C protocol.
(3) Group AutoPan	Select to automatically operate PTZ camera in group.
(4) Direction buttons' moving speed	Adjust the moving speed of the PTZ camera lens. This speed will apply to the (11) Direction buttons' moving speed only.
(5) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(6) Setup	Configure PTZ cameras (see Chapter 4.6).
(7) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number. User needs to select the (3) Group AutoPan , then, click (7)Auto Pan button.
(8) Zoom +/-	Zoom in and out the image.
(9) Focus +/-	Adjust the focus manually to produce clear image.
(10) Camera ID	Display the PTZ camera number that is being operated.
(11) Direction buttons	Move and position the focal point of the PTZ camera. The support of direction button depends on the PTZ camera.

4.5 Setting Up and Using the Emap

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

4.5.1 To Set Up the Emap

1. Click **Emap**.
2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.
3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
4. When the inserted map appears on the Emap screen, click **Edit**. You may now drag the camera, sensor, and relay icons to its place on the map. Icons on the map can be relocated anywhere.
5. To set the camera direction, right click camera icon can select the camera direction in 8 angles.
6. 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**.

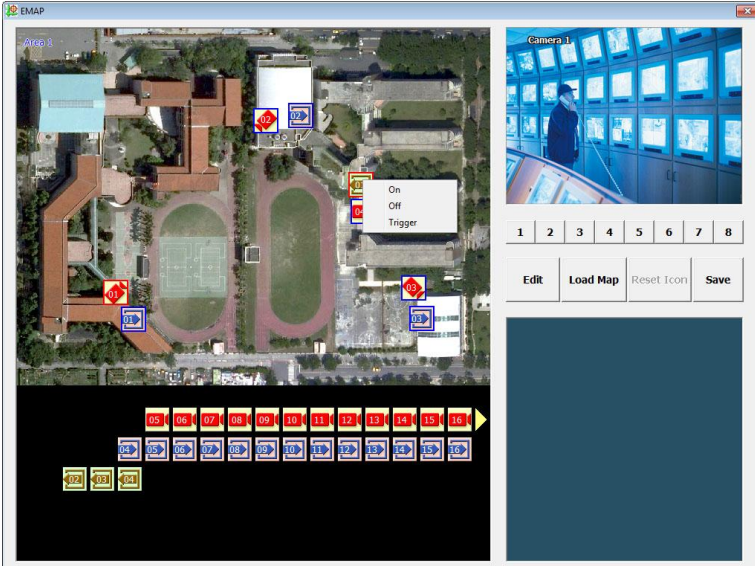


7. When you are done, click **Save** button to save the new setting. To close Emap screen, click **X**.

4.5.2 To Use the Emap

To use the Emap:

1. Click **Emap**.
2. In the Emap screen, click the camera icon to switch on the area where the camera is located on the map and to display the video at the upper right corner of the Emap screen. At the lower right corner of the Emap screen, it lists all the warning message.

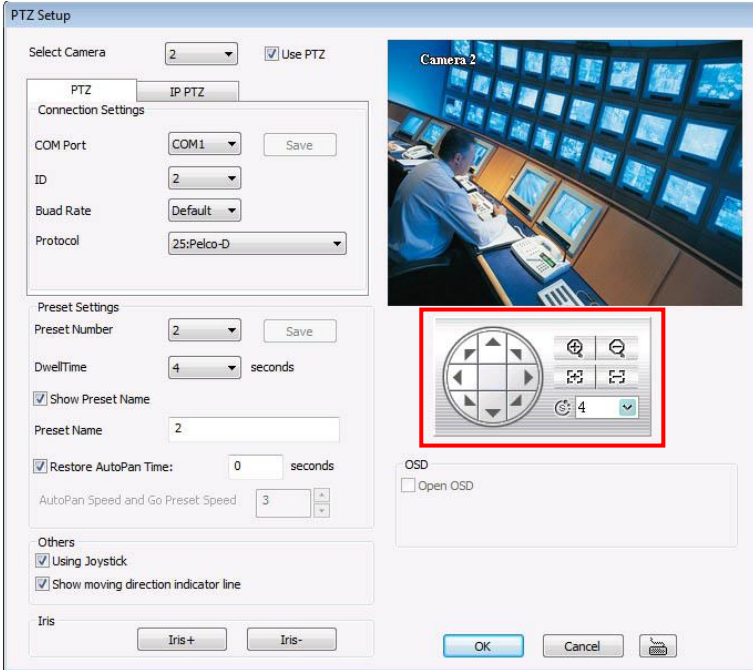


3. To control relay, right-click relay icon and select status (on, off, or trigger) of relay.
4. To view different Emap, click Emap number button (1 ~ 8).
5. Click **X** to close Emap screen.

4.6 To Setup the PTZ/IP PTZ Camera

4.6.1 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 **COMPort** where the PTZ camera is connected, PTZ **ID** number, **BaudRate**, and **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.



- The numbers of preset position are depended on the IP camera protocol has supported.
- Only Pelco-P and Pelco-D protocol can support over 16 PTZ preset points.
- Only **Canon** has supported "**Auto Pan Speed**" function.

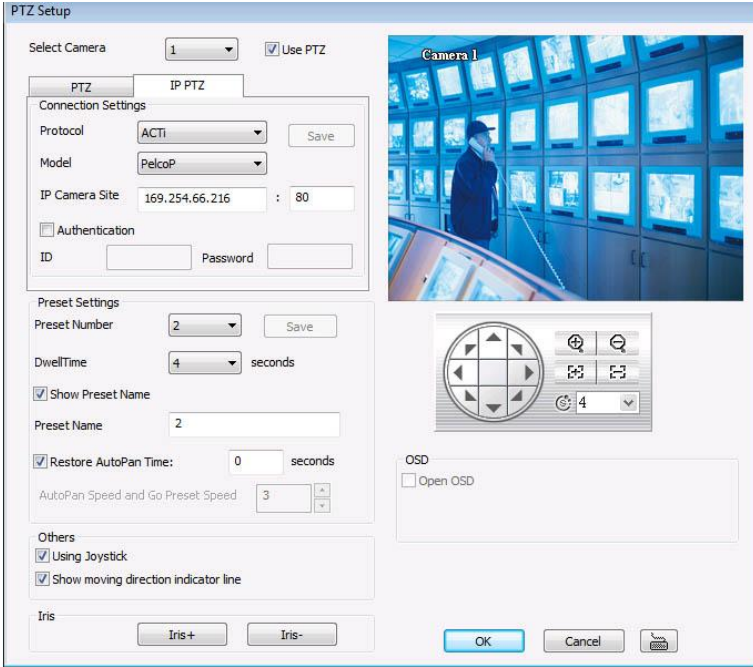
6. Repeat step 4 & 5, if you want to save another PTZ camera position.
7. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved. Mark the check box and set the time period in second.
8. **Using Joystick:** Mark to enable for joystick device.
9. **Show moving direction indicator line:** enable/disable to show the direction line when uses mouse drag on screen in PTZ mode.
10. **Iris:** To adjust the iris of PTZ camera. It may not support that depends on brand of the PTZ camera.
11. **OSD:** To allow call out PTZ camera factory's OSD setup menu. The OSD setup menu may vary that depends on the brand of PTZ camera.
12. When is done, click **OK** to save the setting or Click **Cancel**, to leave without saving the new setting.
13. When PTZ camera is enabling, user can control PTZ camera by using the PTZ control panel and on screen PTZ control bar.
14. Select the PTZ camera channel and click **PTZ** button on preview UI to call out PTZ control panel. PTZ control panel function refers to [Chapter 4.4](#).



- User can move the on screen PTZ controller to any position of screen
- The on screen PTZ controller only display on a channel screen at a time.

4.6.2 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** and **Model** of PTZ camera that user wants to connect and enter the IP or URL of IP camera in **IP Camera Site** column. Mark the **Authentication** box if **ID** and **Password** is required when connecting to IP PTZ camera. And then, click **Save** to keep the settings.
5. In the **Preset Setting** section, use the PTZ control panel and adjust the position of the PTZ camera and select the preset number to assign a number for the PTZ camera current position.
6. 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 5 & 6, if you want to save another IP PTZ camera position.



- The numbers of preset position are depended on the IP camera protocol has supported.
- Only Pelco-P and Pelco-D protocol can support over 16 PTZ preset points.
- Only **Canon** has supported "**Auto Pan Speed**" function.

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. **Using Joystick:** Enable/disable Using Joystick such as USB joystick device.
10. **Show moving direction indicator line:** enable/disable to show the direction line when uses mouse drag on screen in PTZ mode.
11. **Iris:** To adjust the iris of IP PTZ camera. It may not support that depends on brand of the PTZ camera.
12. **OSD:** To allow call out IP PTZ camera factory's OSD setup menu. The OSD setup menu may vary that depends on the brand of IP PTZ camera.
13. When is done, click **OK** to save the setting or Click **Cancel**, to leave without saving the new setting.
14. When PTZ camera is enabling, user can control PTZ camera by using the PTZ control panel and on screen PTZ control bar.
15. Select the PTZ camera channel and click **PTZ** button on preview UI to call out PTZ control panel. PTZ control panel function refers to [Chapter 4.4](#).



- User can move the on screen PTZ controller to any position of screen
- The on screen PTZ controller only display on a channel screen at a time.

Chapter 5 Customizing the DVR System

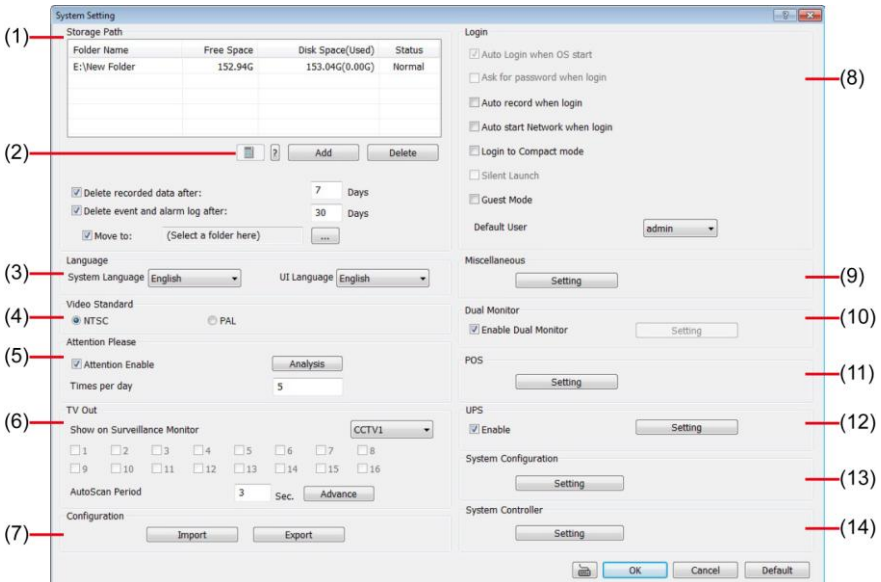
In the Preview/Advanced screen mode, click  button to customize your DVR. When the DVR configuration setup selection appears, select and click the buttons you want to change the setting.



User can re-do the Setup Wizard by clicking Setup Wizard bar.

5.1 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(see also [Map](#)

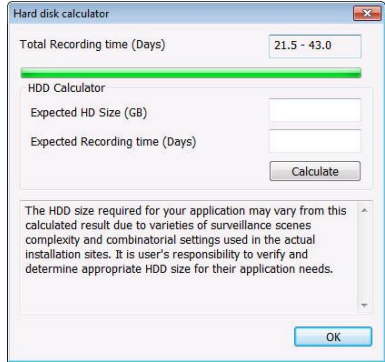
[Network Drive](#) in [\(13\)System Configuration](#).

To insert another storage path, click **Add**. To remove the selected path, click **Delete**. If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the numbers of days in **Days** text box. If you want the system to automatically erase the event and alarm log after a certain days, enable the **Delete event and alarm log after** check box and enter the numbers of days in **Days** text box. To change logs save direction, enable **Move to** and select the new save direction.

(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, therefore, starting record before use Hard disk calculator function.



(3)Language

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

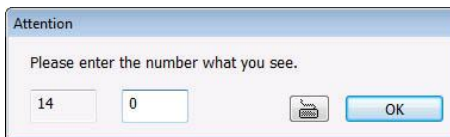
(4) Video Standard

Change and select the proper video system according to your camera video system. If the video system setting is wrong, the video would appear abnormal.

(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.



The DVR system supports both analog and IP camera channel on TV output.

- **Advance:** Select the video card channel and camera that user wants to display on TV. In Advance mode, user has two types of display selection – **Autoscan** and **Fixed layout**.

☉ Autoscan

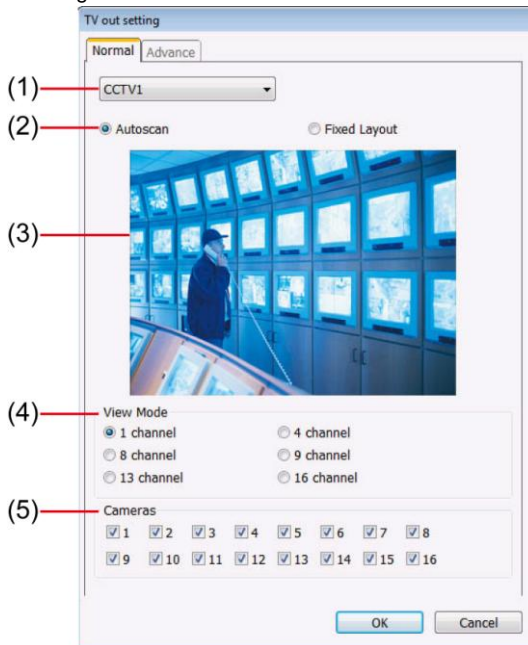
(1) The video source.

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

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

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

(5) **Cameras:** User can select the cameras that user wants to display on the screen. Only those selected cameras would be displayed on the screen. Also, the camera will be displayed by the selecting order.



⊙ Fixed Layout

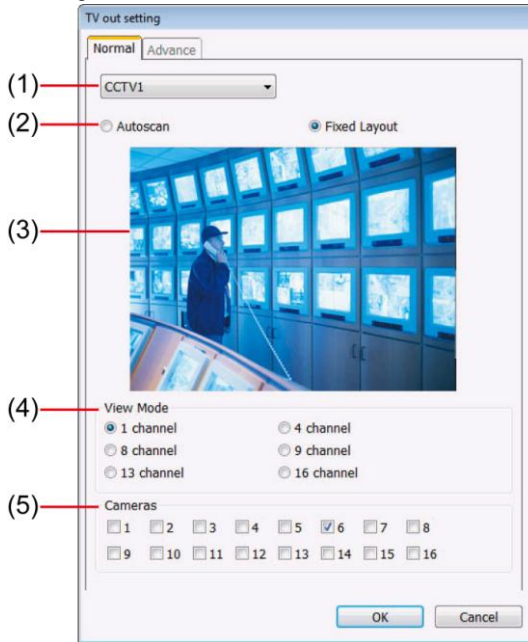
(1) The video source.

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

(3) **Preview screen**: the selected camera video will preview in here.

(4) **View 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**(see also Chapter 5.1.2).

(8) 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 system is executed.

- Auto start Network when login

Automatically enable DVR network connection when login into DVR program.

- Login to compact mode

Switch to compact mode directly when the DVR system is executed.

- Guest Mode

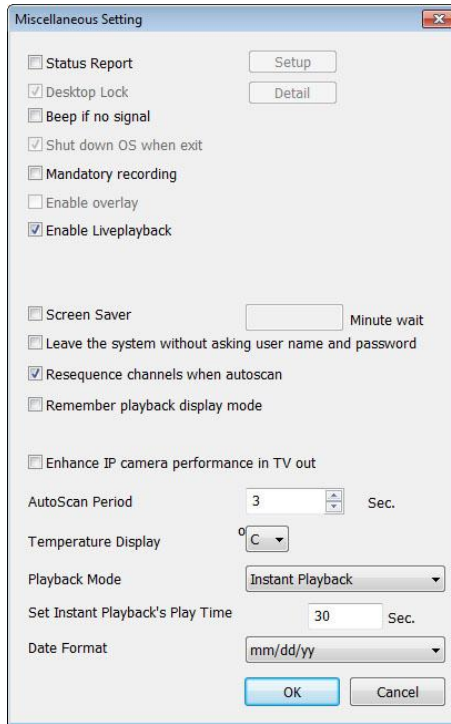
Automatically log in Guest mode when the DVR is executed. In guest mode, the functions are limited to preview and playback only.

- **Default user**

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

(9) 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 Record**

Always record video when software is running.

- **Enable Liveplayback**

To allow instantly live playback while recording in preview mode (see also [\(19\)Live playback](#) in [Chapter 4.1](#)).

- **Screen Saver**

Set a period time to enter screen saver mode when system idle.

- **Leave the system without asking user name and password**

Don't need to enter password when close/exit DVR program.

- **Resequence channels when autoscan**

The DVR system will re-arrange the channels order if some of channel is disable when auto scan is enabled. For example, CH 1 and 3 is disable, the channel will display in order of CH2,4,5,6,7~16. The CH1 and 3 won't be shown on screen when auto scan is enabled.

- **Remember playback display mode**

To memorize the last playback status. The DVR system will memorize the playback status from last time that user has selected or setup for next time playback.

- **Enhance IP camera performance in TV out**

Mark to improve the IP camera video preview smoother on TV output.

- **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.

- **Temperature Display**

Select the format of temperature -- °C or °F

- **Playback Mode**

Select the mode of playback the video.

- ✓ **Select date and time:** Select the date and time which user wants to playback.
- ✓ **Play the last file:** Automatically playback the video from the last hour
- ✓ **Instant Playback:** Automatically playback the video which has just recorded. To set the instant playback time period, fill in the time in second at **Set Instant Playback's Play Time** column.

- **Date Format**

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

(10) Dual Monitor

Mark to enable the Playback UI and Emap UI to display on 2nd monitor (monitor 2). In default, DVR system only display on one monitor (monitor 1) but the dual output is available.



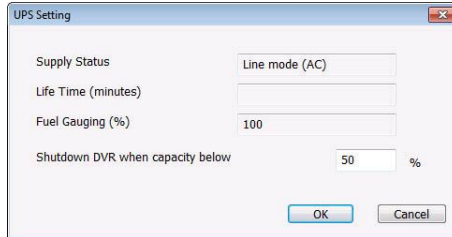
To disable the dual monitor function when only has connected one monitor. Otherwise, the Playback UI won't be able to display on main monitor screen (monitor 1).

(11) POS

Set from which camera screen to display the data from the POS equipment. Click **Setting**, to set the POS Console Setting. (see also [Chapter 5.1.1](#))

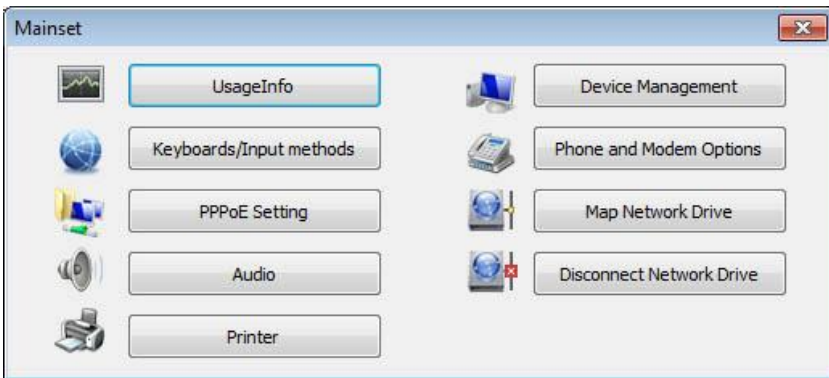
(12) UPS (Uninterruptible Power Supply)

Protect the system from damaging, such as power surges or brownouts. This automatically gives time to close the DVR system 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.



(13) System Configuration

In System Configuration section, user can setup keyboard language, printer, PPPoE setting, Audio, Phone and Modem, Map/Disconnect network drive, and view use information of CPU, Network, Memory, Camera, and HDD S.M.A.R.T.

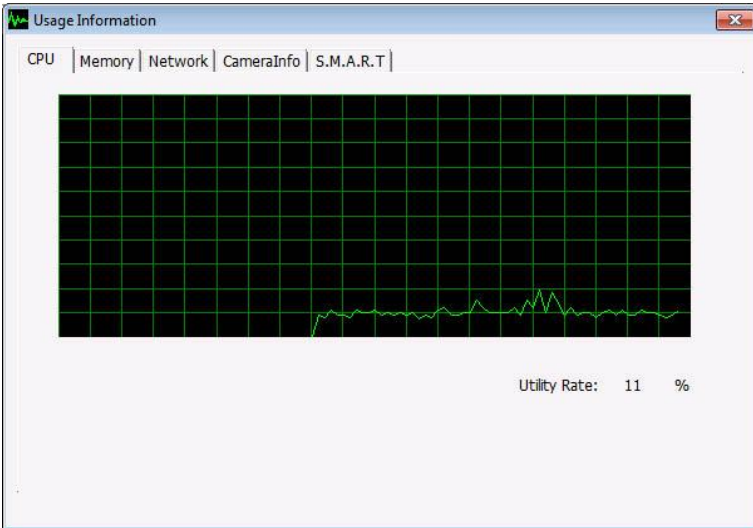


■ Usageinfo

To view usage of the system CPU, memory, and network.

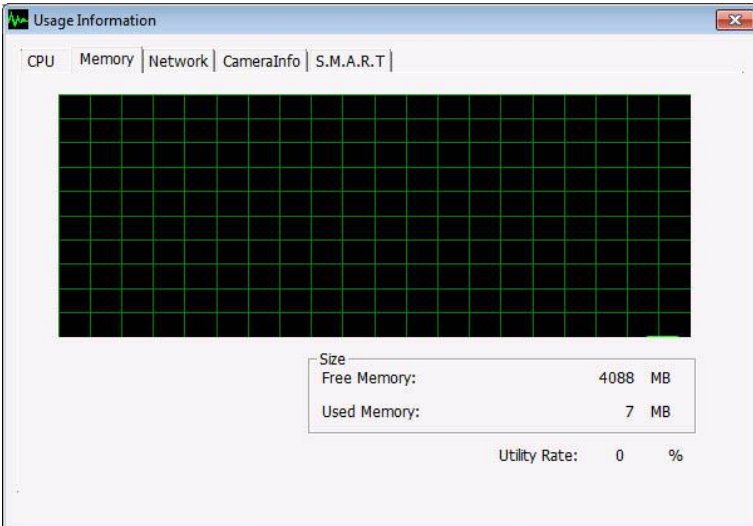
CPU

Displays DVR system's CPU usage.



Memory

Displays DVR system's memory usage.



Network

Displays DVR system's network usage.

Usage Information

CPU | Memory | Network | CameraInfo | S.M.A.R.T |

LAN1

Click drop-down list to select LAN2 and view LAN2 usage information.

Bandwidth
Connected Speed: 100 Mbps
Usaged Speed: 1.0397 Mbps
Connected Status: Connected
Utility Rate: 1.039 %

CameraInfo

Displays DVR system's cameras information – Camera name, ftp in Live and Recording, and current status. In Status, **a** is analog camera channel, **IPCam** is IP camera channel, **w** is remote DVR camera channel.

Usage Information

CPU | Memory | Network | CameraInfo | S.M.A.R.T |

ID	Name	fps(Live)	bit-rate(Live)	bit-rate(record)	Status
Total		fps = 406	246.91 k/s	0.00 k/s	a:13 / w:0 / IPcam:1
01	Camera 1	fps = 16	246.91 k/s	0.00 k/s	connection success
02	Camera 2	fps = 30	N/A	0.00 k/s	analog
03	Camera 3	fps = 30	N/A	0.00 k/s	analog
04	Camera 4	fps = 30	N/A	0.00 k/s	analog
05	Camera 5	fps = 30	N/A	0.00 k/s	analog
06	Camera 6	fps = 30	N/A	0.00 k/s	analog
07	Camera 7	fps = 30	N/A	0.00 k/s	analog
08	Camera 8	fps = 30	N/A	0.00 k/s	analog
09	Camera 9	fps = 30	N/A	0.00 k/s	analog
10	Camera 10	fps = 30	N/A	0.00 k/s	analog
11	Camera 11	fps = 30	N/A	0.00 k/s	analog
12	Camera 12	fps = 0	0 k/s	0.00 k/s	Video Loss
13	Camera 13	fps = 0	0 k/s	0.00 k/s	Video Loss
14	Camera 14	fps = 30	N/A	0.00 k/s	analog

S.M.A.R.T

Displays DVR system's hard disk information. User can view information of each hard disk or hard disk portion on DVR system.

Usage Information

CPU | Memory | Network | CameraInfo | S.M.A.R.T.

ID	Name	Type	Size	Status
0	8GB SATA Flash Drive ATA Device	(System)	7.460 GB	Good
1	ST3000DM001-9YN166 ATA Device		2.728 TB	Low risk
2	ST3500630SV ATA Device	(Record)	465.758 GB	Good
3	WDC WD5000AAKS-00V1A0 ATA Device		465.758 GB	Good
4	WDC WD2001FASS-00U0B0 ATA Device		1.819 TB	Low risk
5	JetFlash Transcend 16GB USB Device		14.914 GB	Not s...

1.Good(Green) : Normal
2.Low risk(yellow) : Abnormal situations are occurred frequently but hard disk can recovery by itself.
3.High risk(red) : Several abnormal events of hard disk are detected by system. It is strongly recommended to replace the hard disk.
4.Not support(white) : Not support

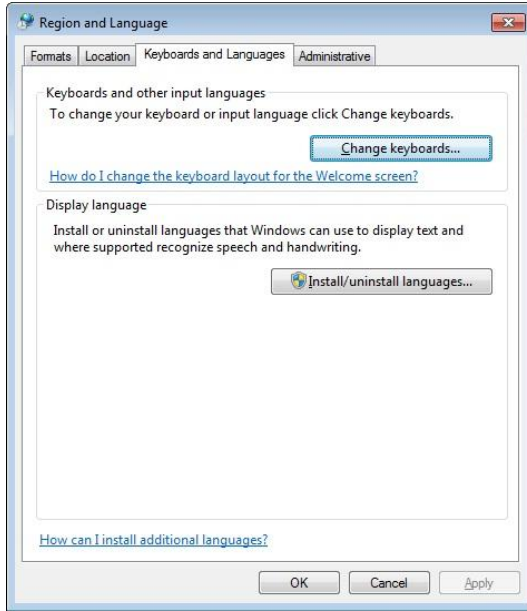
Description of Status - Good, Low risk, High risk, Not support.

Smart Info

ID	Name	Value	Worst	Data	Threshold
1	Raw Read Error Rate	117	99	26392	6
3	Spin Up Time	95	95	0	0
4	Start/Stop Count	100	100	303	20
5	Reallocated Sectors Count	100	100	0	36
7	Seek Error Rate	78	60	5933	30
9	Power-On Hours	96	96	3673	0
10	Spin Retry Count	100	100	0	97
12	Device Power Cycle Count	100	37	303	20
187	Uncorrectable Error Count	100	100	0	0
189	Unknown attribute	40	40	60	0
190	Airflow Temperature/Temp...	55	49	45	45
194	Temperature	45	51	45	0
195	Hardware ECC recovered	47	41	26392	0
197	Current Pending Sector Co...	100	100	0	0
198	Uncorrectable Sector Count	100	100	0	0
199	UltraDMA CRC Error Count	200	200	2	0

■ Keyboards/Input methods

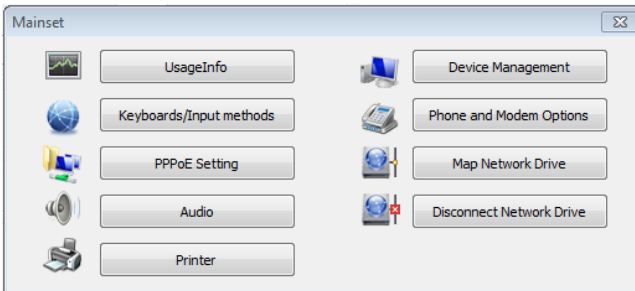
Select the keyboard or input language.



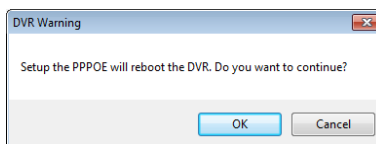
■ PPPoE Setting

To configure the LAN setting of DVR system.

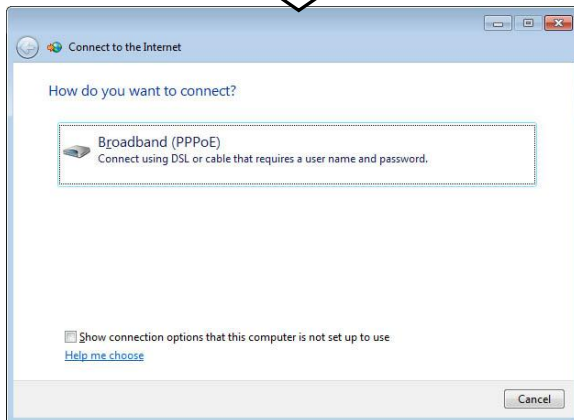
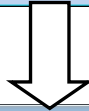
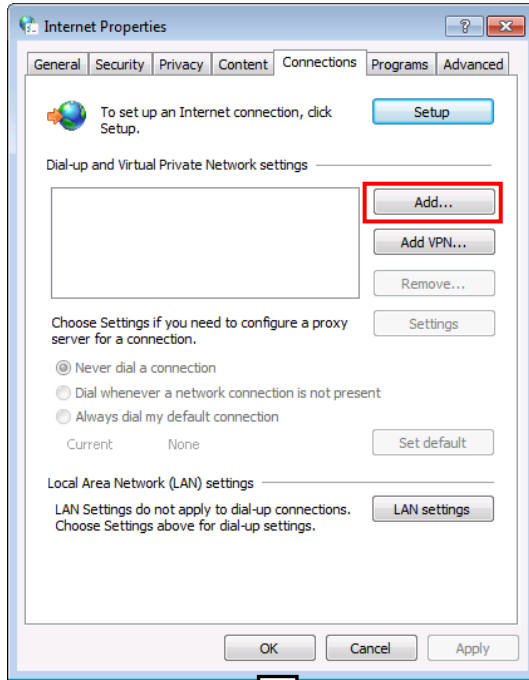
1. Click **PPPoE Setting**.



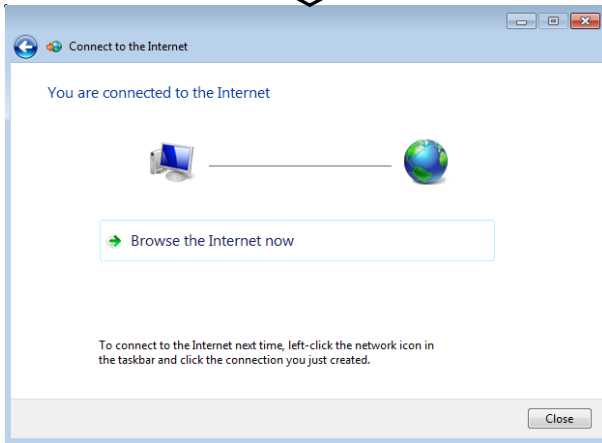
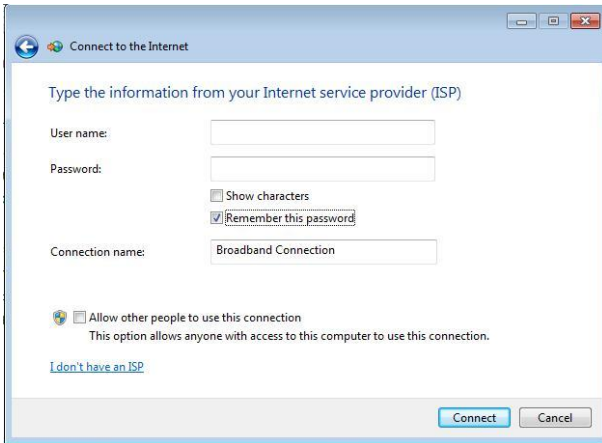
2. Then, the DVR system will require rebooting the DVR system for PPPoE setup. Click **OK** to reboot the DVR system.



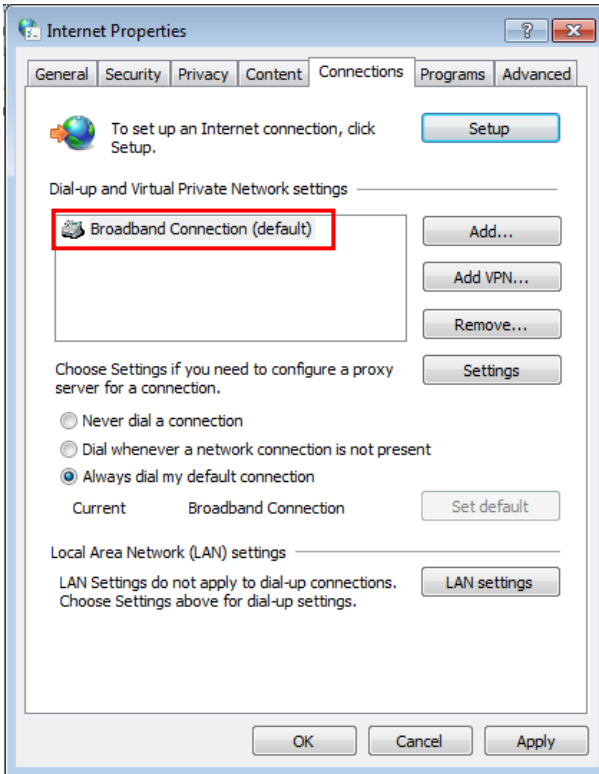
3. After DVR system reboot, Click **Setup** >> **System** >> **System Configuration** >> **PPPoE** >> **Add** button >> **Broadband(PPPoE)**



4. Enter the PPPoE's **User name** and **Password**. Mark **Remember this password** and keep **Connection name** as default -- Broadband Connection. Then, Click **Connect** to make a connection



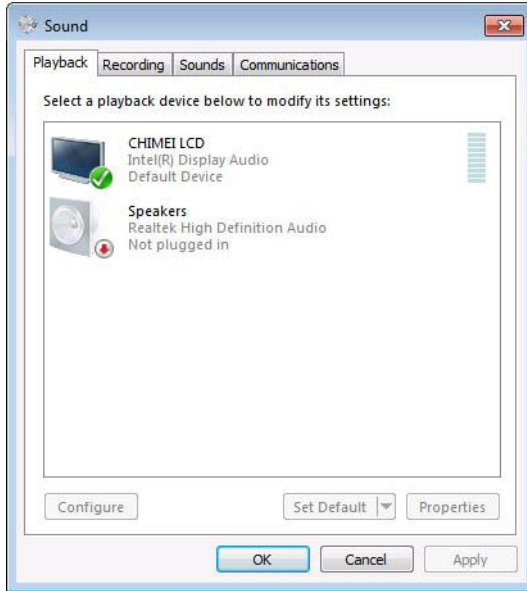
5. After PPPoE connect successful, click **Close** button.
6. User will see the name of PPPoE connection that user has setup list in *Dial-up and Virtual Private Network settings*.
7. Then, click **OK** and reboot the DVR system.



8. If have any configuration problem, please advised the network administrator for suggestion.

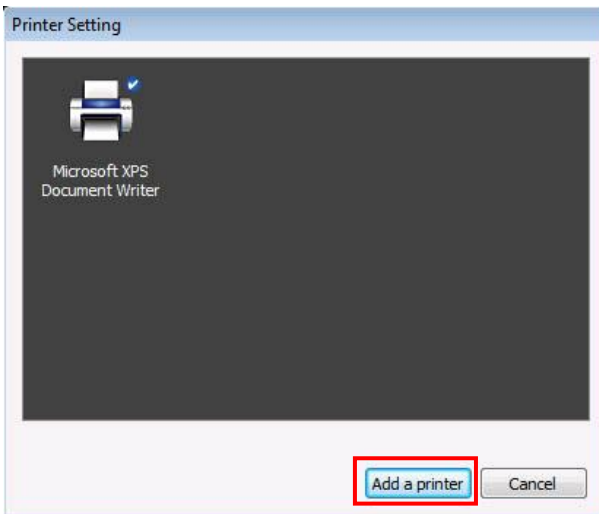
■ Sounds Setting

Adjust audio volume of system.



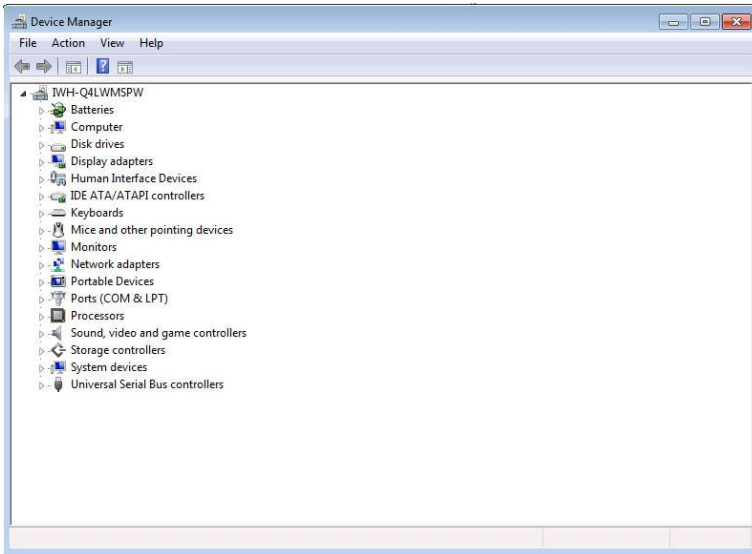
■ Printer

Click **Add Printer** and following the wizard to install a printer.



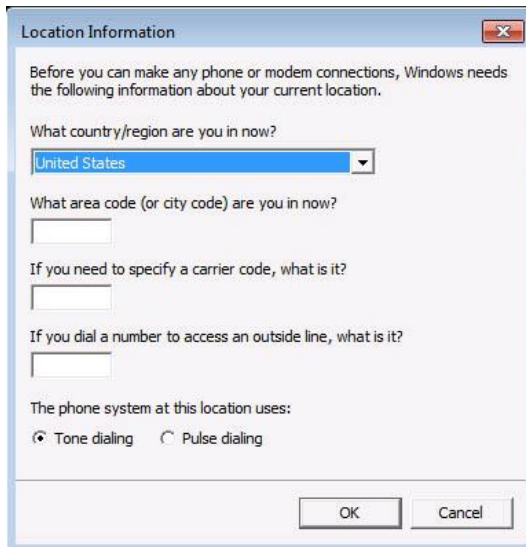
■ Device Management

To manage the DVR system devices.



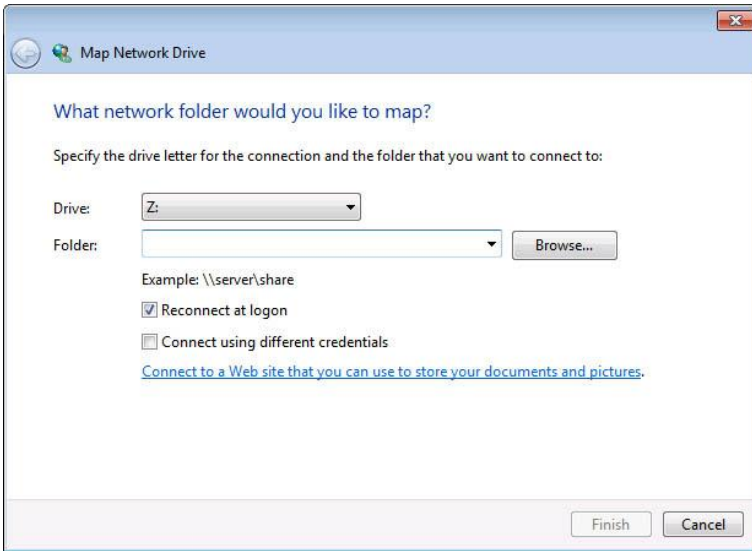
■ Phone and Modem options

To setup the modem dial-up settings.



■ Map Network Drive

To add network storage, the Internet storage drive/folder must be mapped as Network Driver in DVR server. Follow the below steps to map the network drive.



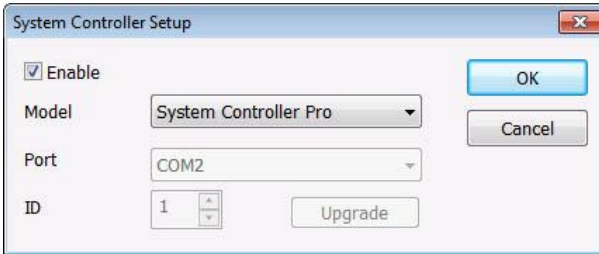
1. Click **Map Network Drive** button. In the **Map Network Drive** windows, select the **Drive** and fill in the **IP address** and **file folder** of file server or NAS on your network in **Folder**.
2. And then, click **Finish** to make the connection.
3. After connection successful, user should see the network drive on the **Storage Path**.

■ Disconnect Network Drive

To disconnect the mapping network drive, click **Disconnect Network Drive**.

(14) System Controller Setup

To configure the parameters that is for communicating with the System Controller (an optional accessory). Also please refer to user manual of the System Controller. How to operate the System Controller, please refer to the *user's manual* of the System Controller.



- **Enable** – Mark the check box to enable the System Controller function.
- **Upgrade** – To update the firmware of the System Controller.
- **Model** – Select model of the System Controller. If System Controller is connecting to DVR through the USB port, please select the **System Controller Pro** mode. If System Controller is connecting to DVR through the RS485 port, please select the **System Controller Pro 485** model.

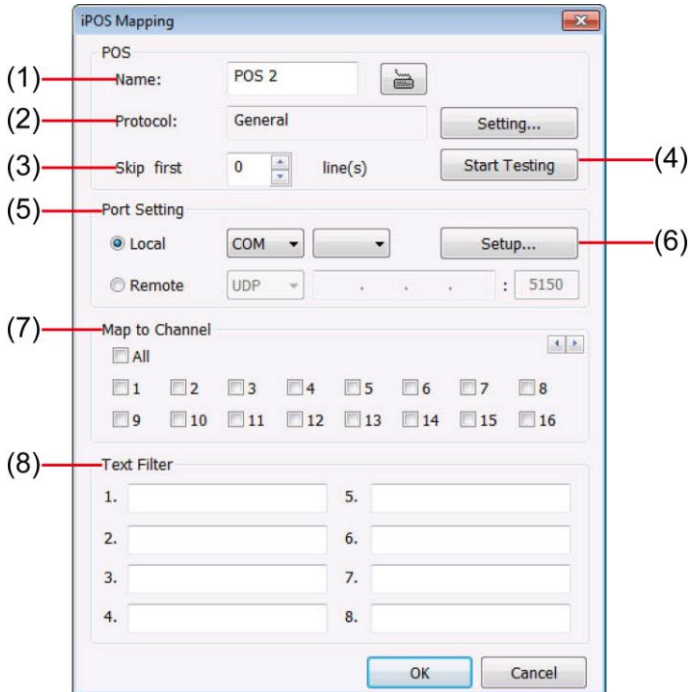


- **Port** – Select the com port that is connected with the System Controller Pro.



Only when System Controller is using RS485 port connect to DVR server, the port needs to be selected.

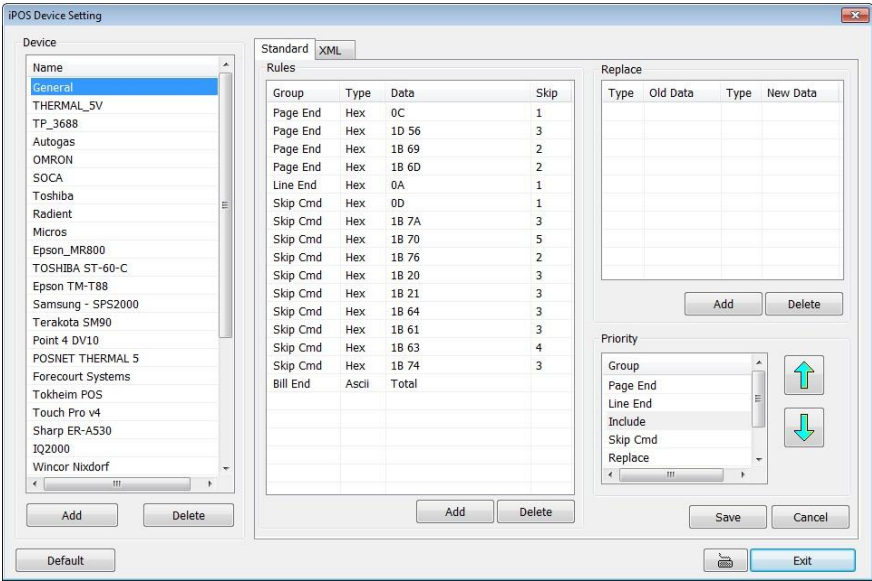
- **ID** – Set an ID for DVR server (0~99). This ID is a key for the System Controller to control the DVR server when there are more than one DVR servers are connecting with the System Controller through the RS485 port



- (1) **Name:** Enter a name to identify the POS.
- (2) **Protocol:** To select the protocol, click **Setting** button (see [Setup POS Device](#))
- (3) **Skip first:** Set the number of lines you want to be removed
- (4) **Start Testing:** Click to test POS setting. You will see a test result on the right side of POS Mapping window.
- (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) **Setup...:** Set the COM Properties. If you are not sure, please contact your POS service provider.
- (7) **Map to Channel:** Select to which camera number to display the transaction text.
- (8) **Text Filter:** Enter the word you want to be removed.

Setup POS Device

There are some default POS devices. If user uses the POS device beside defaults, user can add new POS device and rules. The POS device can be added up to 50 include defaults.



■ Setup Standard POS Device

✧ Add New POS Device

1. Click **Add**
2. Enter the POS device name in **Name** column
3. Select the **Type** as **Standard**
4. Click **OK** to save
5. To modify existing device, double click it.
6. Click **Default** can be reset back to original setting.



✧ Add Rules

1. Select the POS device form device list
2. Click **Add** in Rules section
3. In Rule Setting windows, select **Group**. Each group has a limited number of times ; please refer to the “**Maximum**” and “**Remainder**” information in Rule Setting windows. The Line End, Page End, and Bill End group only can be set once.
 - **Line End**: set a rule to separate each line.
 - **Page End**: set a rule to switch page.
 - **Skip Cmd**: set a rule to discard a string or character.
 - **Include**: set a rule for a line with a string or character to be displayed.
 - **Exclude**: set a rule for a line with a string or character to be concealed.
 - **Bill End**: set a rule to divide each transaction.
4. Select **Type** – Ascii or XML
5. Enter the string or character as the rule in **Data** column. The maximum length is 31 characters.
6. Click **OK**
7. Click **Save**. The configuration will be lost without saving.
8. To modify existing replace rules, double click it.



Rules Setting

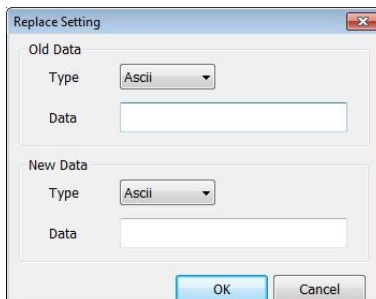
Group	Include	Remainder	8
		Maximum	8
Type	Ascii	Skip	1
Data			

OK Cancel

✧ Character Replacement

Set a rule to replace a character or word in POS data. The maximum replacement is 8.

1. Select a POS device from device list
2. Click **Add** in Replace section
3. **Old Data**: select the **Type**(Ascii or Hex) and enter word or character that wants to be replaced
4. **New Data**: select the **Type** (Ascii or Hex) and enter the word or character that will replace it in Old Data.
5. Click **OK**
6. Click **Save**. The configuration will be lost without saving.
7. To modify existing replace rules, double click it.



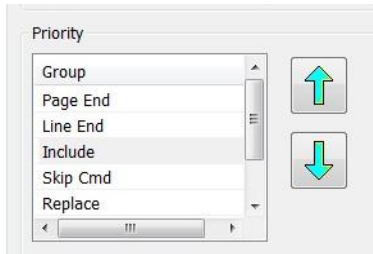
Replace Setting

Old Data		
Type	Ascii	
Data		
New Data		
Type	Ascii	
Data		

OK Cancel

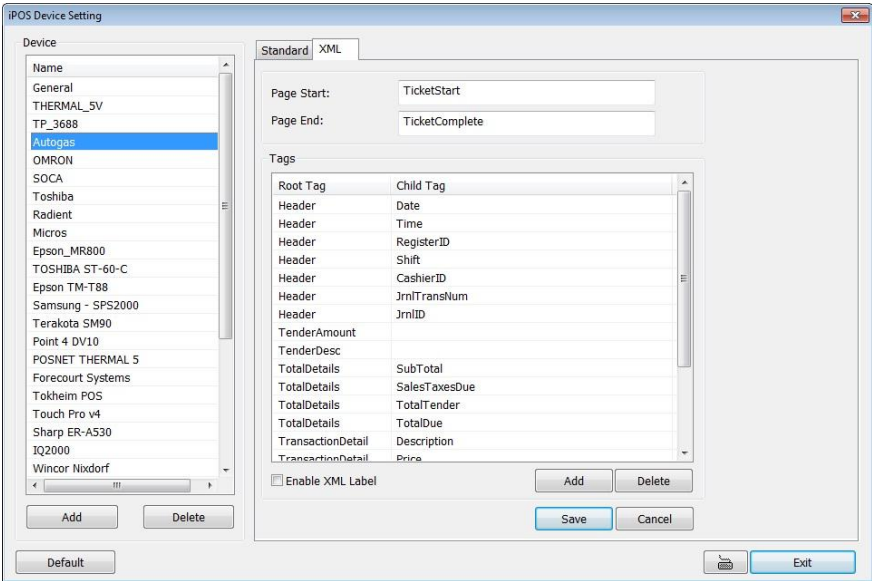
✧ **Adjust Rule Priority**

User can set the priority of rule groups. Select the group and click up/down arrow button to move the priority level. The upper position, the priority is higher.



Setup XML POS Device

XML can only work with the POS data is transmitting in XML format.

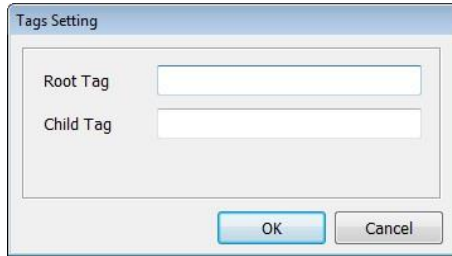


- ✓ **Device:** select or add a new device. Only device that supports XML can be configured in here. Click **Add** to add a device. Enter device name and select Type as **XML**. The POS device can be added up to 50 include defaults.



- ✓ **Page Start:** Beginning of data for transaction
- ✓ **Page End:** End of data for transaction

- ✓ **Tag:** select a root tag and sub tag as a range for data transaction to DVR server. Click **Add** to set a tag. Click **Save**. The configuration will be lost without saving.



Please refer to the following example for more detail.

<TicketStart> → **Page Start**

<Header> → **Root tag**

```

<MessageVersion>1.0</MessageVersion>
<Date>20060317</Date>
<Time>164216</Time>
<RegisterID>3</RegisterID>
<Shift>4</Shift>
<CashierID>000000009</CashierID>
<JrnlTransNum>3</JrnlTransNum>
<JrnlID>0</JrnlID>

```

} → **Sub tag**

</Header>

</TicketStart>

<Item>

<SaleTotals>

<Item>

<SaleTotals>

<Item>

<SaleTotals>

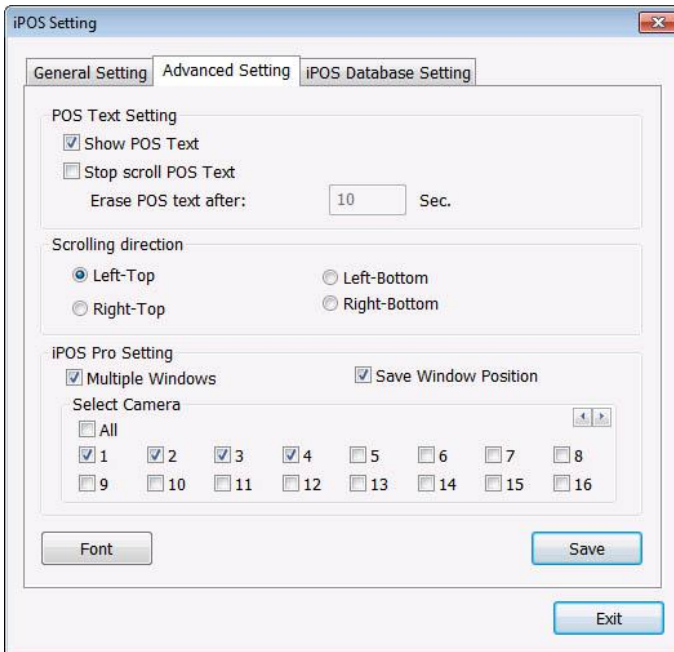
<TenderEvent>

<TicketComplete> → **Page End**

5.1.1.2 Advanced Setting

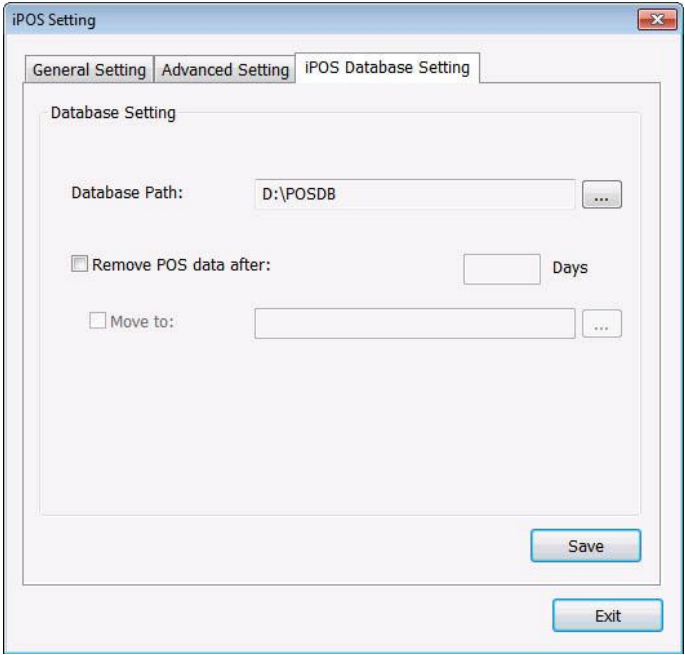
To setup POS text display position, text font and color.

1. In the System Setting dialog box, POS section, click **Setting >> Advanced Setting**
2. Mark **Show POS Text** to allow POS data to be display on surveillance screen.
3. If user doesn't want POS data to be scroll up, mark **Stop scroll POS Text** and enter the time to delete POS text at **Erase POS text after** column.
4. Select the POS data display position on surveillance screen – Left-Top, Left-Bottom, Right-Top, or Right-Bottom.
5. Mark **Multiple Windows** to allow more than one iPOS live data window (see also [\(13\)iPOS Live](#) in Preview mode) display on the preview screen mode.
6. Mark **Save Window Position** that iPOS live data window position(see also [\(13\)iPOS Live](#) in Preview mode) will be saved as next time call out position when close
7. Select the **Cameras** that user wants iPOS live data to be display on Preview mode when the iPOS Live function has been enabled. To select all cameras, mark **All**.
8. To change the POS data font and color, click **Font**.
9. When it is done, click **Save** to complete the configuration.




5.1.1.3 POS Database Setting

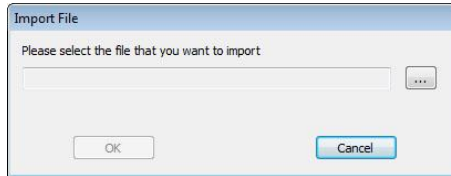
User can export the POS database to another save location or storage device. Click to change the save path. Mark **Remove POS data after** the POS data will be delete from DVR hard disk on the day that user has setup. Also, **mark Move to:** user can save the POS data to another folder on DVR when the POS data is removing. Click to set a storage path.



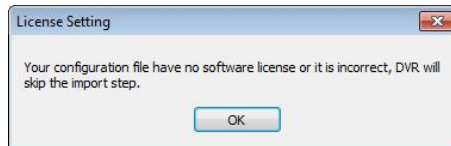
5.1.2 To Restore the Configuration

To replace the settings with the one user has saved.

1. In system setting window, click **Import** in Configuration section.
2. Click  to locate the configuration file which the one user has saved.



3. Click **OK** to start import the configuration file.



4. The DVR system will do the 6 items checking, Product Model Check, User Account, System Language, Storage Path Location, POSDB Path Location, and Software License, before import the configuration file.

- **Product Mode:** To check the product name and firmware version. If product name or firmware is different from current DVR system, user can choose to import or not to import this data. Click **Yes** to import the data and click **No** to skip it.



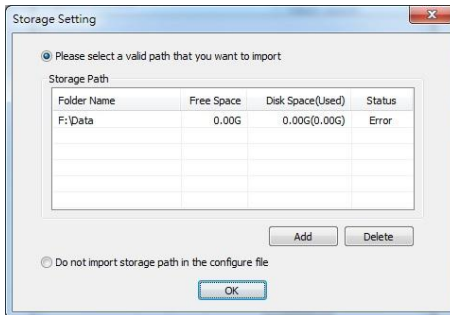
- User Account:** To check the DVR system login user name and password of configuration file. If the user name and password are different from current DVR system, user can select to use the user name and password of configuration file or select to keep the current DVR system's user name and password.



- System Language:** To check the system language of configuration file. If the system language is different from current DVR system, user can choose to import the language of configuration file or keep the current DVR system language setting.



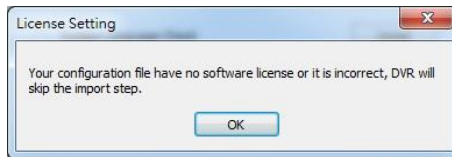
- Storage Path Location:** To check the storage path setting of configuration file. If the storage path of configuration file is missing or incorrect; user can add the storage path or skip to import this setting.



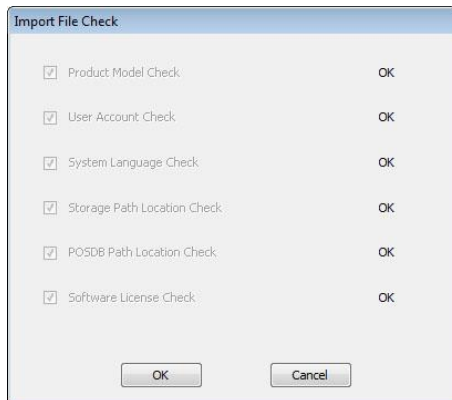
- **POSDB Path Location:** To check the POSDB path setting of configuration file. User can re-assign the POSDB path if the POSDB path of configuration is different or incorrect.



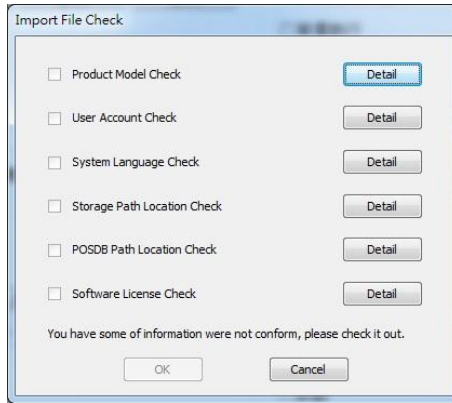
- **Software License:** To check the software license of configuration file. If the software license is not correct, the DVR system will skip to import software license data.



5. If all items are all pass the checking, each item is indentify as **OK**. Then, user can click **OK** to complete the import processing.



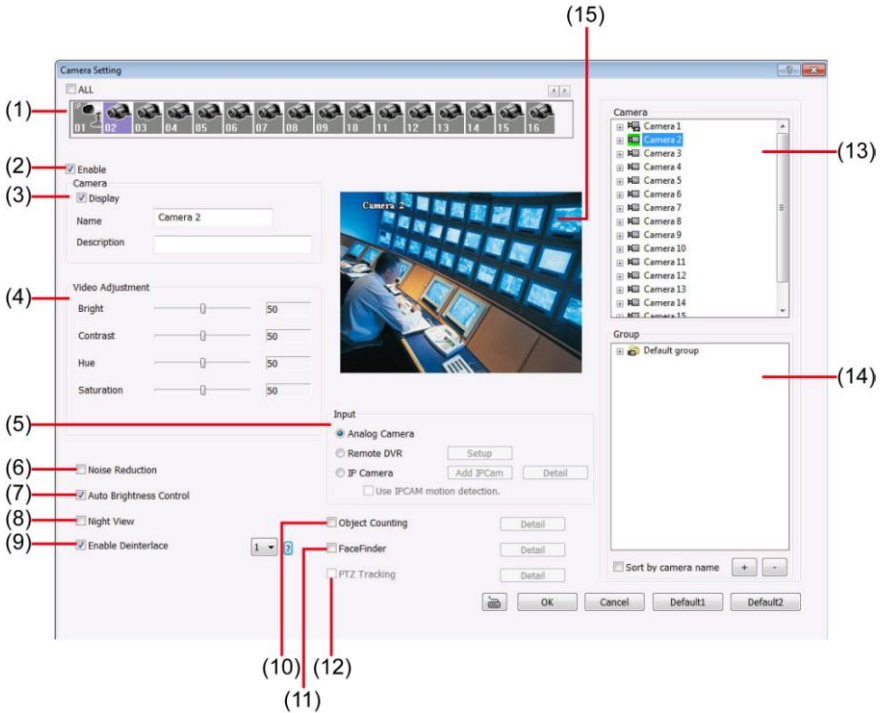
6. If the 6 check items are failed to pass the checking, user can click **Detail** button of each item to see the detail information and make a selection to import or not import the data.



7. If user doesn't to import the configuration file, click **Cancel** to discard the import processing.

5.2 Camera Setting

In the Camera Setting dialog box, click **OK** to accept the new settings, click **Cancel** to exit without saving, and click **Default1/ Default2** 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. The camera icon will be different that depends on the camera type user selected.



IP camera icon



Analog camera icon

(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) Video Adjustment (For Analog Camera Only)

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

(5) Input

Select the type of video camera input you are using.

- **Analog Camera**

The video source is coming directly from camera that is connected to the DVR.

- **Remote DVR**

The video source is coming from another DVR server. In the Remote DVR dialog box, enter the server IP, port number, user ID, password and select the camera number. If you are not sure of the server IP and port, please check the DVR server IP address in Network setting.



The audio of remote DVR doesn't support on remote access application such as Remote Console.

- **IP Camera**

The video source is coming from IP camera. Click **Setup** to enter the IP Camera Settings window.

1. In the IP Camera Settings dialog box, select to connect using **Protocol** or **URL**.

- ✓ **Protocol**

- **Protocol:** Select the brand of IP camera from drop-down list.

- **Model:** Please check user's manual or vendor of IP camera.

- **Video Format:** select format of video.

- **Channel:** Select the channel that is going to be display on the surveillance monitor.

- **IP Camera Site:** Enter the IP address of IP camera and Port for connection.

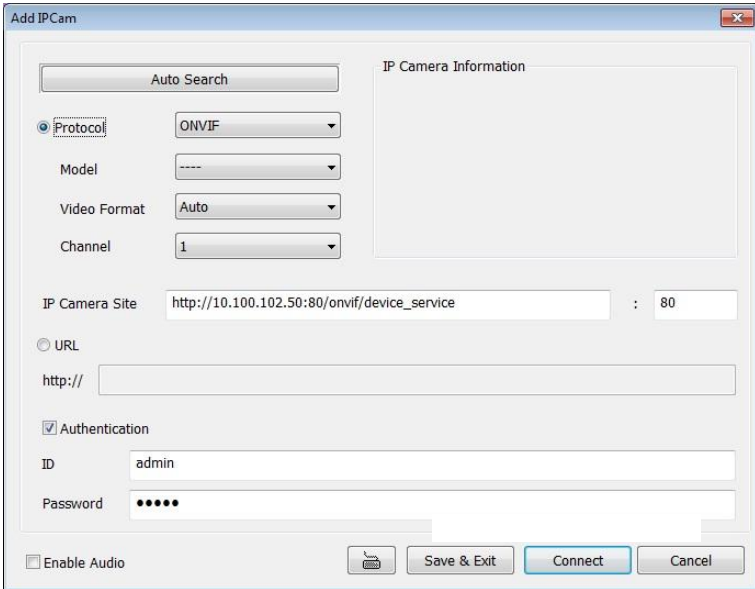
Please check user's manual or vendor of IP camera how to get IP address of IP camera. The port number of IP camera is 80 in default, unless IP camera site has change the port number, then, use default value.

- **Auto Search:** User also can click **Auto Search** button to find all IP camera that can be detected by DVR system on your LAN network. In Search Result window, click the IP camera that wants to connect with it.

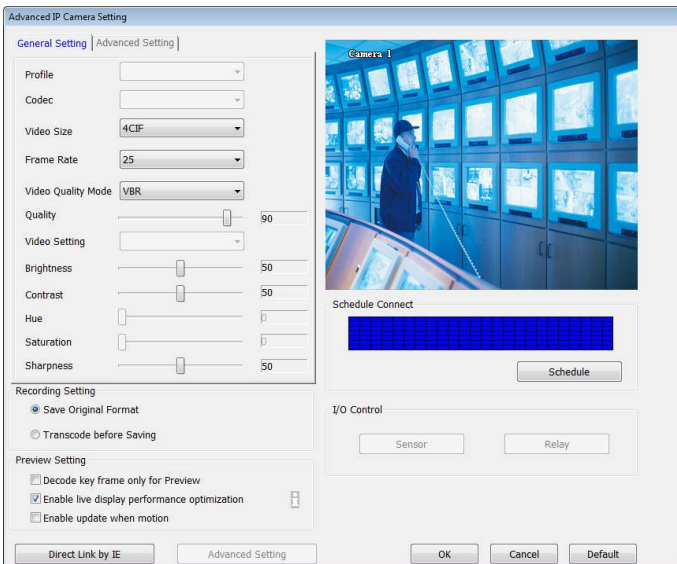
Item	Protocol	Model	IP Camera Site	Port
1	ACTI	TCM4301	192.168.201.119	80
2	SONY	SNC-CM120	192.168.201.127	80
3	SONY	SNC-DM110	192.168.201.129	80
4	ACTI	TCM4301	192.168.201.120	80
5	ACTI	KCM7111	192.168.3.8	80
6	Promelit	G70HD	192.168.0.124	8670
7	SONY	SNC-CS20	192.168.201.128	80
8	EtroVision	EV8180Q	192.168.0.115	80
9	ACTI	ACM4200	192.168.0.66	80
10	SONY	SNC-D560	192.168.201.130	80
11	JVC	VN-T16U	192.168.0.235	80
12	EtroVision	EV8180F	192.168.0.114	80
13	JVC	VN-T216	192.168.0.231	80
14	JVC	VN-T16	192.168.0.234	80
15	JVC	VN-T216	192.168.0.233	80

- ✓ **Using RTSP protocol:** If the IP camera supports RTSP protocol, user can select RTSP protocol to connect with IP camera.
 - **Protocol:** Select the "RTSP_RTP" from drop-down list.
 - **Model:** Please check user's manual or vendor of IP camera.
 - **Video Format:** select format of video.
 - **Channel:** Select the channel that is going to be display on the surveillance monitor.
 - **IP Camera Site:** Enter the **RTSP URL** and **Port** for connection. Please check user's manual or vendor of IP camera to get RTSP URL and port. Different IP camera has different RTSP URL and port. The example of RTSP URL is "rtsp://10.1.1.2/video.sdp".
 - ✓ **Using ONVIF protocol:** User can connect IP camera through ONVIF protocol if IP camera has support ONVIF and can be recognized by DVR system.
 - **Protocol:** Select the **ONVIF** from drop-down list.
 - **Model:** Don' t need to select it.
 - **Video Format:** The video format is basic on IP camera setting, so select **Auto**.
 - **Channel:** Select the channel that is going to be display on the surveillance monitor.
 - **IP Camera Site:** Enter the ONVIF address of IP camera and Port for connection. Please check user's manual or vendor of IP camera
 - **Auto Search:** User also can click **Auto Search** button to find all IP camera that can be detected by DVR system on your LAN network. In Search Result window, click the IP camera that wants to connect with it.
 - ✓ **URL:** Enter the URL of IP camera. If you are not sure URL of IP camera, please refer to the IP camera manual or contact your IP camera local distributor.
2. After enter IP camera's related data, if it requires user identification, enable **Authentication** check box and enter **ID** and **Password**.
 3. To enable audio, click **Enable Audio** check box.

- Click **Save & Exit** to save the setting and leave the setup windows. Click **OK** to save the setting but not exit the setup windows. To cancel the setting, click **Cancel**.



- In Camera Setting interface, click **Detail** to configure more parameters of the camera. Click **OK** to save the configuration and exit the setup windows. To reset the configuration back to factory value, click **Default**.



6. User can select **Video size**, **Frame rate**, **Video** and **Quality Mode** of camera. And scroll the bar to adjust the **Quality**, **Brightness**, **Contrast**, **Hue**, **Saturation**, and **Sharpness** of the camera.

■ **Recording Setting**

- **Save Original Format:** Save the video that is compressed by IP camera's compress mode.
- **Transcode by MPEG4 Encoder:** DVR system is decoding the video and compress video again by using MPEG4 encoder.

■ **Preview Setting:** preview setting will relate to the **Save Original Format**.

- **Decode key frame for Preview:** When previewing video, DVR system only shows key frame and one frame per second.
- **Enable live display performance optimization:** The live video performance will be optimized while display.
- **Enable update when motion:** The video will update only when compare the key frame has motion found, and then, the video will be displayed.

■ **Schedule Connect**

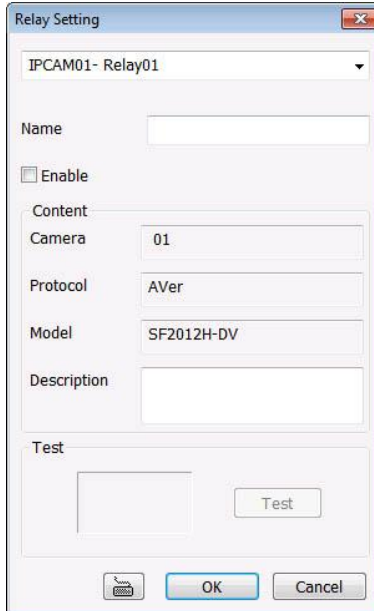
User can select a certain date and time to connect with IP camera. The blue block means connect with IP camera and the white block means disconnect with IP camera. Select the connection status (blue or white) and click the date and time block to set the connection schedule.

■ **I/O Control:** To setup the sensor and relay devices that is installed on IP camera.

- **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 in **Name** column
 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.

The image shows a 'Sensor Setting' dialog box. At the top, there is a dropdown menu with 'IPCAM01- Sensor01' selected. Below this is a 'Name' field. The 'Content' section contains several fields: 'Camera' with '01', 'Protocol' with 'AVer', 'Model' with 'SF2012H-DV', and a 'Description' field. At the bottom of the dialog is a 'Test' section with a 'Test' button. The dialog also has 'OK' and 'Cancel' buttons at the very bottom.

- **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 in **Name** column
 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.



■ **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.



The Video, Direct Link by IE, and Advanced Setting setup contents may be varied that depends on the brand of IP camera supported.

(6) Noise Reduction

Reduce undesirable video signal and improve the quality of the video.



Noise Reduction uses lots of CPU resource. Please use this feature only if it is really necessary.

(7) Auto Brightness Control

Automatically adjust the brightness.

(8) Night View

Automatically adjust the exposure to make the image more visible especially when the site is dark. You can only use this function when the Auto Brightness Control is enabled.

(9) 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.

(10) 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 [Chapter 5.2.1](#)).



The DVR system only supports 4 channels for object counting.

(11) FaceFinder

To setup the capture of human face image from live or recorded video (See also [Chapter 5.2.2](#)).

(12) PTZ Tracking

Enable/disable object tracking of the PTZ/IP PTZ camera (see also [Chapter 5.2.3](#))

(13) Camera list

List all available cameras for grouping. User can drag the camera to **(15) Video screen** to view camera live video.

(14) Group

User can create several camera groups for managing purpose. All cameras can be group into several different groups (see also [Chapter 5.2.4](#)).

(15) Video Screen

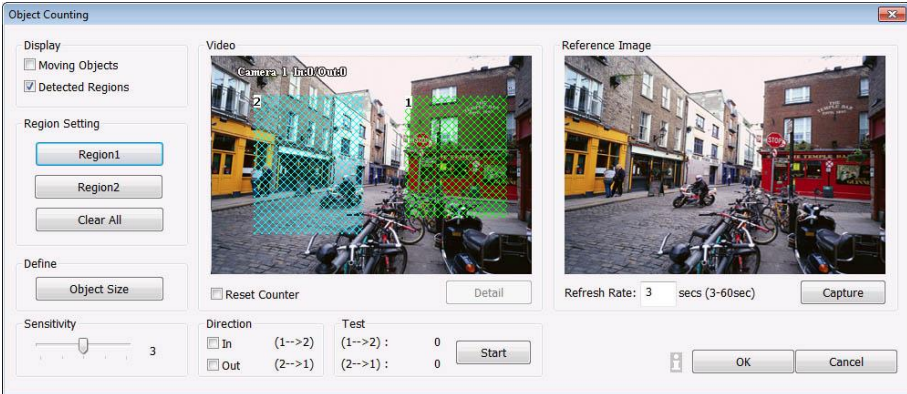
Display the video of the selected camera.

5.2.1 Setup the Object Counting



The DVR system only supports 2 channels on 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. In **Reference Image**, click **Save** button to capture the image for comparing reference on object counts. Set the **Refresh Rate** to re-capture the reference image when the video screen doesn't any movement. For example: the refresh rate is 3 seconds and in 3 seconds there is no any object movement on screen; the DVR system will capture the image to replace the last captured image for comparing reference.
4. 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.
5. Click **Object size** to define the detected object dimensions. Press left button of mouse and drag on the screen. The size of **Object size** frame determines the number of object that DVR system counts. For example: an object passes the area 1 to area 2 and the object size is less or equal to object size frame; the DVR system counts 1 object. Three objects pass the area 1 to area 2 together and these three object total size is twice of object size frame; the DVR system counts 2 objects, not the three objects. To see the object size frame on screen, enable **Moving Object** in Display section.
6. Adjust the **Sensitive** of object detecting.
7. To test the setting, mark the **Directions (In/Out)** want to be test and click **Start**. The testing result will show in Test section.
8. Enable **Reset Counter** to manual or auto reset counter.
 - ✓ **Auto reset counter**: Select the counter reset by every hour, every 12 hours, or every day automatically.

- ✓ **Reset the counter now:** reset counter manually.
- ✓ **Save statistic report after counter reset:** Save the counter data to the **Storage Path** that user has selected.
- ✓ **Remove data after:** User can delete the counter data in a specific time period. Fill in the **Days** that will delete the counter data after the counter data has been saved in specific storage location.
- ✓ **Move to:** Save the counter data to another location that user has been selected.

The image shows a 'Counting Reset Setting' dialog box with the following configuration:

- Reset Counter:**
 - Auto reset counter
 - Frequency: Every Hour
 - Button: Reset the counter now
- Statistic Report:**
 - Save statistic report after counter reset
 - Stored Path: D:\DVRInfo\CounterDB
 - Remove data after: 7 Days
 - Move to: (Select a folder here)

Buttons: OK, Cancel

9. Click **OK** to save the setting. Click **Cancel** to leave the setup window without saving.
10. The object counting information will be display on the screen of upper part.

5.2.2 To Setup the FaceFinder

To setup the human face detection and capturing from live video for security issue. Click **Detail** to enter the FaceFinder setup window. To set the value back to default, click **Default** button.



- The face detection angle is around 30 ~ 45 degrees for both side of face and 25 ~ 30 degrees for look up and down side of face.
- It is to recommend that user install the camera in the position of light comes in for better face detection result.



- **Save Data into Object index:** Mark to enable face detecting and capturing face image to display on face object log. The default is enabled when the FaceFinder is enabled.
- **Advanced Search(Include Human Eye Detection):** Beside face recognition, the system will also focus the detection on eyes of face.
- **Search Region:** User can select condition of face detection and setup face detects area.
 - **Detect Motion Object:** Only when the human face is moved, the system will detect and the face will be captured.
 - **Define Select Region:** Setup the face detects area. The system will only detect the face in the selected area. On the preview screen, use mouse to drag the area that user wants to search. User should see the blue frame on the preview screen of FaceFinder setup window. User can select multiple areas for detection. To clear the selected area, right click the mouse button and drag the selected area to clear. Or, click **Clear** to clear all selected areas.
- **Detection Sensitivity:** To set the sensitivity level of face detection. More higher is more easily to detect the difference of the face.
- **Minimal Face Size Level:** To set the face detection of minimal size. The system will only detect the face size is equal or bigger than the minimal face size. User should see a green frame on the preview screen of FaceFinder setup window.

- **Control Setting of External Device:** Set the conditions of the face detection that is trigger by outside device such as sensor, relay device.
 - **Activate FaceFinder By External Device:** Mark to enable trigger condition.
 - **Start Message:** Set the sensor level that will trigger the face detection. The default is high.
 - **Stop Message:** Set the sensor level that will reset the condition of face detection. The default is low.
 - **Reaction Device:** Set the activate level of relay device. When the face detects condition meets the condition in **Trigger Condition**, the relay will send out the signal and the system will send out the face object log. The log can be viewed in **Face Object Log**.
 - **Trigger Condition:** Set the condition for activating relay device to send out the log to DVR system. Select the time (second) and times (the number of face has been detected) from drag down list.
 - **Reset Device Status After:** Set the time period to reset activate device back to normal status. It works only when the activate status is set to trigger.

After set up, click **Start Test** to test the configure result. When the system is detecting face, the red frame will show up on the screen. The test result will display in Face log List window as below figure shown:



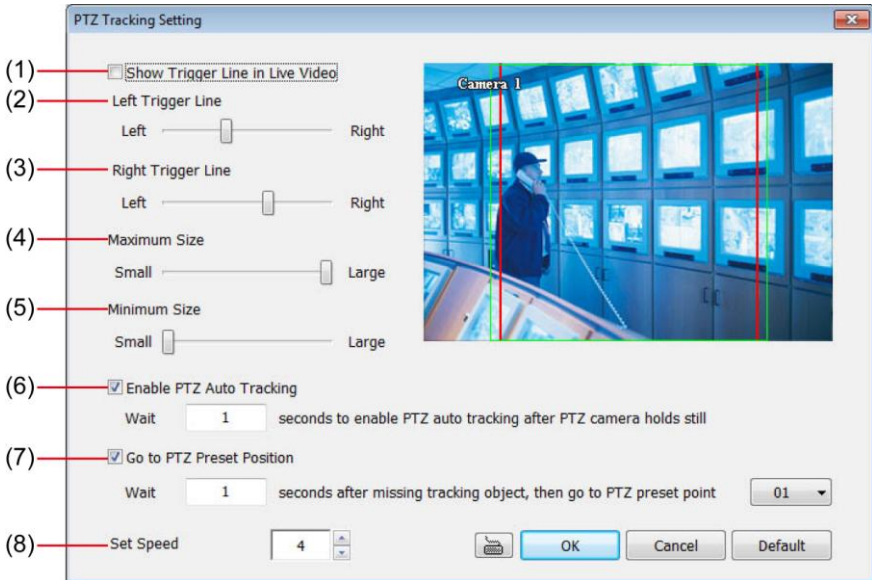
5.2.3 Setup PTZ Tracking

PTZ tracking allows user to setup a select range for PTZ camera to tracking the object automatically when object is out of selected range.




The PTZ tracking will be available when the camera is enabled PTZ function.

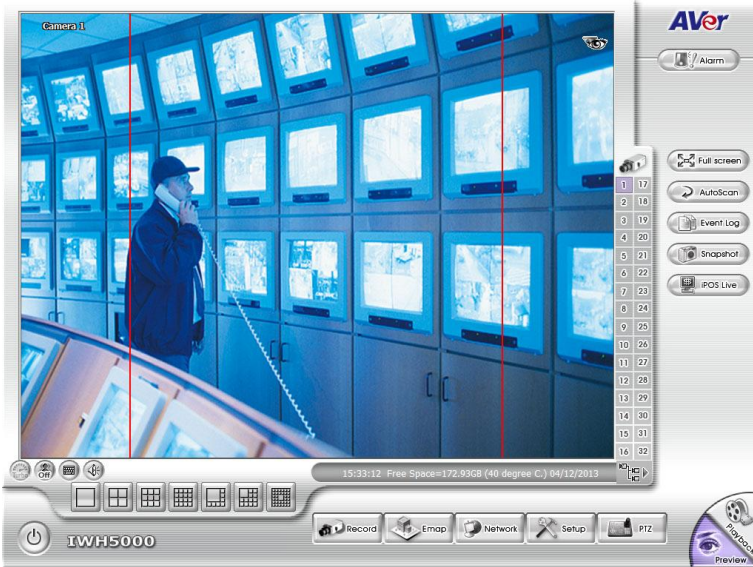
1. User need to enable the PTZ function of the camera if the camera is a PTZ/IP PTZ camera.(see also [Chapter 4.6](#))
2. Click **Detail** from the Camera Setting windows.
3. Configure the following selections to complete the PTZ tracking.



- (1) **Show Trigger Line in Live Video:** Enable/disable the tracking line on the preview screen.
- (2) **Left Trigger Line(red line):** Set the left edge of the tracking range. If the object is out of the range edge, the camera will automatically move to track the object.
- (3) **Right Trigger Line(red line):** Set the right edge of the tracking range. If the object is out of the range edge, the camera will automatically move to track the object.
- (4) **Maximum Size(green frame):** Set the maximum size of the object for detection.
- (5) **Minimum Size(green frame):** Set the minimum size of the object for detection.
- (6) **Enable PTZ Auto Tracking:** To restore PTZ tracking function after the camera has been manually control. The PTZ tracking will stop function when user has operated the PTZ camera manually. Therefore, user can enable this option to make sure the PTZ tracking will be restored after manually control of the PTZ camera.
- (7) **Go to PTZ Preset Position:** To move the PTZ camera back to the selected preset position after PTZ camera tracking the object and the object is missing or out of the camera view.


(8) Set Speed: To adjust camera lens moving speed. This speed won't affect the speed on PTZ panel.

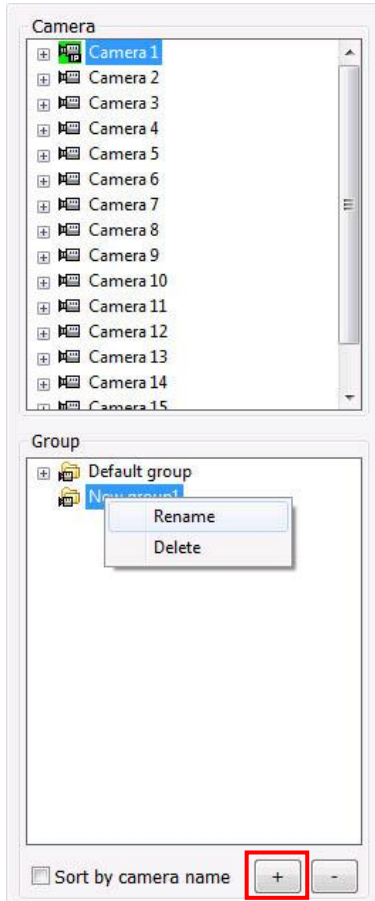
4. Click **OK** to complete the setting.
5. When the PTZ tracking has been setup, user should see the PTZ tracking icon () on the preview screen.



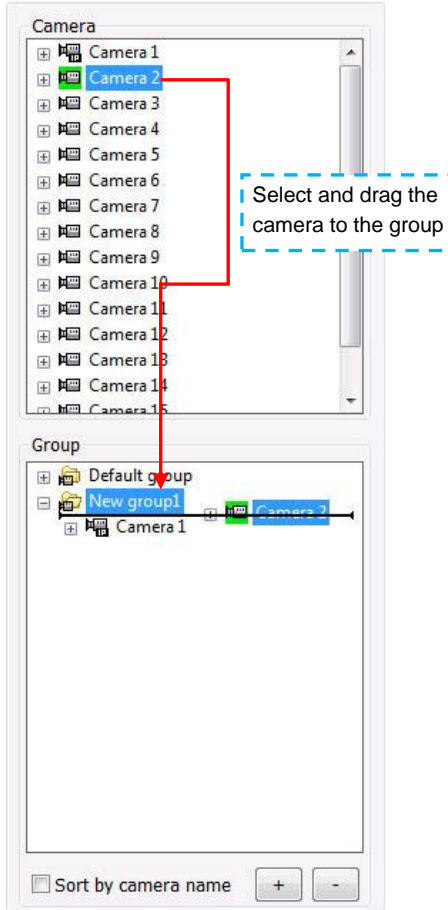
5.2.4 Create a Camera Group

Follow the below steps to create a camera group. The maximum of group number is 64. The default group can be deleted and modified.




1. Click  to add a new group.
2. Right-click on group to rename the group name.

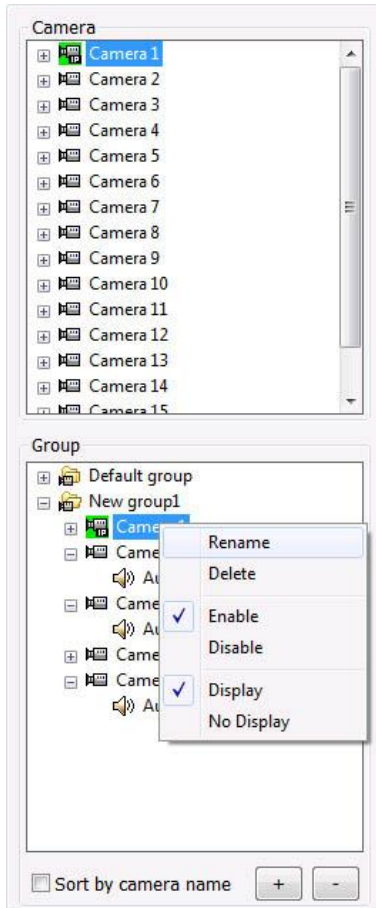


3. Drag the camera from Camera list section to the group.



4. Right-click the camera can rename, delete, display/no display video of camera, and enable/disable camera.
5. To add another group, do the step 1 to 4 again.
6. To delete the group, click or right-click the group and select **Delete**.
7. Mark **sort by camera name** to display group by name order.
8. Click **+** of the group to extend the group. Click **+** of the camera to view all devices that is connected with camera.

9. In camera group, different camera icon represent different types of camera --  (IP camera), , and  (Camera of remote DVR).



10. User can easy to view and manage the camera group in preview/advanced mode by click camera tree icon. From camera group tree, user can enable/disable, display/un-display, and rename the camera and enable/disable the audio of the camera.



To manage the camera group tree in preview/advanced mode, user need to be enabled the **Group Tree Menu** control right in account setting(see also [Chapter 5.10 User Setting](#))

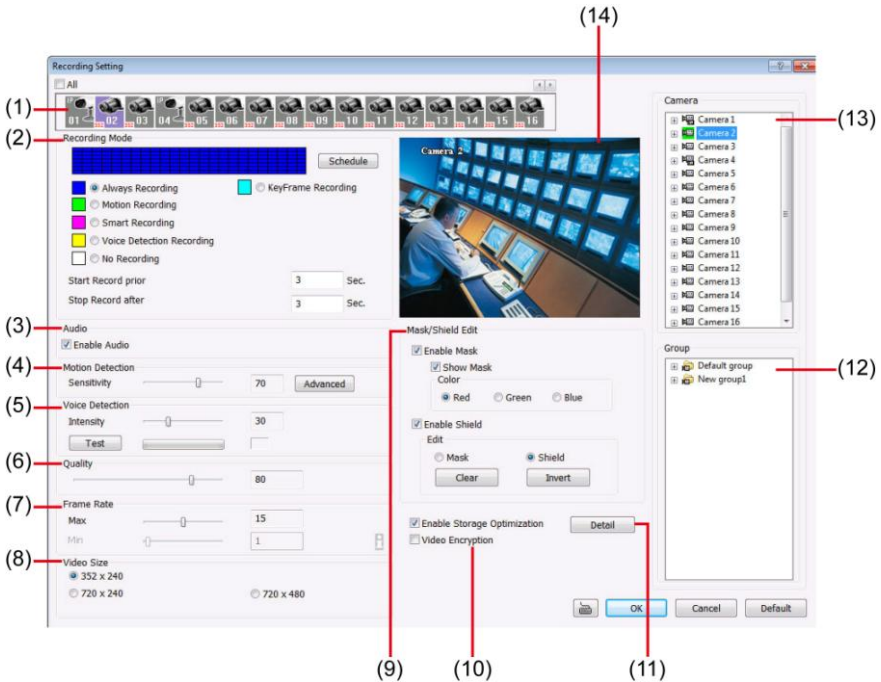


5.3 Recording Setting

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.



Some of functions don't support for IP camera channel.



(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. The camera icon will be different that depends on the camera type.



IP camera/Remote DVR icon



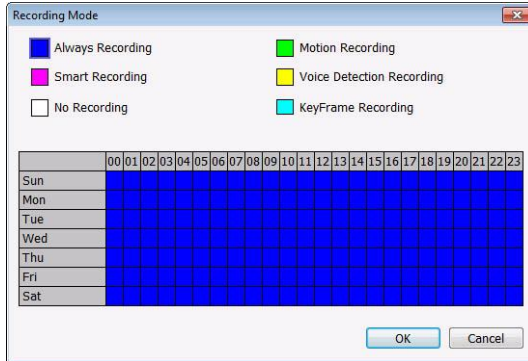
Analog camera icon

(2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the **⊙** button.

If you want to only record at a particular time or day, click **Schedule** button and select the

Recording Mode , and then click on the time or day blocks.



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

- **Always Recording**
Record the video from the selected camera and save it to the designated storage path.
- **Motion Recording**
Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After settings**.
- **Smart Recording**
Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting Set the maximum and minimum frame rate setting in **(7) Frame Rate** section.
- **Voice Detecting Recording**
DVR system will record the sound when the voice exceeds the intensity value in Voice Detection setting.
- **No Recording**
The system won't do any recording.
- **KeyFrame Recording**
Only record one frame per second.

(3) 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.

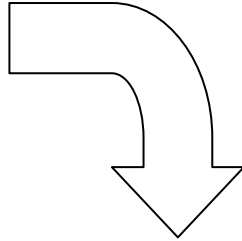
(4) Motion Detection

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. Click **Advanced** button to select the area for motion detection. Click **Region 1/2/3** button, and then, click-and-drag an area on camera screen for motion detect.

To adjust motion detect sensitive, scroll the **Sensitivity 1/2/3** bar. Click **OK** to save and exit the setting window. To reset all setting, click **Default**.



Click Region button to select the motion detect area.



(5) Voice Detection

Adjust the intensity of the audio detector. The system detects sound when it exceeds the intensity value.


(6) Quality

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

(7) Frame Rate

Set the maximum and minimum 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.

(8) Video Size

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.


(9) Mask/Shield Edit

Mask, mark an area on the screen to disregard the motion in the marked area and to only monitor outside the marked area. As for the Shield, it covers an area on the screen and the covered area would not be visible on the screen and recorded. (see also [Chapter 5.3.1](#))

(10) Video Encryption

Enable/disable 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 corner of the encrypted video screen. You may see the video during live recording. To decrypt the video, please refer to [Chapter 5.3.2](#).



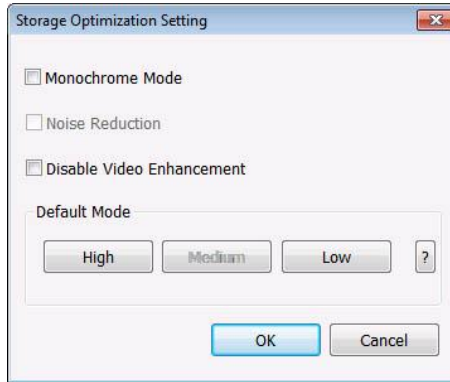
(11) Enable Storage Optimization



Only support on Analog camera.

Enable/disable to save more storage space. Click **Detail** button to select the type of storage optimization.

- ✓ **Monochrome Mode:** The video will record in black and white.
- ✓ **Disable Video Enhancement:** To shutdown video enhancement function.



User also can select the Default Mode High/Low. Click ? button to view default mode definition.

(12) Group

Click to view the camera group that user has been setup in **Camera setup** (see also [Chapter 5.2.4](#)).



(13) Camera

Click to view the camera live video on **(14) Video Screen**.


(14) Video Screen

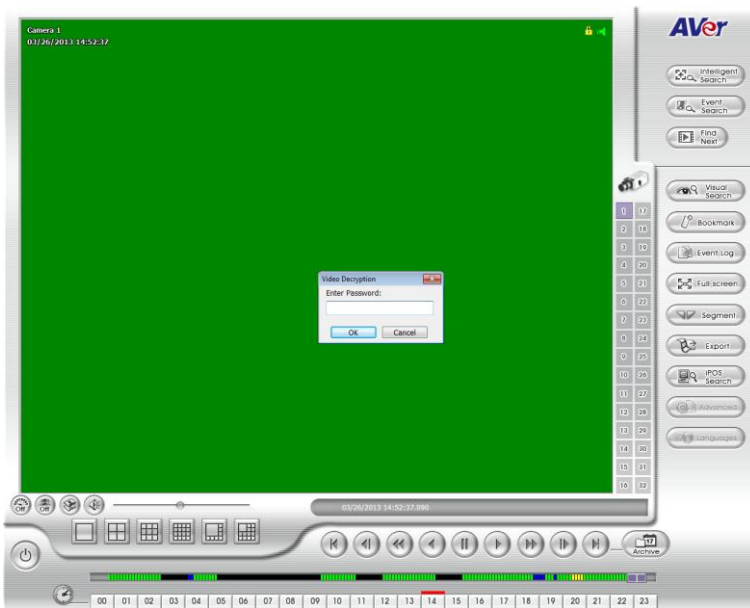
Display the video of the selected camera.


5.3.1 To Mask/Shield an area on the screen

1. In the Mask/Shield Edit section, activate the **Enable Mask/Enable Shield** check box.
2. Enable the **Show Mask** check box to show the mask frame on surveillance screen.
3. In the Edit section, select between Mask or Shield and click the  button.
4. In the Color section, select the color and click  button.
5. Click and drag a frame on the video screen to create Mask or Shield area.

5.3.2 To Playback Encrypted Video

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



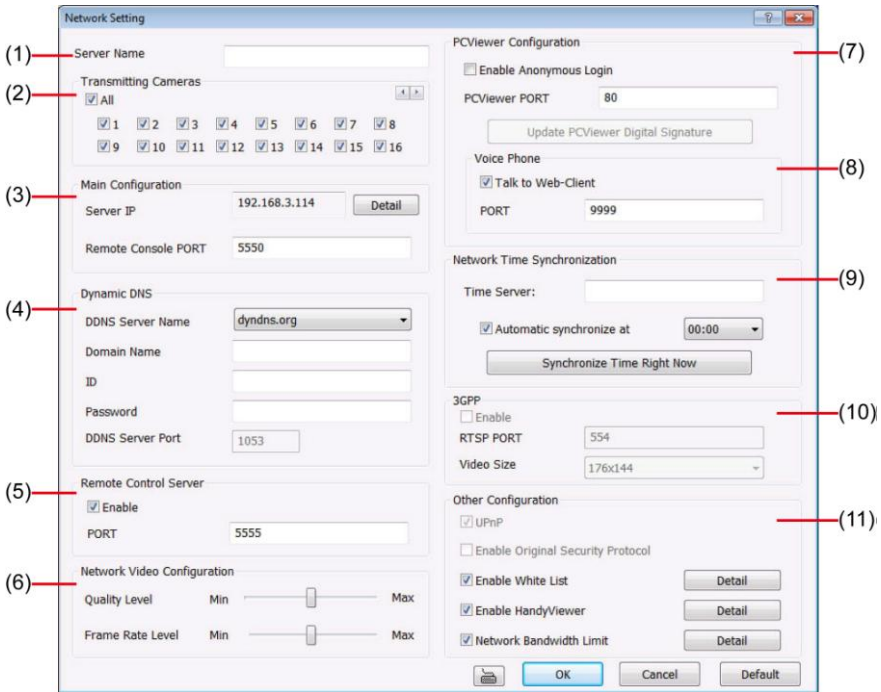
To encrypt the recorded video back, click  icon to encrypt again.



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

5.4 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. Letters of the alphabet and numbers only.

(2) Transmitting Cameras

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

(3) Main Configuration

Click **Detail** of Server IP that user can modify DVR server's IP address in Network Wizard dialog. Set the **Remote Console Port** number that user needs this when accessing DVR server from the remote location via internet. Click Detail to view more information.

(4) Dynamic DNS (Domain Name System)

Enter the Domain Name and Password. To use this feature, go to <http://ddns.avers.com.tw> or <http://dyndns.org> and register. (see also [Appendix A](#)) You will be prompted to enter CD key 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.

(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) PCViewer Configuration

Activate **Enable Anonymous Login** to remotely access the DVR server without the need of password and **Talk to Web-Client** 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 WebCam 2-Way Talk button is activated.



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

(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 WebCam 2-Way Talk button is activated.



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

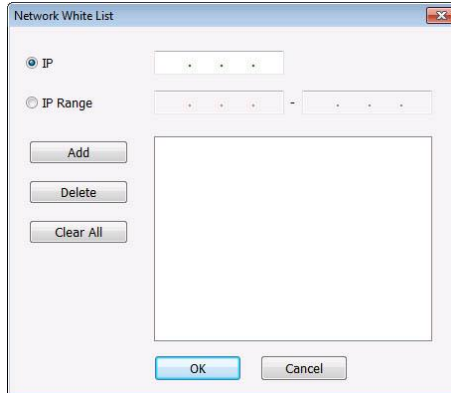
(10) 3GPP

Enable 3GPP that allows user to use browser on the mobile phone to view recorded video. Just enter the http:// DVR server IP address/3GPP on the browser of mobile phone, and then, user will receive the recorded video from DVR server. Fill the RTSP PORT for 3GPP connection. Select the video size for transmitting to user's browser on the mobile phone.

(11) Other Configuration

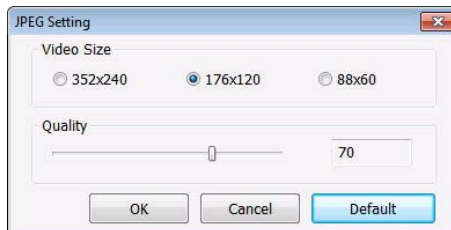
- Enable White List

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



- Enable HandyViewer

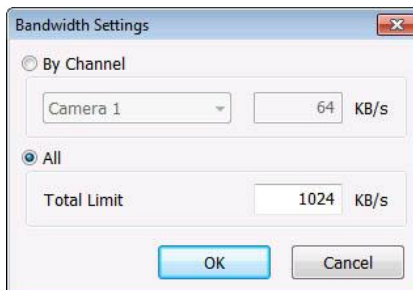
Enable remote users to use a PDA or a mobile phone(ex: iPhone, Black Berry) to access DVR server and select the video size and quality. (See also [Chapter 7.5](#))



- Network Bandwidth Limit

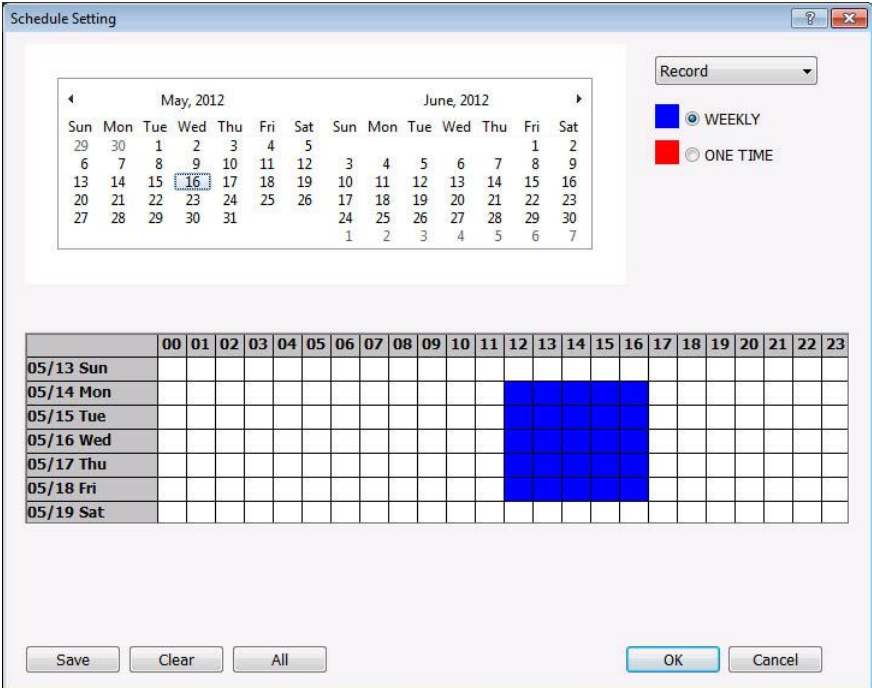
By Channel: Set the network bandwidth by each channel.

All: Set the total network bandwidth consumption limit.



5.5 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:

1. Select the date in the calendar. Use and buttons to shift the calendar to the left or right.
2. Select the condition you want to schedule in the drop down list.
 - **Record**
Activate all the cameras to start video recording at the set time based on the Recording setting (see also [Chapter 5.3](#)).
 - **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 .
 - ✓ **Mirror Backup:** Save a copy of all the data at the set time and specified backup path.
 - ✓ **Incremental Backup:** Only backup the data that are not yet included in the archive from last time.



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 PC at the appointed time.



Make sure the Windows operating system is set **NOT** to require you to login user name and password.

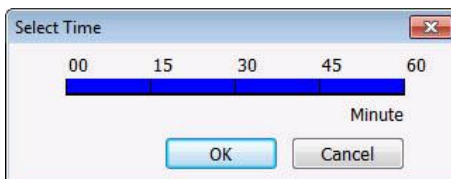
- **Disable Alarm**

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.

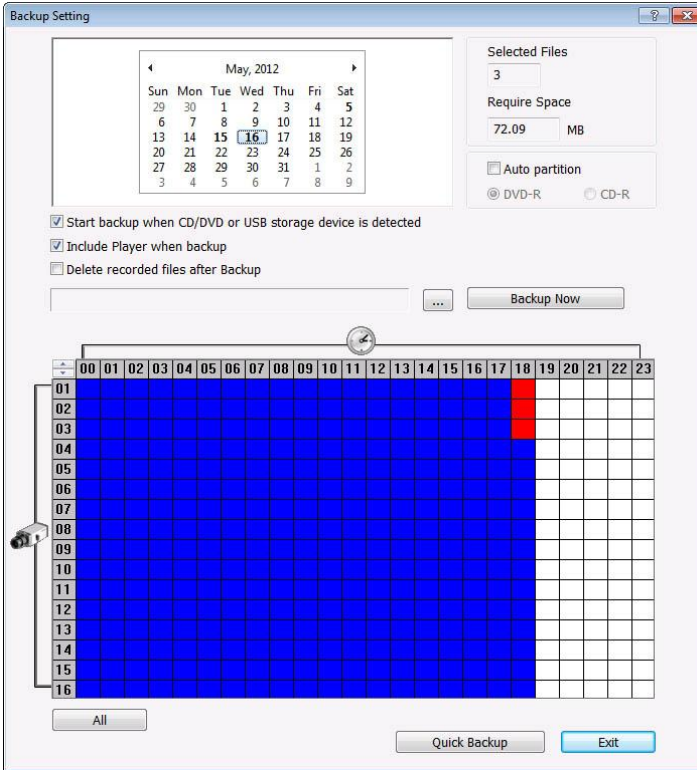
- Specify to either schedule it weekly or one time. Click to make a selection.
- Right click** the colored blocks to set the schedule. In the Select time dialog box, click to enable or disable the portion user want to set. Click **OK** to accept the setting and **Cancel** to exit without saving the setting.



- User also can 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 click **Cancel** to exit without saving the setting.

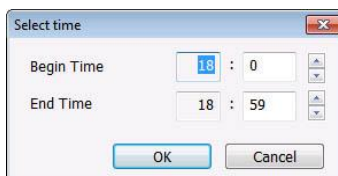
5.6 Backup Setting

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 back up the file, you may find QPlayer application included in the backup folder (see also [Chapter 6](#)).



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.

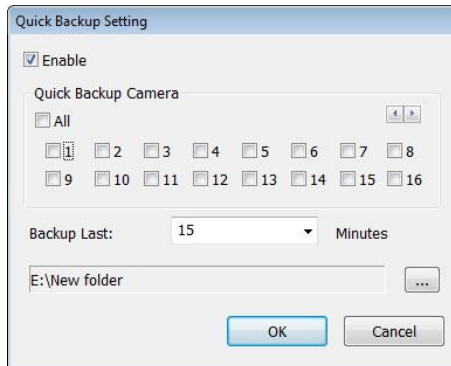


3. Check the information beside the calendar.
 - **Selected Files:** Show the number of files selected.
 - **Require Space:** Show the total size of the selected file.
4. Enable Auto partition and select to divide the file size into DVD-R or CD-R. DVR automatically backup and divide the file sizes to 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. 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.

5.6.1 Setup Quick Backup

Set a quick backup rule for user can pressing **Ctrl + B** to execute backup instantly.

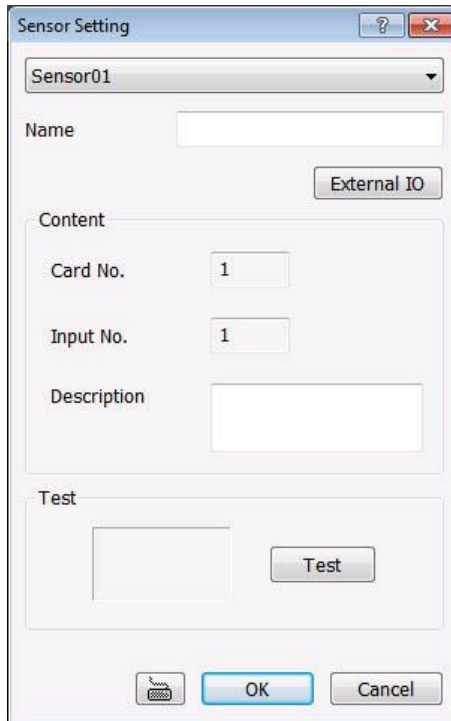
1. Click **Quick Backup**.
2. In Quick Backup Setting, mark **Enable**.
3. And then, select the channels that want to backup.
4. **Backup Last:** Set the time before minutes to backup. For example: time before 60 minutes means backup the recorded file from now backward 60 minutes. Present time is 13:00, the system will backup start from 12:00 when press quick backup button.



5.7 Sensor Setting

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

1. Click the drop-down list and select the sensor ID number.
2. Give a name to the sensor in **Name** column.
3. Click **External IO** to configure external I/O device if it is available(see also [Chapter 5.7.1](#))
4. The system automatically detects the sensor and input relates information. User can enter a short description for this relay in **Description** frame.
5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

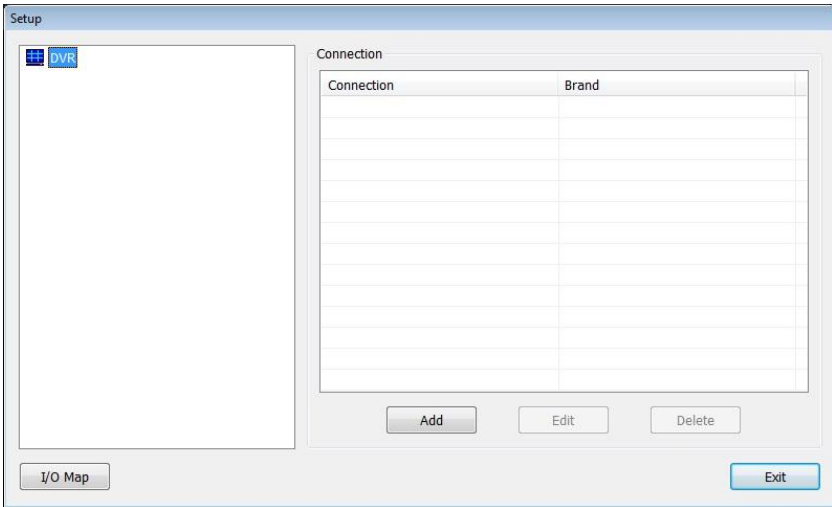


The image shows a 'Sensor Setting' dialog box with the following fields and controls:

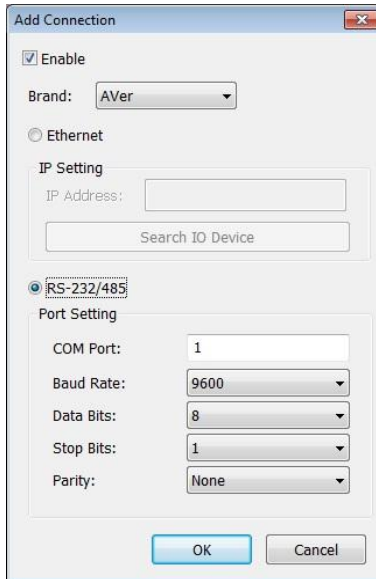
- Sensor ID:** A drop-down menu currently showing 'Sensor01'.
- Name:** An empty text input field.
- External IO:** A button located to the right of the Name field.
- Content Section:**
 - Card No.:** A text input field containing the number '1'.
 - Input No.:** A text input field containing the number '1'.
 - Description:** A larger text input field, currently empty.
- Test Section:**
 - A small rectangular area, likely for a status indicator or waveform.
 - A 'Test' button.
- Bottom Controls:** A 'Test' icon (a small square with a waveform), an 'OK' button, and a 'Cancel' button.

5.7.1 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 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**.

5.8 Relay Setting

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

1. Click the drop-down list and select the relay ID number.
2. Mark **Enable** to enable the selected relay. If user wants to apply the setting to all relays, click **Apply to all** button after complete the setting of the relay.
3. Click **External IO** to configure external I/O device if it is available (see also [Chapter 5.7.1](#)). 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. User can enter a short description for this relay in **Description** frame.
5. In the test section, click **Test** to trigger relay. **Red** is high and **Green** is low.
6. Mark **Enable Pulse trigger** the relay will be triggered depends setting of **Interval Time** and **Retrieve Time**. **Interval Time** is a time gap for the relay will be triggered, for example: the relay will be triggered every 3 seconds if interval time is set to 3 seconds. **Retrieve Time** is the time that relay is staying in trigger status, for example: when relay has been triggered and it will continuous in trigger status for 2 second if retrieve time is set to 2 seconds.
7. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Relay Setting

Relay01

Name

Enable Apply to all External IO

Content

Card No. 1

Input No. 1

Description

Test

Enable Pulse trigger

Interval Time Sec.

Retrieve Time Sec.

OK Cancel

- In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Click **Schedule** to select the time and date that you want to activate or deactivate the alarm function. Select **Enable** or **Disable** and click the block that user want to activate or deactivate the alarm function.

Enable Time

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

Enable Schedule



Alarm Schedule

Name: Alarm1

Enable Disable

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

OK Cancel

- 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.

Conditions

Trigger if any Trigger if all

Camera

Motion Detected

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

Video Loss

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

Missing or Suspicious Object/Scene Change

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

Audio Detected

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16

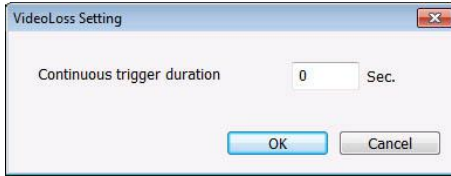
- **Motion Detected:** select and click on the camera number to set the condition for the system to alarm. Right click on the camera number to setup the **Continuous trigger duration** of Motion detected. Enter the time period for system to send out the alarm when motion has continuous detected for a period.

Motion Detect Setting

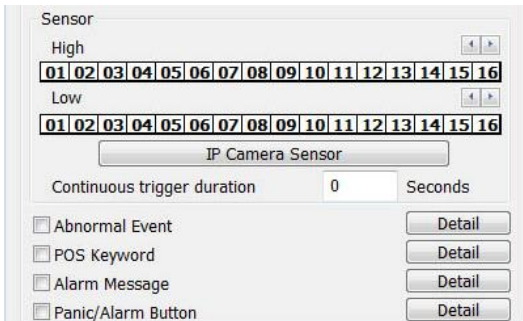
Continuous trigger duration Sec.

OK Cancel

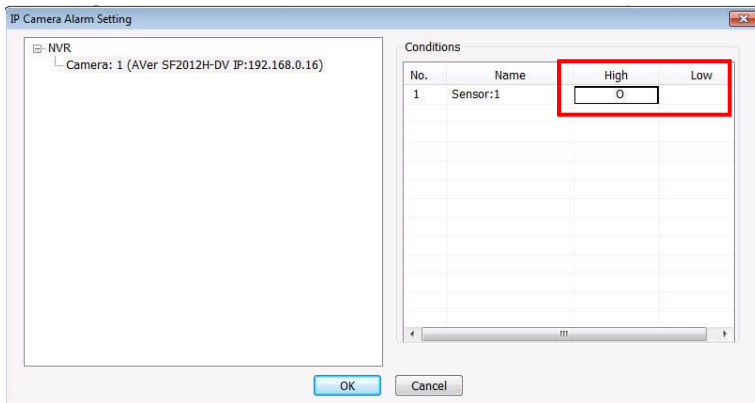
- **Video Loss:** Click the camera number to set the alarm condition when video is lost. Right click on the camera number to setup the **Continuous trigger duration** of Video Loss. Enter the time period for system to send out the alarm when video loss has continuous detected for a period.



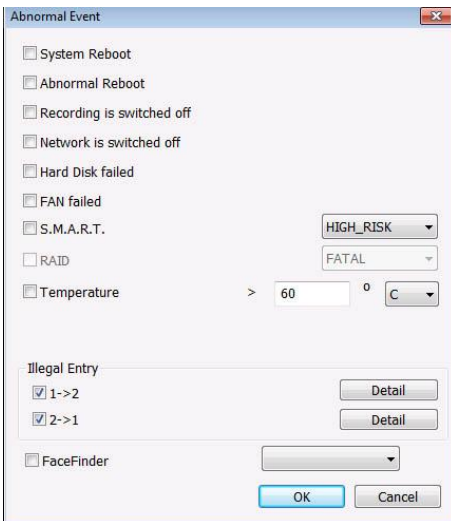
- In **Missing and Suspicious Object/Scene Change**, click the camera number and select the certain object on the screen (**Right-click** on camera number for detailed setting), and when the certain object is missing or doubtful, the system will alarm.(see also [Chapter 5.9.11](#))
 - **Audio Detect:** Click the camera number to the system to alarm when detect the abnormal audio.
5. In **(4) Sensor**, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.



- **IP Camera Sensor:** 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.



- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- **Abnormal Event:** Enable/disable to set the condition of the event for system to alarm.



- **System 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.
- **FAN Failed:** when the fan speed is slow down and DVR temperature is over 50°C, the system will send out the alarm message.
- **S.M.A.R.T.:** select the risk level (High or Low) that base on the DVR system's S.M.A.R.T. mechanism to detect the hard disk's status and the system will send out the alarm message when the status has matched the selected risk level.
- **Temperature:** set a temperature limited of system for system to alarm. When DVR system temperature is over the temperature limited, the system will send out the alarm.
- **Illegal Entry:** any objects move between selected regions which user has set up in **Object Counting** section (see [Chapter 5.2.1](#)), the system will send out the alarm. Select the entry (object moves from region 1 to 2 or from region 2 to 1) and click the **Detail** to select the camera and the times for system alarm.
 - ✓ **Trigger if once:** Send out the alarm when the selected camera match the illegal entry has selected.
 - ✓ **Trigger if the amount exceeds:** Send out the alarm when the selected camera and illegal entry times match the illegal entry has selected.



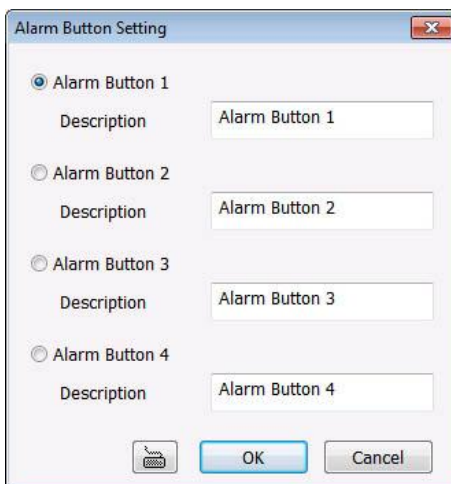
Only the camera has been setup in **Object Counting** will be available for selecting in **Illegal Entry**.

- **FaceFinder:** Enable to send out the alarm when the selected channel has detected face.



Only the camera has setup FaceFinder detection will be available for selecting.

- Enable/disable the **POS Keyword** check box, to scan the data from the POS if it matches the keyword (see also [Chapter 5.9.10](#)).
- Enable/disable the **Alarm Button** check box, to active manual alarm function. To define alarm message of manually alarm trigger. Click alarm button and select the alarm button # and fill in the description of alarm button. When the alarm buttons have been setup, the Alarm Button icon will show up on the DVR application UI. User can click the Alarm button icon to trigger the pre-defined alarm.

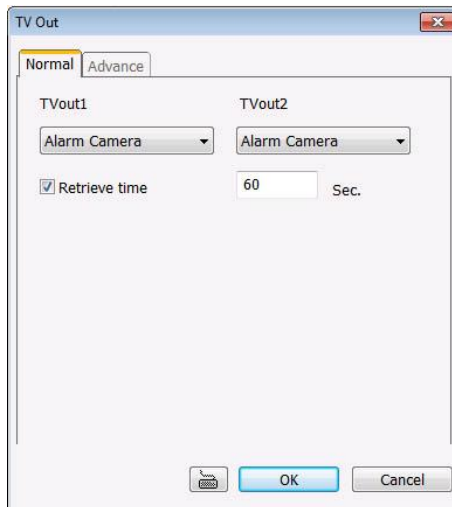


- In **(5) Alarm Reset**, click the camera number (01 to 16) to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the sensor condition to low.
To set sensor status of IP camera, click **IP Camera Sensor**. In IP Camera Alarm Setting windows, click **High/Low** to set sensor status.
 - **Alarm Reset Time:** Set a time for the alarm auto reset. When an alarm happen such as motion detected and video loss, the alarm will reset at the alarm reset time.
- In **(6) Priority**, set the priority of this alarm set.
- In **(7) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.
 - **Launch EMAP**
Display mini EMAP screen.

- **TVOut1/TVOut2**

Switch to only display the video on TV1/TV2 from where the alarm is activated.

- a. Select the camera from drop down list to specify which camera video to be displayed on TV when the alarm is triggered.
 - Ⓐ **Alarm Camera:** when a channel has an alarm occurred, and then, the channel video that has an alarm occurred will be displayed on TV.
 - Ⓑ **Camera #:** select the camera channel video that wants to be displayed on TV when an alarm is activated.
- b. **Retrieve time:** set the waiting duration before system switching back to original display mode on TV automatically. If the retrieve time is un-mark, the alarm video will keep displaying until user switch back to normal display mode manually. The retrieve time range is 3~ 600 seconds.



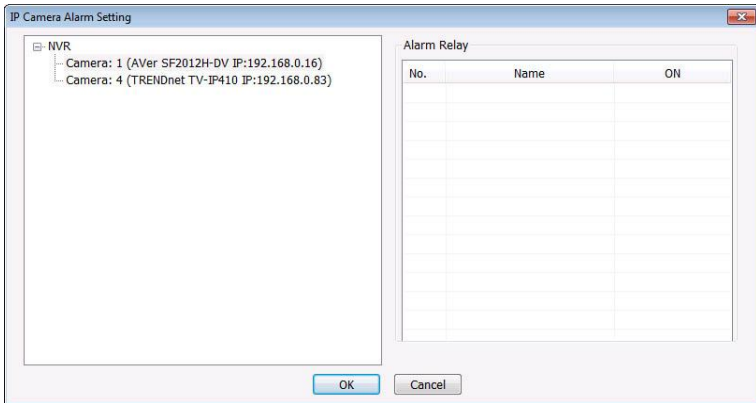
- **Enlarge Camera View**

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

- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
 - Ⓐ **Alarm Camera:** when a channel has an alarm occurred, and then, the channel video that has an alarm occurred will be enlarged on screen.
 - Ⓑ **Camera #:** the selected channel video that will be enlarged on screen when an alarm is activated.

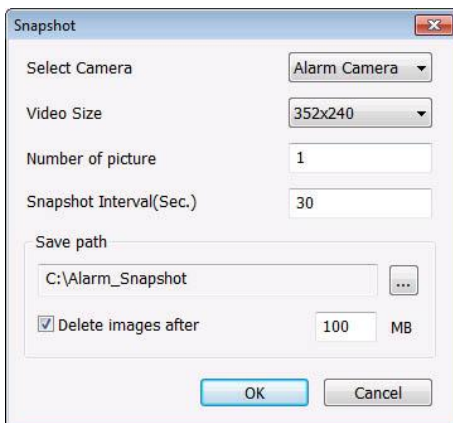


- b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 3~ 600 seconds.
- **Relay Output**
Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation (see also [Chapter 5.9.1](#)).
- **IP Camera Relay**
To trigger on/off IP camera relay.



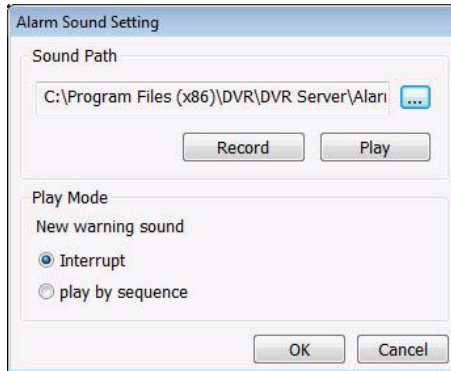
- **Play Warning Sound**
Play alarm sound. To setup click **Detail** (see also [Chapter 5.9.2](#)).
- **Send E-mail**
Send an electronic text message. To setup click **Detail** (see also [Chapter 5.9.3](#)).
- **File Transmission via FTP**
Upload file to remote computer thru FTP (File Transfer Protocol). To setup click **Detail** (see also [Chapter 5.9.4](#)).
- **Start Recording**
Record the video from the selected camera. To setup click **Detail** (see also [Chapter 5.9.5](#)).
- **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 [Chapter 5.9.6](#)).
- **PTZ preset point**
Position the PTZ camera based on the preset point setting. To setup click **Detail** (see also [Chapter 5.9.7](#)).

- **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 [Chapter 5.9.8](#)).
- **Send to CMS (Central Management System)**
Enable/disable the selected camera to send video to CMS when the alarm is activated (see also [Chapter 5.9.9](#))
- **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 #:** 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.
 - f. **Delete image after:** Set a snapshot images storage limit on hard disk. When the snapshot images storage limit has reached, the DVR system will delete the snapshot images from hard disk.



5.9.2 To Setup the Alarm Sound Setting

1. Next to 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.



5.9.3 To Setup Send E-mail Setting

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

The screenshot shows the 'E-Mail Setting' dialog box with the following sections and callouts:

- (1) Mail Server:** Includes fields for SMTP Server, port (25), Authentication (checked), SSL (unchecked), ID, and Password.
- (2) Mail:** Includes fields for From, To, CC, and Subject, and a large text area for the Message. A 'Test Account' button is located at the bottom right of this section.
- (3) Email Notice Setting:** Includes a Notice Interval (5 Minute), Embedded image (352x240, 1 frame), Attach image (Camera 1), and an unchecked checkbox for 'Attach alarm recording path'.
- (4) Modem Dial up Setting:** Includes an unchecked checkbox for 'Auto Dial up', a dropdown menu, and an unchecked checkbox for 'Auto Disconnect after:' (1 Minute).

Buttons for 'OK' and 'Cancel' are at the bottom right of the dialog box.

(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

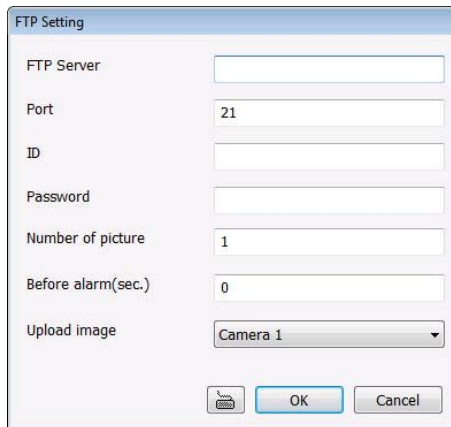
- **Notice Interval:** Set the period of time before it sends another e-mail notice.
- **Embedded image:** Select the image size and set the number of frames.
- **Attach image when sensor is triggered:** When the sensor is triggered, the system will capture the image and send the image to the certain 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.

5.9.4 To Setup FTP Setting

1. Next to the File Transmission via FTP check box, click **Detail**.
2. In the FTP Setting dialog box, enter the FTP IP, port, user ID and password.
3. In **Number of Pic** text box, enter the number of sequence images that want to send when file is transmitting.
4. If user wants to send the recorded image before alarm occurs, enter the time that before alarm occurs in Before alarm(sec.).
5. **Upload image:** User needs to select the camera that the images will be capture and send when the any alarm is triggered.
6. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.



The image shows a dialog box titled "FTP Setting". It contains the following fields and controls:

- FTP Server: [Empty text box]
- Port: [21]
- ID: [Empty text box]
- Password: [Empty text box]
- Number of picture: [1]
- Before alarm(sec.): [0]
- Upload image: [Camera 1 (dropdown menu)]
- Buttons: [Printer icon], [OK], [Cancel]

5.9.5 To Setup Alarm Recording Setting

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



5.9.6 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.

MMS Application V2.01

Modem Setup
ComPort : [] [v] [Enter Pincode]

Phone Num : [] [i]

SMS Setting
 Enable
Message Text : []
[SMS Test]

MMS Setting
 Enable
Login : [] Result : [N/A]
Password : [] Response : [N/A]
APN : [emome]
Wap Proxy IP : [10.1.1.1]
MMSC : [http://mms.emome.net:8002/]
[Import...] [Export...]
Subject : []
Attach image when sensor is triggered [Camera 1]
Message Text : []
[MMS Test]

[Save] [Cancel]

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.

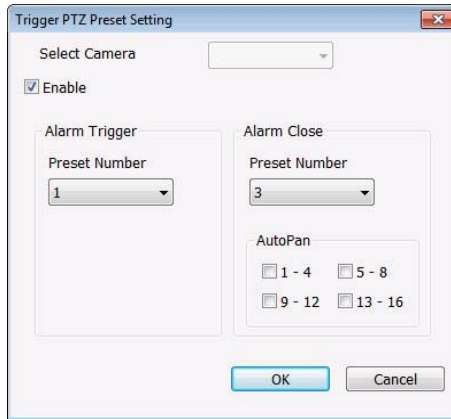


- Make sure your ISP provider and cell phone provider both support JPG file format transmitting.
- RS232 port can't be connected to SMS/MMS modem, you need to use USB to RS232 converter to connect

5.9.7 To Setup PTZ Preset Point

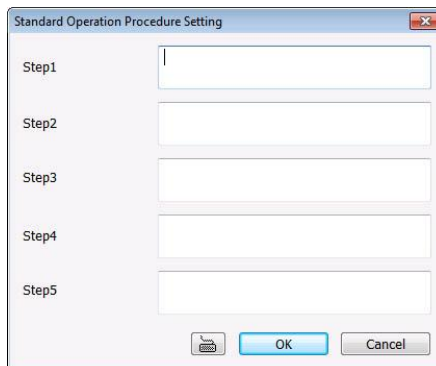
Next to the PTZ preset point check box, click **Detail**.

1. **Select Camera:** In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number.
2. **Enable:** Mark **Enable** check box to enable.
3. **Alarm Trigger:** Select the position of the PTZ camera when the alarm is activated
4. **Alarm Close:** Select the position of the PTZ camera when the alarm is ended.
5. **AutoPan:** For the PTZ camera ended point, user also can select **Auto Pan** preset position groups.
6. Click **OK** to accept the new settings and **Cancel** to exit without saving.



5.9.8 To Setup Alarm SOP:

Next to 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.



5.9.9 To Setup CMS Setting

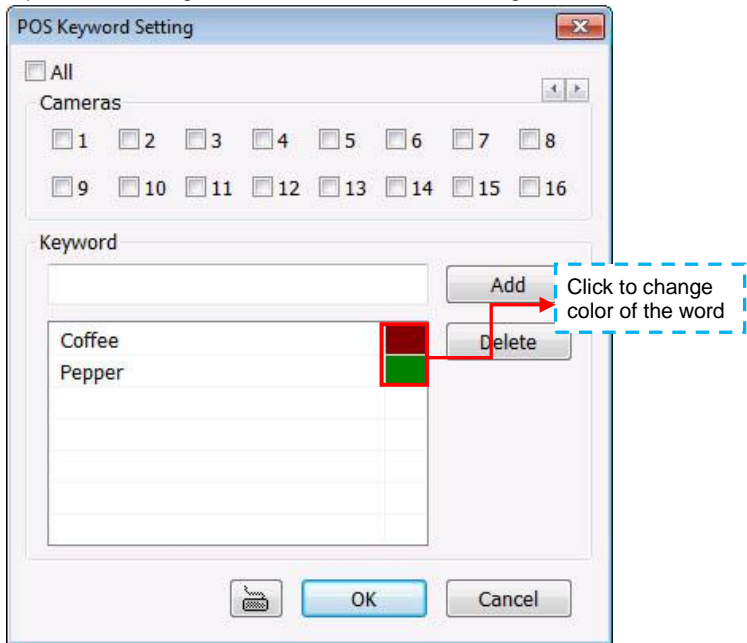
Next to the Send to CMS check box, click **Detail**.

- **CMS:** Select the camera to enable/disable sending the video to CMS.
- **Matrix:** Select the camera to enable/disable sending the alarm event video to CMS. The CMS site need to setup a matrix channel to receive the alarm event from DVR server site (please refer to CMS manual for detail)
- **Use transmitting IP address list:** Mark to enable and Set specific IP address of CMS server to receive the alarm video. When this function has enabled, only the IP address of CMS has added in Allow list can receive the alarm video from the this DVR server. The allow list is up to 32 IP addresses.

The screenshot shows a 'CMS Setting' dialog box. At the top, there are two radio buttons: 'CMS' (selected) and 'Matrix'. Below this is a section titled 'Transmitting Cameras' with a scrollable list of checkboxes numbered 1 through 16. Underneath, there is a checked checkbox labeled 'Use transmitting IP address list'. Below this checkbox is an 'Allow list' section containing a text input field labeled 'IP Address' and several empty lines for additional entries. At the bottom of the dialog are four buttons: 'ADD', 'Delete', 'OK', and 'Cancel'.

5.9.10 To Setup POS Keyword Setting

1. Next to 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.

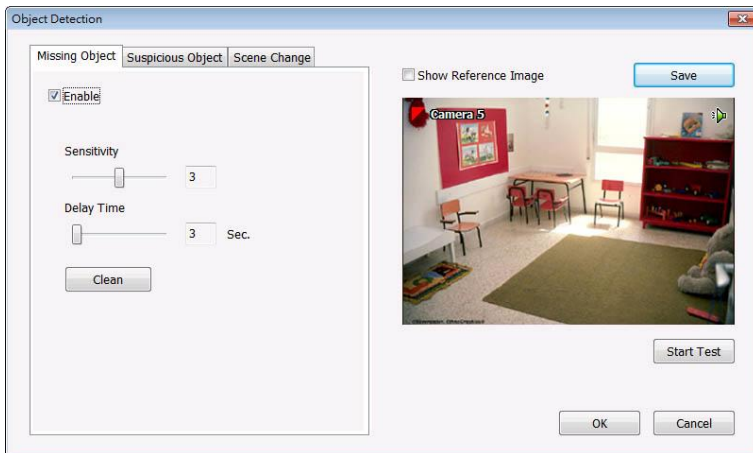


5.9.11 Missing, Suspicious Object, and Scene Change Detected

- 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.

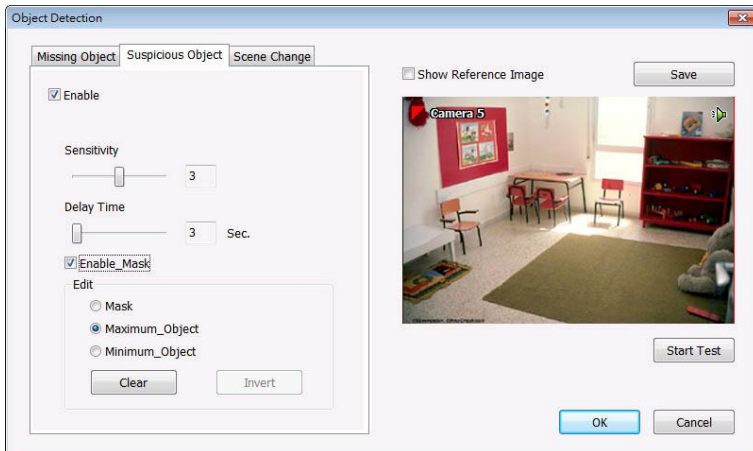


- Suspicious Object

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 Scene Change 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

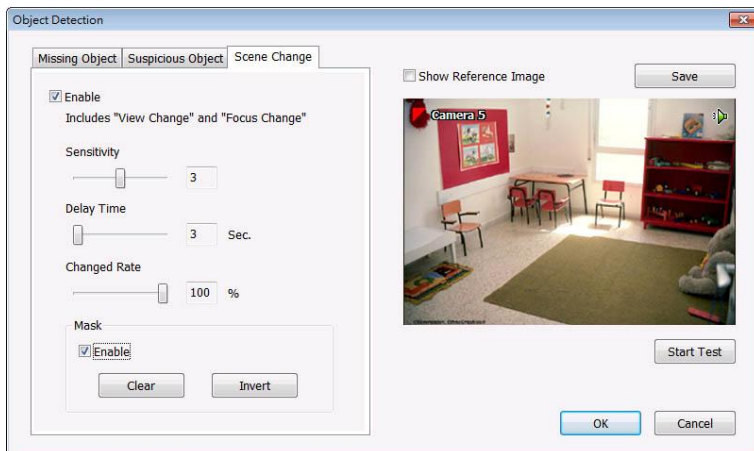


- Scene Change

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

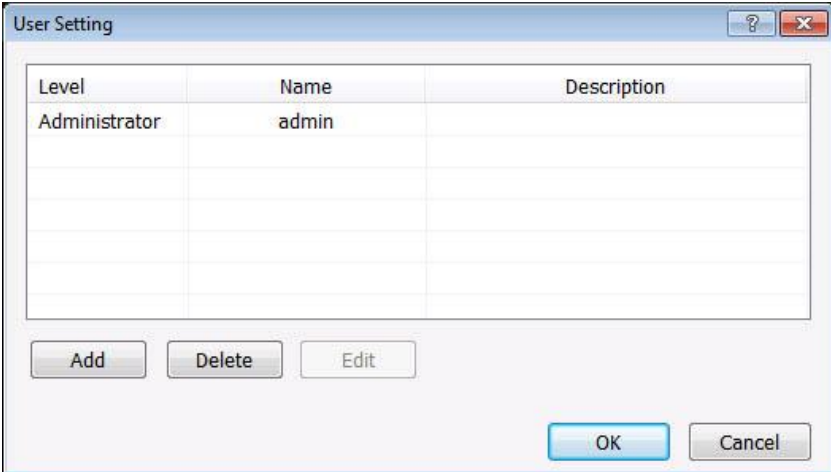
1. Select the camera number and press right button on the mouse to call up the setup windows. And then, click the **Scene Change Tab**.
2. Click **Save** to capture the image for comparing reference. To view the captured image, enable the **Show Reference Image** check box. The captured image will display 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.

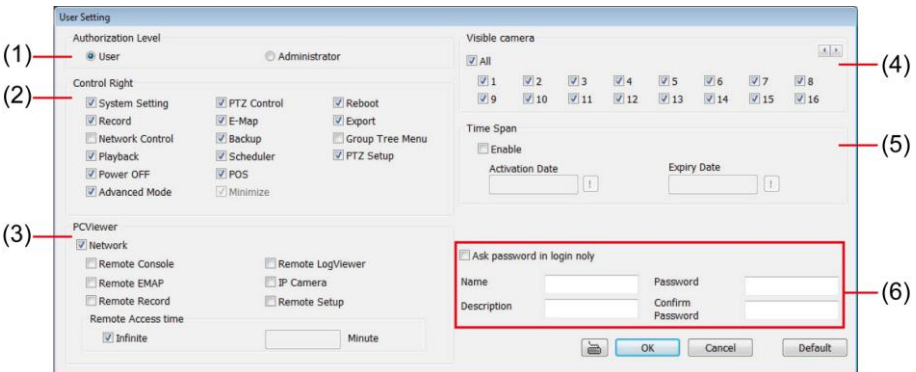


5.10 User Setting

Only users with **Administrator** privileges can access **User Setting**. 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) PCViewer

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.
- **Remote Record**
Allow the user to record video at remote site.
- **Remote Setup**
Allow the user to modify the DVR system setup from remote site.
- **IP Camera**
Enable/disable user to add new IP camera when using the Web Viewer.
- **Remote Access Time**
Enable **Infinite** check box to access DVR without time limit. If you want to set time limit, enter the number of minutes in **Minute** text box.

(4) Visible Camera

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

(5) Time Span

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

(6) Account Setting

- **Ask password in login only:** Mark to enable the password authentication only when login to the DVR server; there is no needed to enter password while operating DVR server's any functions such as setup, stop recording, stop network...and son on. The DVR server needs to restart to activate the function after mark the selection
- **Name:** Enter the user name.
- **Description:** Enter the user description.
- **Password:** Enter the user password.
- **Confirm Password:** Enter the same user password for confirmation.

Chapter 6 Playback Backup Video on PC

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

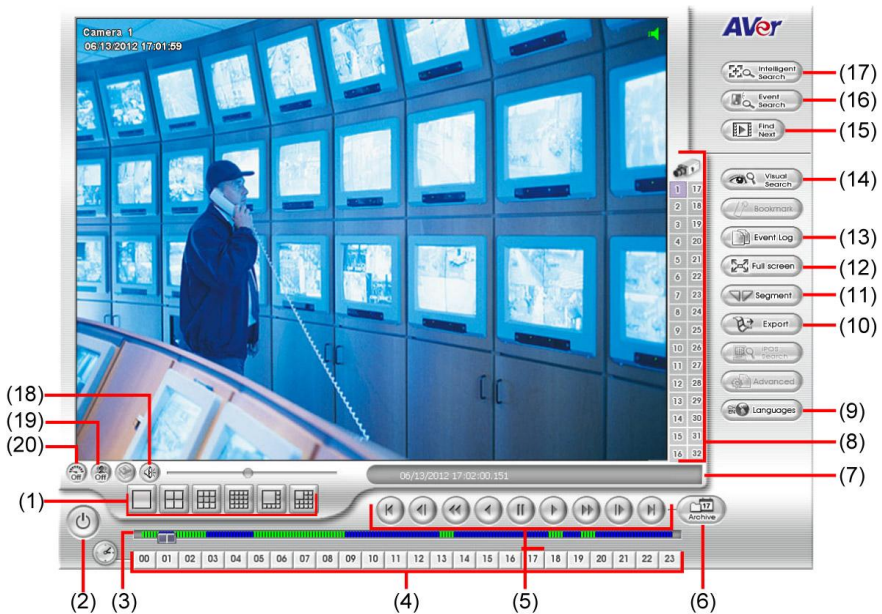
With QPlayer, supports 6 different split screen types to view all the video at the same time. User even can select the different language of function tip.

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



User can install QPlayer application from software CD, too.



6.1 Familiarizing the Buttons in QPlayer

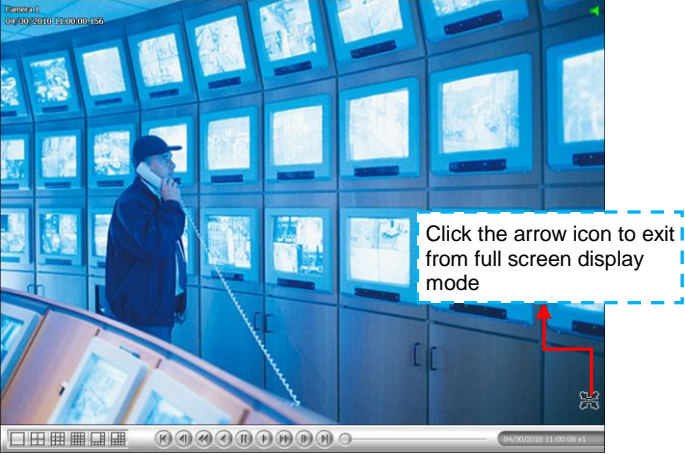




Name	Function
(1) Split Screen Mode	Select from 6 different split screen types to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
(2) Exit	Close the player.




- 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.
	<p>The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.</p>
(5) Playback Control Buttons	<p>From left to right order:</p> <p>Begin: Move at the beginning of the recorded video file.</p> <p>Previous: Go back to the previous frame.</p> <p>Slower: Play the recorded video file at the speed of 1/2X, 1/4X, 1/8X, or 1/16X.</p> <p>Rewind: Wind back the recorded video file.</p> <p>Pause: Briefly stop playing the recorded video file.</p> <p>Play: Play the recorded video file.</p> <p>Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x or 32x.</p> <p>Next: Go to the next frame.</p> <p>End: Go to the end of the recorded video file.</p>
(6) Archive	<p>Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.</p> <ul style="list-style-type: none"> - OPEN FILE: user can open the recorded file from HDD - Channel 01~ 16&Channel 17 ~ 32: Switch to different channel group of playback calendar. If DVR supports less than 16 channels (include 16 channels), the channel group switching button is non-functional. - Day Light Saving: the playback calendar will show the available video records during day light saving time period.
	<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) Language	Select the function tip display language.



Name	Function
(10) Export	Export includes Snapshot, Print, Output Video Clip, and Backup function. <ul style="list-style-type: none"> ■ Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format. ■ Print: Print the screen shot. ■ Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 6.1.1).
(11) Segment	Keep a portion of the recorded video (see also Chapter 6.1.1).
(12) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.  <p>Click the arrow icon to exit from full screen display mode</p>
(13) Event Log	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. Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 6.1.2)
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (See also Chapter 6.1.3)
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 6.1.4).
(18) Audio	Enable/disable volume

Name	Function
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.
(20) Turbo	<p>To improve the smoothness of live video. The default is enabled () , but in following situation:</p> <ul style="list-style-type: none"> - The channel is IP camera and is in 1 single screen. - The channel is remote DVR and is in 1 single screen. - The channel is analog camera, in 1 single screen, and decoding way is software decode <p>Turbo function setup is in depended for each channel. To turn off turbo function () , click turbo button.</p> <p>[Note] In multiple split screen mode, the turbo button is gray out.</p>


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

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





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




Right-click function is disabling for security issue.


6.1.2 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 .

6.1.3 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 **Find Next** () button.
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** and **End Time**. Set the **Searching Interval** time for in a period of time won't list out the same events. Then, click **OK** to start searching.
5. When the Event list appear, click and select the item you want to view.

6.1.4 To Search Using the Intelligent Search

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

Chapter 7 Using the Remote Programs

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

i PCViewer supports IE 8 and above.

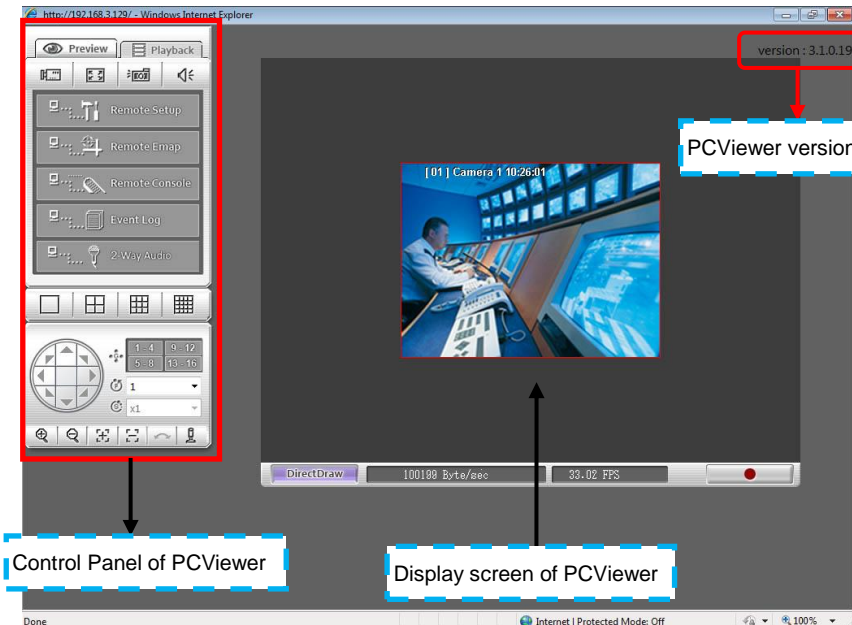
Accessing this feature for the first time you will be prompted by your browser to install PCViewX.cab, allow the installation and you should be able to connect and login afterwards.

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

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

i To have smooth remote frame rate, it's suggested to connect DVR by selecting **WAN (512K/64K)** as the Network Type on PCViewer.

After login, the PCViewer interface is displayed.



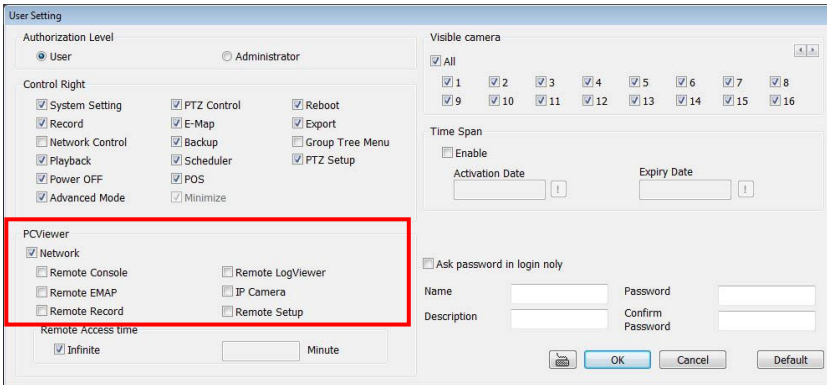
7.1 Familiarizing the Buttons in PCViewer

7.1.1 PCViewer Screen

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



- **Start Recording:** To operate the start recording on short-cut menu, the account authority that user uses to access DVR system needs to be enabled on User setting (see [Chapter 5.10](#)).



- **Select Camera:** Select a camera channel to view.
- **Enable DirectDraw:** Enable/disable DirectDraw function.
- **Video Quality**

The High, Medium, and low of video quality setting descriptions are list as below:

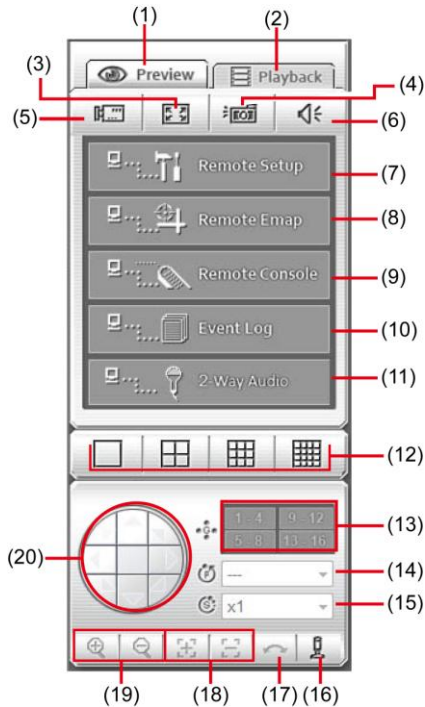
- The High is based on the setting in Recording setting(see [Chapter 5.3](#))
- The Medium is based on **default** value of Network Video Configuration in **Networking Setting**(see [Chapter 5.4](#)).
- The Low is based on the value of Network Video Configuration that user has setup in **Network Setting**(see [Chapter 5.4](#)).




Adjusts video quality only support on analog camera channel.

- **Server Information:** The server information is shown DVR server's information, not the PC that user has to connect with DVR server.

7.1.2 PCViewer Control Panel



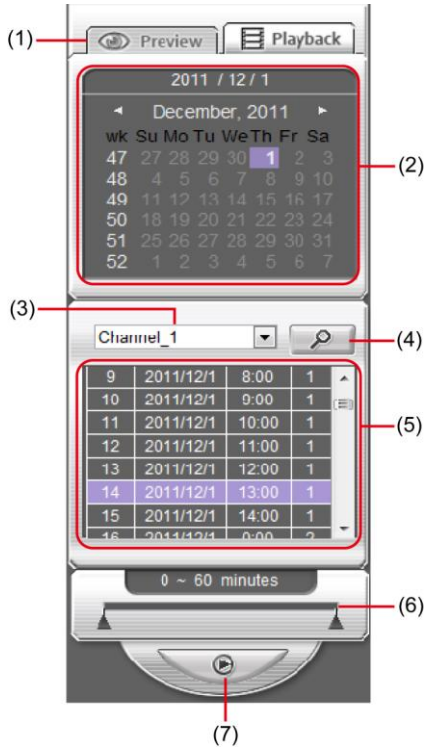
Name	Function
(1) Preview Mode	Switch to preview mode control panel.
(2) Playback Mode	Switch to playback mode control panel(see also Chapter 7.1.3)
(3) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press ESC on the keyboard.
(4) Snapshot	Capture and save the screen shot in *.bmp format.
(5) Select cameras to view	Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera. Click Add Server and select the server type between DVR and IP Cam to add. Click Delete Server to delete the selected item. Click Import to load the previous saved list. Click Export to save the list. Click Apply All to change all the camera video quality based on the selected setting.

Name	Function
(5) Select cameras to view	<p>Click OK to exit.</p> <hr/> <p> To add IP Cam, user need to enable IP Camera control right at the User setting of DVR system.</p> <hr/>
(6) Audio	Enable/disable remote sound.
(7) Remote setup	Change the DVR server settings (see also Chapter 7.1.4).
(8) Remote Emap	Display the DVR server Emap screen.
(9) Remote Console	Initiate Remote Console. The interface is the same as DVR application and allows you to control DVR server (see also Chapter 7.2). Remote Console application can be installed from Software CD, too.
(10) Event Log Viewer	Display the Event logs, Operation logs, POS logs, System logs, and Network logs.
(11) 2-Way Audio	<p>Enable/disable 2-way audio function. This function allows the client and server to talk via internet using MIC.</p> <p>Make sure your microphone and speakers work before using this function. If the DVR server Talk to web-client setting is disabled, you won't be able to hear from the other side.</p>
(12) Split screen view	Select from four different split screen types to view all the cameras.
(13) Auto Pan Group	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(14) Camera preset position number	Move the PTZ camera to the preset point.
(15) Direction buttons' moving speed	Adjust the moving speed of the PTZ camera lens. This speed will apply to the (20) Direction buttons' moving speed only.
(16) Select PTZ	<p>Choose to enable/disable the PTZ camera. In the Select PTZ dialog box, Select column, click to enable/disable viewing and controlling the PTZ camera.</p> <p>Click OK to exit and save the setting and Cancel to exit without saving the setting.</p>
(17) Atuo Pan	Enable the PTZ cameras automatically based on the selected camera group preset position number.
(18) Zoom +/-	Zoom the image in or out.
(19) Focus +/-	Adjust the focus manually to produce clear image.
(20) Direction Buttons	Adjust and position the focal point of the PTZ camera. The supported direction buttons are depended on the PTZ camera has supported.

7.1.3 Playback Mode Control Panel



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



Name	Function
(1) Preview Mode	Switch to preview mode control panel
(2) Date	Select the date that user wants to playback. Click ◀ ▶ icon can switch month and year. The selected date is highlight with purple color.
(3) Channel	After select the date, please select the channel that user wants to playback or select all channels.
(4) Search button	After selected date and channel, click search button to find the recorded file. The result of search result is displayed below area.
(5) Search result	Display the search result that is searched base on the date and channel user has selected. Select the recorded time file in result table and click play button to playback.

Name	Function
(6) Playback time progress bar	User can setup the certain time period for playback. The recorded file default is playback in 60 minutes long. User can adjust to the specific time period to playback instead to move the scroll bar while playback.

(7) Play button

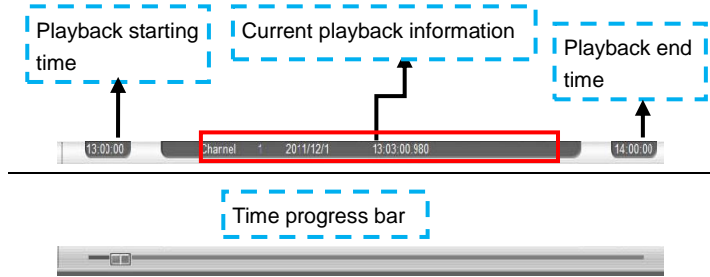
After select the file, click it to start playback.



Move to the begin



Move to the end



7.1.4 To Setup Remote System Setting

There are two type of remote setup mode – Basic Setting and Advance Setting. Select the setup mode and click **OK** to enter setup window.

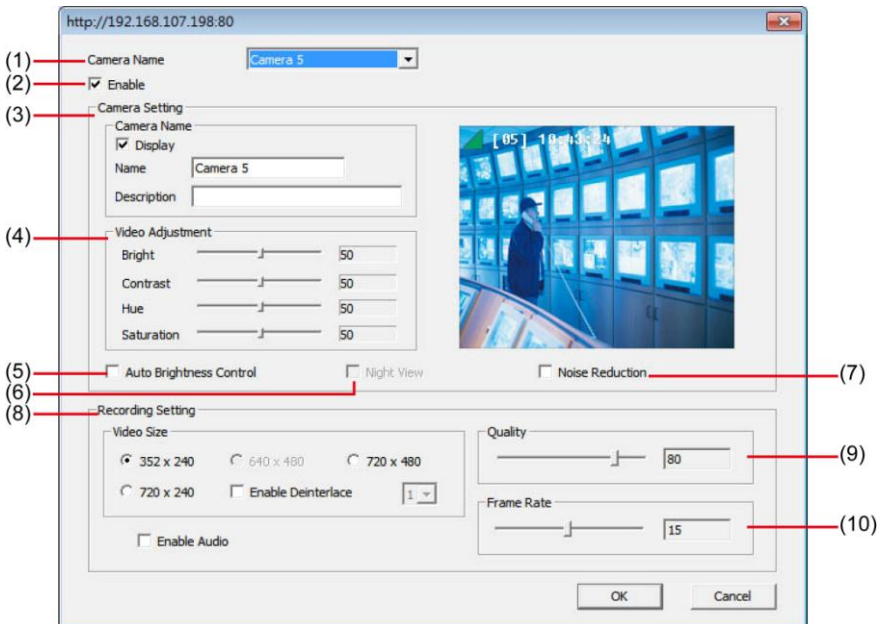


7.1.4.1 Basic Setting

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



Some of functions don't support for IP camera channel.



(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 Setting

- **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) Auto Brightness Control

Automatically adjust the brightness.

(6) Night View

Automatically adjust the exposure to make the image more visible especially when the site is dark.

You can only use this function when the Auto Brightness Control is enabled.

(7) Noise Reduction


Reduce undesirable video signal and improve the quality of the video.



Noise Reduction uses lots of CPU resource. Please use this feature only if it is really necessary.

(8) Recording Setting

- **Video Size**

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.

- **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.

- **Quality**

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

- **Frame Rate**

Set the number of images per second of the video to be recorded. The higher frame rate, it uses more hard disk space.

7.1.4.2 Advance Setting

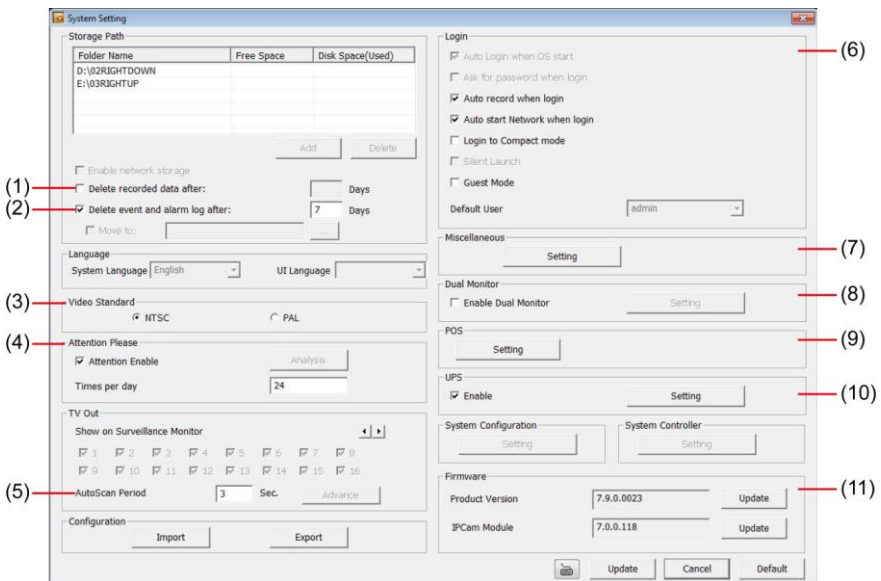
In PCViewer UI, click Remote Setup button to configure setting of the remote DVR server. After click Remote Setup button, the setup menu bar will appear as below shown:



Click the setup selection to enter the setup window. To exit setup menu bar, click **OK**.

System Setting

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



(1) Delete recorded data after

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

(2) Delete event and alarm log after

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

(3) Video Standard

Change and select the proper video system according to your camera video system. If the video system setting is wrong, the video would appear abnormal.

(4) 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. 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**.

(5) AutoScan Period

Set the TV out display time gap from 3 to 10 sec. before it switches to the next camera.

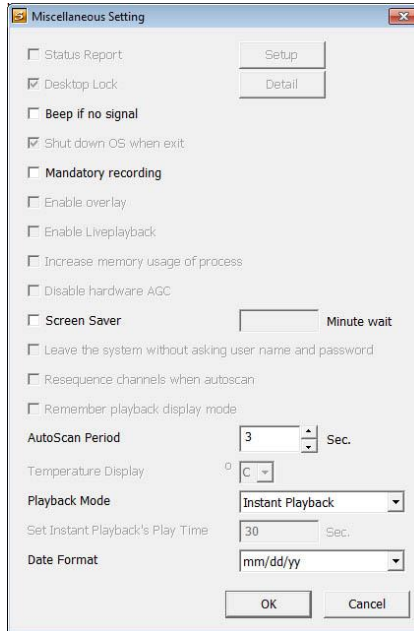
(6) Login

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.
- **Auto start Network when login**
Automatically connect to network when the DVR is executed.
- **Login to Compact mode**
Switch to compact mode directly when the DVR is executed.
- **Guest Mode**
Automatically log in Guest mode when the DVR is executed. In guest mode, the functions are limited to preview and playback only.

(7) Miscellaneous

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



- **Beep if no signal**
Make sound when the video signal is lost.
- **Mandatory Record**
Always record video when software is running
- **Screen Saver**
Set a period time to enter screen saver mode when system idle.
- **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.
- **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

(8) Dual Monitor

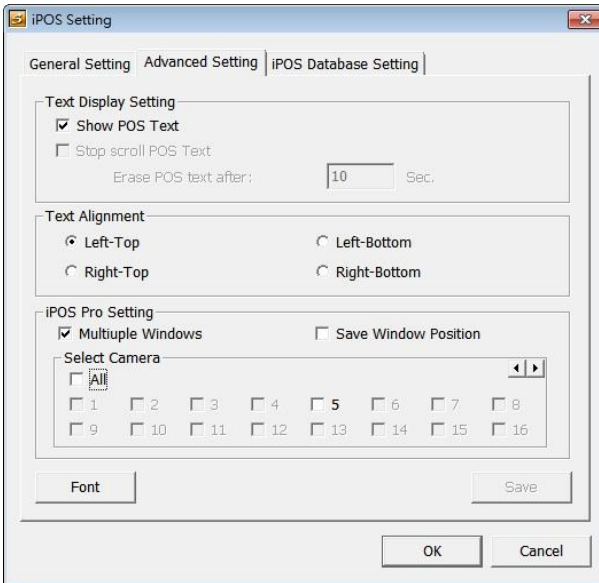
Enable/disable dual monitor function.

(9) POS

■ Advanced Setting

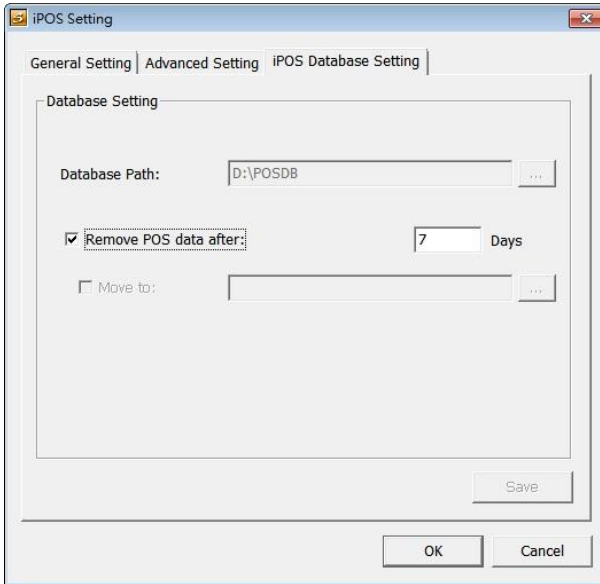
Set from which camera screen to display the data from the POS equipment. To set the text flow, color format, and POS database export, click **Advanced**.

1. Mark **Show POS Text** to allow POS data to be display on surveillance screen.
2. Select the POS data display position on surveillance screen – Left-Top, Left-Bottom, Right-Top, or Right-Bottom.
3. To change the POS data font and color, click **Font**.
4. Mark **Remove POS data after** the POS data will be delete from DVR hard disk on the day that user has setup.



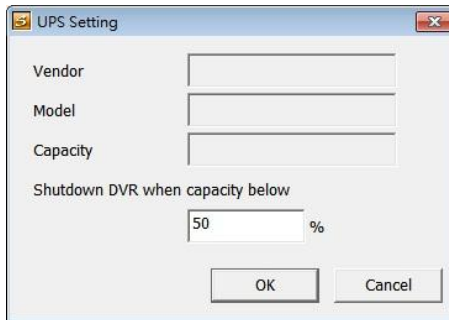
■ iPOS Database Setting

Enable **Multiple windows** for viewing multi-channels of iPOS live data. To save the iPOS live data window position on the preview mode, mark the **Save Window Position**. To select all channels, mark **All** check box.



(10) UPS (Uninterruptible Power Supply)

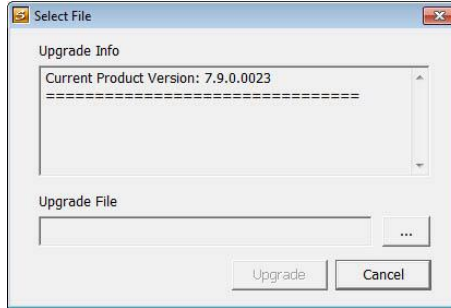
Protect the system from damaging, such as power surges or brownouts. This automatically gives time to close the DVR properly when the battery backup power has reached the Shutdown when capacity below percentage level setting. The UPS device must be connected to your DVR server. User can set the UPS capacity percentage to shutdown DVR if the regular power still not support.



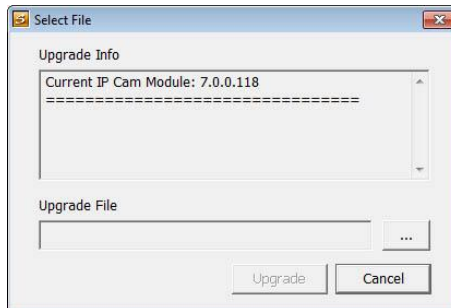
(11) Firmware

User can upgrade the DVR system patch and IP camera patch from remote site. Please contact your local dealer for newest DVR system patch and IP camera patch.

- **Product Version:** displays current DVR system firmware version. Click **Update** button to upgrade the NVR system patch.



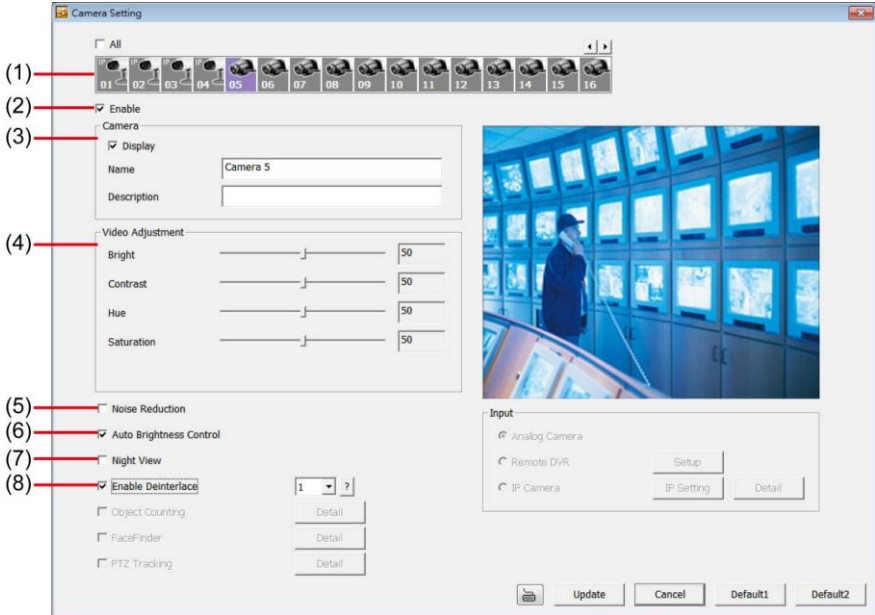
- **IPCam Module:** displays current IP camera patch version. Click **Update** button to upgrade the IP camera patch.



Camera Setting

■ Analog Camera

Select the camera from remote DVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Cancel** to exit without saving, and click **Default1/ Default2** to revert back to original factory settings.



(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) Video Adjustment

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

(5) Noise Reduction

Reduce undesirable video signal and improve the quality of the video.



Noise Reduction uses lots of CPU resource. Please use this feature only if it is really necessary.

(6) Auto Brightness Control

Automatically adjust the brightness.

(7) Night View

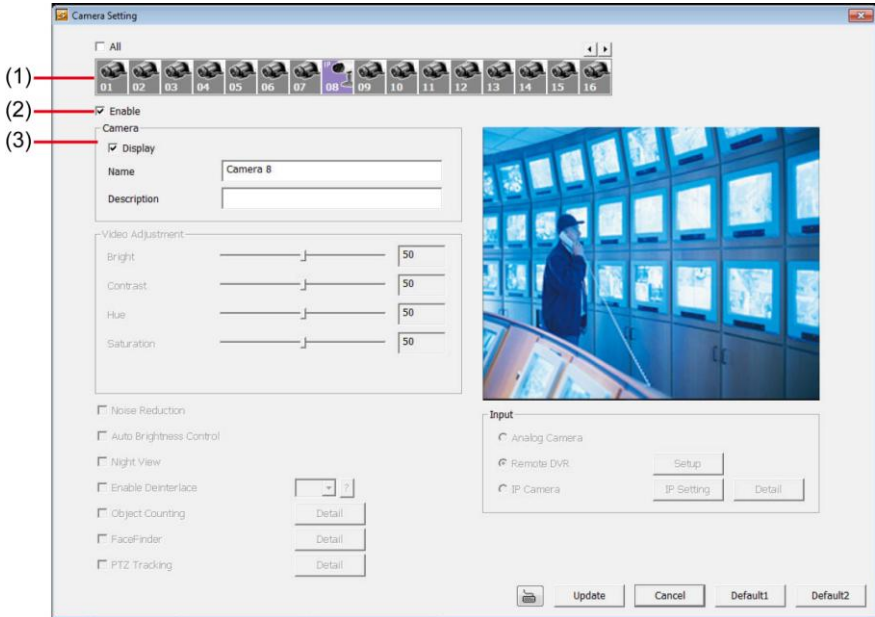
Automatically adjust the exposure to make the image more visible especially when the site is dark. You can only use this function when the ***Auto Brightness Control is enabled.***

(8) Enable Deinterlace

To enhance the video quality. Set the deinterlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

■ IP Camera

Select the camera from remote DVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Cancel** to exit without saving, and click **Default1/ Default2** to revert back to original factory settings.



(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.

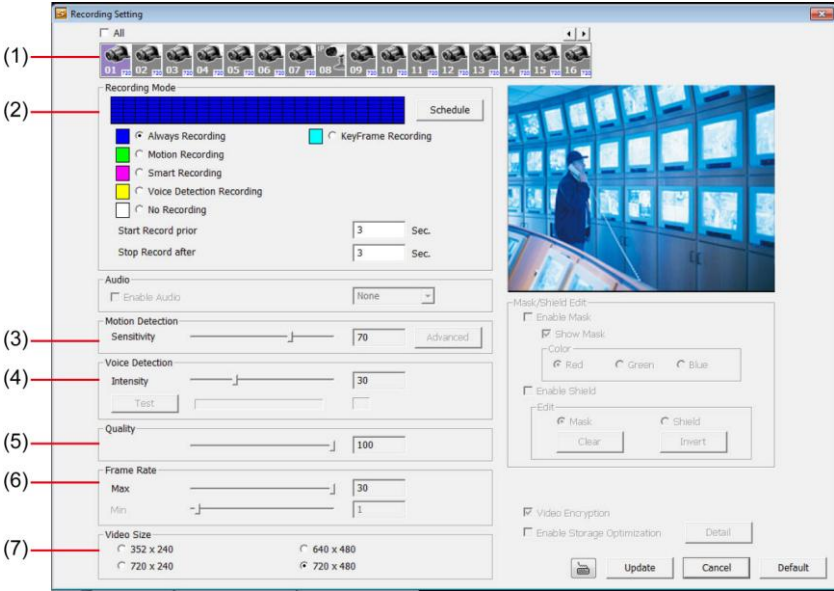
- Description

Add a short comment.

Record Setting

■ Analog Camera

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

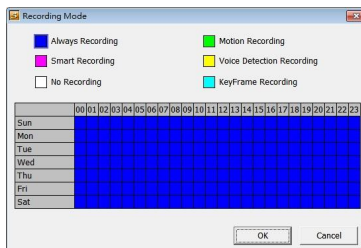


(1) Camera Icons

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 **Schedule** button and click colored block, then click on the time blocks in Recording Mode window. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

- **Always Recording**
Record the video from the selected camera and save it to the designated storage path
- **Motion Recording**
Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.
- **Smart Recording**
Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting. Set the maximum and minimum frame rate setting in **(6) Frame Rate** section.
- **Voice Detecting Recording**
DVR system will record the sound when the voice exceeds the intensity value in Voice Detection setting.
- **No Recording**
The system won't do any recording.
- **KeyFrame Recording**
Only record one frame per second.

(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) Voice Detection

Adjust the intensity of the audio detector. The system detects sound when it exceeds the intensity value.

(5) Quality

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

(6) Frame Rate

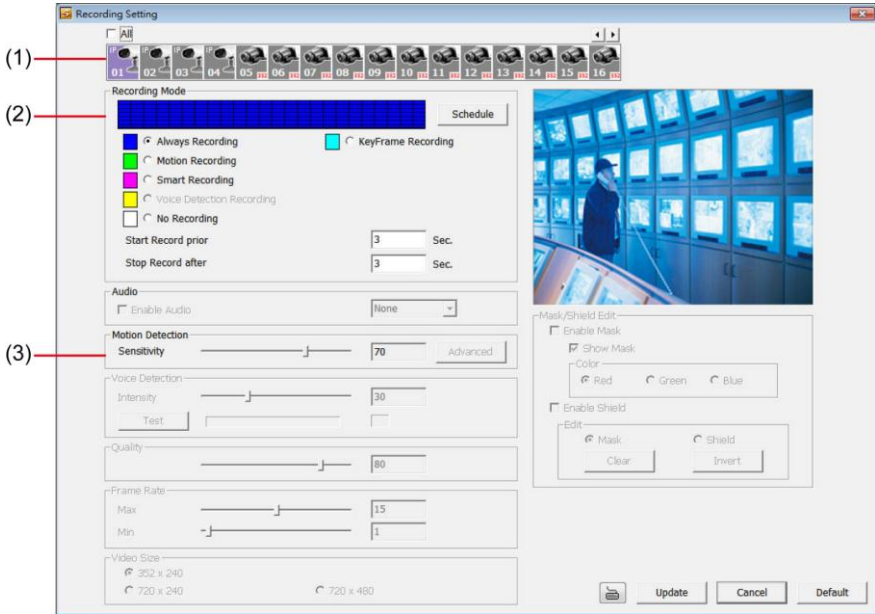
Set the maximum number of frames to be recorded during motion and motionless state. The frame rate ranges from 1 to 30 for NTSC and 1 to 25 for PAL. The higher the frame rate, it uses more hard disk space.

(7) Video Size

User 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.

■ IP Camera

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

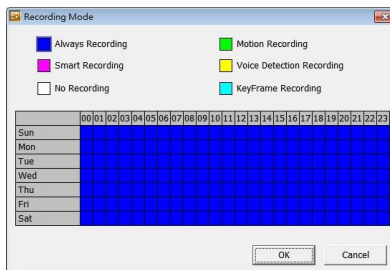


(1) Camera Icons

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 **Schedule** button and click colored block, then click on the time blocks in Recording Mode window. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

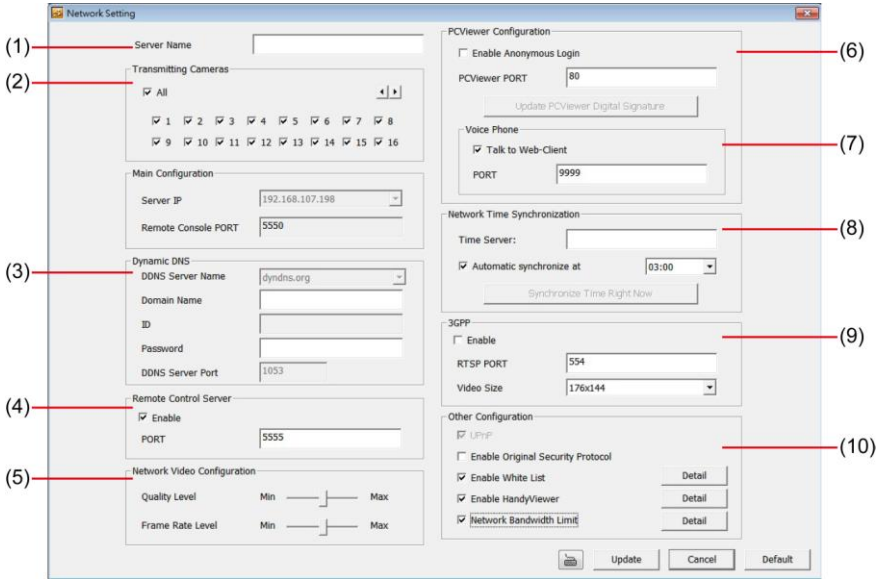
- **Always Recording**
Record the video from the selected camera and save it to the designated storage path
- **Motion Recording**
Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.
- **Smart Recording**
Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.
- **No Recording**
The system won't do any recording.
- **KeyFrame Recording**
Only record one frame per second.

(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.

Network Setting

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



(1) Server Name

Assign a name for the DVR unit. Letters of the alphabet and numbers only.

(2) Transmitting Cameras

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

(3) Dynamic DNS (Domain Name System)

Enter the Domain Name and Password the user has setup when applied a DDNS. To use this feature, go to <http://ddns.avers.com.tw> or <http://dydns.org> to register. (see also [Appendix A](#)). Use this service if the IP address changes each time when you connect to internet.

(4) Remote Control Server

Enable/disable remote control from remote application (ex. CMS). Enter the remote accessing port in **Port** column.

(5) 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 **Frame Rate Level**.

(6) PCViewer Configuration

Activate **Enable Anonymous Login** to remotely access the DVR server without the need of password. The default of PCViewer port is 80.

(7) Voice Phone

Voice Phone is a 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 WebCam 2-Way Talk button is activated. The default port of voice phone is 9999.

(8) 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.

(9) 3GPP

Enable 3GPP that allows user to use browser on the mobile phone to view recorded video. Just enter the http:// DVR server IP address/3GPP on the browser of mobile phone, and then, user will receive the recorded video from DVR server. Fill the RTSP PORT for 3GPP connection. Select the video size for transmitting to user's browser on the mobile phone.

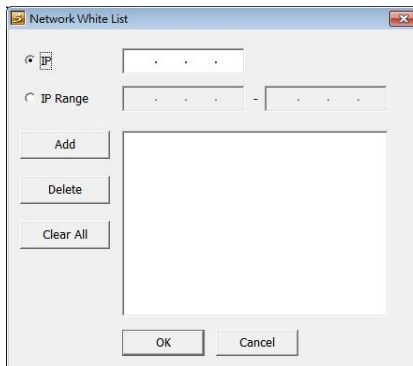
(10) Other Configuration

- **Enable Original Security Protocol**

Enable new version DVR system to accept remote software with former version. For example, if user uses CMS version 7.7 and connect to DVR server with version 7.9, and then, user has to enable this option to make it work. It is due to that DVR system has some new security protocol in DVR with version 7.7 and newer version, and it's not compatible with old remote software.

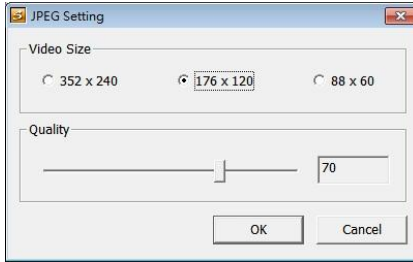
- **Enable White List**

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 HandyViewer**

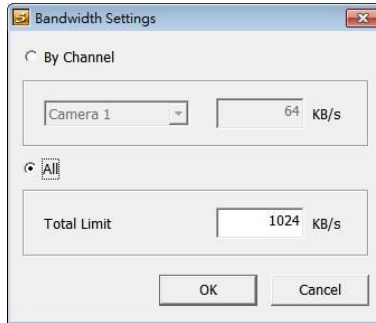
Enable remote users to use a PDA or a mobile phone to access DVR server and select the video size and quality.



- **Network Bandwidth Limit**

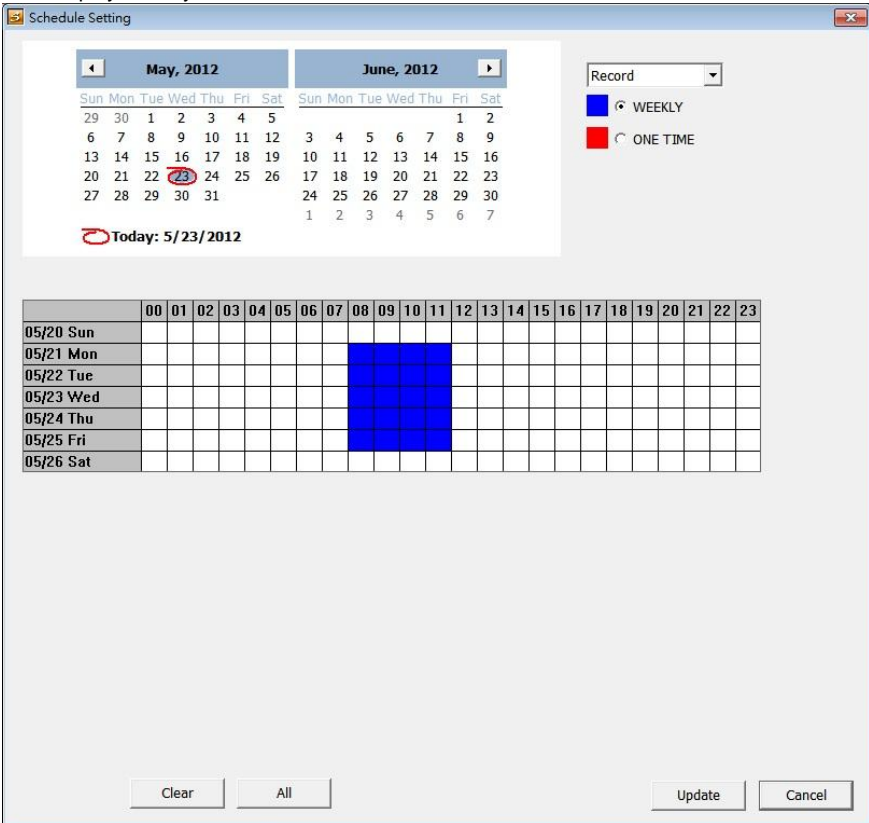
✓ **By Channel:** Set the network bandwidth by each channel.

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



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:

1. Select the date in the calendar. Use and buttons to shift the calendar to the left or right.
2. Select the condition you want to schedule in the drop down list.
 - **Record**
Activate all the cameras to start video recording at the set time based on the Recording setting (see also [Chapter 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.
 - ✓ **Mirror Backup:** Save a copy of all the data at the set time and specified backup path.

✓ **Incremental Backup:** Only backup the data that are not yet included in the archive from last time.

- **Network**

Activate DVR remote system to access at the set time. After the appointed time, the Network function will be disabled. If the Network function is already enabled, the Network function will not be disabled when the appointed time has ended.

- **Reboot**

Restart the PC at the appointed time.

- **Disable Alarm**

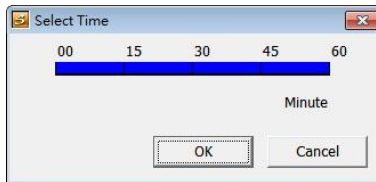
Deactivate the alarm at the set time temporarily.

- **Turn on Relay**

Activate the relay at the set time. Number of relays are depending on the relays has connected with DVR system.

3. Specify to either schedule it weekly or one time. Click ☉ to make a selection.

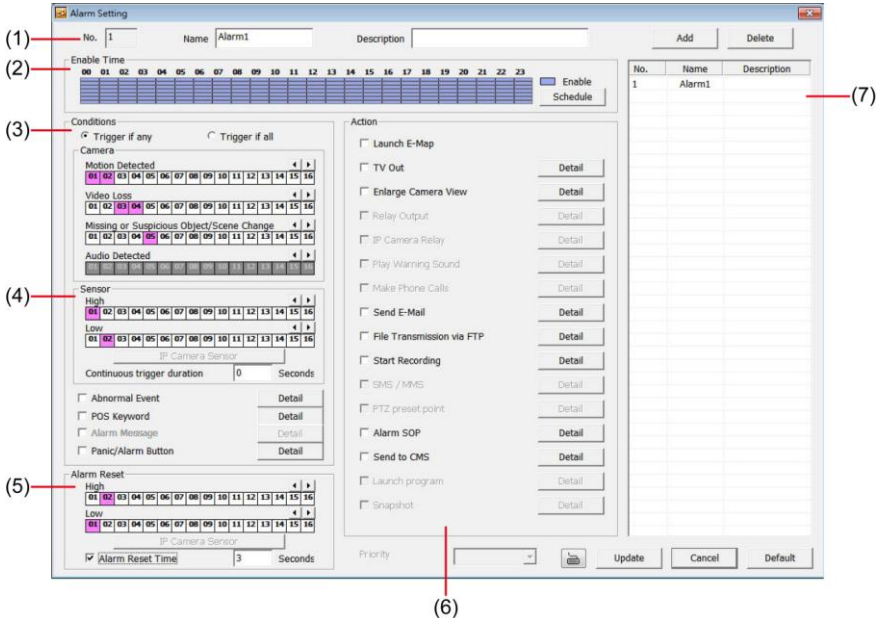
4. **Right click** the colored blocks to set the schedule. In the Select time dialog box, click to enable or disable the portion user want to set. Click **OK** to accept the setting and **Cancel** to exit without saving the setting.



5. User also can click **All** to select all. To store the setting, click **Update**. To remove the settings, click **Clear**. Click **Cancel** to exit without saving the setting.

Alarm Setting

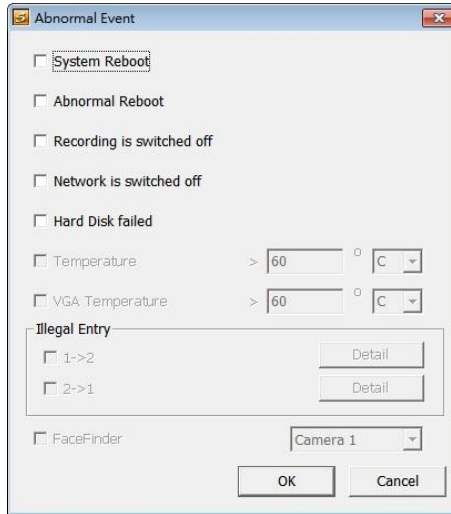
In the Alarm Setting window, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **OK** to exit and save the setting, **Cancel** to exit without saving, and **Default** to revert back to original factory settings.



To set the Alarm Setting:

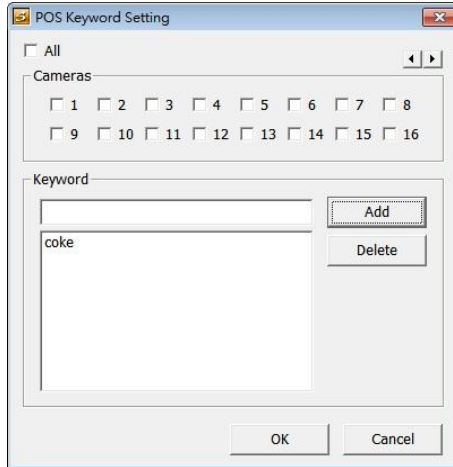
1. Click **Add** to insert and set a new alarm setting. Click the items in the **(7) Alarm Setting List**, if you want to modify the alarm setting.
2. In **(1) Alarm Setting number/Name/Description**, display the selected alarm setting number in the list below. Enter alarm name and description.
3. In **(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 enable or disable the alarm function. When it is “disable” 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 in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
 - In **Missing and Suspicious Object/Scene**, click the camera number 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 [Chapter 5.9.11](#)) In **Scene Change**, when the camera has been moved, the system will alarm, too.

- In **Audio Detection**, click the camera number to the system to alarm when detect the abnormal voice.
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.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
 - **Abnormal Event:** Enable/disable to set the condition of the event for system to alarm.

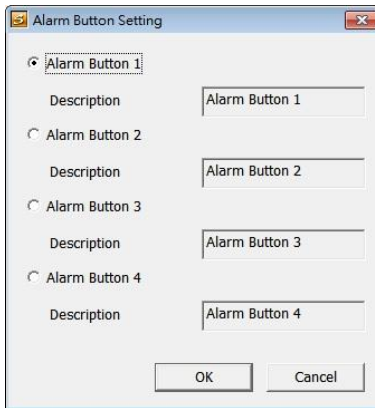


- ✓ **System Reboot:** when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- ✓ **Abnormal Reboot:** when the DVR system reboot in irregular condition, the system will send out the alarm message.
- ✓ **Recording is switched off:** when the recording has been 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.

- **POS Keyword:** Enable/disable to scan the data from the POS if it matches the keyword.



- **Alarm Button:** Enable/disable to active manual alarm function. To define alarm message of manually alarm trigger. Click alarm button and select the alarm button # and fill in the description of alarm button.



- In **(5) Alarm Reset**, click the camera number (use ◀ and ▶ to select the alarm) 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.
 - **Alarm Reset Time:** Set a time for the alarm auto reset. When an alarm happen such as motion detected and video loss, the alarm will reset at the alarm reset time.
- In **(6) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.

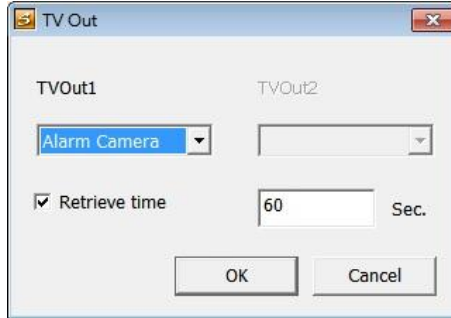
- **Launch E-Map**

Display mini Emap on screen.

- **TV Out**

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

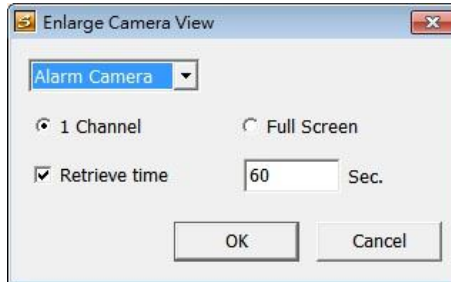
- ✓ **Retrieve time:** set the waiting duration before system switching back to original display mode on TV automatically. If the retrieve time is un-mark, the alarm video will keep displaying until user switch back to normal display mode manually.



- **Enlarge Camera View**

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

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



- **Send E-mail**

Send an electronic text message. To setup click **Detail** (see also [To Setup Send E-mail](#)).

- **File Transmission via FTP**

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

- **Start Recording**

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

- **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 [To Setup Alarm SOP](#)).

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

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

To Setup Send E-mail Setting

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

The screenshot shows the 'E-Mail Setting' dialog box with the following details:

- Mail Server:** SMTP Server (empty), Port: 25. Authentication. ID (empty), Password (empty).
- Mail:** From: (empty), To: (empty), CC: (empty), Subject: (empty). Message: (empty text area). Test Account button.
- Email Notice Setting:** Notice Interval: 5 Minute. Embedded image: 352x240, 1 (frames). Attach image when sensor is triggered: Camera 1.
- Modem Dial up Setting:** Auto Dial up. Auto Disconnect after: 1 Minute.

- **SMTP 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.
- **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.

■ Email Notice Setting

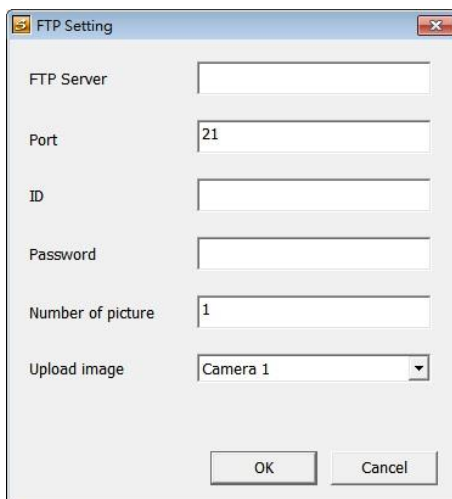
- **Notice Interval:** Set the period of time before it sends another e-mail notice.
- **Embedded image:** Select the image size and set the number of frames.
- **Attach image when sensor is triggered:** When the sensor is triggered, the system will capture the image and send the image to the certain e-mail address with the alarm message.

■ Modem Dial up Setting

User may set the time to disconnect automatically, just enable the **Auto Disconnect after** check box and set time.

To Setup FTP Setting

1. Next to the File Transmission via FTP check box, click **Detail**.
2. In the FTP Setting dialog box, enter the FTP IP, port, user ID and password.
3. In **Number of Pic** text box, enter the number of sequence images that want to send when file is transmitting. The maximum number of picture can be transmitted are 16.
4. 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.



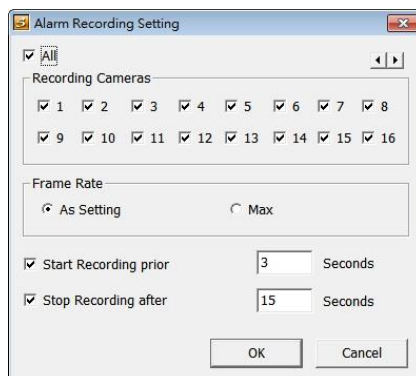
The screenshot shows the 'FTP Setting' dialog box with the following fields and values:

FTP Server	
Port	21
ID	
Password	
Number of picture	1
Upload image	Camera 1

Buttons: OK, Cancel

To Setup Alarm Recording Setting

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



The screenshot shows the 'Alarm Recording Setting' dialog box with the following settings:

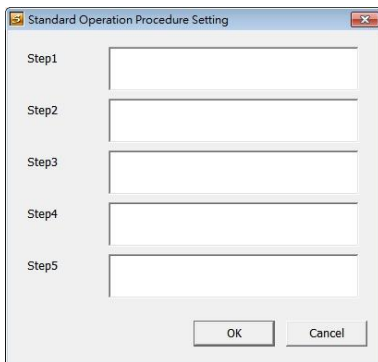
- Recording Cameras: All (checked)
- Recording Cameras list: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 (all checked)
- Frame Rate: As Setting (selected), Max (unselected)
- Start Recording prior: 3 Seconds (checked)
- Stop Recording after: 15 Seconds (checked)

Buttons: OK, Cancel

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.

To Setup Alarm SOP

Next to 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.



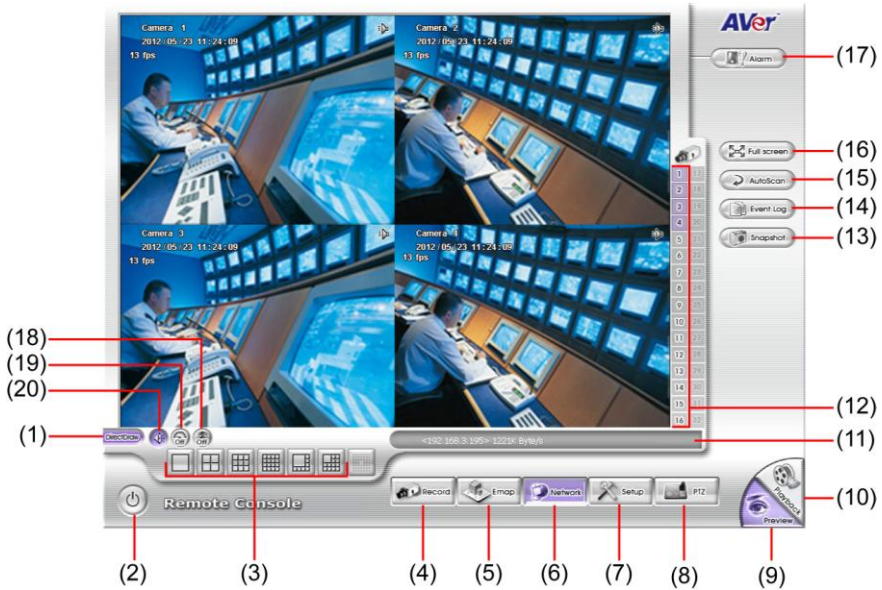
To Setup CMS Setting



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




7.2 Familiarizing the Buttons in Remote Console

Click **Remote Console** button on PCViewer control panel to download the remote console application or user can install remote console application from software CD (Install Web Tool).

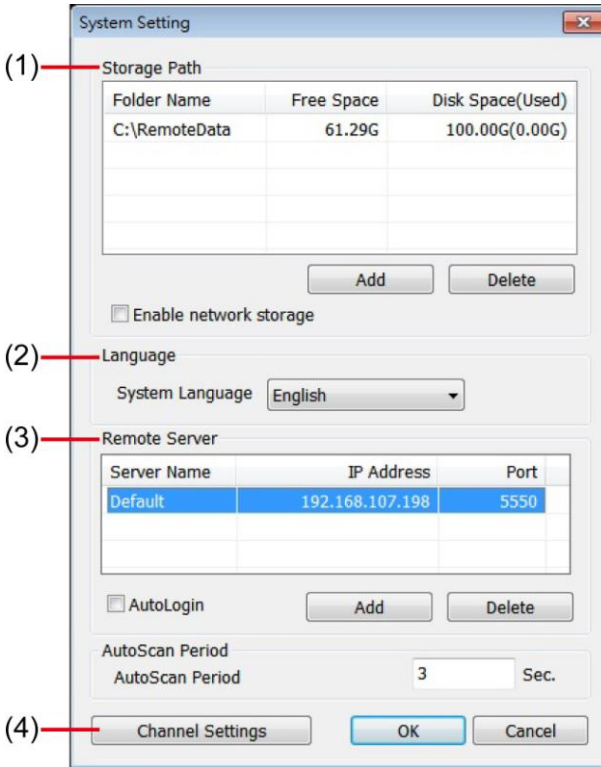


Name	Function
(1) DirectDraw	Enhance the video quality.
 Not all graphic cards can support this function.	
(2) Exit	Close the Remote Console.
(3) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
	<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 and Normal. - The IWH DVR series don't support 32-split screen display mode.
(4) Record	Start/stop video recording.
(5) Emap	Display the map in each area, the camera/sensor/relay location and the warning event.

Name	Function
(6) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.
(7) Setup	Configure the Remote Console setting. (see also Chapter 7.2.1)
(8) PTZ	Access PTZ control panel. Beside PTZ camera, DVR system also support mega pixel IP camera.(see Chapter 7.2.2)
(9) Preview	Switch to Preview/Advanced mode. This allows you to view live camera display.
(10) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see Chapter 7.3)
(11) Status Bar	Display the current date, time and hard disk free space.
(12) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(13) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(14) Event log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(15) Auto Scan	Click it to start channel auto cycle display.
(16) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press ESC on the keyboard.
(17) 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.
(18) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.
(19) Turbo	To improve the smoothness of live video. Turbo button is disabled () in default. When turbo button is enabled or disabled that applies to whole DVR system, not the specific channel. When restart or shutdown DVR/NVR system, the current turbo status won't be saved by DVR/NVR system.
(20) Volume	Enable/disable the sound.

7.2.1 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

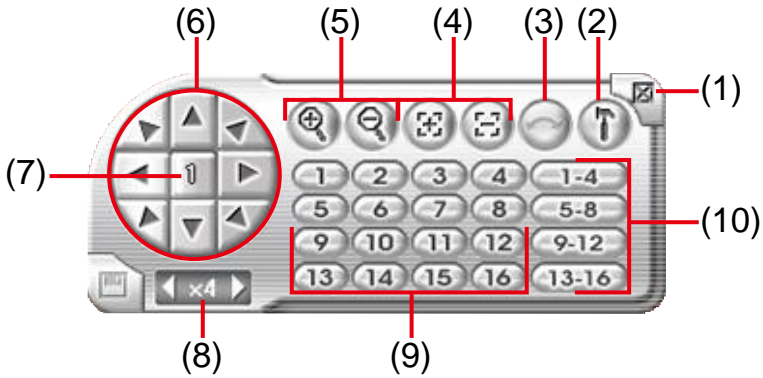
Enter the DVR Server IP and Port number.

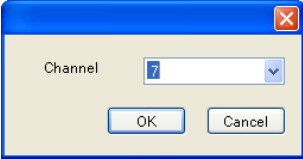
(4) Channel Settings

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.



7.2.2 Familiarizing the Buttons in PTZ Camera Controller



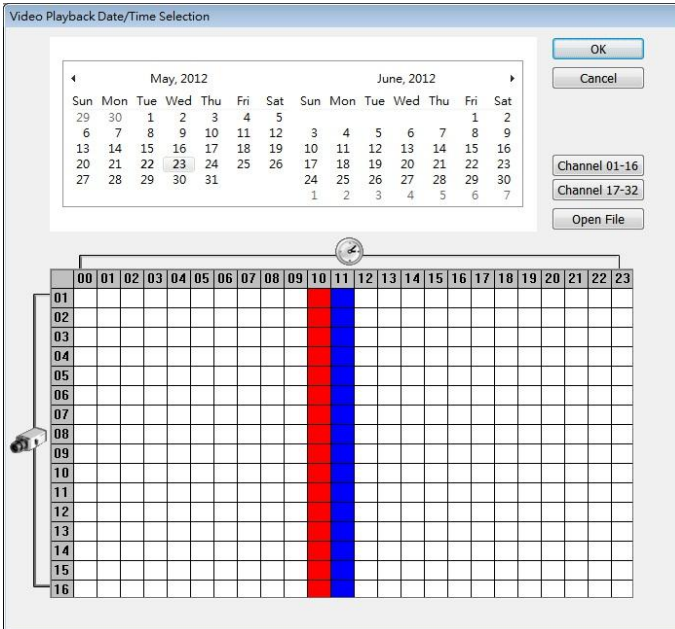
Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Select the PTZ camera channel.
	
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the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

7.3 Using the Remote Playback

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



In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera number. To switch to channel group click **Channel 01-16** and **Channel 17-32** button but if DVR supports less than 16 channels (include 16 channels) and the channel group switching buttons are non-functional.

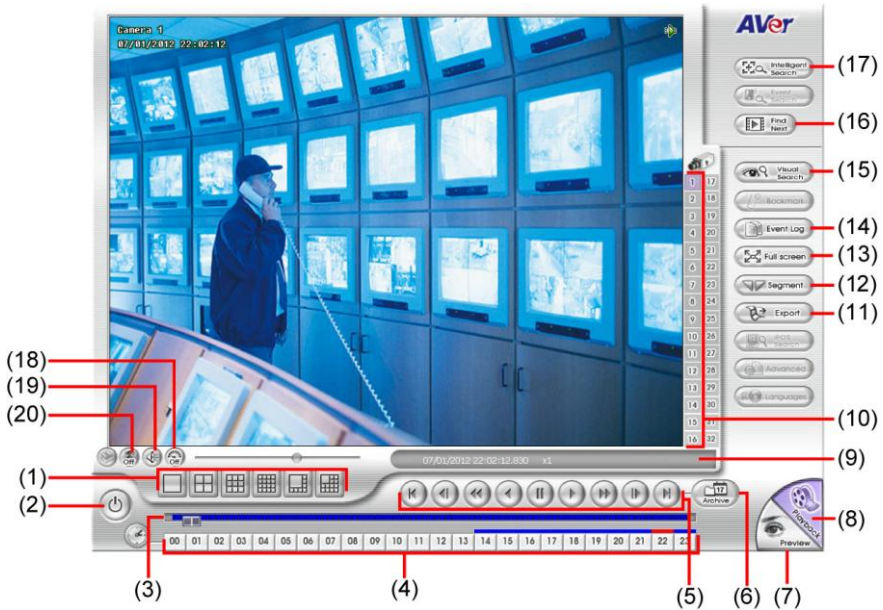


To Make a Selection:

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 [Chapter 7.4.2](#)).



7.3.1 Familiarizing the Buttons in Local Playback Mode



Name	Function
(1) Split Screen Mode	Select from 6 different split screen types to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
i	<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 zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge.
(2) Exit	To close the application.
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
i	The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.

Name	Function
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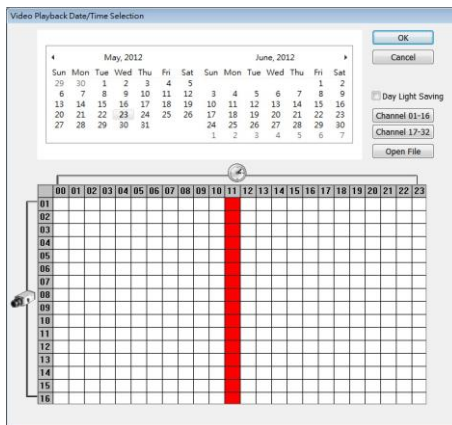
(5) Playback Control Buttons

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

(6) Archive

Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.

- Also, user can open the recorded file from certain location by click **OPEN FILE** button
- Click **Channel 01~ 16** and **Channel 17 ~ 32** button to switch to different channel group of playback calendar. If the DVR supports less 16 channels (include 16 channels), the channel group switching buttons are non-functional.
- Mark **Day Light Saving**, the playback calendar will show the available playback records during day light saving period.



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

(7) Preview



Switch to Preview mode.

(8) Playback

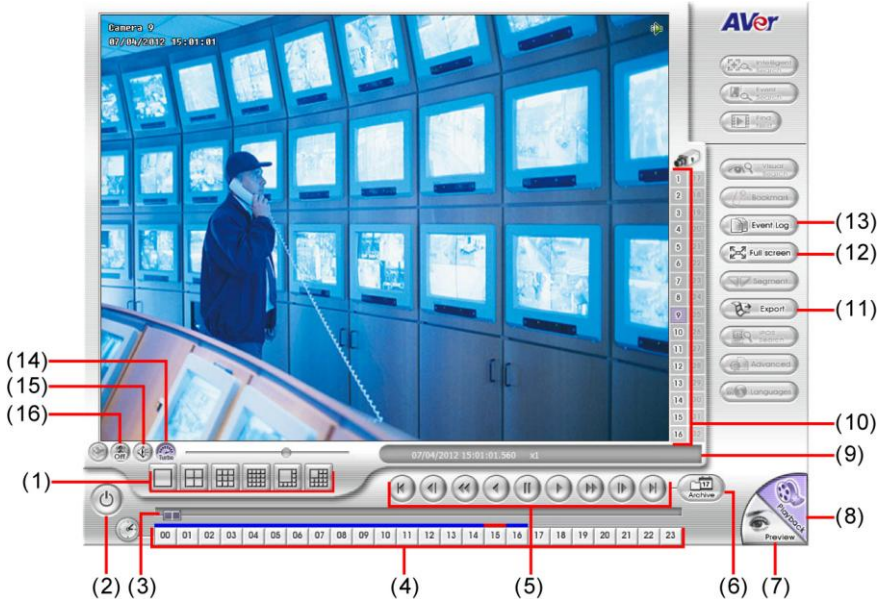
Switch to Playback mode. This allows you to view the recorded video file.



(9) Status bar

Display the recorded date, time and play speed.

Name	Function
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	<p>Export includes Snapshot, Print, Output Video Clip, and Backup function.</p> <ul style="list-style-type: none"> ■ Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format. ■ Print: Print the screen shot. ■ Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 7.3.4). ■ Backup: Save the playback file to USB device or DVD-ROM disk(see also Chapter 5.6 Backup Setting)
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 7.3.4).
(13) Full screen	<p>Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(14) Event Log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 7.3.5)
(16) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 7.3.7).
	The Visual and Intelligent search only available when the remote site is recording and playback from remote local hard disk.
(18) Turbo	<p>To improve the smoothness of live video. Turbo button is disabled  in default. When turbo button is enabled or disabled that applies to whole DVR system, not the specific channel. When restart or shutdown DVR system, the current turbo status won't be saved by DVR system</p>
(19) Audio	Enable/disable audio play
(20) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

7.3.2 Familiarizing the Buttons in RealTime Playback Mode



Name	Function
(1) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera.
 To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge.	
(2) Exit	Close the program
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
 The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.	

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

(5) Playback Control Buttons

From left to right order:

Begin: Move at the beginning of the recorded video file.

Previous: Go back to the previous frame.

Slower: Play the recorded video file at the speed of 1/2x, 1/6x, 1/8x, or 1/16x

Rewind: Wind back the recorded video file.

Pause: Briefly stop playing the recorded video file.

Play: Play the recorded video file.

Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x or 32x.

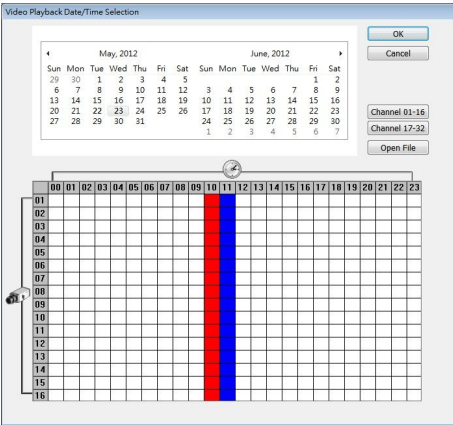
Next: Go to the next frame.

End: Go to the end of the recorded video file.

(6) Archive

Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.


- Also, user can open the recorded file from certain location by click **OPEN FILE** button
- Click **Channel 01~ 16** and **Channel 17 ~ 32** button to switch to different channel group of playback calendar. If the DVR supports less 16 channels (include 16 channels), the channel group switching buttons are non-functional.



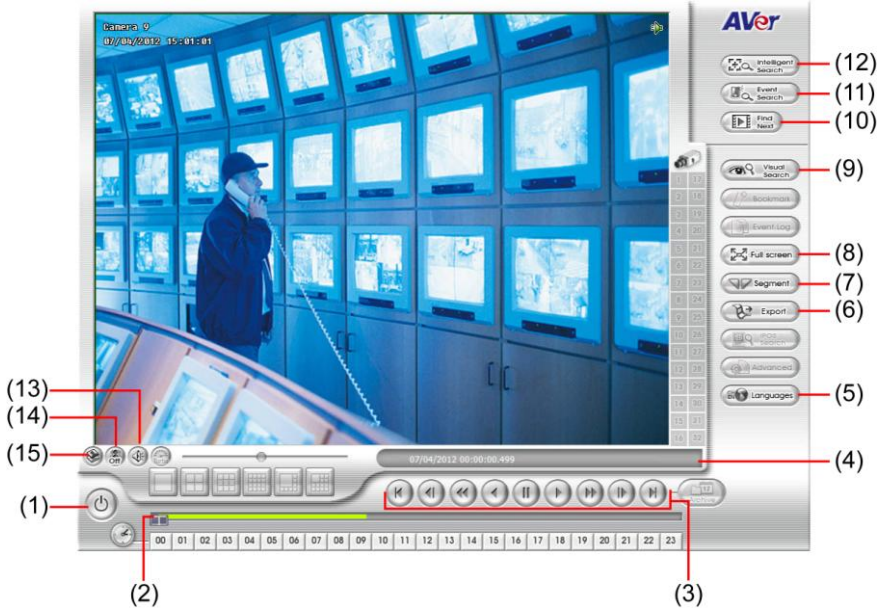
The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(7) Preview

Switch to Preview/Advanced mode.

Name	Function
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the recorded date, time and play speed.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
(12) Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(13) Event log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(14) Turbo	To improve the smoothness of live video. Turbo button is disabled () in default. When turbo button is enabled or disabled that applies to whole DVR system, not the specific channel. When restart or shutdown DVR system, the current turbo status won't be saved by DVR system
(15) Audio	Enable/disable audio play
(16) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

7.3.3 Familiarizing the Buttons in Download and Playback Mode




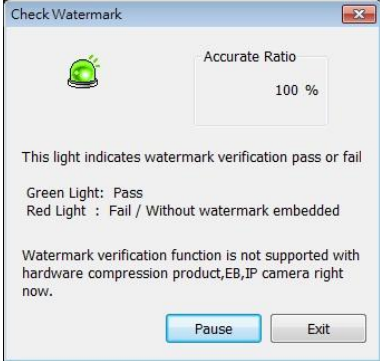
Name	Function
(1) Exit	Close the program
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Playback Control Buttons	<p>From left to right:</p> <p>Begin: Move at the beginning of the recorded video file.</p> <p>Previous: Go back to the previous frame.</p> <p>Slower: Play the recorded video file at the speed of 1/2x, 1/6x, 1/8x, or 1/16x.</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>
(4) Status bar	Display the recorded date, time and play speed.

Name	Function
(5) Language	Select the language of function tips
(6) Export	<p>Export includes Snapshot, Print, and Output Video Clip function.</p> <ul style="list-style-type: none"> ■ Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format. ■ Print: Print the screen shot. ■ Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 7.3.4).
(7) Segment	Keep a portion of the recorded video you want(see also Chapter 7.3.4).
(8) Full screen	<p>Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.</p> <p>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.</p>
(9) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 7.3.5)
(10) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(11) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS). (See also Chapter 7.3.6)
(12) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 7.3.7)
(13) Audio	Enable/disable audio play
(14) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

Name	Function
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(15) Watermark

To verify the playback video has not been modified
To verify the playback video doesn't been modified. Click 
to check the video. Watermark verification window will show
up as following:





Watermark verification doesn't support the video that is recorded from MPEG IP camera.


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

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



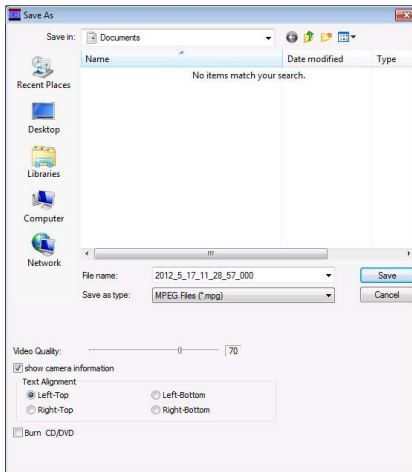
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** button () to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button () again.



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

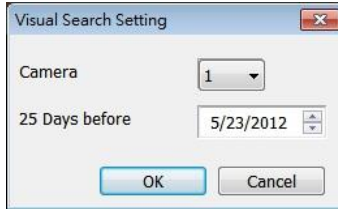




Right-click function is disabling for security issue.

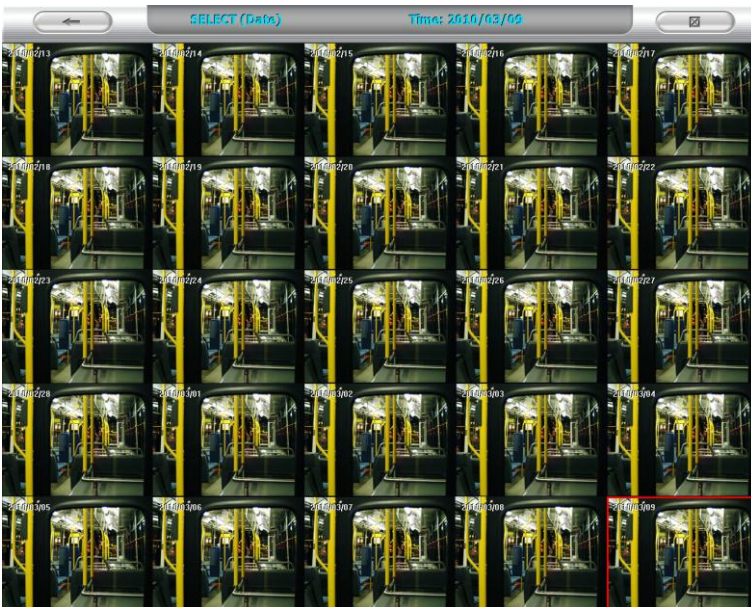


7.3.5 To Search Using the Visual Search

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

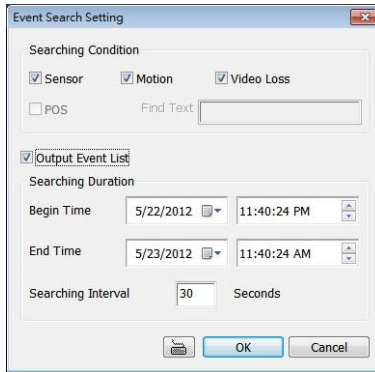



3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour, every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click . To view from the selected frame and close event search,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



7.3.6 To Search Using the Event Search

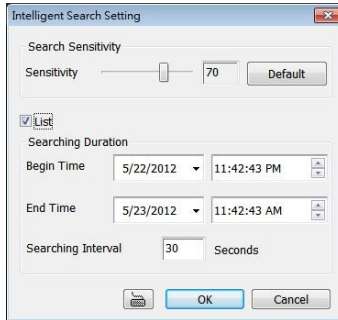
1. Click on the video screen on where you want to search.




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 **Find Next** () button.
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** and **End Time**. Set the **Searching Interval** time for in a period of time won't list out the same events. Then, click **OK** to start searching.
5. When the Event list appear, click and select the item you want to view.

7.3.7 To Search Using the Intelligent Search

1. Click on the video screen on where you want to search.
2. Click **Intelligent Search**. The Intelligent Search text (red) would appear at the lower left corner of the screen.



3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click **Find Next** () button.
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** and **End Time**. Set the **Searching Interval** time for in a period of time won't list out the same events. Then, click **OK** to start searching.

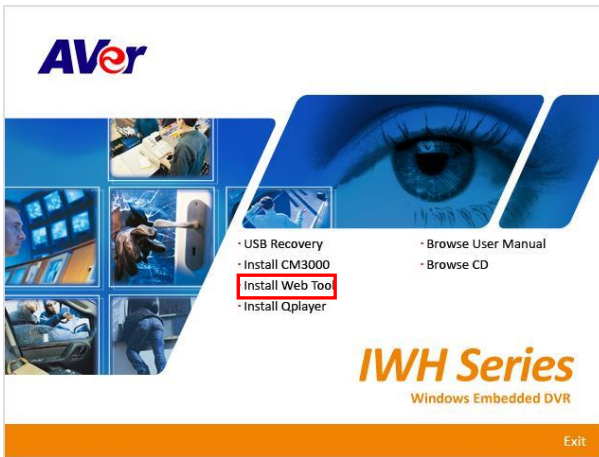
Chapter 8 Web Tools

The bundled Web Tools includes Remote iSetup, Remote iBackup, Remote Console, Remote iAarm, and Remote iMatrix application. To install Web Tools, place the CD into the CD-ROM drive then click **Install Web Tool**. User can select the application that wants to install or install all.



Remote Console application please refer to [Chapter 7.2](#).

Remote iAlarm and Remote iMatrix please refer to Remote iAlarm and Remote iMatrix user's manual.



The image shows a 'Remote DVR' configuration window. It has a title bar with the text 'Remote DVR' and a close button. The window contains several input fields: 'Name' with the value 'DVR 01', 'IP Address' (empty), 'Port' with the value '80', 'User ID' (empty), 'Password' (empty), and 'Description' (empty text area). At the bottom, there are three buttons: 'Import' (with a floppy disk icon), 'OK', and 'Cancel'.

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

8.1.2 To Setup Remote DVR Server

Select the DVR server from listing and click **Setup** to configure remote DVR server. For detail configuration of DVR server, please refer to [Chapter 7.1.3](#).

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

DVR Setting

Name:

IP: User ID:

Port: Password:

Auto Backup

Storage Path

Disk Recycle

Folder Name	Free Space	Disk Space(Used)
C:\Auto_Backup	5.97G	40.00G

Begin Date:

Manual Backup

Storage Path:

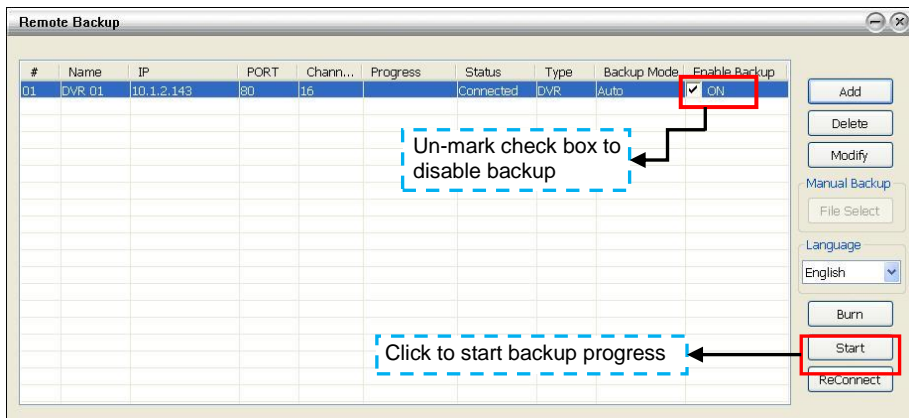
Quick Backup

Storage path:

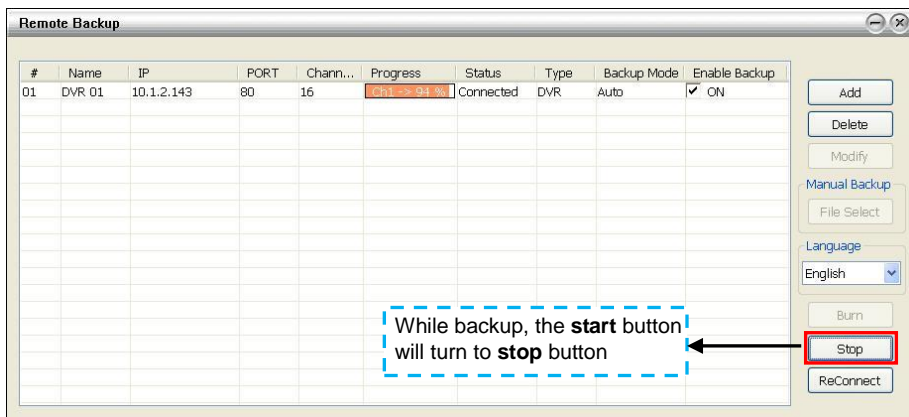
5. Select the Backup mode:

- **Auto Backup mode:** the backup will automatically execute when the setup is completed
 - a. 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.
 - b. Enable/disable **Disk Recycle** check box, to automatically overwrite the oldest file when there is not enough free space to backup the file.

- c. Click **OK** to complete the adding DVR server. The added DVR server will display in Remote Backup main windows.



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



- **Manual Backup mode:** the backup progress will start when user press the backup button
 - a. In DVR Setting, select **Manual Backup** option.
 - b. Click **Browse** to set the storage path. Click **OK** to save the setting.

DVR Setting

Name: DVR 02
 IP: 127.0.0.1
 Port: 80
 User ID:
 Password:

Auto Backup
 Storage Path

Disk Recycle

Folder Name	Free Space	Disk Space(Used)
C:\Auto_Backup	5.97G	40.00G

Begin Date: 3/28/2013
 Schedule Add Delete

Manual Backup
 Storage Path: C:\Manual_Backup
 Browse

Quick Backup
 Storage path: C:\Quick_Backup
 Browse

OK Cancel

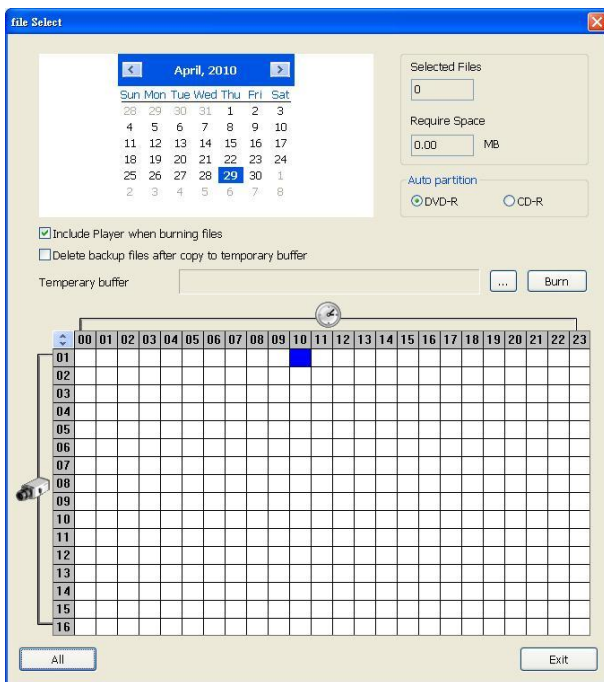
- c. In Remote Backup window, click **file select** button.

Remote Backup

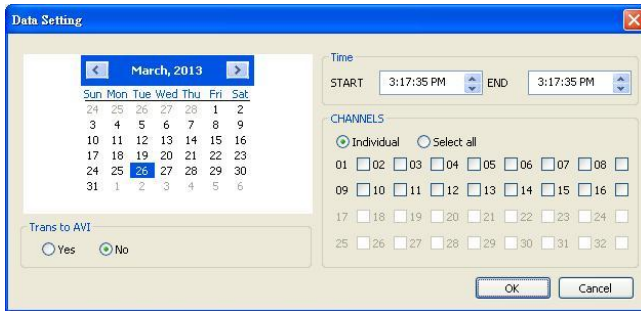
#	Name	IP	PORT	Chann...	Progress	Status	Type	Backup Mode	Enable Backup
01	DVR 01	10.1.2.143	80	16		Connected	DVR	Manual	<input checked="" type="checkbox"/> ON

Add
 Delete
 Modify
 Manual Backup
 File Select
 Language: English
 Burn
 Start
 ReConnect

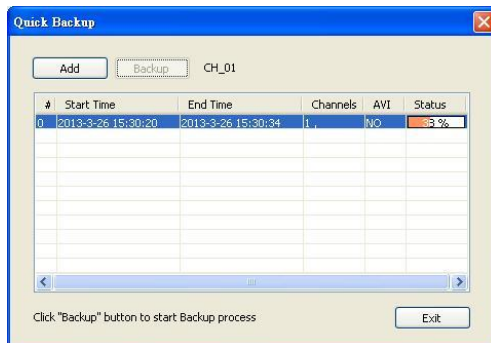
- f. If user wants to burn the back file into DVD disk, click **Burn** button and select the file to burn.



- d. Click **Add** to select the date, start/end time, and channel that user wants to backup. After selecting, click **OK** to confirm. User can add multiple backup time file by repeating this step.



- e. In Quick Backup dialog box, user will see the selected time period for backup is listed. Click **Backup** button to start backup.



- a. When backup is done, click **Exit** to leave the dialog box.

Appendix A Registering Domain Names

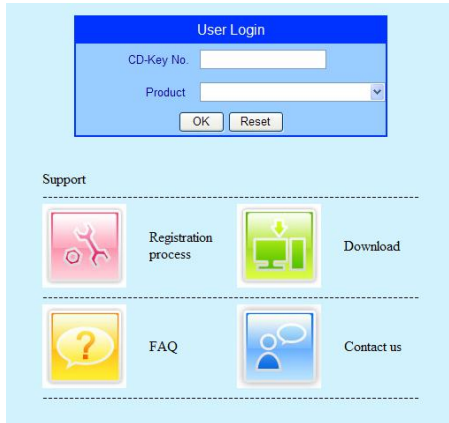
DDNS (Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. It allows remote clients to intelligently search dynamic servers without any previous enquiring for servers' Internet addresses.

In order to take advantage of this intelligent service, first register your domain name. User has two choice of the DDNS server site can register the domain name. Choice the one you like and register the domain name.

I. Register the Domain Name on <http://ddns.avers.com.tw>

7. User Login

Browse the website ddns.avers.com.tw with Microsoft IE or Netscape Navigator to access the following dialog.



- First input CD-Key number and select the product name.



One of CD-Key allows user to register two domain names. One of domain name can be used by Dispatch serve.

- Then click **OK** to login or **Reset** to clear the previous input.

8. User Information

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



- Note that Host Name and Domain Name (avers.com) are the replacement for Internet address while a remote client tends to search a dynamic server.
- Host Name column supports alphabet letters and number only. The maximum character is 15.
- The password maximum character is 12.

II. Register the Domain Name on <http://www.dyndns.com>

1. Open the browser on your PC and enter the URL <http://www.dyndns.com>
2. Select the **Create Account** from the main page.

DynDNS.com
by Dynamic Network Services Inc.

User: Pass:

[Lost Password?](#) - [Create Account](#)

About Services Account Support News

LIKE YIN AND YANG.
Buy Custom DNS and get Domain Registration for just \$10.
Learn more about our **Custom DNS service**

New to DynDNS.com?
Take our **new tour** and see what we do

DNS Services
DNS for static and dynamic IP address

MailHop Services
Ensure reliable email delivery

News Outage Causes Multiple Website Failures (DynDNS Customers Not Affected)

Resources
What is DNS?
DNS Tools
Home Solutions
Business Solutions

Services
DNS Hosting
[Free Dynamic DNS](#)
Email Relay
Domain Names

Support
DynStatus
Knowledge Base
24/7 Premier Support
Update Clients

Follow Us
Our News
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DNS Ninjas | Facebook

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3. Enter the **Username, Email, Retype Email, Password, Retype Password**, and read the policy agreement.

4. After entered all necessary information, click **Create Account**.

DynDNS.com
by Dynamic Network Services Inc.

User: Pass:
[Lost Password?](#) - [Create Account](#)

About Services Account Support News

My Account
Create Account
Login
Lost Password?

Search

Create your DynDNS.com account

User Information

Username:
Email: Activation instructions will be sent here.
Retype Email:
Password:
Retype Password:

Mailing Lists (optional)

Newsletters:
Press-releases:
Format: HTML Plain Text

Acceptable Use & Privacy Policy

Privacy Policy:
We [do not sell](#) your account information to anyone, including your email address.
 I agree to the [Acceptable Use Policy \(AUP\)](#), and my mailing list subscriptions.

5. User need to do the email verify in order to complete the account apply. Go to your mail account that user has used to register the account to find the confirm mail.

DynDNS.com
by Dynamic Network Services Inc.

User: Pass:
[Lost Password?](#) - [Create Account](#)

About Services Account Support News

My Account
Create Account
Login
Lost Password?

Search

One more step to go...




We've sent an email to avers@avermedia.com, to verify your account.
Please check your inbox and click on the confirmation link.

If you do not receive the email in the next few minutes you can try [resending it](#).

Thanks for choosing DynDNS.com!

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6. After account has been confirmed, user can login to your account.

	About Services Account Support News		
My Account	Account Summary for myown		
My Services	My Services  View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domains Service My Hosts Add Host Services Spring Server VPS Dynamic DNS Pro MailHop Outbound Network Monitoring SSL Certificates Recursive DNS Support Premier Support Contact Support DNS Service Level Agreement	Billing  Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services Order History Billing Profile and Vouchers Renew Services Auto Renew Settings Sync Expirations	Account Settings  Update your email address, set preferences, and delete your account. Change Email Address Change Password Change Username Contact Manager Mailing Lists Move Services Preferences Close Account
Account Settings			
Billing			
My Cart 0 Items			
Search <input type="text"/> <input type="button" value="Search"/>			
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7. Select **Add Zone/Domains Service** to register the domain name.

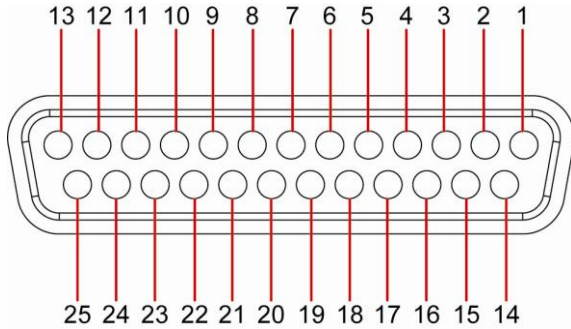
Appendix B Network Service Port

The following table shows the ports that DVR server uses for certain network service.

	Port #	Variable
Remote Console (CM 3000)	5550	Y
PCViewer	80	Y
2-way audio	9999	N
Remote Control (CM3000)	5555	Y
DVR POS	5150	Y
Firmware Update	5005	Y

Appendix C Pin Definition of Audio In Port

The following table lists the pin definition of audio in port.



Pin #	Definition	Pin #	Definition
1	RCA(1)	14	RCA(2)
2	RCA(3)	15	RCA(4)
4	RCA(5)	17	RCA(6)
5	RCA(7)	18	RCA(8)
7	RCA(9)	20	RCA(10)
8	RCA(11)	21	RCA(12)
10	RCA(13)	23	RCA(14)
11	RCA(15)	24	RCA(16)

Pin #	Definition	Pin #	Definition
3	RCA & BNC Shield	13	Black BNC(1)(Spot monitor 1)
6		25	Black BNC(2)(Spot monitor 2)
9			
12			
16			
19			
22			

Appendix D USB Recovery

1. Plug the USB pen drive on a PC (PC could be any PC as long as has a CD-ROM drive and USB port).

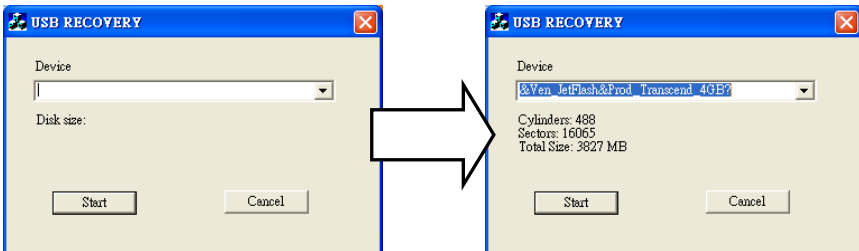
- i** - The USB pen drive must have 4G ~ 16G capacity in order to store the recovery file.
- In Windows 7 system, please disable **UAC** function before make the recovery file.
- In Windows XP system, please login as an **administrator** authorization level.

2. Insert the software CD into the DVD-ROM drive of PC.

3. Click **USB Recovery** on auto run screen.



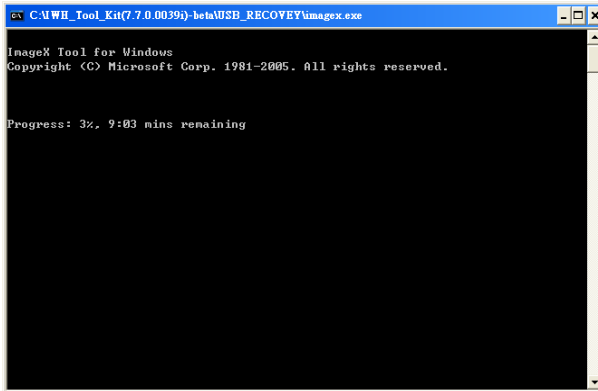
4. Select the USB pen drive in **Device** and click **Start** button.



5. USB pen drive will be formatted. Click **Yes** to accept the formatting of USB pen drive.

- i** In Windows 7 system, the system will do the formatting twice.

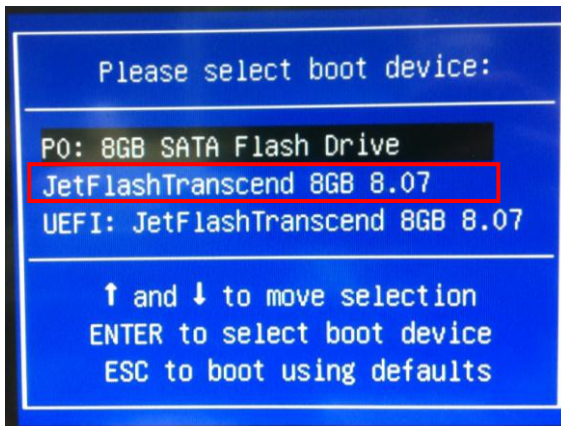
- After format is completed, the recovery files will copy into the USB pen drive. When the copy process is completed, click **OK** to finish.



- And then, un-plug the USB pen drive from the PC and plug into the DVR unit.
- Restart DVR unit (power off and power on) and press **F11** button on keyboard.
- Select the boot device as **USB** and press **Enter** button.



Please do not select the USB drive is UEFI type.

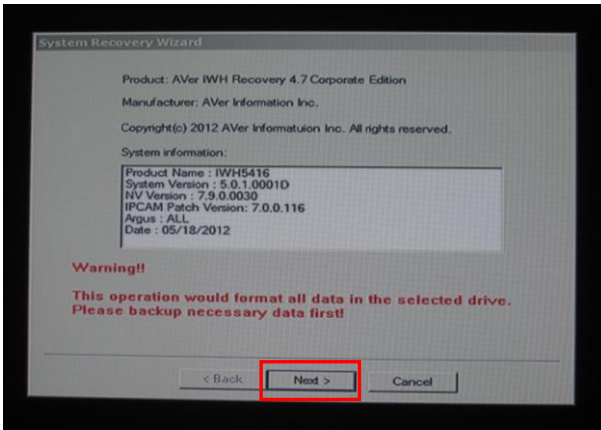


- The DVR system will start the recovery action and wait for the System Recovery Wizard to show up.

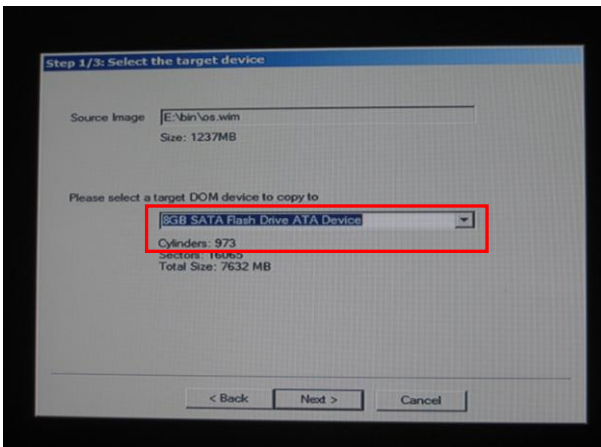


The prepare screen may be varied that it depends the Windows system that user has used to make recovery file.

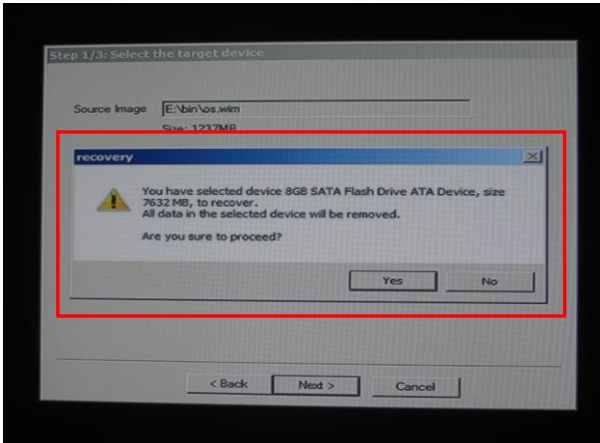
11. The **System Recovery Wizard** will show up, click **Next** to continue.



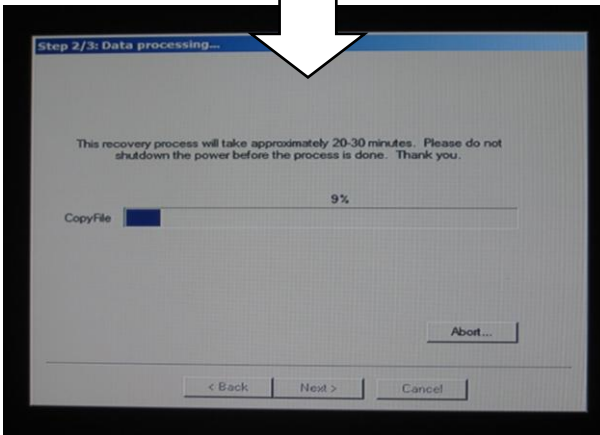
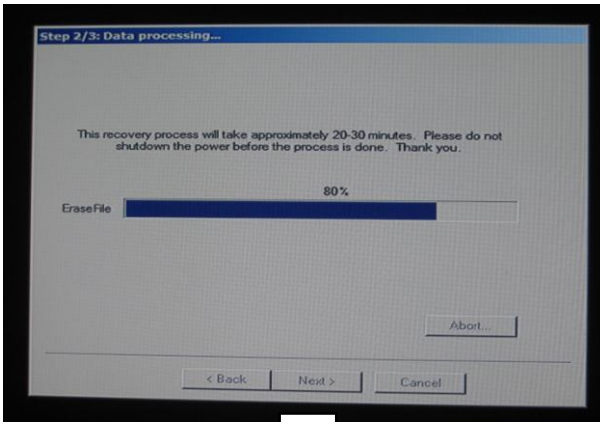
12. Select the recovery target is flash drive of DVR. Then, click **Next**.



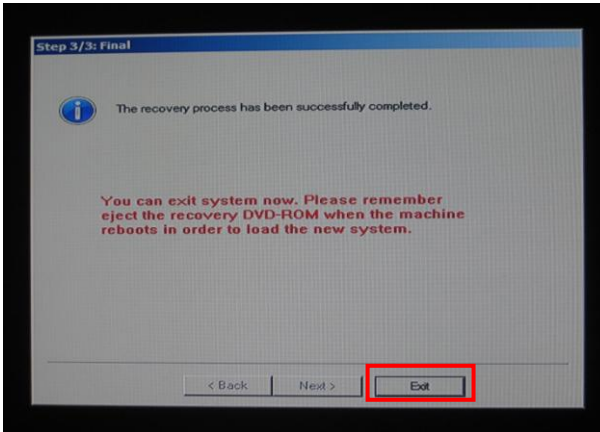
13. Click **Yes** to confirm the selection. If user wants to change the recovery target, click **NO** and select another recovery target.



14. And then, the recovery process will start to erase old firmware file, then, copy new firmware file to the target drive that user has selected. It takes several minutes to complete. If user wants to stop the recovery process, click **Abort** button.



15. When completed message window show up, the recovery process is completed. Click **Exit** and remove USB pen drive from DVR unit. The DVR system will start up automatically.



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

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Labor is warranted for **1** year. **Parts** are warranted for **3** years.

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.

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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. AVer Information Inc. does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose.

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2. Shipping charges.
3. Any incidental charges.

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