

P5000 series

P5036-R/P5036-16-R

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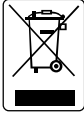
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The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste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

Battery Safety Information

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

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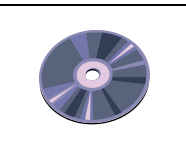
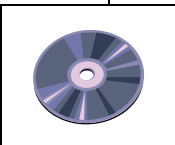

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Chapter 1 Hardware Introduction





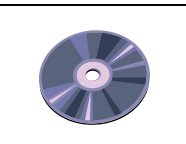
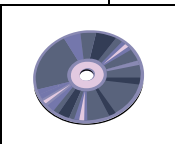


1.1 Package Contents

P5036-R

				
P5036-R NVR unit		USB optical mouse	Key for HDD bay	
				
*Power cable	Software CD	Manual CD	Screws	

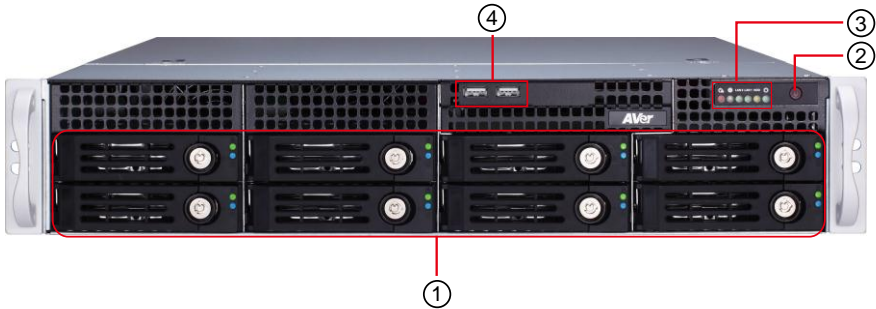
* Then power cord may vary as it is country dependent.

P5036-16-R

				
P5036-16-R DVR unit		USB optical mouse	Key for HDD bay	
				
*Power cable	Software CD	Manual CD	Screws	DVI cable x 2

* Then power cord may vary as it is country dependent.

1.2 Front Panel



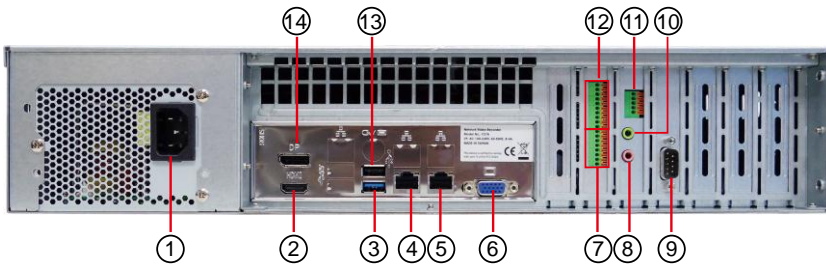
①	HDD bay	③	LED indicator
②	Power button	④	USB port

■ LED indicator table (from left to right on front panel)

LED indicator	Description
Fan	<ul style="list-style-type: none"> ● Flash: It indicates a fan failure. ● Continuously on: It indicates an overhead condition.
Power Failure	Flash: it indicates a power failure.
LAN 2	Flash: it indicates network activity on LAN 2 port.
LAN 1	Flash: it indicates network activity on LAN 1 port.
HDD Device	Flash: it indicates IDE channel activity in SATA drive, SCSI drive, or DVD-ROM drive.
Power	It indicates power supply is normal.

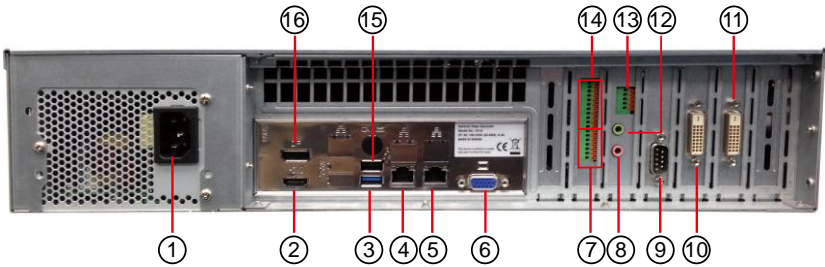
1.3 Back Panel

P5036-R



①	Power connector port	⑧	MIC input port
②	HDMI port	⑨	RS232 port
③	3.0 USB port	⑩	Audio output port
④	LAN1 port	⑪	RS485 port
⑤	LAN2 port	⑫	Sensor input port
⑥	VGA output port	⑬	2.0 USB port
⑦	Alarm(relay)output port	⑭	Display port(It will be supported in feature)

P5036-16-R



①	Power connector port	⑨	RS232 port
②	HDMI port	⑩	Video In port
③	3.0 USB port	⑪	Video In port
④	LAN1 port	⑫	Audio output port
⑤	LAN2 port	⑬	RS485 port
⑥	VGA output port	⑭	Sensor input port
⑦	Alarm(relay)output port	⑮	2.0 USB port
⑧	MIC input port	⑯	Display port(It will be supported in feature)

1.4 Hard Disk Installation

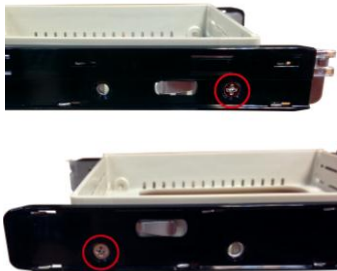
1.4.1 Install Hard Disk inside HDD Bay

The NVR/DVR unit can support up to 8 SATA hard disks to install inside HDD bay. Follow the instructions below to install the hard disk:

1. Open the door of HDD bay.
2. Pull out the HDD bay.



3. Lose the screw on both side of HDD and remove the plastic box from HDD bay.
4. Place the hard disk inside the HDD bay and align the hard disk's screw hole with screw hole of HDD bay. And, secure the hard disk (both side).



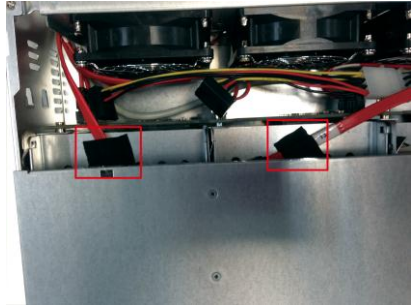
5. Slide HDD bay back to NVR/DVR unit and push to close the door of HDD bay. User can lock the HDD drawer by using the key that is included in accessories kit.
6. User may now connect all the cables and power on the NVR/DVR unit.



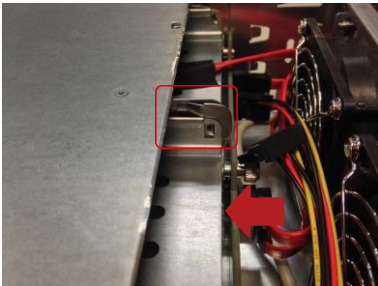
1.4.1 Install Internal Hard Disk

The NVD/DVR unit can support up to 2 internal SATA hard disks. Follow the instructions below to install the hard disk:

1. Un-screw the cover case (both side) and open the cover case of NVR/DVR unit. Push the button (as red circle mark) and follow the arrow direction to push and open the cover case.
2. Remove the tape on SATA cable.



3. Release the tenon and push the hard disk box forward at the same time to take out the hard disk box.



4. Place the hard disk inside the hard disk box and align the hard disk's screw hole with screw hole of hard disk box. And, secure the hard disk (both side).



5. Slide hard disk box back to NVR/DVR unit



6. Connect the SATA cable and power cable to hard disk.



7. Close cover case of NVR/DVR unit and secure the cover case.
8. User may now connect all the cables and power on the NVR/DVR unit.

1.5 Pin Definition of Sensor/Relay/RS485 Port

The I/O card enables you to connect 8 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.).

■ RS485 Pin definition

When connect PTZ camera through RS485 interface, please refer to the following pin definition to connect the NVR/DVR and PTZ.

Pin	NVR/DVR site	PTZ site
TX+	RS485 TX+ signal	RS485 RX+ signal
TX-	RS485 TX- signal	RS485 RX- signal
RX+	RS485 RX+ signal	RS485 TX+ signal
RX-	RS485 RX- signal	RS485 TX- signal



If user uses the 2 wires for the PTZ camera connection, please connect to the RS-485 TX+ and TX- of the NVR/DVR site.

■ Sensor Pin definition

Pin	Definition	Pin	Definition
1	Sensor Signal 1	5	Sensor Signal 5
2	Sensor Signal 2	6	Sensor Signal 6
3	Sensor Signal 3	7	Sensor Signal 7
4	Sensor Signal 4	8	Sensor Signal 8

■ Alarm Pin definition

Pin	Definition	Pin	Definition
C1	Relay Common 1	C3	Relay Common 3
NO	Relay Normal Open	NO	Relay Normal Open
C2	Relay Common 2	C4	Relay Common 4
NO	Relay Normal Open	NO	Relay Normal Open

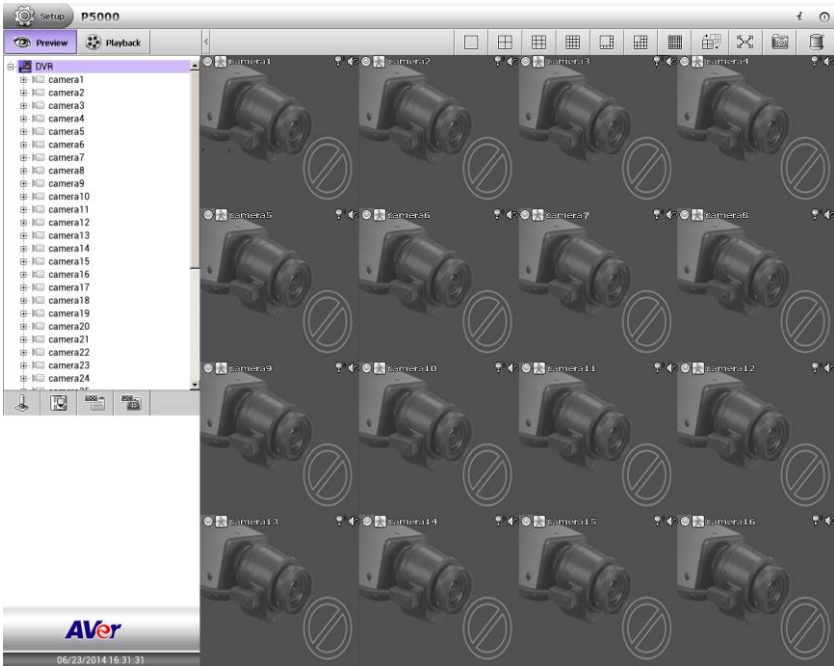
Chapter 2 Main System Configuration

2.1 Getting Started

1. Connect the power cable and mouse to NVR/DVR unit.
2. Power on the NVR/DVR unit and wait for system start up processing to complete.
3. For security purpose, the NVR/DVR system would require user to enter **User ID** and **Password** before it can be accessed. (If this is the first time, enter the default ID [admin] and password [admin]).



4. After login successful, the preview UI is displayed.



5. Next, setup the following settings in order to start monitoring.
 - **Setup System Date and Time:** Setup the date and time in order to have corrected recording time and date. Please refer to [Chapter 2.5.1](#).
 - **Format Hard Disk:** The hard disk must be formatted before use it to save recording data (see also [Chapter 2.7.1](#)).





Before formatting hard disk, please make sure no operations is running on NVR/DVR system.

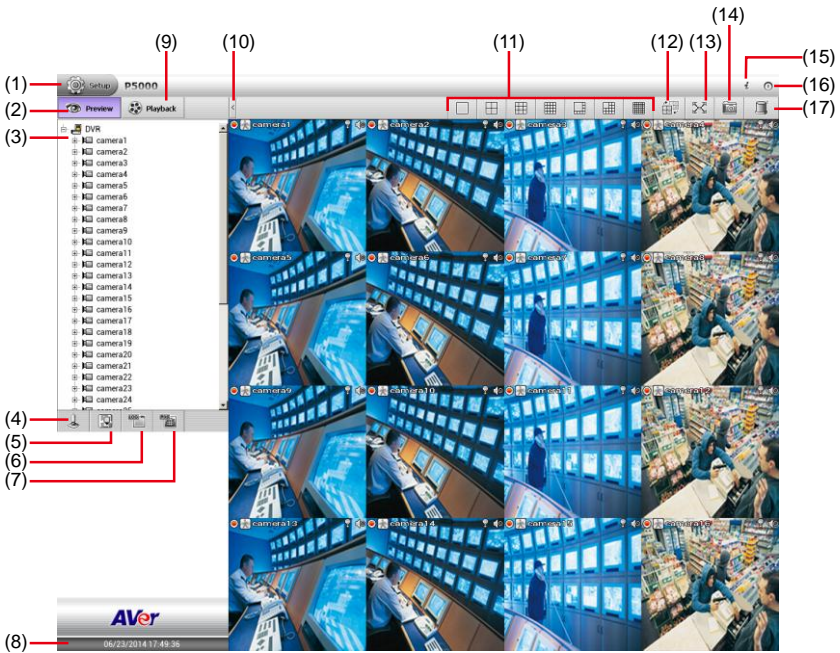
- **Setup Storage Path:** Select the hard disk to be a storage path for saving recorded video. Please refer to [Chapter 2.7.2](#).
 - **Network Setup:** Setting up the NVR/DVR system's IP address that is same IP segment as your network. Please refer to [Chapter 2.6](#).
 - **Connect IP camera:** Please refer to [Chapter 2.8](#).
 - **Setup Recording Schedule:** Setting up the record schedule to start recording. Please refer to [Chapter 2.9](#).
6. For more detail configuration of NVR/DVR system, refer to the chapters in followings.

2.1.1 Familiarizing Icons on Dialog Box




There are some icons are shown on dialog box through the NVR/DVR system and they are explaining in followings.

	Expanding the dialog box on the screen.
	Closing the dialog box.

2.2 Familiarizing Functions in Preview Mode



Name	Function
(1) Setup	Click Setup button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication.
(2) Preview	Switch to Preview mode. This allows you to view live camera display.
(3) Camera list	Lists all cameras of NVR/DVR. Click + to expand the list. User can select and drag the camera to video display area to arrange the monitor layout(see also Chapter 3.1)
(4) PTZ	To call out a PTZ control panel and appoint PTZ camera (see also Chapter 2.8.4).
(5) EMap	To view the cameras, sensors, and relays on Emap (see also Chapter 3.7).
(6) Event Log Viewer	Search and display the record of activities that take place in the system (see also Chapter 2.17.1).

Name	Function
(7) POS Log Viewer	Search and display POS event logs (see also Chapter 2.16.3).
(8) Date and Time	It shows the current system date and time.
(9) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 2.3)
(10) Hide button	To hide the side area and give more view of screen.
(11) Split Screen Mode	It provides 7 kinds of split display modes for your selection. User can select the split display modes by clicking the split mode icon.
	To only display one of the video in the multiple-screen mode, double click on the video screen you only want to display (see also Chapter 3.6).
(12) AutoScan	Click it to start auto cycle display each channel (see also Chapter 3.11).
(13) 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 (see also Chapter 3.9).
(14) Snapshot	Catch a static recording image and save it as a JPG file in USB pen drive device(see also Chapter 3.8)
	Plug the USB pen drive into NVR/DVR unit before click Snapshot button.
(15) System Information	Click it to view NVR/DVR system's version.
(16) Power button	Call up the Power dialog box. In the Power dialog box, user may do the following:
	
	<ul style="list-style-type: none"> - Exit: To shutdown the NVR/DVR system. - Compact: Switch to compact mode. In compact mode, user's authority is limited (see also Chapter 2.4.1). - Login: To login in different account. Default user ID is admin and password is admin. - Cancel: To exit Power dialog box.

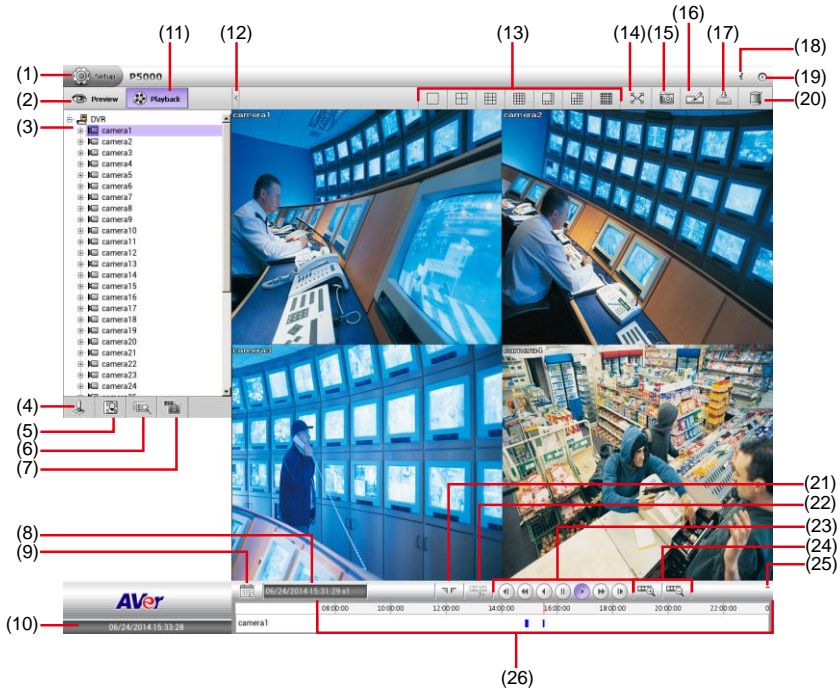
Name**Function**

(17) Alarm Log Viewer

Alarm log: To view and search the alarm event logs (see also [Chapter 2.17.2](#)).

2.3 Familiarizing Functions in Playback Mode

Click **playback** tab to switch to playback mode.



Name	Function
(1) Setup	Click Setup button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication.
(2) Preview	Switch to Preview mode. This allows you to view live camera display.
(3) Camera list	Lists all cameras of NVR/DVR. Click + to expand the list. User can select and drag the camera to video display area to playback (see also Chapter 4.6.1).
(4) PTZ	In playback mode, the NVR/DVR system doesn't support PTZ function.
(5) Emap	To view the cameras, sensors, and relays on Emap (see also Chapter 3.7).

Name**Function**

(6) Search

NVR/DVR supports 2 type of searching in playback mode – Event Search and Visual Search.

- **Event Search:** Search from the recorded activities that were recorded in event log such as Sensor, Motion, Video Loss (see also [Chapter 4. 3](#)).
- **Visual Search:** Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second (see also [Chapter 4. 4](#)).

(7) POS Log Viewer

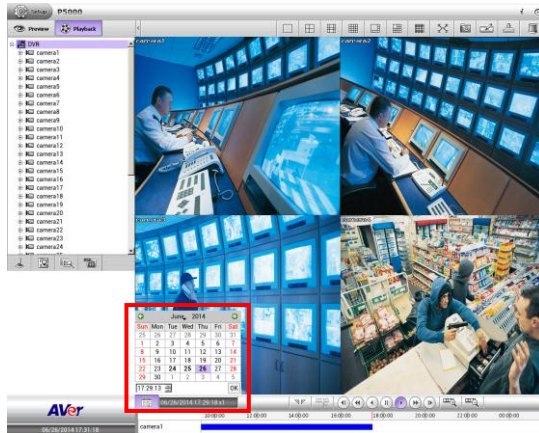
Search and display POS event logs (see also [Chapter 2.17.3](#)).

(8) Status bar

Display the recorded date, time and play speed.


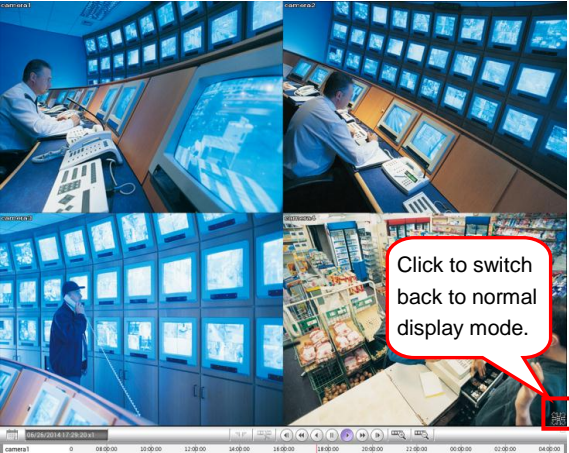
(9) Date

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



- **Date:** click the date on calendar to select. The date in bold text indicates there has recorded file. Click and to switch the date or click next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- **Time:** In Time box, select the hour, minute, and second to setup the playback start up time.



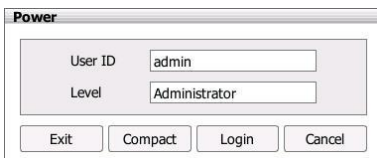
Name	Function
(10) Date and Time	It shows the current date and time.
(11) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(12) Hide button	To hide the side area and give more view of screen.
(13) Split Screen Mode	Select from 7 kinds of split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
 To only display one of the video in the multiple-screen mode, double click on the video screen you only want to display (see also Chapter 4.6.3).	
(14) 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>
(15) Snapshot	Catch a static recording image and save it as a JPG file in pen drive device (see also Chapter 4.6.7).
(16) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference (see also Chapter 4.5).
(17) Backup	Save the playback file to USB pen drive (see also Chapter 2.12).
(18) System Information	Click it to view NVR/DVR system's version.

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

(19) Power button


Call up the Power dialog box.


In the Power dialog box, user may do the following:




- **Exit:** Shutdown the NVR/DVR system.
- **Compact:** Switch to compact mode. In compact mode, user's authority is limited (see also [Chapter 2.4.2](#)).
- **Login:** To login in different account. Default user ID is **admin** and password is **admin**.
- **Cancel:** To exit Logout dialog box.

(20) Alarm Log

Click  button to view and search the alarm event logs (see also [Chapter 2.17.2](#)).

(21)  (Segment)

Keep a portion of the recorded video to repeat playback; also can output the segment video to the pen drive device.








Click the  button to set the segment video. User can drag the triangle mark to set the video segment (see also [Chapter 4.6.6](#)).

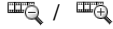
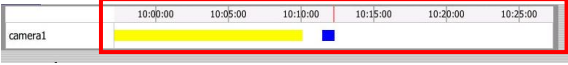
(22) 

Save the segmented video file in *.mpg, *.avi, or *.dvr format (see also [Chapter 4.6.6](#)).

(23) Playback Control Buttons

From left to right order:

-  **Previous:** Go back to the previous frame.
-  **Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x. The playback speed will show on the screen.
-  **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, 32x, or 64x. The playback speed will show on the screen.
-  **Next:** Go to the next frame.

Name	Function
(24)  (Zoom in/ out)	To expand the playback time bar from an hour to minute.
(25) Minimize	Click to close up the progress bar. Click again to open up.
(26) 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>Using the Zoom In/Out button to expand the playback time from an hour to minute.</p>
	
	<p>Meaning of color in progress bar:</p> <ul style="list-style-type: none"> - Green: Motion record - Blue: Always record(normal record) - Yellow: Video loss - White: No record data

2.4 Compact Mode

The preview and playback are both supported compact mode. To switch to Compact mode, click power button (located at upper right corner) and select **Compact** button in Power dialog in preview or playback mode.



The image shows a dialog box titled "Power". It contains two input fields: "User ID" with the value "admin" and "Level" with the value "Administrator". Below the input fields are four buttons: "Exit", "Compact", "Login", and "Cancel".

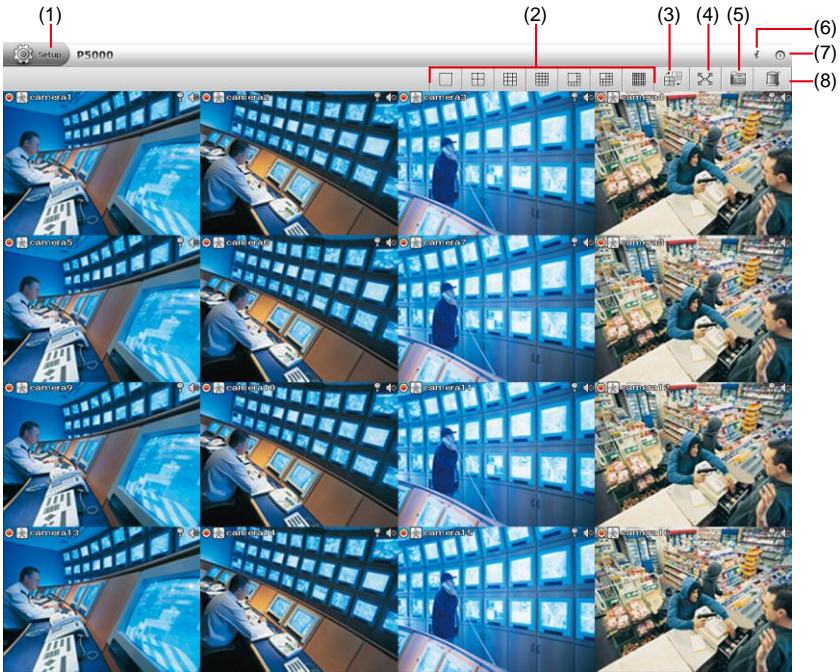
To switch back to Advance mode, click power button and select **Advance** button in preview or playback mode.




The image shows a dialog box titled "Power". It contains two input fields: "User ID" with the value "admin" and "Level" with the value "Administrator". Below the input fields are four buttons: "Exit", "Advance", "Login", and "Cancel".

The following chapters will describe the function buttons on preview and playback compact mode.

2.4.1 Familiarizing Function in Preview Compact Mode

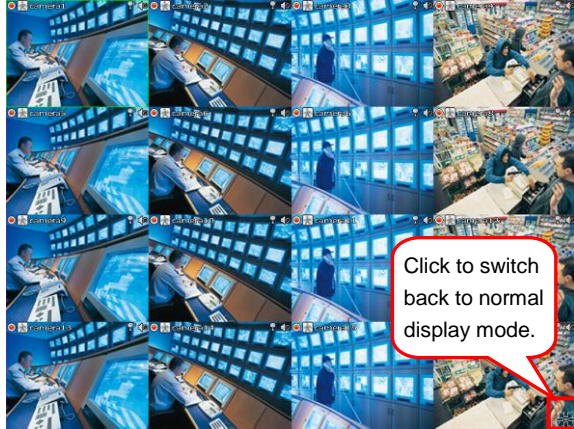


Name	Function
(1) Setup	Click Setup button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication.
(2) Split Screen Mode	It provides 7 kinds of split display modes for your selection. User can select the split display modes by clicking the split mode icon.
 <ul style="list-style-type: none"> - When the NVR/DVR system is in multiple-screen mode, user can click the video screen of the camera and Drag on where user wants to relocate it. - To only display one of the video in the multiple-screen mode, double click on the video screen user only wants to display. 	
(3) AutoScan	Click it to start auto cycle display each channel.

Name**Function**

(4) Full screen

Use the entire area of the screen to only display the video. To return, click the arrow icon at bottom of right.



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.

(5) Snapshot

Catch a static recording image and save it as a JPG file in USB pen drive device (see also [Chapter 3.8](#)).

(6) System Information

Click it to view NVR/DVR system's version and copyright.


(7) Power button

Call up the Power dialog box.

In the Power dialog box, user may do the following:


- **Exit:** To shutdown the NVR/DVR system.
- **Advance:** Switch to preview advanced mode.
- **Login:** To login in different account. Default user ID is **admin** and password is **admin**.
- **Cancel:** To exit Power dialog box.

(8) Alarm Log Viewer

Click  button to view and search the alarm event logs (see also [Chapter 2.17.2](#)).

2.4.2 Familiarizing Function in Playback Compact Mode



Name	Function
(1) Setup	Click Setup button to configure settings for cameras, recording, network, scheduler, backup, sensors, relays, alarms and user authentication.
(2) Split Screen Mode	It provides 7 kinds of split display modes for your selection. User can select the split display modes by clicking the split mode icon.
	<ul style="list-style-type: none"> - When the NVR/DVR system is in multiple-screen mode, user can click the video screen of the camera and Drag on where user wants to relocate it. - To only display one of the video in the multiple-screen mode, double click on the video screen user only wants to display.

Name**Function**

(3) 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.

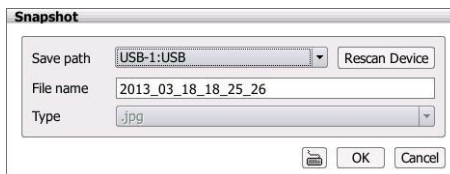


When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.









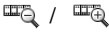
(4) Snapshot




Catch a static recording image and save it as a JPG file in USB pen drive device.

1. Select the channel or all channels.
2. Plug the USB pen drive to NVR/DVR unit.
3. Click **Snapshot** () button.
4. In Snapshot dialog box, check the Save path has been detected by NVR/DVR system. If the save path doesn't found, click **Rescan Device** button to re-detect it.



5. If user wants to re-name the **File name**, call out the virtual keyboard and enter the new file name in File name column.
6. Click **OK** to capture and save the screen shot.
7. The captured and saved screen image can be viewed on PC.

Name	Function
(5) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference (see also Chapter 4.5).
(6) Backup	Save the playback file to USB pen drive (see also Chapter 2.11).
(7) System Information	Click it to view NVR/DVR system's version and copyright.
(8) Power button	<p>Call up the Power dialog box.</p> <p>In the Power dialog box, user may do the following:</p> <div data-bbox="370 405 826 596" data-label="Image"> </div> <ul style="list-style-type: none"> - Exit: To shutdown the NVR/DVR system. - Advance: Switch to playback advanced mode. - Login: To login in different account. Default user ID is admin and password is admin. - Cancel: To exit Power dialog box.
(9) Alarm Log	Click  button to view and search the alarm event logs (see also Chapter 2.17.2).
(10) Playback Control Buttons	<p>From left to right order:</p> <ul style="list-style-type: none">  Previous: Go back to the previous frame.  Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x. The play speed will show on the screen.  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, 32x, or 64x. The play speed will show on the screen.  Next: Go to the next frame.
(11)  (Zoom in/Zoom out)	To expand the playback time bar from an hour to minute.

Name	Function
(12) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track. Using the Zoom In/Out button to expand the playback time from an hour to minute.
(13) Status bar	Display the recorded date, time and play speed.
(14) Date	Select the date on the calendar and the time to where to start playing the recorded video file. <ul style="list-style-type: none"> - Date: click the date on calendar to select. The date in bold text indicates there has recorded file. Click  and  icon to switch the date or click  icon next to month to select the month. To switch the year, click on the text of year and click spin button to select. - Time: In Time box, select the hour, minute, and second to setup the playback start up time.



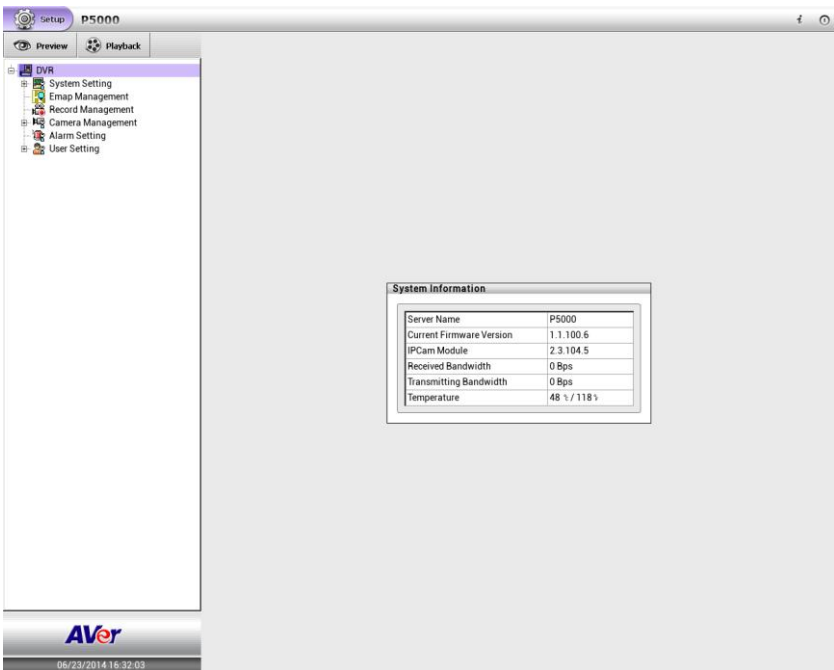
2.5 System Setup

Click **Setup** tab in preview/playback mode to switch to system setup mode.

In Setup mode, user should see the **System Information** dialog box is displayed at the first place. In System Information dialog box, it displays the setting options of Language, Date/Time, Network1, Network2 and Storage.

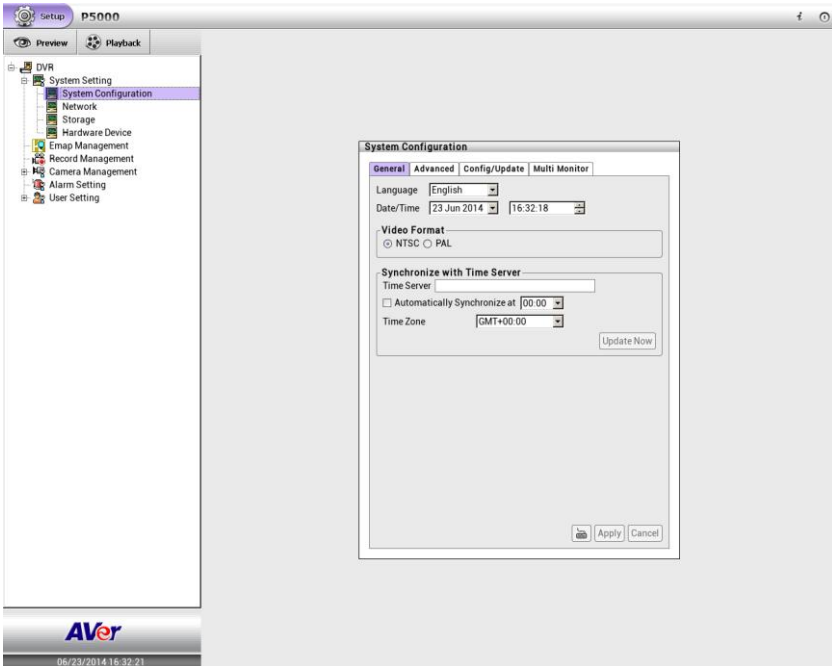
The setup sections are divided into **System Setting**, **Emap Management**, **Record Management**, **Camera Management**, **Alarm Setting**, **User Setting**, and **Schedule Setting**.




In the following chapters will describe all setup.



2.5.1 General System Setting

Setup the language of NVR/DVR system, video type, system date and time, synchronize the system time. Click **Setup** tab > **System Setting**; click **+** to expand list of System Setting and click **System Configuration**. After changing the settings, click **Apply** button to save the settings. To un-save the new settings, click **Cancel** button.



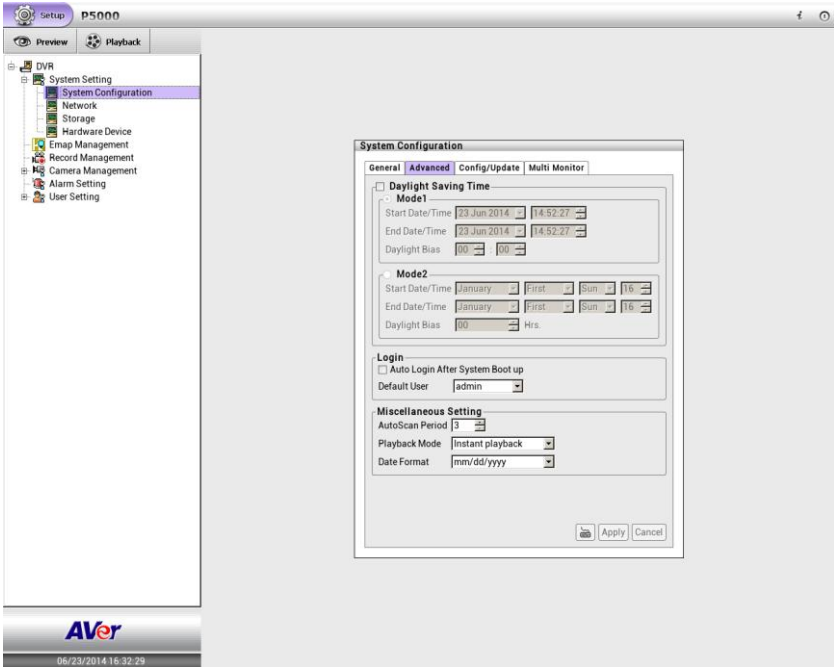
- **Language:** Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
- **Video Format:** Change and select the proper video system according to your camera video system. If the video system setting is wrong, the video would appear abnormal.
- **Date/Time:** Select the date and time where NVR/DVR is located. Click  and  icon to switch the month or click  icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- **Synchronize with Time Server:** Adjust the NVR/DVR system time same as network time server.
 - **Time Server:** Fill in the Time Server IP address or domain name.
 - **Automatic synchronize at:** Select Automatic Synchronize time to set automatic synchronize time on a daily basis.
 - **Update Now:** User can click **Update Now** button to adjust time right away.

2.5.2 System Advanced Setting

In Advanced of System Configuration, user can setup the daylight saving time, system login setting, and some other system related setting.

Click **Setup** tab > **System Setting**; click **+** to expand list of System Setting and click **System Configuration** > **Advanced** tab.

After changing the settings, click **Apply** button to save the settings. To un-save the new settings, click **Cancel** button.



2.5.2.1 Daylight Saving Time Setting

User can setup daylight saving mode as user is desired.

1. Select the mode of Daylight saving.
 - **Mode 1:** Mode 1 is setting up specific start date/time and end date/time.
 - **Mode 2:** Mode 2 is setting up fixed day of month in every year for start and end date/time.
2. Setup the **Star Date/Time** and **End Date/Time** for Daylight saving period.
3. **Daylight Bias:** Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.
4. Click **Apply** to save the setting.

The screenshot shows a 'System Configuration' dialog box with four tabs: 'General', 'Advanced', 'Config/Update', and 'Multi Monitor'. The 'Advanced' tab is selected. Under the 'Daylight Saving Time' section, which is highlighted with a red border, there are two modes: 'Mode1' and 'Mode2'. 'Mode1' is selected with a radio button. It includes fields for 'Start Date/Time' (23 Jun 2014, 14:52:27), 'End Date/Time' (23 Jun 2014, 14:52:27), and 'Daylight Bias' (00 : 00). 'Mode2' is unselected and includes fields for 'Start Date/Time' (January, First, Sun, 16), 'End Date/Time' (January, First, Sun, 16), and 'Daylight Bias' (00 Hrs.). Below this section are 'Login' settings (Auto Login After System Boot up, Default User: admin) and 'Miscellaneous Setting' (AutoScan Period: 3, Playback Mode: Instant playback, Date Format: mm/dd/yyyy). At the bottom right are 'Apply' and 'Cancel' buttons.

2.5.2.2 Customizing System Login Setting

Enable the conditions in Login section you want the system to automatically carry out. Click **Apply** to save the setting.

- **Auto Login after system boot up:** Login NVR/DVR system automatically when NVR/DVR operating system is started.
- **Default user:** Automatically log in to the selected default user when the NVR/DVR system is executed.

The screenshot shows the 'System Configuration' window with the 'Advanced' tab selected. The 'Login' section is highlighted with a red border. It contains the following settings:

- Daylight Saving Time
 - Mode1
 - Start Date/Time: 23 Jun 2014 14:52:27
 - End Date/Time: 23 Jun 2014 14:52:27
 - Daylight Bias: 00 : 00
 - Mode2
 - Start Date/Time: January First Sun 16
 - End Date/Time: January First Sun 16
 - Daylight Bias: 00 Hrs.
- Login**
 - Auto Login After System Boot up
 - Default User: admin
- Miscellaneous Setting**
 - AutoScan Period: 3
 - Playback Mode: Instant playback
 - Date Format: mm/dd/yyyy

Buttons: Apply, Cancel

2.5.3.3 Customizing System Miscellaneous Setting

Enable the conditions in **Miscellaneous** section you want the system to perform. Click **Apply** to save the setting.

- **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

The screenshot shows the 'System Configuration' dialog box with the 'Advanced' tab selected. The 'Miscellaneous Setting' section is highlighted with a red border. It contains the following fields:

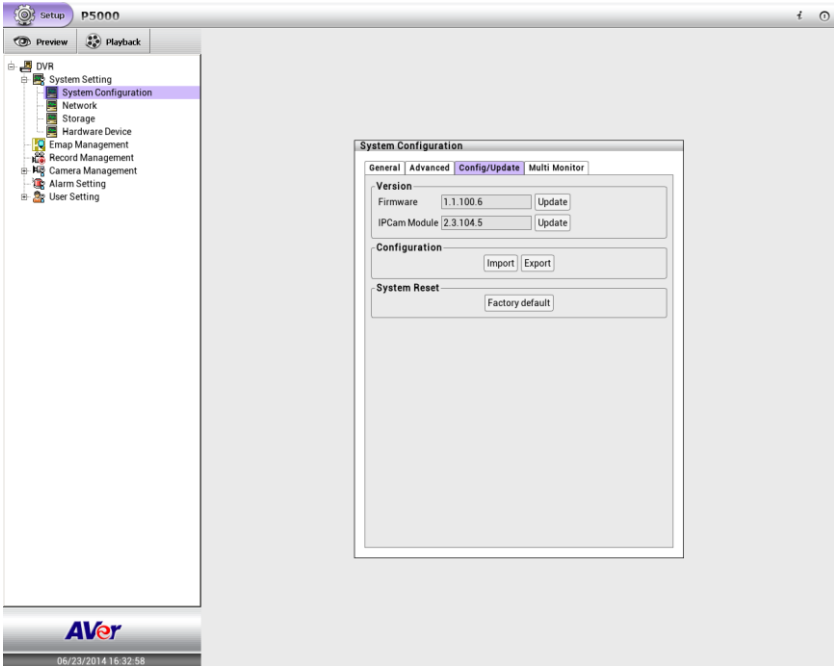
- Daylight Saving Time:** A checkbox is unchecked. Below it are two radio buttons for 'Mode1' and 'Mode2'.
 - Mode1:** Start Date/Time: 23 Jun 2014, 14:52:27; End Date/Time: 23 Jun 2014, 14:52:27; Daylight Bias: 00 : 00.
 - Mode2:** Start Date/Time: January, First, Sun, 16; End Date/Time: January, First, Sun, 16; Daylight Bias: 00 Hrs.
- Login:** A checkbox for 'Auto Login After System Boot up' is unchecked. The 'Default User' is set to 'admin'.
- Miscellaneous Setting (highlighted):** AutoScan Period: 3; Playback Mode: Instant playback; Date Format: mm/dd/yyyy.

At the bottom right of the dialog are buttons for 'Apply' and 'Cancel'.

2.5.4 Update/Export/Import

In Configure Update, user can import the backup configure file to NVR/DVR system and export the configure file to external USB pen drive. Also, user can update the NVR/DVR system's firmware and IP camera patch file.

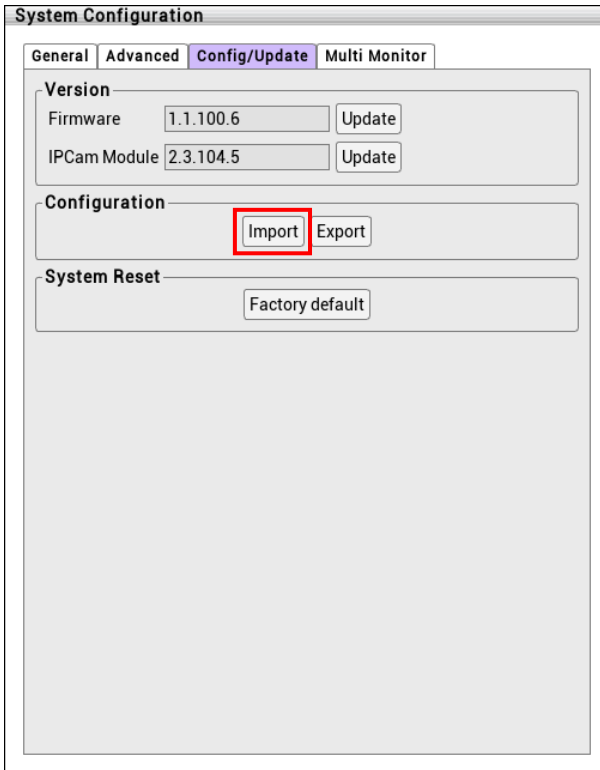
Click **Setup** tab > **System Setting**; click **+** to expand list of System Setting and click **System Configuration** > **Configure/Update** tab.



2.5.4.1 Importing NVR/DVR System Configuration

To regain the same settings back from previously backup configuration file.

1. Plug the USB pen drive into the NVR/DVR unit that contains the backup configuration file that user has exported previously.

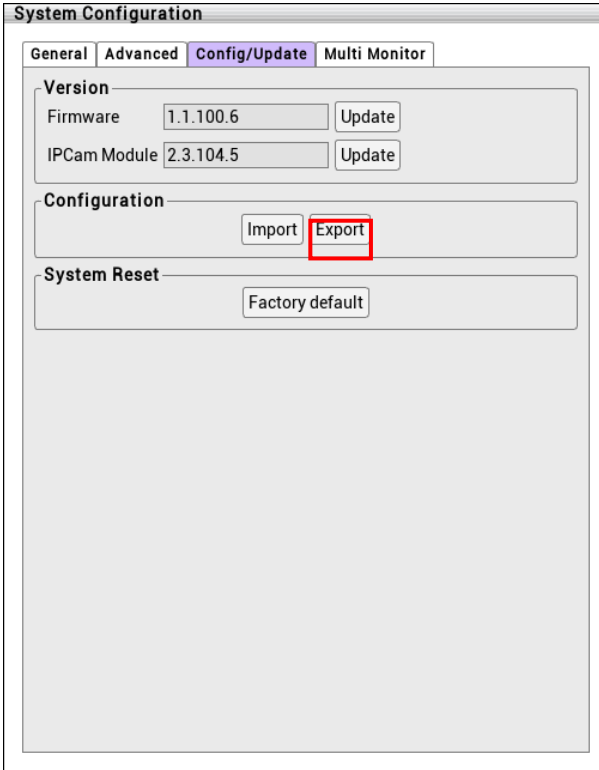


2. In Configure/Update page, click **Import** button in Configuration section.
3. In Import dialog box, user should see the backup configuration file path and file name.
4. Then, click **Import** button.
5. A message dialog box will appear to remind user that the NVR/DVR system will reboot after restoring the backup configuration file. Click **OK** button to continue. To cancel click **Cancel** button.
6. After restoring backup configuration file, a message dialog box will appear to inform user that import process is completed. Click **OK** button and the NVR/DVR system will reboot.

2.5.4.2 Exporting NVR/DVR System Configuration

Backup a copy of all the settings and allows you to regain the same settings back.

1. Plug in the USB pen drive for saving configuration file.
2. In Configure/Update page, click **Export** button in Configuration section.

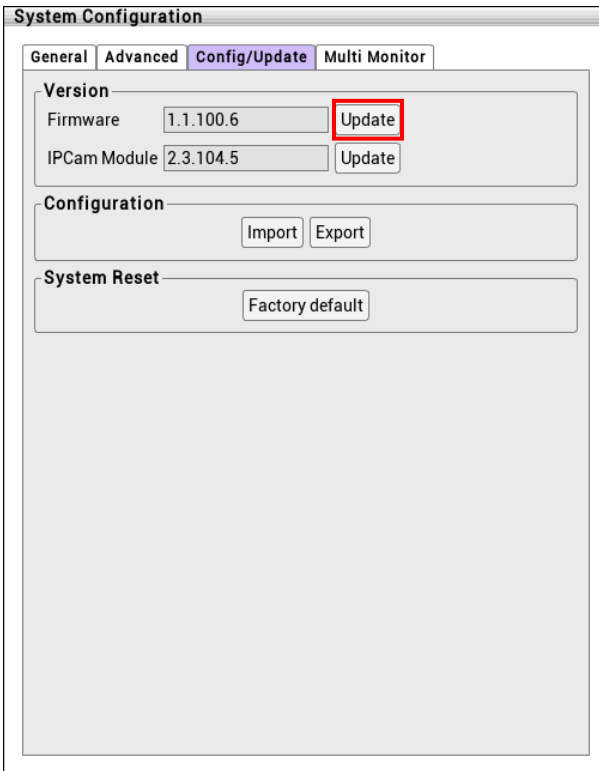


3. In Export dialog box, user should see the backup configuration file path and default backup configuration file name.
4. Next, click **Export** button.
5. A message dialog box will appear to notice user that export process is completed. Click **OK** button to finish the export process.
6. To restore the backup configuration file to NVR/DVR system, refer to [Chapter 2.5.4.1](#).

2.5.4.3 Upgrading NVR/DVR Firmware

To update the firmware of NVR/DVR system.

1. Plug the USB pen drive that contains the NVR/DVR firmware file. To get the newest NVR/DVR firmware, go to website <http://www.aver.com> > **Support** > **Download center**.
2. In Configure/Update page, click **Update** button of Firmware.

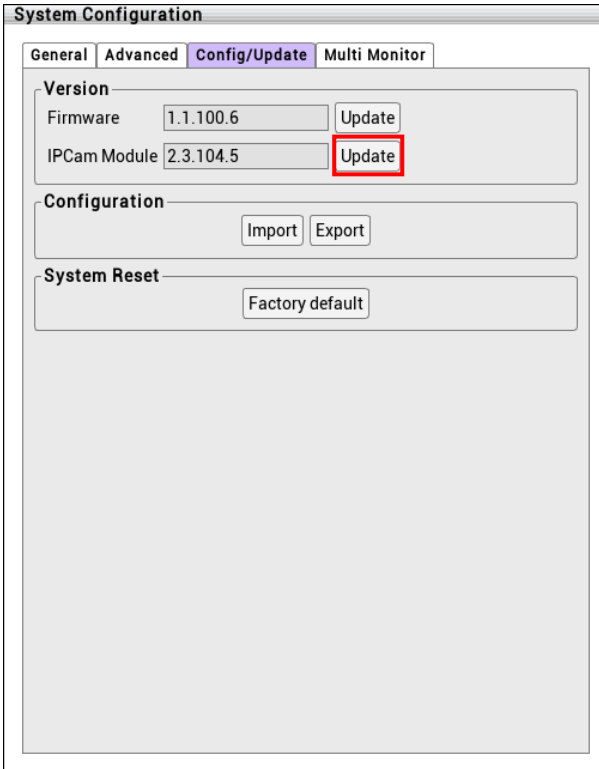


3. In upgrade dialog box, the NVR/DVR system will detect the firmware file and shows the firmware file path, firmware file name, and version information.
4. Click **Upgrade** button and an upgrade process dialog box will appear.
5. A message dialog box will appear to inform user that the upgrade process is completed. Click **OK** button to restart the NVR/DVR system.

2.5.4.4 Upgrading IP Camera Module Patch

To update the firmware of NVR/DVR system.

1. Plug the USB pen drive that contains the IP camera patch file.
2. In Configure/Update page, click **Update** button of IPCam Module.



3. In upgrade dialog box, the NVR/DVR system will detect the patch file and show the path of patch file, patch's file name, and version information.
4. Click **Upgrade** button and an upgrade process dialog box will appear.
5. A message dialog box will appear to inform user that the upgrade process is completed. Click **OK** button to finish the upgrade process.

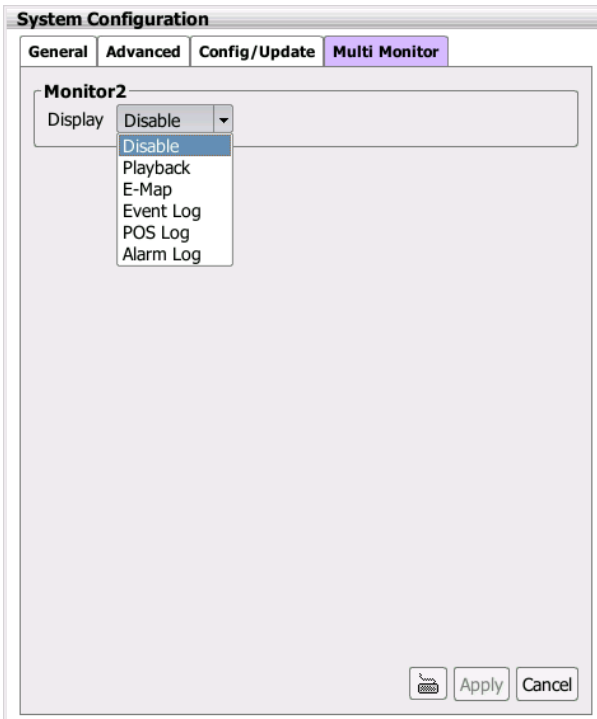
2.5.5 Setup Dual Monitor

The NVR/DVR system support dual monitor connection. User can choose the function UI to display on second monitor.



In default, the main monitor is the monitor connect on HDMI port.

1. Click **Setup** tab > **System Setting**; click + to expand list of System Setting and click **System Configuration** > **Multi Monitor** tab.
2. Select the function UI that wants to display on Monitor 2.
3. Click **Apply** to save the setting.



4. Click **Switch Control Monitor** button can change control to another monitor. User can operate the function on another monitor.

2.5.6 Reset to Factory Default

Reset the NVR/DVR system back to factory default value. All configurations will be lost after reset to factory default.

Click **Apply** button of Factory default and NVR/DVR system will reboot automatically.

The screenshot shows a web interface titled "System Configuration" with four tabs: "General", "Advanced", "Config/Update", and "Multi Monitor". The "Config/Update" tab is active. It contains three sections: "Version" with input fields for "Firmware" (1.1.100.6) and "IPCam Module" (2.3.104.5), each with an "Update" button; "Configuration" with "Import" and "Export" buttons; and "System Reset" with a "Factory default" button highlighted by a red rectangular box.

2.6 Network Setting

Select type of IP mode, setup the IP address of NVR/DVR, and configure the DDNS.

The screenshot shows the 'Network Setting' configuration window. The 'Server Name' is 'P5000'. The 'Network1' tab is active, showing the 'MAC Address' as '00-25-90-ea-3c-28'. The 'Static IP' mode is selected. The 'IP Information' section is filled with: IP: 192.168.111.111, Mask: 255.255.255.0, Gateway: 192.168.111.254, and DNS: . . . The 'Set as Default Gateway' checkbox is checked. The 'PPPoE' section is empty. The 'DDNS' section has: Domain Name, ID, Password, Server Name: dyndns.org, and Server Port: 80. Buttons for 'Apply', 'Cancel', and 'Refresh' are at the bottom.

1. Click **Setup** tab > **System Setting**; click + to expand list of System Setting and click **Networking**.
2. **MAC Address**: Displays the MAC address of Ethernet port on LAN card.
3. Select the IP mode – **Static IP, DHCP, PPPOE**.
 - **Static IP**: Assign a fixed IP address for NVR/DVR server
 - **IP ADDRESS**: Assign a constant IP address which a real IP addresses given from ISP.



Do Not assign the NVR/DVR server to 1.0.0.0 network segment. It will because the NVR/DVR cannot access to Internet due to the un-recognize 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 NVR/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.
- **DHCP:** Uses DHCP server assigning NVR/DVR server an IP address.
 - **PPPOE:** Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Enter **User ID** and **Password** that is given by your ISP for PPPOE connecting authority.
4. **Set as default gateway:** The NVR/DVR system supports dual LANs, but only one LAN port can be set as default gateway.
 5. Setup the DDNS. To use this feature, register your own domain name server first. **Only the LAN port is set as default gateway can be set DDNS function.**
 - **Domain Name:** The user has applied on DDNS website.
 - **ID:** The account ID that user has created on DDNS website.
 - **Password:** The password that user has setup on DDNS website.
 - **Server Name:** The domain name server that user has applied the domain name.
 - **Server Port:** The port is use to connect the domain name server.
 6. After enter all necessary information, click **Apply** button to save the settings.
 7. To setup the **Network 2**, click **Network 2** tab and follow above steps.

Network Setting

Server Name

Network1 **Network2** **Advanced**

MAC Address

Static IP
 DHCP

IP Information

IP Gateway
Mask DNS
 Set as Default Gateway

PPPoE

PPPoE

User ID
Password

DDNS

Domain Name
ID
Password
Server Name
Server Port

2.6.1 Setup NVR/DVR Server Name

Assign a name for the NVR/DVR system. Alphabet letters and numbers only.

1. Click **Setup** tab > **System Setting**; click **+** to expand list of System Setting and click **Networking**. User will see the Network Setting dialog box appear.
2. Enter the desire name in **Server Name** column, then, click **Apply** button to save the settings.

Network Setting

Server Name

Network1 | **Network2** | **Advanced**

MAC Address

Static IP
 DHCP

IP Information

IP Gateway
Mask DNS

Set as Default Gateway

PPPoE

PPPoE

User ID
Password

DDNS

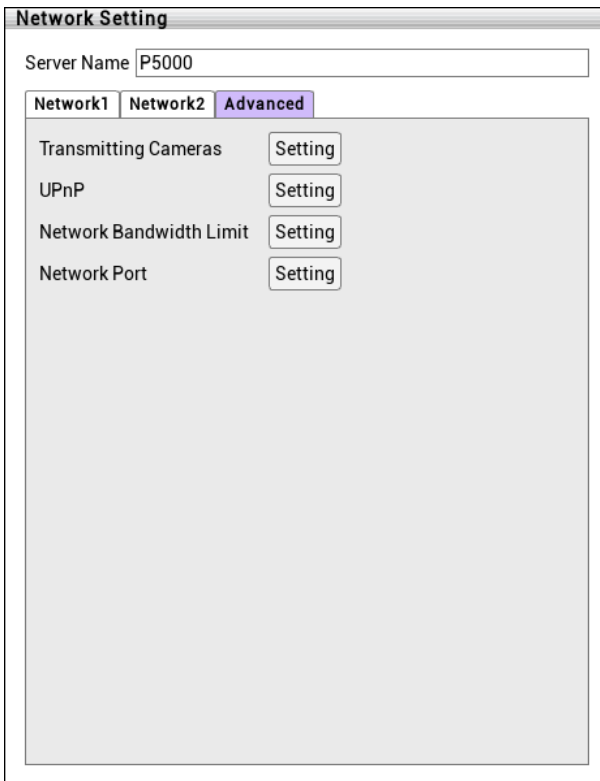
Domain Name
ID
Password
Server Name
Server Port

2.6.2 Network Advanced Setting

User can setup camera transmitting, UPnP function, bandwidth limit setting, and network port setting.

Click **Setup** tab > **System Setting**; click + to expand list of System Setting and click **Networking** > **Advanced** tab.

Click **Setting** to configure.



The screenshot shows a web interface titled "Network Setting". At the top, there is a text input field for "Server Name" containing the value "P5000". Below this, there are three tabs: "Network1", "Network2", and "Advanced". The "Advanced" tab is currently selected and highlighted in purple. Underneath the tabs, there is a list of four settings, each with a "Setting" button to its right:

- Transmitting Cameras
- UPnP
- Network Bandwidth Limit
- Network Port

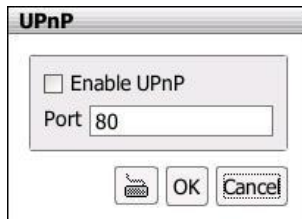
2.6.2.1 Setup Transmitting Camera

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using PCViewer, Remote site control, and iPhone/Andorid Viewer. To select all the cameras, enable the **ALL** check box.

2.6.2.2 Setup UPnP

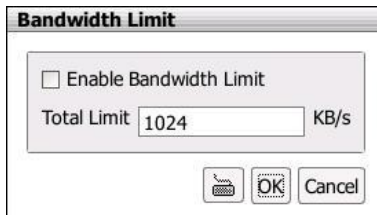
Assign a port number for UPnP service. Click **OK** to save the setting.

This function is working when the router had enabled the UPNP function and had opened the port, which had assigned for UPNP setting, for the NVR/DVR system.



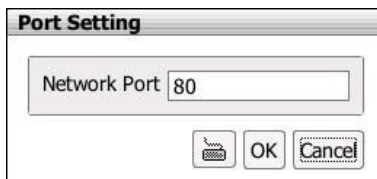
2.6.2.3 Setup Bandwidth Limit

Set the network bandwidth consumption limit for remote accessing. Click **OK** to save the setting.



2.6.2.4 Setup Network Port

Assign a **Network Port** for remote accessing connection.



2.7 Storage Setting

In storage setting, user can add the storage path, remove the storage path, format hard disk, and set the hard disk recycle time.

Click **Setup** tab > **System Setting**; click **+** to expand list of System Setting and click **Storage**.

The screenshot shows the 'Storage Setting' window with the 'Storage' tab selected. It features a table for 'Use for Recording HDD', a 'Refresh' button, and a 'Detected HDD' table. Below the detected HDD table are buttons for 'Create RAID', 'Destroy RAID', and 'Format'. There are also sections for 'USB/DVD' and 'Space Management' with various checkboxes and input fields, and an 'HDD Location' button at the bottom.

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input type="checkbox"/>	SATA-1:WD10EALX-559BA0	N/A	953869 MB	785151 MB	Normal	OK	100%	
<input type="checkbox"/>	SATA-2:ST3250312CS	N/A	238475 MB	12223 MB	Unformat	OK	100%	

Name	Type	Capacity	Free Space
------	------	----------	------------

Space Management

- Delete Recorded Data After Days
- Delete Log Data After Days
- Overwrite

Buttons: Create RAID, Destroy RAID, Format, HDD Location, Apply, Cancel

In Storage page, click **HDD Location** button can view the each HDD bay number. To exit, click **Cancel** button.

2.7.1 Formatting Hard Disk

Follow the steps below to format the hard disk for first time installation or re-format the hard disk to the type that can be saved recording video.

1. In Storage Setting page, click **Storage** tab.
2. In Storage Setting page, user should see the hard disk in Detected HDD section that NVR/DVR system has detected.

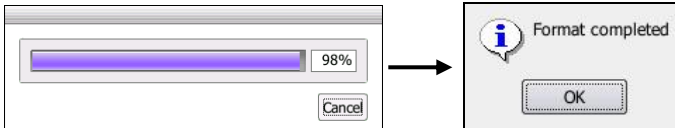


If the installed hard disk drive doesn't show in Free HDD list section, click **Scan** to re-detect it.

3. Select the hard disk from Detected HDD section and click **Format** button.

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input type="checkbox"/>	SATA-1:WD10EALX-559BA0	N/A	953869 MB	785151 MB	Normal	OK	100%	
<input type="checkbox"/>	SATA-2:ST3250312CS	N/A	238475 MB	12223 MB	Unformat	OK	100%	

4. Click **Yes** to confirm the format process.
5. User will see the format process bar in percentage. When the format process is done, the percentage is displayed in 100% and click **OK** to complete the format process.



6. After formatting, the hard disk is ready to set as a storage path.

2.7.2 Creating RAID Drive

RAID (redundant array of independent disks) is a storage technology that combines multiple disk drive components into a logical unit for the purposes of data redundancy and performance improvement.

The NVR/DVR system supports RAID 0, RAID 1, and RAID 10. Each RAID description is shown when user chooses the RAID type.


Create RAID

Step A: Select HDD


Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.
<input checked="" type="checkbox"/>	SATA-1:WD10EALX-559BA0	N/A	953869 MB	785151 MB	Normal	OK
<input type="checkbox"/>	SATA-2:ST3250312CS	N/A	238475 MB	12223 MB	Unformat	OK

Refresh Next


Step B: Select RAID Type




RAID 0
Create one large virtual HDD for efficiency operation



RAID 1
Create mirroring HDD(s)



RAID 5
Require at least 3 or more HDD(s) to create a virtual HDD with better protection mechanism (1 HDD fail is allowed)



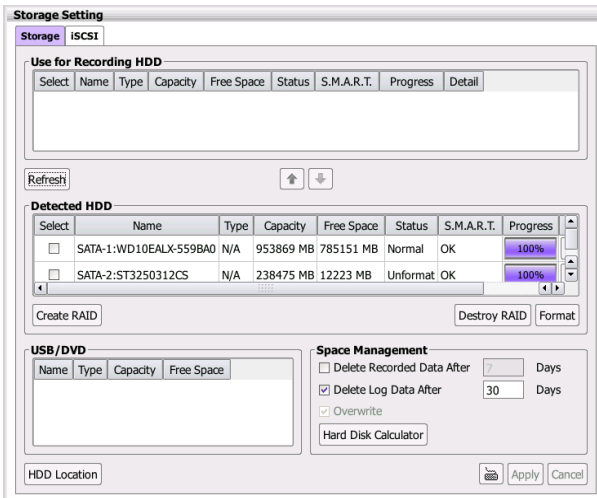
RAID 10
Require an even number of HDD(s) (at least 4xHDD) to create a virtual HDD with better protection mechanism

Back Build RAID

HDD Location Cancel

Follow the below steps to build a RAID storage.

1. In Storage Setting page, click **Create RAID** button.



2. In Create RAID page, select hard disks (**Step A**) and click **Next** button to go to Step B.



- Then, select the RAID type (**Step B**). There are some rules for each RAID type; therefore read the description of each RAID type before choosing.

Create RAID


Step A: Select HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.
<input checked="" type="checkbox"/>	SATA-1:WD10EALX-559BA0	N/A	953869 MB	785151 MB	Normal	OK
<input checked="" type="checkbox"/>	SATA-2:ST3250312CS	N/A	238475 MB	12223 MB	Unformat	OK

Refresh Next


Step B: Select RAID Type

RAID 0




Create one large virtual HDD for efficiency operation

RAID 1




Create mirroring HDD(s)

RAID 5



Require at least 3 or more HDD(s) to create a virtual HDD with better protection mechanism (1 HDD fail is allowed)

RAID 10



Require an even number of HDD(s) (at least 4xHDD) to create a virtual HDD with better protection mechanism

Back Build RAID

HDD Location Cancel

- Click **Build RAID** button to start RAID creating process. To re-choose the hard disk or RAID type, click **Back** button. Click **Cancel** button to exit Create RAID page.
- Next, click **Yes** to confirm the process.
- When RAID storage is built, click **OK** to complete the process.
- When the RAID is created, you should see the RAID drive in Detected HDD section.

Storage Setting

Storage **ISCSI**

Use for Recording HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input type="checkbox"/>								

Refresh ↑ ↓

Detected HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input type="checkbox"/>	Volume1	RAID 0	476160 MB	476160 MB	Unformat	OK	100%	Detail

Create RAID Destroy RAID Format

USB/DVD

Name	Type	Capacity	Free Space

HDD Location Space Management

Space Management

Delete Recorded Data After Days

Delete Log Data After Days

Overwrite

Hard Disk Calculator

HDD Location Apply Cancel

8. Click **Detail** button of RAID drive, it displays the hard disks location of RAID on NVR/DVR unit and related information.

[Not]

- When the word “STAT#” is display in red text, it means HDD status is un- normal.
 - When HDD status is shown as “**N/A**”; it means HDD status is normal and the word “**SATA#**” is display in white text.
9. The RAID drive needs to format before using it as a storage path. Select the RAID drive and click **Format** button.
 10. After formatting, the RAID drive can be set as a storage path.

2.7.3 Setup Storage Path for Recording Data



- Without storage path, the NVR/DVR system won't be able to record.
- After storage path is added, the system will start to record.

Add a storage path for saving recording video data.

1. In Storage Setting page, click **Storage** tab. Select hard disk, RAID drive, or iSCSI HDD and click button.

The screenshot shows the 'Storage Setting' interface with the 'Storage' tab selected. It features a table for 'Use for Recording HDD', a 'Detected HDD' table with one entry, and sections for 'USB/DVD' and 'Space Management'.

Storage Setting

Storage | iSCSI

Use for Recording HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
--------	------	------	----------	------------	--------	------------	----------	--------

Refresh

Detected HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input checked="" type="checkbox"/>	Volume1	RAID 0	476864 MB	394816 MB	Normal	OK	100%	Detail

Create RAID Destroy RAID Format

USB/DVD

Name	Type	Capacity	Free Space
------	------	----------	------------

Space Management


Delete Recorded Data After Days

Delete Log Data After Days

Overwrite

Hard Disk Calculator

HDD Location Apply Cancel

- The selected hard disk, RAID drive, or iSCSI HDD will be added into **Use for Recording HDD** section.
- To remove the hard disk or RAID drive, select hard disk, RAID drive, or iSCSI HDD in Use for Recording HDD section and click  button.

Storage Setting

Storage **iSCSI**

Use for Recording HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input type="checkbox"/>	Volume1	RAID 0	476864 MB	394816 MB	Normal	OK	100%	Detail

Refresh ↑ ↓

Detected HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail

Create RAID Destroy RAID Format

USB / DVD

Name	Type	Capacity	Free Space


Space Management

Delete Recorded Data After Days

Delete Log Data After Days

Overwrite

Hard Disk Calculator

HDD Location 

2.7.4 Setup Hard Disk and Event Log Recycle Time

- **Delete Recorded Data After Days:** If user wants 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.
- **Delete Log Data After Days:** If you want the system to automatically erase the logs after a certain days, enable the **Delete Log Data After** check box and enter the numbers of days in **Days** text box.
- **Overwrite:** When there is not enough free space to record one hour data, the system automatically replaces the oldest data. The default is enabled and cannot be changed.

The screenshot shows the 'Storage Setting' dialog box with the 'Storage' tab selected. It features several sections for configuring storage and recording settings.

Storage Setting

Storage | ISCSI

Use for Recording HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
<input type="checkbox"/>	Volume1	RAID 0	476864 MB	394816 MB	Normal	OK	100%	Detail

Refresh [Up Arrow] [Down Arrow]

Detected HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
--------	------	------	----------	------------	--------	------------	----------	--------

Create RAID Destroy RAID Format

USB/DVD

Name	Type	Capacity	Free Space
------	------	----------	------------

HDD Location

Space Management

- Delete Recorded Data After Days
- Delete Log Data After Days
- Overwrite

Hard Disk Calculator

[Apply] [Cancel]

2.7.5 iSCSI Setting

Connect the iSCSI server on your network to use as a storage path for saving recorded data.


1. Enter the following information to connect the iSCSI server on your network.
 - **Initiate Name:** The initiate name of iSCSI server. User can find out on iSCSI server.
 - **IP Address:** IP address of iSCSI server.
 - **Port:** The port is used to connect with iSCSI server.
 - **User name:** The user name that is used to login iSCSI server.
 - **Password:** The password that is used to login iSCSI server.

The screenshot shows a 'Storage Setting' window with a 'Storage' tab and an 'iSCSI' sub-tab. The 'iSCSI Setup' section contains the following fields: 'Initiate Name' (iqn.2), 'IP Address' (192.16), 'Port' (3), 'User Name' (admin), and 'Password' (empty). Below these fields, the status is 'Connected...' and there is a 'Disconnect' button. The 'iSCSI HDD' section has a 'Refresh' button and a table with the following data:

Name	Type	Capacity	Free Space	Status
iSCSI-6:VessRAID 1720i	iSCSI	6288384 MB	6288384 MB	Unformat

At the bottom right of the window, there are 'Connect' and 'Cancel' buttons.

2. Click **Connect** button to connect with iSCSI server.
3. When connection is successful, user should see the iSCSI HDD is list in iSCSI HDD section.



4. Click **Storage** tab, user will see the iSCSI HDD is listed in Detected HDD section.
5. To format iSCSI HDD, select it and click **Format** button.
6. To add iSCSI HDD as a storage path, select it and click  button.

Storage Setting

Storage | iSCSI

Use for Recording HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T	Progress	Detail
<input type="checkbox"/>	Volume1	RAID 0	953824 MB	13567 MB	Normal	OK	100%	Detail
<input type="checkbox"/>	Volume2	RAID 1	953792 MB	20223 MB	Normal	OK	100%	Detail

Refresh  

Detected HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T	Progress	Detail
<input type="checkbox"/>	iSCS...	iSCSI	628838...	6288384 ...	Unformat	OK	100%	Detail

Create RAID Destroy RAID Format

USB / DVD


Name	Type	Capacity	Free Space

Space Management

Delete Recorded Data After Days

Delete Log Data After Days

Overwrite

HDD Location 

2.8 Camera Management

Connect and configure the camera channels. The total camera channels are up to 36.
Click **Setup** tab > **Camera Setting**.

Camera Management

Camera List

No.	Type	IP Address	Protocol	Model	Status	FPS	Bitrate	Detail
1	IP				Fail	0	0 KB	Setting
2	IP				Fail	0	0 KB	Setting
3	IP				Fail	0	0 KB	Setting
4	IP				Fail	0	0 KB	Setting
5	IP				Fail	0	0 KB	Setting
6	IP				Fail	0	0 KB	Setting
7	IP				Fail	0	0 KB	Setting

Capacity

Used(MP) Available(MP)
All CHs 0.00 / 33.18

Search List

Search Active IP

No.	IP Address	Port	P
-----	------------	------	---

Camera Information

Name

IP Address

Port

Protocol


Model

Video Channel

User Name

Password

Add to Camera



2.8.1 Connect the Analog Camera

1. Connect the DVI cable to the video in port of NVR/DVR.
2. Connect the analog camera to the DVI cable of NVR/DVR and power on the analog camera.
3. In Camera List, select the channel that connect with Analog camera and select **Type** of camera as **Analog**.

Camera Management

Camera List

No.	Type	IP Address	Protocol	Model	Status	FPS	Bitrate	Detail
1	IP				Fail	0	0 KB	Setting
2	IP				Fail	0	0 KB	Setting
3	IP				Fail	0	0 KB	Setting
4	Analog				Fail	0	0 KB	Setting
5	IP				Fail	0	0 KB	Setting
6	IP				Fail	0	0 KB	Setting
7	IP				Fail	0	0 KB	Setting

Capacity

Used(MP) Available(MP)
All CHs 0.00 / 33.18

Camera Information


Name: camera2
IP Address:
Port: 80
Protocol: AVer
Model: FB2027-1
Video Channel: 1
User Name:
Password:
Add to Camera: 02

Apply Cancel Delete

Search List

Search Active IP

No.	IP Address	Port	P
-----	------------	------	---



4. Next, click **Apply** to make the connection. After connection is successful, user should see the live video of analog camera.
5. To setup detail of analog camera, refer to [Chapter 2.8.3](#).

2.8.2 Connect the IP Camera

1. Click **Setup** tab > **Camera Setting**.
2. In Camera Information page is divided into 4 areas –**Camera List**, **Capacity**, **Search List**, and **Camera Information**.
 - **Camera List:** Lists all camera channels. When the channel has connected IP camera, it displays the IP Address, Protocol, Model, connection Status, FPS, Bitrate, and configure detail button of the connected IP camera.
 - **Capacity:** Displays the all connected IP cameras' resolutions in Used (MP) column and remain resolutions are display in Available (MP) column.
 - **Search List:** To perform the auto search IP camera on your LAN network and list search result. Also, the NVR/DVR system provides **Active IP** function for user to configure **AVer IP cameras series** from NVR/DVR site (see also [Chapter 2.8.2.1](#)).
 - **Camera Information:** For entering the IP camera's parameters when connects the IP camera.

Camera Management

Camera List

No.	Type	IP Address	Protocol	Model	Status	FPS	Bitrate	Detail
1	IP				Fail	0	0 KB	Setting
2	IP				Fail	0	0 KB	Setting
3	IP				Fail	0	0 KB	Setting
4	IP				Fail	0	0 KB	Setting
5	IP				Fail	0	0 KB	Setting
6	IP				Fail	0	0 KB	Setting
7	IP				Fail	0	0 KB	Setting

Capacity

All Chs Used(MP) 0.00 / Available(MP) 33.18

Camera Information

Name

IP Address

Port

Protocol

Model

Video Channel


User Name

Password

Add to Camera

Search List

No.	IP Address	Port	P
<input type="text"/>			



3. Click **Search** button to find IP cameras on LAN network.
4. In Search result list, select the IP camera that user wants to connect. Then, select the IP camera channel that user wants to connect the selected IP camera. Enter the **User name** and **Password** of IP camera if the connection authentication is required.
5. Click **Apply** button to make a connection.

Camera Management

Camera List

No.	Type	IP Address	Protocol	Model	Status	FPS	Bitrate	Detail
1	IP				Fail	0	0 KB	Setting
2	IP				Fail	0	0 KB	Setting
3	IP				Fail	0	0 KB	Setting
4	IP				Fail	0	0 KB	Setting
5	IP				Fail	0	0 KB	Setting
6	IP				Fail	0	0 KB	Setting
7	IP				Fail	0	0 KB	Setting

Capacity

Used(MP) Available(MP)
All CHs 0.00 / 33.18

Search List

Search Active IP

No. /	IP Address
1	http://10.100.91.53:80/onvif/device_servic
2	http://10.100.91.56:80/onvif/device_servic

Camera Information

Name

IP Address

Port

Protocol


Model

Video Channel

User Name

Password

Add to Camera



6. After connection is successful, user should see the live video is displayed.

Camera Management

Camera List

No.	Type	IP Address	Protocol	Model	Status	FPS	Bitrate	Detail
1	IP	10.100.91.53	AVer	FX20...	Conn...	29	2938 ...	Setting
2	Analog				Conn...	0	6 KB	Setting
3	IP	10.100.91.31	AVer	FB30...	Conn...	24	2437 ...	Setting
4	IP	10.100.91.56	AVer	FB30...	Conn...	14	5885 ...	Setting
5	IP				Fail	0	0 KB	Setting
6	IP				Fail	0	0 KB	Setting
7	IP				Fail	0	0 KB	Setting

Capacity

Used(MP) Available(MP)
All Chs 0.92 / 32.26

Camera Information

Name: camera1
 IP Address: 10.100.91.53
 Port: 80
 Protocol: AVer
 Model: FX2000
 Video Channel: 1
 User Name: admin
 Password: *****
 Add to Camera: 01

Search List

Search Active IP

IP Address	Port
http://10.100.91.53:80/onvif/device_service	80
http://10.100.91.56:80/onvif/device_service	80

7. Also, user can enter the following data in Camera Information section and click **Apply** button to make a connection of the IP camera.
- **Name:** Give a name for the IP camera.
 - **IP Address:** Enter the IP camera's IP address.
 - **Port:** Enter the port of connecting IP camera.
 - **Protocol:** Enter the brand name of the IP camera. For example: AVer, AXIS...etc.
 - **Model:** Enter the model type of the IP camera. For example: SF2012H-B
 - **User Name:** The user name of IP camera for authentication when connect to the IP camera.
 - **Password:** The password of IP camera for authentication when connect to the IP camera.
 - **Add to Camera:** The channel that is going to connect the IP camera.
8. To configure the IP camera's detail setting, please refer to [Chapter 2.8.3](#).
9. To connect another IP camera, repeat the above steps.

2.8.2.1 Use Active IP Function

The Active IP function allows user to configure the AVer IP camera series' IP mode, IP address, subnet mask, gateway, port, login ID, and password on NVR/DVR system.



The Active IP function supports AVer IP camera series only.

1. In Camera Information dialog box, click **Search** button. Then, select the IP camera that is in red text from Search List.

Camera Management

Camera List

No.	Type	IP Address	Protocol	Model	Status	FPS	Bitrate	Detail
1	IP	10.100.91.53	AVer	FX20...	Conn...	29	2938 ...	Setting
2	Analog				Conn...	0	6 KB	Setting
3	IP	10.100.91.31	AVer	FB30...	Conn...	24	2437 ...	Setting
4	IP	10.100.91.56	AVer	FB30...	Conn...	14	5885 ...	Setting
5	IP				Fail	0	0 KB	Setting
6	IP				Fail	0	0 KB	Setting
7	IP				Fail	0	0 KB	Setting

Capacity

Used(MP)	Available(MP)
All CHs 0.92	/ 32.26

Camera Information

Name: camera1
IP Address: 10.100.91.53
Port: 80
Protocol: AVer
Model: FX2000
Video Channel: 1
User Name:
Password:
Add to Camera: 01

Search List

IP Address	Port
10.100.91.53	80
10.100.91.31	80

Active IP

2. Click **Active IP** button and Active IP dialog box is appeared.

- In Active IP dialog box, user can change IP mode of the IP camera and configure related parameters.

The screenshot shows a dialog box titled "Active IP". It contains two main sections: "Aver IP Setting" and "Local IP Information".

Aver IP Setting

- Use the following IP address
- Obtain an IP automatically (DHCP)

IP Information

IP	10 .100.91 .53
Mask	255.255.255.0
Gateway	10 .100.91 .254
Port	80
User ID	
Password	

Local IP Information

IP	10 .100.91 .51
Mask	255.255.255.0
Gateway	10 .100.91 .254

At the bottom right, there are three buttons: a mouse cursor icon, "OK", and "Cancel".

- After configuring, click **OK** to save the setting.

2.8.3 Camera Detail Configuration


User can configure the IP camera's stream settings and related parameters.

Click **Setup** tab > **Camera Setting**; click **+** to expand list of Camera Setting and click the **Camera number** that user wants to configure. Or, click **Setting** button of IP camera in Camera Management dialog box.



The camera functions are depended on IP/analog camera has supported. The un-available functions are is gray out.

Camera 3



Info Basic Preference Exposure Stream ROI Smart Stream Privacy Mask Motion Detection

Camera Information

Name	camera3	Model	FB3027
IP Address	10.100.91.31	Video Channel	1
Port	80	User Name	admin
Protocol	AVer	Password	*****

Capacity

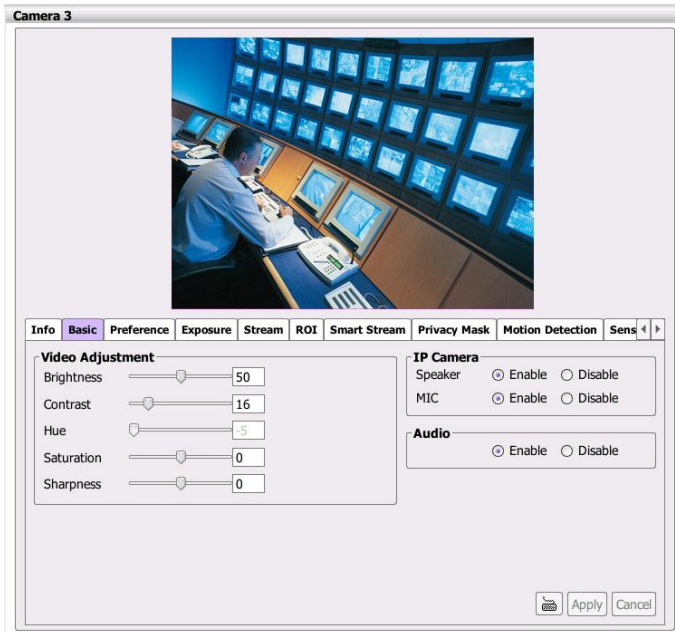
All CHs	Used(MP)	1.27	/ Available(MP)	31.91
---------	----------	------	-----------------	-------

■ Info

Display the name, IP, port, protocol, model, channel, Login ID, password, and resolution of IP camera.

■ Basic

- ◇ **Video Adjustment:** Configure the Brightness, Contrast, Hue, Saturation, and Sharpness of IP camera.
- ◇ **IP Camera:** Enable/disable **Speaker** and **MIC** of IP camera.
- ◇ **Audio:** Enable/disable audio function of IP camera.

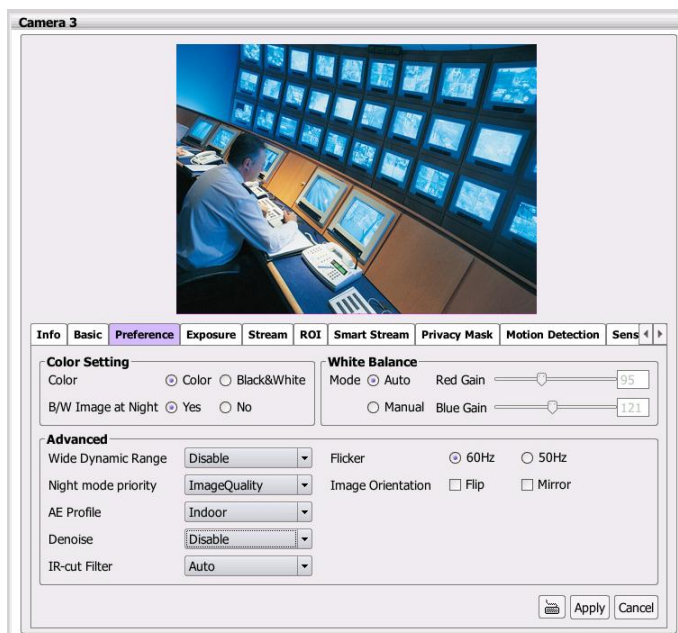


■ Preference

In Preference page, user can tune the IP camera white balance, select display color or black & white, set the flicker frequency, change the video orientation, and adjust the some advance settings. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



The Preference setting only support for IP camera.



➤ Color Setting

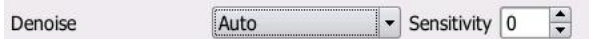
- **Color:** Select the **Color** or **Black&White** mode.
- **B/W Image at Night:** Enable/disable to switch to B/W during night mode.

➤ White Balance: Adjust white balance in auto or manual mode.

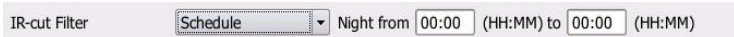
➤ Advanced

- **Wide Dynamic Range:** WDR effectively balances the video image on the screen in both bright and dark areas to make it possible to see clear details. There are 3 levels for your choice or disable WDR.
- **Night mode priority:** Select the one you want to prioritize during night mode image quality or frame rate.

- **Denoise:** Select Disable/2D/3D/Auto to reduce the excessive noise on the video image. Select **Auto** and set the **Sensitivity** level.



- **AE Profile (Auto Exposure Profile):** Select the auto exposure scenes – Indoor, Outdoor, or ManualIRIS.
- **IR-cut Filter:** The IR cut filter is a mechanism that prevents the infrared light from hitting the sensor. During day time the IR light has an interfering effect on the image quality of the camera, which leads to corruption of color and contrast as well as blurring. At night time, the infrared light is used to achieve more detailed images in the dark or with low ambient light.
 - ✧ **Auto:** automatically switch on/off the IR cut filter. It uses the light sensor in front of the camera to determine the level of ambient light.
 - ✧ **Day Mode:** switch on the IR cut filter at all time to prevent the IR light from hitting the sensor so that the color will not be corrupted.
 - ✧ **Night Mode:** switch off the IR cut filter at all time to let the sensor receives the IR light which could help improve low light sensitivity.
 - ✧ **Schedule:** specify the time on when to switch off the IR cut filter to night mode. The time format is hh:mm and in 24-hour clock time.



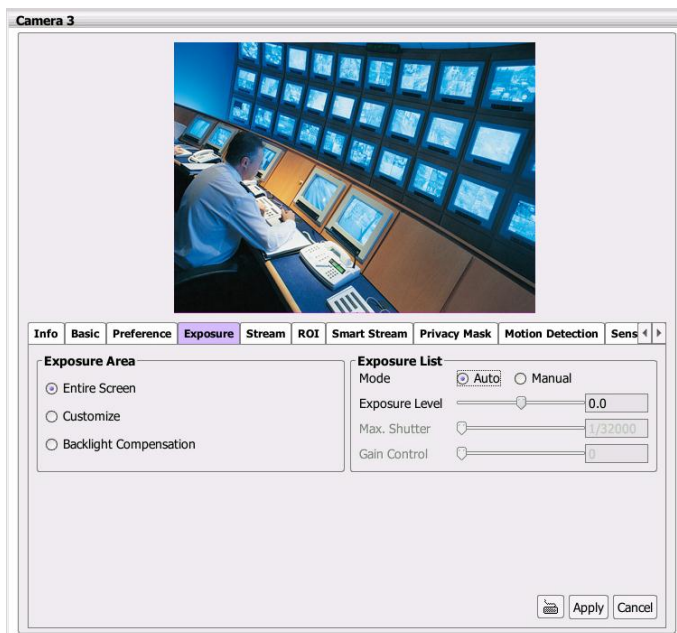
- **Flicker:** Select the flicker frequency.
- **Image Orientation:** To **Flip** or **Mirror** the video on screen.

■ Exposure

In Exposure page, user can set the exposure area, exposure mode, and calibrate the DC Iris. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



The Exposure setting only support for IP camera.



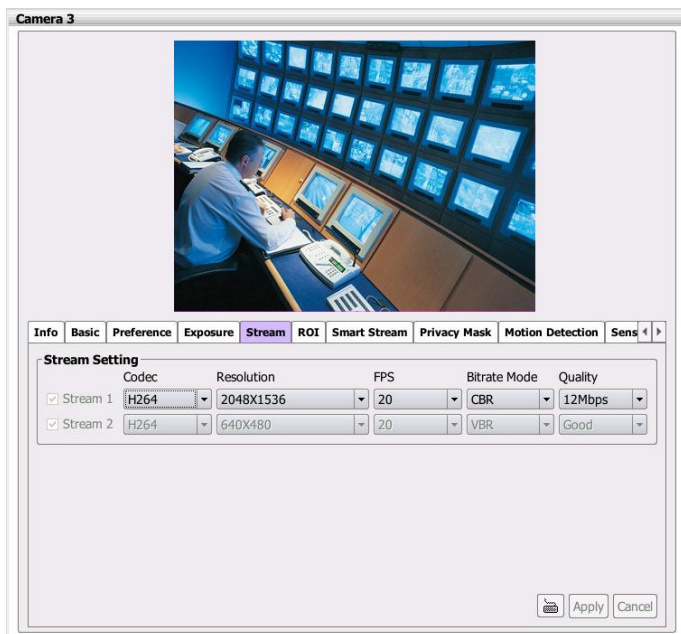
- **Exposure Area:** Select the exposure area to define the light distribution and bring out more details.
 - **Entire screen:** measure the entire screen to adjust the exposure.
 - **Customize:** measure the exposure to where the adjustable and movable frame on the screen is located. Move the spot to dark zone to adjust the light condition.
 - **Backlight compensation:** measure the exposure at the center of the screen.
- **Exposure List:** Select to **Auto** or **Manual** adjust the exposure.
 - **Auto:** adjust exposure level from -2.0 to +2.0.
 - **Manual:** adjust max shutter and gain control.

■ Stream

User can setup **Codec**, **Resolution**, **FPS**, **Bitrate Mode**, and **Quality** of **Stream 1** on the IP camera channel. The Stream 1 is enabled in default. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



The NVR/DVR system doesn't support for stream 2 setting.



■ ROI

ROI stands for Region on Interest. It helps users to optimize bandwidth and storage. Users can select 1 or 2 key area(s) to transmit as separate streams for targeted preview and recording.



The ROI setting only support for IP camera.

1. Select the **Sensor Mode** and **Stream**.
2. Then, select the **Region of Interest** from drop-down list and a gray frame will show up. The gray frame size is depended on the **Region of Interest** that user has selected. Click on the frame and move it to the region that user wants to select.
3. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



■ Smart Stream

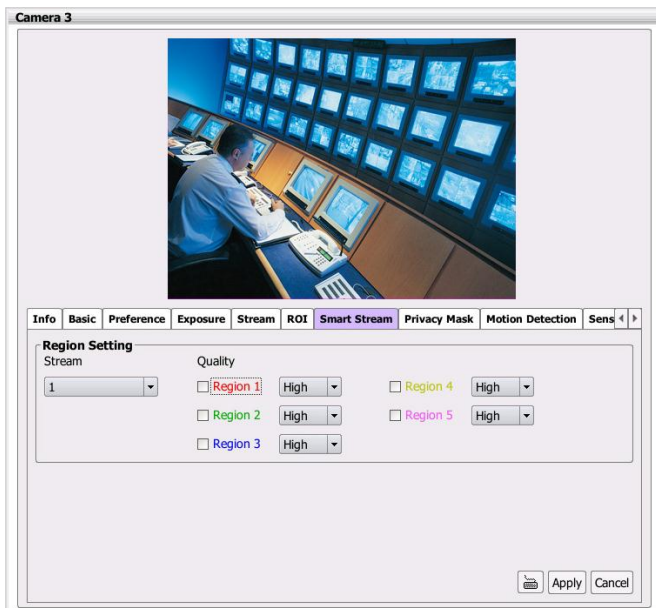
Smart Stream optimizes bandwidth and storage space by increasing or decreasing quality for selected areas based upon criticality. Users can define up to 5 areas per stream to ensure sharp images for crucial areas, while saving bandwidth on non-essential areas. Typical applications include entrances, access gates, production lines, art galleries and museums.

After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



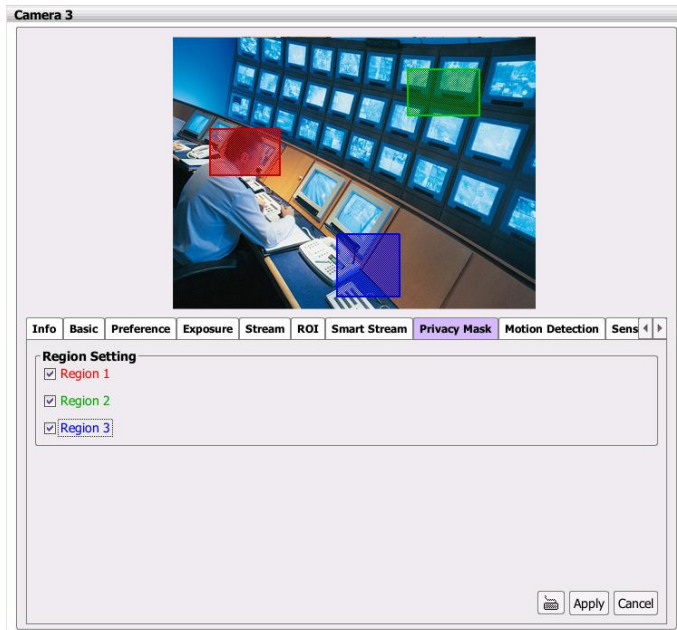
The Smart stream setting only support for IP camera.

- **Stream:** Select the streaming source. This option is only applied to H.264.
- **Quality:** Select the Region 1/2/3/4/5 and set the high/low. Each region frame is corresponded to the color of text, ex: **Region 1** is red frame. Drag the frame to select the area on screen.
 - **High:** video quality of selected area is better than that of un-selected area.
 - **Low:** video quality of selected area is worse than that of un-selected area



■ Privacy Mask

In Privacy Mask page, user can enable 3 privacy masks. Simply adjust the size and position the mask on the area user wants to conceal. The viewer will not be able to see the masked area. It will cover the video screen with black frame. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.



■ Motion Detection

In the motion detection page, the frame will blink when the motion detected has reached the percentage threshold setting. This feature can be utilized to trigger a response in Event setting.



1. Enable the region check box (Region 1, Region 2, Region 3) to create a motion detection frame.
2. Move and adjust the frame to the area you want to detect the motion.
3. Adjust the sensitivity and percentage. Sensitivity detects the motion on the screen and assesses the changes in pixel thru percentage. The motion detection will activate when the Monitor level reaches the defined percentage.
4. After completing the setting, click **Apply** to save the setting and **Cancel** to keep the old setting.

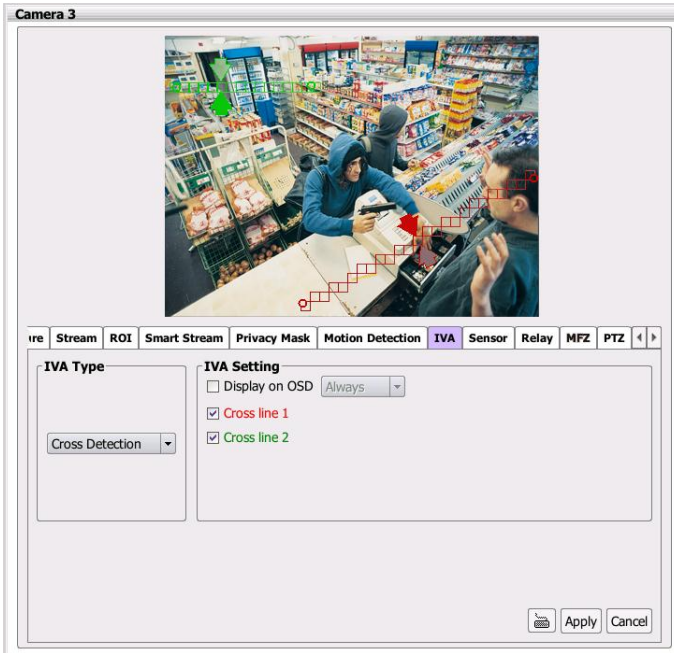
■ IVA

Form drop-down list select the IVA function – Cross detection, Tampering, Missing object, or Suspicious object.

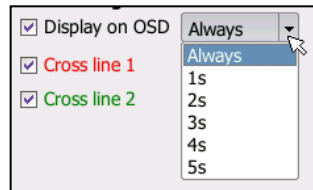


Cross Detection

Cross detection function detects moving objects that cross the virtual lines that user has set up in IP camera application and to trigger the alarm.



1. Enable Cross line 1/2 check box
2. You will see the red/green line is shown on the video screen.
3. Drag the red line or green line to set the area for cross detection. You can set both lines for cross detection or one of the lines. There is no priority for these 2 lines; the color is just for you to differentiate when both lines are set.
4. After setting the cross detection area, click the arrow of line to set cross detect direction. The arrow point is the direction of cross way.
5. In **Display on OSD**, if user wants to see the cross detection line(s) always display on the screen, select **always**. If user only wants to see the cross detection line(s) when the cross detection has triggered, select the time period (1s, 2s, 3s, 4s, or 5s) for cross line displaying on screen.
6. Click **Apply** to save the settings.



Tampering

Select Enable tamper detection to enable tampering function. And, alarm will trigger when the following situation has occurred.

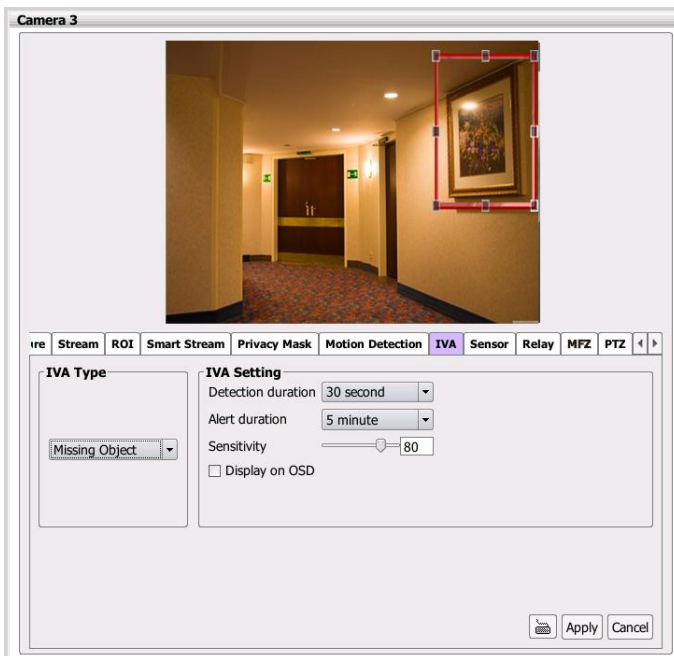
- **Spray-painting:** Alarm is triggered when the camera has detected the painting sprayed on the camera's view for over 2 seconds.
- **Intention Block /Cover:** Alarm is triggered when the camera has detected the camera's view being blocked intentionally over 2 seconds.
- **Accidental redirection:** Alarm is triggered when someone re-directs the position or direction of camera accidentally.
- **Defocusing:** Alarm is triggered when the camera has lost focus.



Missing Object

Select a certain object on the screen for the camera system to detect; System gives alarm when the object disappears.

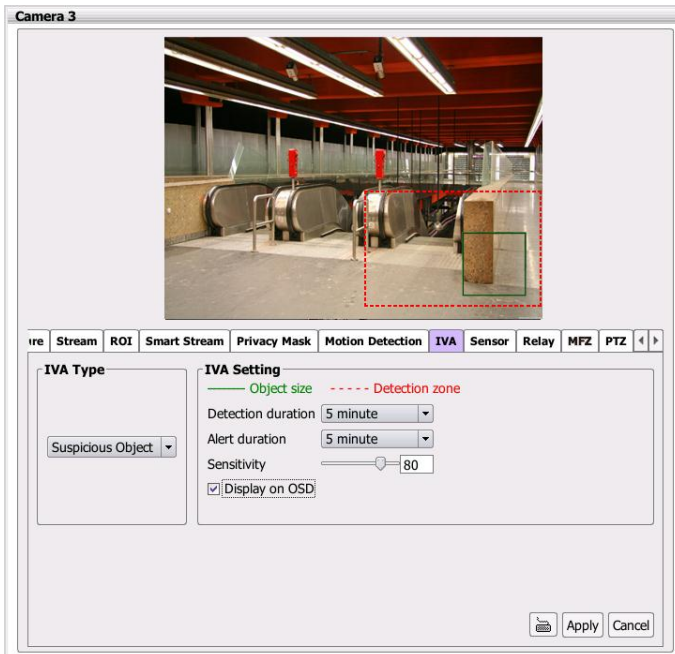
1. Select the **Missing Object** from the drop-down list.
2. A red frame will show up on the screen. Click and drag the red frame to the object position and click the frame to adjust the size of frame.
3. **Detection Duration:** Set the lasting time for camera system to detect the object.
4. **Alert Duration:** Set the alarm lasting time after alarm has been triggered.
5. **Sensitivity:** Set the degree of response of detection.
6. **Display on OSD:** Mark to enable the missing object frame to display on screen when missing object has triggered.



Suspicious Object

Suspicious Object is an unusual object appears on the screen.

1. Select the **Suspicious Object** from the drop-down list.
2. A red frame and green frame will show up on the screen. The red frame is defined as detecting zone and green frame is defined as object size frame. Click and drag the red frame to the position and click the frame to adjust the size of frame. Next, click and drag the green frame the detecting zone and adjust the size of object for detection.
3. **Sensitivity:** Set the degree of response of detection.
4. **Detection Duration:** Set the lasting time for camera system to detect the object.
5. **Alert Duration:** Set the alarm lasting time after alarm has been triggered.
6. **Display on OSD:** Mark to enable the suspicious object frame to display on screen when suspicious object has triggered.



■ Sensor


Setup the sensor of IP camera.

1. In Camera Management dialog box, click **Sensor** tab.
2. Click the drop-down list and select the sensor ID number.
3. Enter sensor name in **Name** column
4. In the Content section, display the NVR/DVR system automatically detects the camera and input relates information. Enter a short comment for this sensor in **Description** column.
5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
6. Click **Apply** to exit and accept the setting and **Cancel** to exit without saving the setting.



The Sensor setting only support for IP camera.

Camera 3



re Stream ROI Smart Stream Privacy Mask Motion Detection IVA **Sensor** Relay MFZ PTZ < >

Sensor 01 Name

Content

Camera

Protocol

Model

Description

Test

■ Relay


Setup the relay of IP camera.

- In Camera Management dialog box, click **Relay** tab.
- Click the drop-down list and select the relay ID number.
- Enter relay name in **Name** column
- In the Content section, display the system automatically detects the camera and input relates information. Enter a short comment for this relay in **Description** column.
- Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



The Relay setting only support for IP camera.

Camera 3



ire Stream ROI Smart Stream Privacy Mask Motion Detection IVA Sensor **Relay** MFZ PTZ < >

Relay 01 Name:

Enable

Content

Camera:

Protocol:

Model:

Description:

■ MFZ





The IP camera has motorized lens can perform MFZ function(motorized focus and zoom).

The MFZ setting only support for IP camera.

To adjust the focus or zoom in/out the view of IP camera.



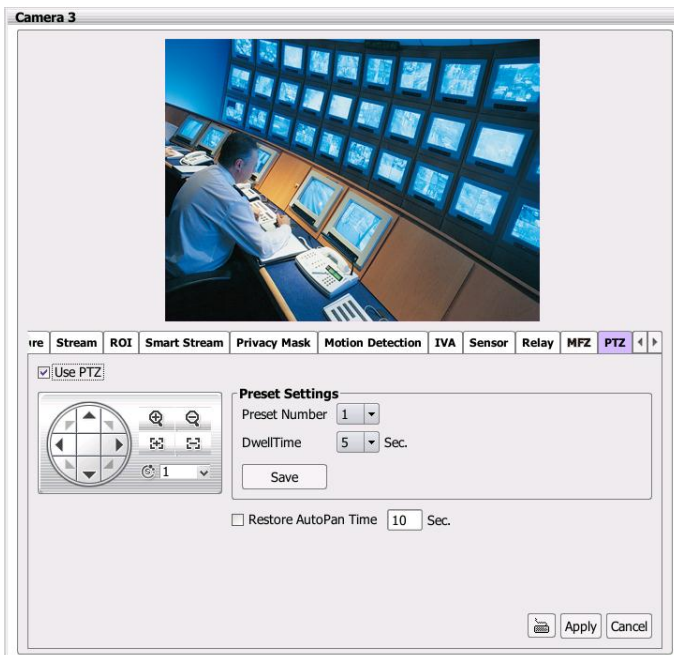
Name	Function
Auto focus	Automatically focus on where focus cursor () has pointed.
Focus near	To adjust the near side of focus.
Focus far	To adjust the far side of focus.
Step zoom in	To zoom in one step by step for fine focus adjusting.
Step zoom out	To zoom out one step by step for fine focus adjusting.
Continuous zoom in	Press to zoom in continuous.

Name	Function
 Continuous zoom out	Press to zoom out continuous.
 Reset	To reset the zoom back to the center of screen view in default value (1x).

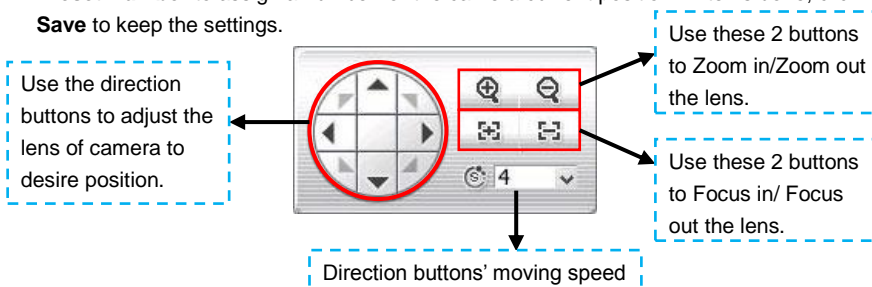
■ PTZ Function

User can enable PTZ function if the IP camera has supported.

1. In Camera Management dialog box , click **Setup** tab
2. Then, select **Camera # > PTZ** tab.
3. In PTZ setup page, click **Use PTZ** to enable PTZ function.



4. **Preset Setting:** use the control panel to adjust the position of the camera and select the **Preset Number** to assign a number for the camera current position. After is done, click **Save** to keep the settings.

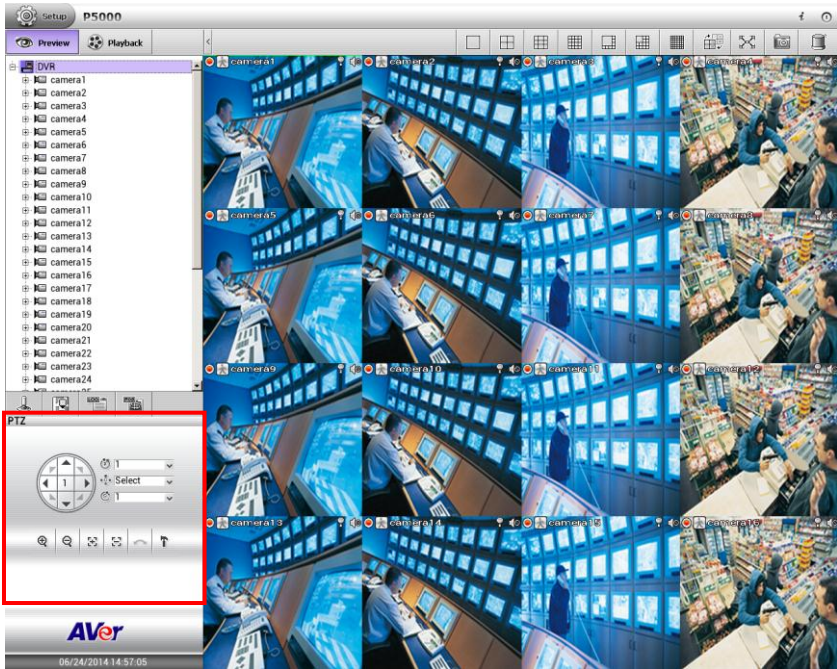


5. **DwellTime:** for how long the camera stays in that position before it moves to the next one (the setup time period is 1~60 seconds). After is done, click Save to keep the settings.
6. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved. Mark the check box and set the time period in second.
7. Click **Apply** to save the settings.
8. After completing the PTZ setting, user can operate the PTZ function through PTZ control panel in preview mode (see also [Chapter 2.8.3](#)).

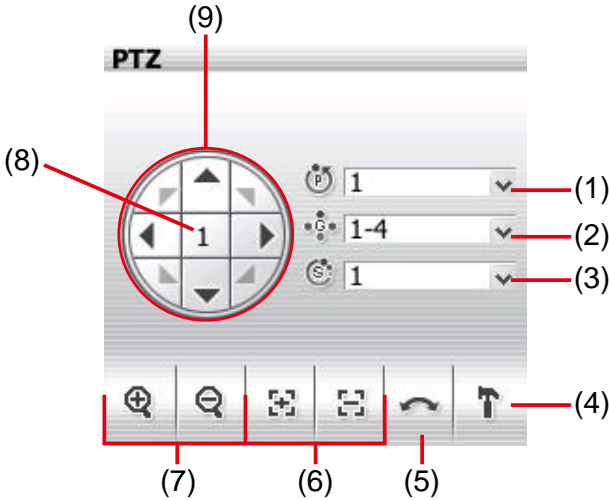
2.8.3 Familiarizing Functions on PTZ Control Panel

User can control PTZ camera through PTZ control panel in preview mode. Enable and set up the PTZ camera; refer to [PTZ Function](#).

1. In preview mode, click  (PTZ) icon to call out PTZ control Panel.



2. The functions' description of PTZ control panel is as following.



Name	Function
(1) Camera preset position number	Move the PTZ camera to the preset point.
(2) Group AutoPan	Select to automatically operate PTZ camera in group.
(3) Direction buttons' moving speed	Adjust the moving speed of the PTZ camera lens. This speed will apply to the (9) Direction buttons' moving speed only.
(4) Setup	Click it to switch to PTZ setup page.
(5) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number. User needs to select the (2) Group AutoPan , then, click (5) Auto Pan button.
(6) Zoom +/-	Zoom in and out the image.
(7) Focus +/-	Adjust the focus manually to produce clear image.
(8) Camera ID	Display the PTZ camera number that is being operated.
(9) Direction buttons	Move and position the focal point of the PTZ camera. The support of direction button depends on the PTZ camera.

2.9 Record Management



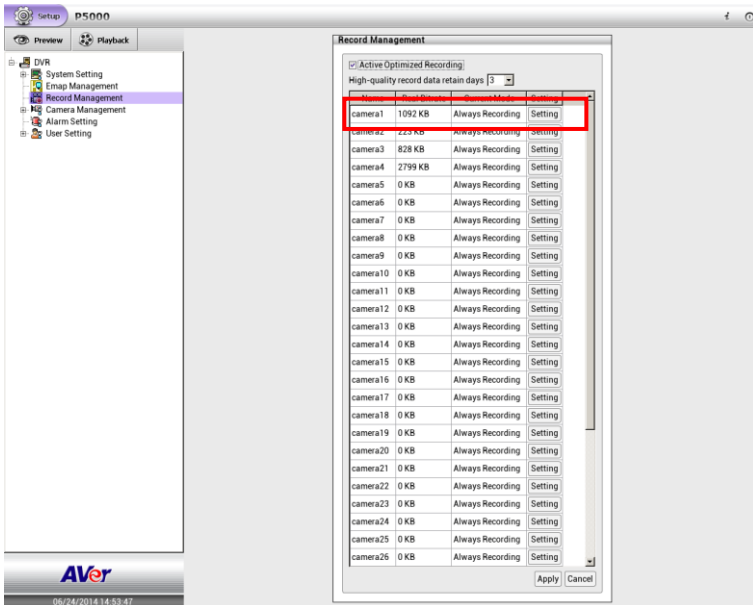
- The recording schedule is always record in default.
- If the storage path is not set, the NVR/DVR system couldn't record.

1. Click **Setup** tab.
2. Then, select **Record Management**.
3. Mark **Active Optimized Recording** to enable dual stream recording.
4. Select the day for **High-quality record data retain days** to recycle the high quality record data.



Must enable Active Optimized recording before selecting high-quality record data retain days.

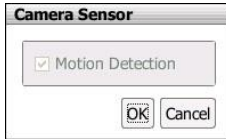
5. Click the **Setting** button of camera that user wants to setup the recording schedule.



6. In Record Schedule window, select the **Recording Mode** first. The recording modes are listed in following:
 - **Always Recording**
Record the video from the selected camera and save it to the designated storage path.

- **Event 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 (0~10 seconds)** and **Stop Record After(0~999 seconds)** settings. Click **Detail** button to view event recording items. Now, only support motion recording on Event recording mode.

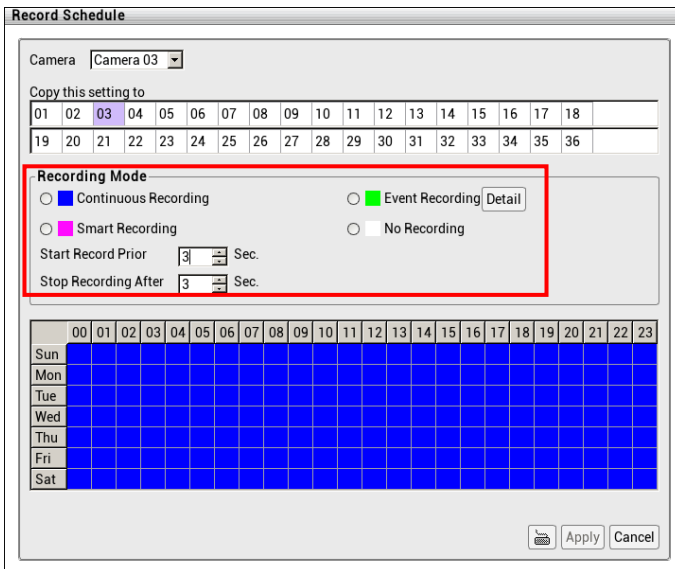


- **Smart Recording**

Automatically switch to recorded once a motion is detected and if there is no motion, it records at key frame only.

- **No Recording**

The system won't do any recording.



- After selecting the recording mode, select date and time on date time table.

Record Schedule

Camera: Camera 03

Copy this setting to

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	

Recording Mode: Event Recording No Recording

Start Recording After: 3 Sec.

Stop Recording After: 3 Sec.

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

Apply Cancel

- If user wants to apply this record schedule to other or all camera channels, uses **Copy this setting to** function to apply to other camera channel.

Copy this setting to

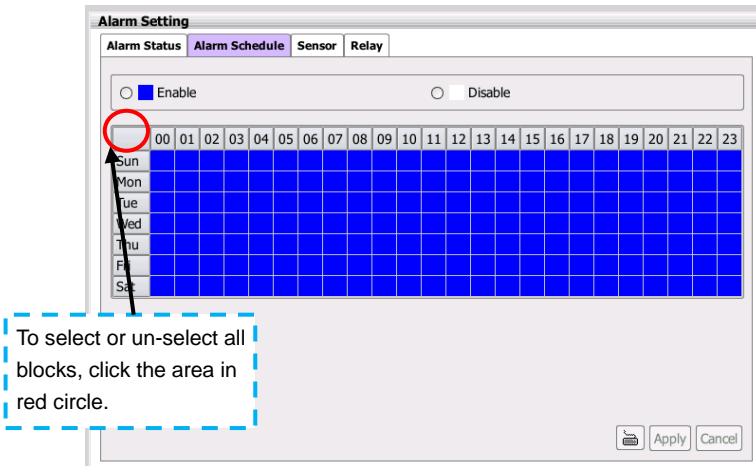
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	

- Click **Apply** to save the recording schedule.
- To stop recording, select **"No Recording"** and click on the date and week to disable the recording; then, click **Apply** to save the changes.

2.10 Alarm Schedule Setting

Setting up the schedule for alarm action that user has setup in Alarm setting (see also [Chapter 2.12](#)). According to the alarm schedule, the alarm actions will be active and alarm will be issued when action has matched the conditions.


1. Click **Setup** tab > **Alarm Setting**. And select **Alarm Schedule** tab.
2. In Alarm schedule page, select the **Enable** and click on the date and time to setup the schedule.

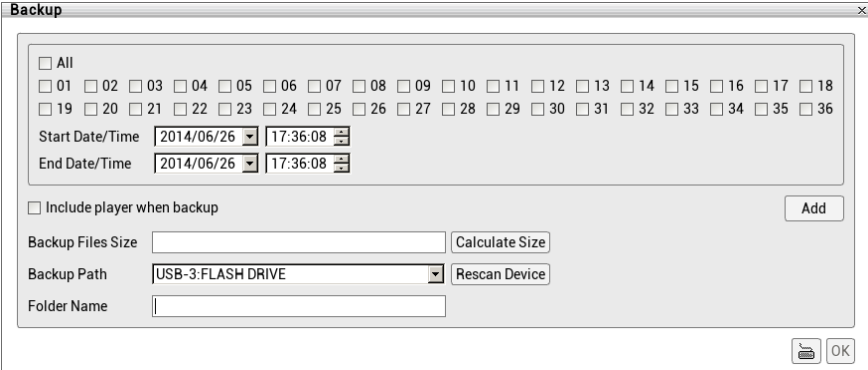


3. Next, click **Apply** to save the setting. To disable the alarm schedule, select "**Disable**" and click on the date and time table and click **Apply** to save the changes.

2.11 Backup Setting

Backup the recorded files to external USB pen drive. In Backup setting, user can select different channels or time period to backup at the same time. The backup files can be playback on PC by Qplayer application that is included when backup. Playing backup file on PC refer to [Chapter 5](#).

1. Click **Playback** tab to switch to playback mode.
2. Click **Backup** () and the Backup dialog box is appeared.
3. In Backup dialog box, select the following settings:
 - **Channel:** Select the channels that user wants to backup. Mark **All** to select all channels.
 - **Select date and time:** Select the date and time period that user wants to backup.
 - **Include Player when backup:** Including the player for playback the backup file on PC.
 - **Backup File Size:** Display the size of the backup file. If there is more than one backup file, there will be total size of all backup files. Click **Calculate Size** button to calculate.
 - **Backup Path:** The path for saving backup file. The NVR/DVR system will detect and list it. If there has more than one backup path is available; user can select it from drop-down list.
 - **Folder Name:** Give a name of back folder that will be stored backup files in USB pen drive. To enter folder name, click virtual keyboard and enter the name.
4. After selecting the backup file conditions, click **OK** to start backup.



Backup

All

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18
 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36


Start Date/Time 2014/06/26 17:36:08
End Date/Time 2014/06/26 17:36:08

Include player when backup Add

Backup Files Size Calculate Size

Backup Path USB-3:FLASH DRIVE Rescan Device

Folder Name

 OK

5. User can backup multiple recorded file (different channels and different time period) at the same time. Repeat the above steps to create the backup file and click **Add** button. The different backup files are distinguished by **Folder Name** that user has given. The multiple backup files limit is **3** files at the same time.

The screenshot shows a 'Backup' dialog box with the following elements:

- Section 1:** All, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36. Start Date/Time: 2014/06/26, 17:35:08. End Date/Time: 2014/06/26, 17:36:08.
- Section 2:** All, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36. Start Date/Time: 2014/06/26, 17:35:08. End Date/Time: 2014/06/26, 17:36:08.
- Section 3:** All, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36. Start Date/Time: 2014/06/26, 17:35:00. End Date/Time: 2014/06/26, 17:36:08.
- Global Options:** Include player when backup. Backup Files Size: 346 MB. Calculate Size button. Backup Path: USB-3:FLASH DRIVE. Rescan Device button. Folder Name: backup|.
- Buttons:** OK.

6. When all backup files have created, click **OK** button to start archiving the selected file to USB pen drive.

2.12 Alarm Setting

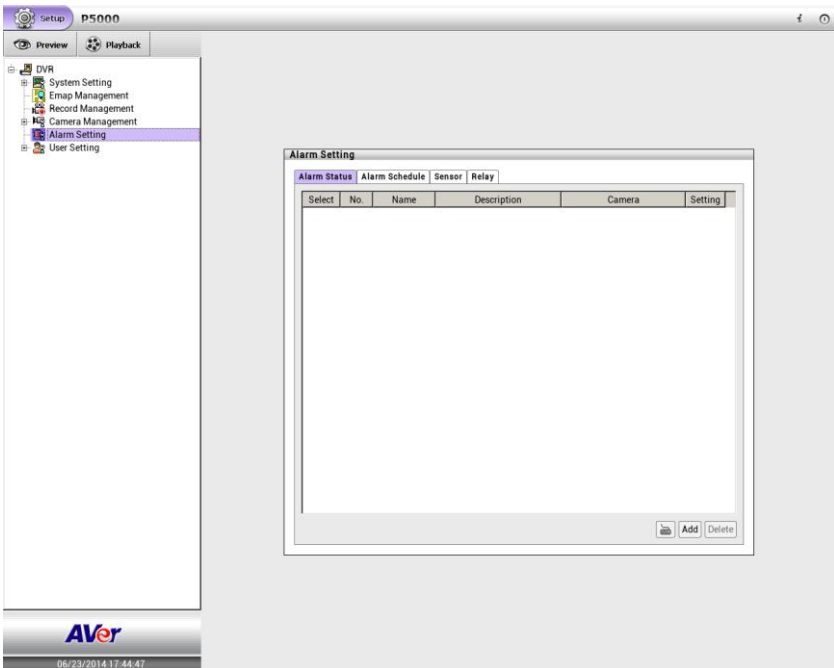
To setup an alarm setting, user needs to complete following steps:

1. Setting up the **alarm conditions** (see also [Chapter 2.11.1](#)).
2. Setting up the **alarm actions** (see also [Chapter 2.11.2](#)).
3. Setting up the **alarm schedule** (see also [Chapter 2.9.2](#)).

In the following chapter, it describes how to setup the alarm condition and action.

2.12.1 Setup Alarm Condition

1. Click **Setup** tab > **Alarm Setting**.
2. User should see the Alarm Setting dialog box is displayed.



3. Next, click **Add** to create a new alarm condition setting.

- In **No.** column displays the alarm setting number. The number of alarm is assigned by NVR/DVR system in default.
- Enter alarm name and description for this alarm setting in **Name** and **Description** column.

Alarm 1

Condition Action

No.	Name	Description
0	alarm 1	

Trigger Type Trigger if Any Trigger if All

Camera Setting

Motion

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Video Loss Setting

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

IVA Setting

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Sensor

High

01	02	03	04	05	06	07	08
----	----	----	----	----	----	----	----

Low

01	02	03	04	05	06	07	08
----	----	----	----	----	----	----	----

IP Camera Sensor

Continuous Trigger Duration Sec.

System

Reboot

Abnormal Reboot

Hard Disk Failed

Apply Cancel

- Next, select **“Trigger if any”** to activate alarm if system falls to one of the conditions or **“Trigger if all”** to activate alarm if system falls to all conditions.

Trigger Type Trigger if Any Trigger if All

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



If IVA alarm status is not enabled, the IVA functions that user has enabled will not issue any alarm when IVA functions have triggered.

Camera																	
Motion																	Setting
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Video Loss																	Setting
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
IVA																	Setting
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

- **Motion:** select and click on the camera number (01 to 36) to set the condition for the system to alarm. Click the **Setting** button to setup the system to send out the alarm when motion is detected and last the time that user has entered in **Continuous trigger duration**. The time range is 0~ 300 seconds.

Motion Detection Setting

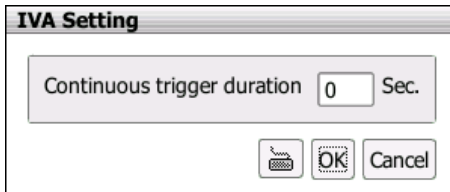
Continuous trigger duration Sec.

- **Video Loss:** click the camera number (01 to 36) to set the alarm condition when video is lost. Click the **Setting** button to setup the system to send out the alarm when video is lost and status last the time that user has entered in **Continuous trigger duration**. The time range is 0~ 300 seconds.

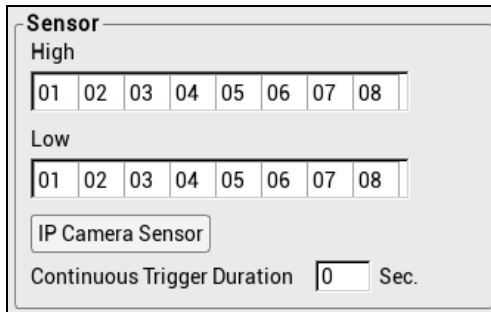
Video Loss Setting

Continuous trigger duration Sec.

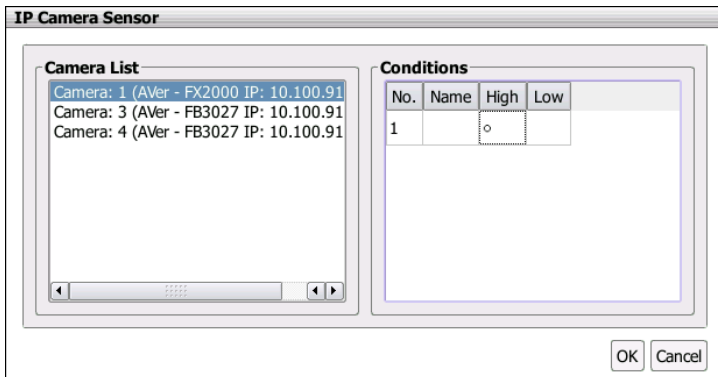
- **IVA:** click the camera number (01 to 36) to set the alarm condition when IVA functions are triggered. Click the **Setting** button to setup the system to send out the alarm when IVA functions have triggered and status last the time that user has entered in **Continuous trigger duration**. The time range is 0~ 300 seconds.



8. In **Sensor** section, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.

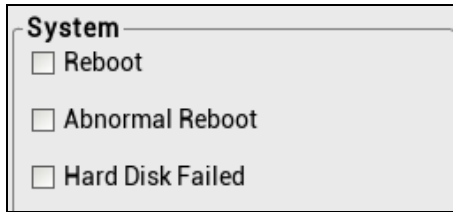


- **IP Camera Sensor:** To adjust sensor high/low that is connected on the IP camera.



- **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.

9. In System section, mark the check box to set the conditions that are caused by system.



A dialog box titled "System" with a light gray background and a thin border. It contains three items, each with a square checkbox to its left:

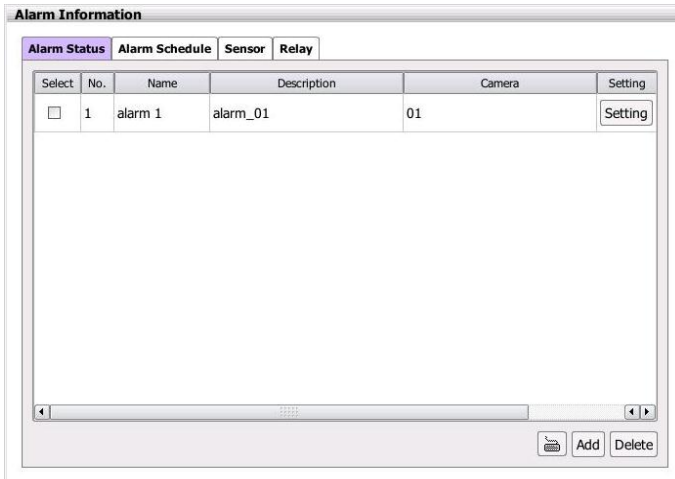
- Reboot
- Abnormal Reboot
- Hard Disk Failed

- **Reboot:** when the NVR/DVR system reboot without abnormal condition, the system will send out the alarm message.
- **Abnormal Reboot:** when the NVR/DVR system reboot in irregular condition, the system will send out the alarm message.
- **Hard Disk failed:** when the hard disk doesn't work normally, the system will send out the alarm message.

10. After setting all alarm conditions, click **Apply** to save the settings.

11. Next, user needs to set the alarm action when alarm has triggered. Please refer to [Chapter 2.12.2](#).

12. To modify the alarm condition setting, click **Setting** button of Alarm # that user has created. Remember to click **Apply** to save the changes after modification.



The "Alarm Information" window has a title bar and four tabs: "Alarm Status" (selected), "Alarm Schedule", "Sensor", and "Relay". Below the tabs is a table with the following data:

Select	No.	Name	Description	Camera	Setting
<input type="checkbox"/>	1	alarm 1	alarm_01	01	Setting

At the bottom right of the window, there are three buttons: a printer icon, "Add", and "Delete".

13. To delete the alarm #, select the alarm # that user wants to delete and click **Delete** button.

The screenshot shows a software window titled "Alarm Information". It has four tabs: "Alarm Status", "Alarm Schedule", "Sensor", and "Relay". The "Alarm Status" tab is active. Below the tabs is a table with the following data:

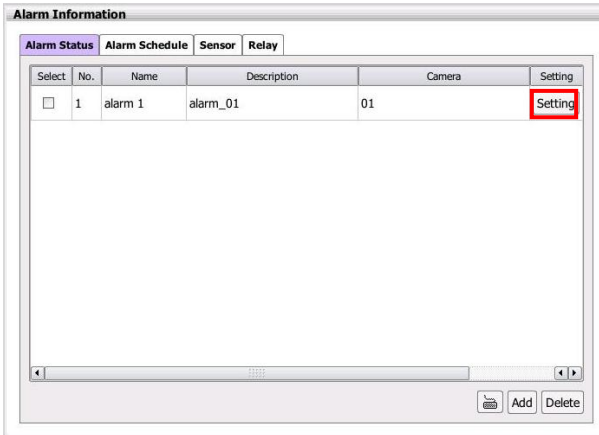
Select	No.	Name	Description	Camera	Setting
<input checked="" type="checkbox"/>	1	alarm 1		01, 02, 03, 04, 05, 06	Setting

Below the table is a horizontal scrollbar. At the bottom right of the window, there are three buttons: a printer icon, an "Add" button, and a "Delete" button.

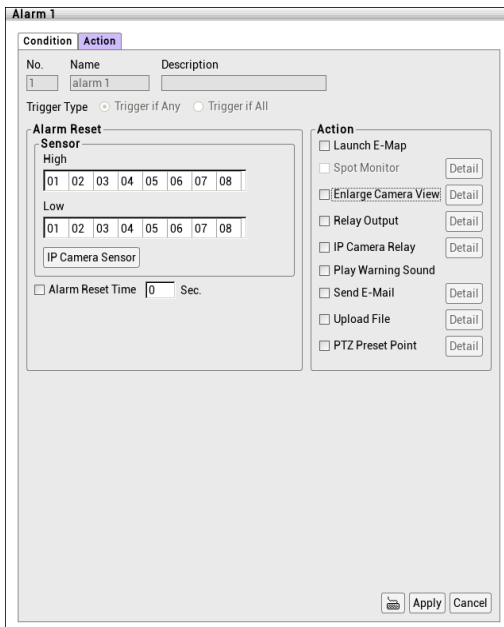
2.12.2 Setting Alarm Action

Setup the alarm action for system to perform when the alarm condition has been triggered.

1. Click **Setup** tab > **Alarm Setting**.
2. Then, click **Setting** button of Alarm # that user has created in Alarm Information dialog box.
Also, user can select the **Alarm#** from the list under Alarm Setting.

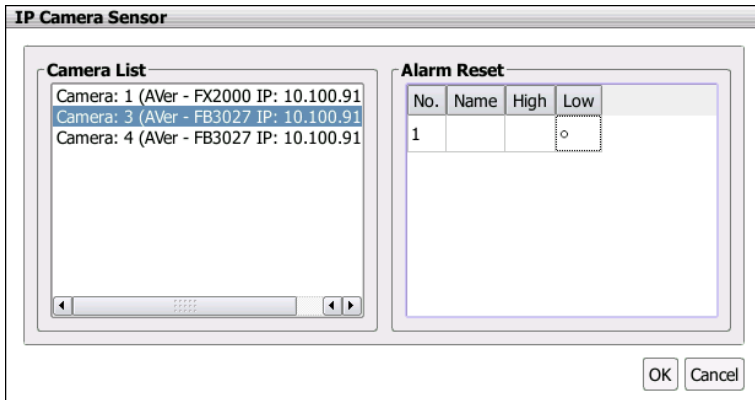


3. In Alarm Setting page, select the **Action** tab to switch to alarm action page.

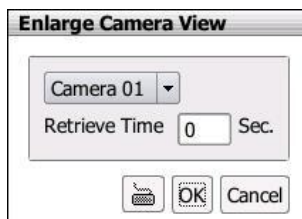


4. The **No.**, **Name**, **Description**, and **Priority** column display the current alarm's information. The **Trigger Type** displays the current alarm's trigger condition.
5. In **Alarm Reset** section, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.

IP Camera Sensor: To adjust sensor high/low that is connected on the IP camera.



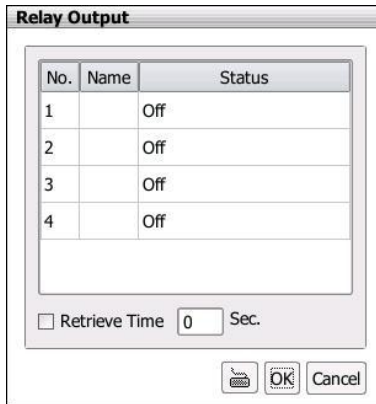
- **Alarm Reset Time:** Set a time for the alarm auto reset. When an alarm happen such as motion detected and video loss, the alarm will reset at the alarm reset time.
6. In **Action** section, user may now set the alarm action for the system to perform when the alarm condition is activated.
 - **Launch E-Map:** Display mini E-map on the screen.
 - **Enlarge Camera View**
Switch to only display video in Preview mode from where the alarm is activated.
 - a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
 - b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-set, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0- 300 seconds.



- **Relay Output**

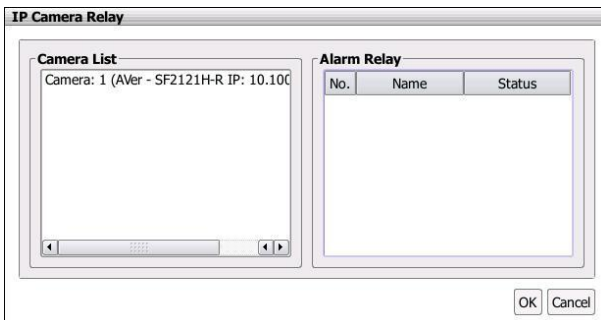
Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

- a. Beside the Relay Output check box, click **Detail**.
- b. In the Relay Output dialog, select from the available relay list and in the **Status** column, set to **on/off** the relay operation when the alarm is activated.
- c. In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second (0 ~ 300 seconds).
- d. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



- **IP Camera Relay**

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



- **Play Warning Sound**

Play alarm sound.

- **Send E-mail**

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

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

Send E-Mail

Mail Server
SMTP Server [] : 25
 Authentication
User Name [] Password []

Mail
From: []
To: []
CC: []
Subject: []
Message []
Notice Interval 1 Minute [] **Test Account**

Snapshot
 Enable
Select Camera Camera 01 []
Video Size []

[] [OK] [Cancel]

■ **Mail Server**

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

■ **Mail**

Fill the mailing information. Click **Test Account** button can exam the mail is workable or not.

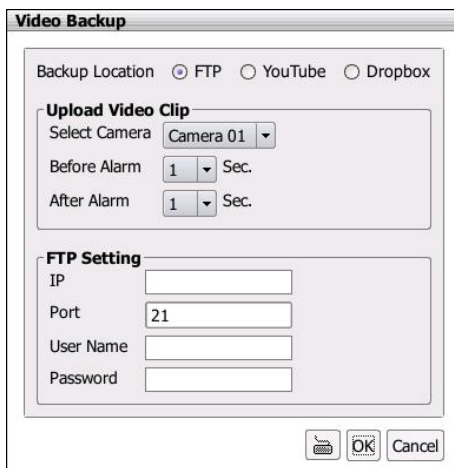
- ✓ **From:** Enter the sender e-mail address.
- ✓ **To and CC:** Enter the recipient email address and separate it with comma or a semicolon (;).
- ✓ **Subject:** Enter the message title.
- ✓ **Message:** Type the message.
- ✓ **Notice Interval:** Set a time gap for mail re-sending when mail has failed to send.

■ Snapshot

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

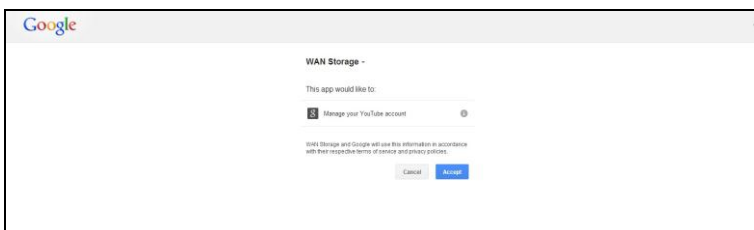
- ✓ **Select Camera:** Select the channel that will be snapshot when alarm email is sending out.
- ✓ **Video Size:** Select the size of vide that will be taken when snapshot. Auto means default size that chosen by NVR/DVR system.

- Upload File



The screenshot shows a 'Video Backup' configuration window. At the top, there are three radio buttons for 'Backup Location': FTP (selected), YouTube, and Dropbox. Below this is the 'Upload Video Clip' section, which includes a 'Select Camera' dropdown menu set to 'Camera 01', and two spinners for 'Before Alarm' and 'After Alarm', both set to '1' seconds. The 'FTP Setting' section contains four input fields: 'IP', 'Port' (set to '21'), 'User Name', and 'Password'. At the bottom right, there are three buttons: a help icon, an 'OK' button, and a 'Cancel' button.

- ✓ **Backup Location:** YouTube and Dropbox cannot be enabled at the same time.
 - **FTP:** Upload the alarm video clip to the FTP site that user has setup.
 - **YouTube:** Upload the alarm video clip to the Youtube space that user has setup.
 - a. Get a Google account. Go to Google website and follow the instruction to get a Google user account.
 - b. Copy the below URL to your Google browser.
<http://www.aver.com/Youtube>
 - c. Using your Google account to login and click "**Allow**" to enable Google WAN storage function.



- d. Then, user will see the authorization code is displayed. Keep this web page open and open a new web page.
- e. Enter the below URL to enter authorization code. Please make sure your PC can connect to NVR/DVR server through internet.
<http://NVR/DVR IP/oauth2.html> ex: [http:// 10.1.1.3/oauth2.html](http://10.1.1.3/oauth2.html).
- f. Next, NVR/DVR server will require login authentication. Enter the login username and password of NVR/DVR server.
- g. Then, authorization code input page is displayed. Copy the authorization code into the **Authorization Code** column and click **Apply**.

Please fill the authorization code below

Authorization Code:

- h. Next, go to alarm action setting to setup FTP transmission via FTP(see also [Chapter 2.11.2](#)).
- **Dropbox:** Upload the alarm video clip to the Dropbox space that user has setup.
- a. Get a Dropbox account. Go to Dropbox website and follow the instruction to get a Dropbox user account.
 - b. Copy the below URL to your browser.
<http://www.aver.com/Dropbox>
 - c. Using your Dropbox account to login and click “**Allow**” to enable Dropbox WAN storage function.
 - d. Then, user will see the authorization code is displayed. Keep this web page open and open a new web page.
 - e. Enter the below URL to enter authorization code. Please make sure your PC can connect to NVR/DVR server through internet.
<http://NVR/DVR IP/oauth2.html> ex: [http:// 10.1.1.3/oauth2.html](http://10.1.1.3/oauth2.html).
 - f. Next, NVR/DVR server will require login authentication. Enter the login username and password of NVR/DVR server.
 - g. Then, authorization code input page is displayed. Copy the authorization code into the **Authorization Code** column and click **Apply**.

Please fill the authorization code below

Authorization Code:

h. Next, go to alarm action setting to setup FTP transmission via FTP (see also [Chapter 2.11.2](#)).

✓ **Upload Video Clip**

- **Select Camera:** Select the camera that the images will be captured and send when the any alarm is triggered.
- **Before alarm (sec.)/After Alarm:** To send the recorded image before and after alarm occurs, enter the time that before alarm occurs in **Before alarm (sec.)** and **After alarm**.

✓ **FTP Setting**

- **IP:** Enter FTP server's IP address.
- **Port:** Enter the port number of FTP connection.

ID& Password: Enter the ID and Password that use to login FTP server.

- **PTZ preset point**

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

The screenshot shows a dialog box titled "PTZ Preset Point". It contains the following elements:

- "Select Camera" dropdown menu with "Camera 01" selected.
- A checked checkbox labeled "Preset Number".
- "Alarm Trigger" dropdown menu with "01" selected.
- "Alarm Close" section with:
 - A radio button selected for "Alarm Close" (dropdown menu set to "01").
 - A radio button for "AutoPan".
 - Four checkboxes for preset position groups: "1 - 4", "9 - 12", "5 - 8", and "13 - 16".
- "OK" and "Cancel" buttons at the bottom right.

7. After setup all alarm actions, click **Apply** to save the settings.

8. To modify the alarm condition setting, click **Setting** button of Alarm # that user has created. Remember to click **Apply** to save the changes after modification.

The screenshot shows a window titled "Alarm Information" with four tabs: "Alarm Status", "Alarm Schedule", "Sensor", and "Relay". The "Alarm Status" tab is active, displaying a table with the following data:

Select	No.	Name	Description	Camera	Setting
<input type="checkbox"/>	1	alarm 1	alarm_01	01	Setting

The "Setting" button in the last column of the first row is highlighted with a red box. At the bottom right of the window, there are three buttons: a printer icon, "Add", and "Delete".

2.13 User Account Setting

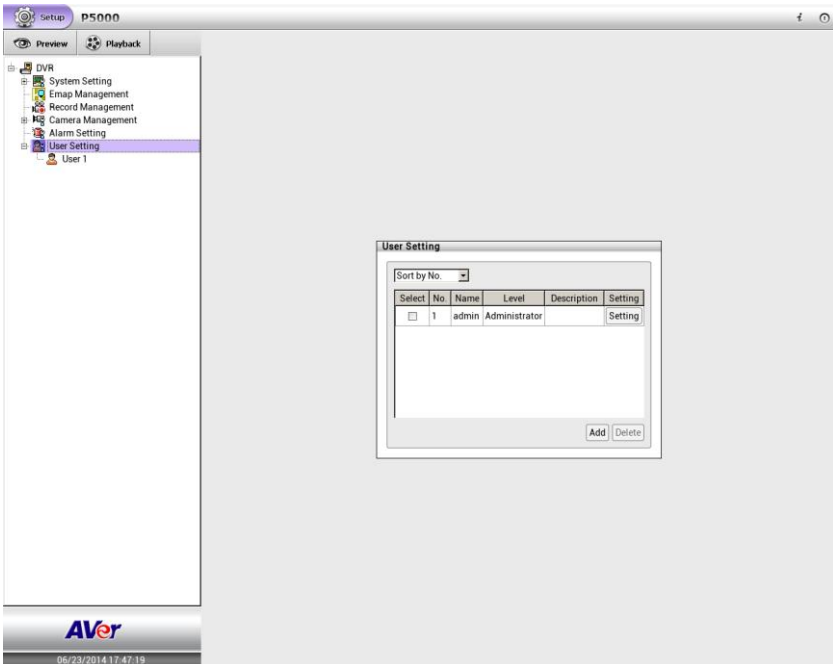
Only administrator level authority can access User Setting. The maximum user accounts are 32.

2.13.1 Creating an User Account

1. Click **Setup** tab.
2. Then, click **User Setting** and the User Information dialog box is displayed.



The Admin is default user and cannot be deleted.



3. In User Information dialog, click **Add** to add a new user account.

4. In User Setting dialog, Select and fill in the following information.

User 2

Name

Description

Password

Confirm Password

Authorization Level

User Administrator

Visible Camera

All

<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 7	<input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/> 9
<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12	<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16	<input checked="" type="checkbox"/> 17	<input checked="" type="checkbox"/> 18
<input checked="" type="checkbox"/> 19	<input checked="" type="checkbox"/> 20	<input checked="" type="checkbox"/> 21	<input checked="" type="checkbox"/> 22	<input checked="" type="checkbox"/> 23	<input checked="" type="checkbox"/> 24	<input checked="" type="checkbox"/> 25	<input checked="" type="checkbox"/> 26	<input checked="" type="checkbox"/> 27
<input checked="" type="checkbox"/> 28	<input checked="" type="checkbox"/> 29	<input checked="" type="checkbox"/> 30	<input checked="" type="checkbox"/> 31	<input checked="" type="checkbox"/> 32	<input checked="" type="checkbox"/> 33	<input checked="" type="checkbox"/> 34	<input checked="" type="checkbox"/> 35	<input checked="" type="checkbox"/> 36

Time Span

Enable

Activation Date Expiry Date

Remote Access Time

Infinite

Minute

Control Right

System

Camera

Alarm

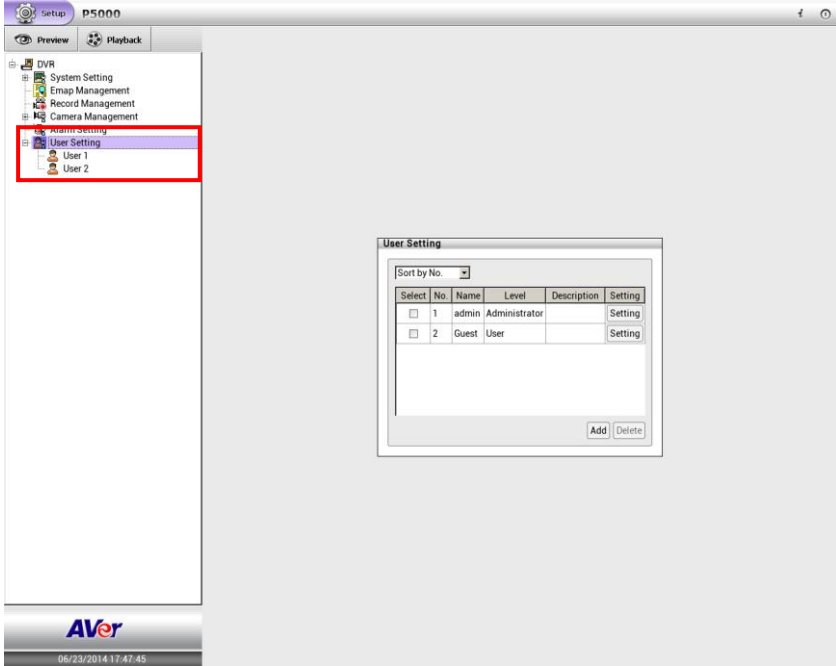
Playback

E-Map

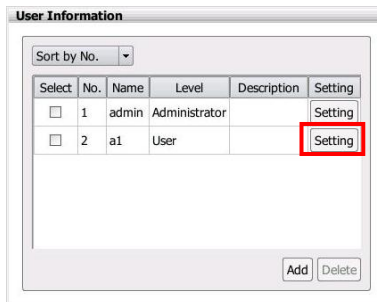
Power OFF

- **Name:** Enter the user name.
- **Description:** Enter the user description.
- **Password:** Enter the user password.
- **Confirm Password:** Enter the same user password for confirmation.
- **Authorization level:** Select the status of the user. Administrator has full authority of control rights.
- **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.
- **Remote Access Time:** Enable **Infinite** check box to access NVR/DVR without time limit. If you want to set time limit, un-mark and enter the number of minutes in **Minute** text box.
- **Control Right:** Enable the items that would allow the user to access.
- **Time Span:** Set the user account a specific time period that user only can use given account to login NVR/DVR program in that specific period. Mark **Enable** check box and select the **Activation Date** and **Expiry Date**.

- Click **Apply** to save the account setting. The user account is list in User Setting list.



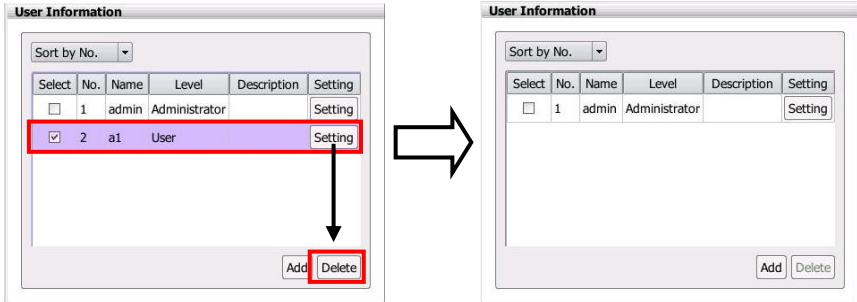
- Adding another user account, repeat above steps.
- Modifying the user account; click **Setting** of user account in User Information dialog.



2.12.1 Deleting an User Account

User can remove un-wanted or expired user account.

1. Click **Setup** tab in Preview mode.
2. Then, click **User Setting** in Advanced NVR/DVR Setting section and the User Information dialog is displayed.
3. Mark the user account in User Information dialog; then, click **Delete** button.

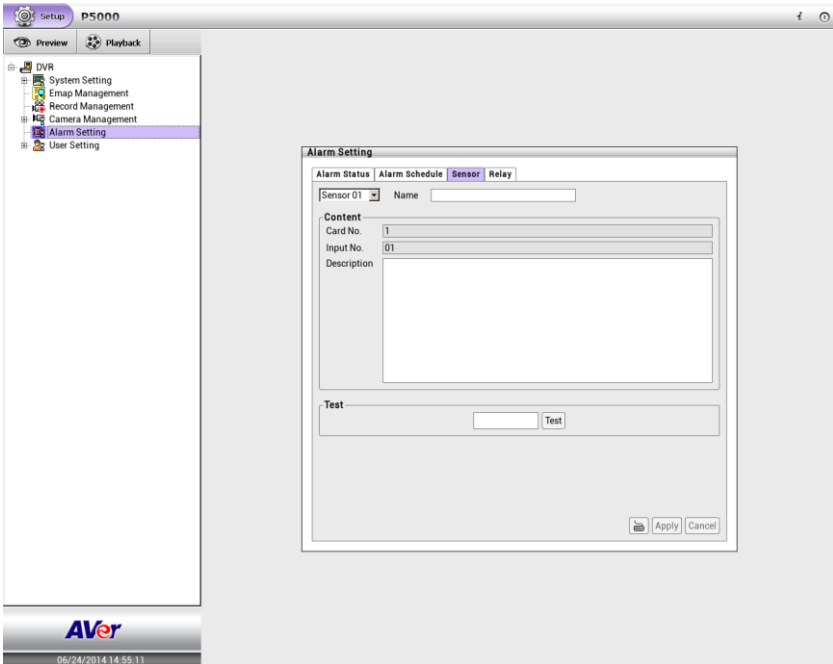


2.14 I/O Setting

Setup I/O device status.

2.14.1 Sensor Setting

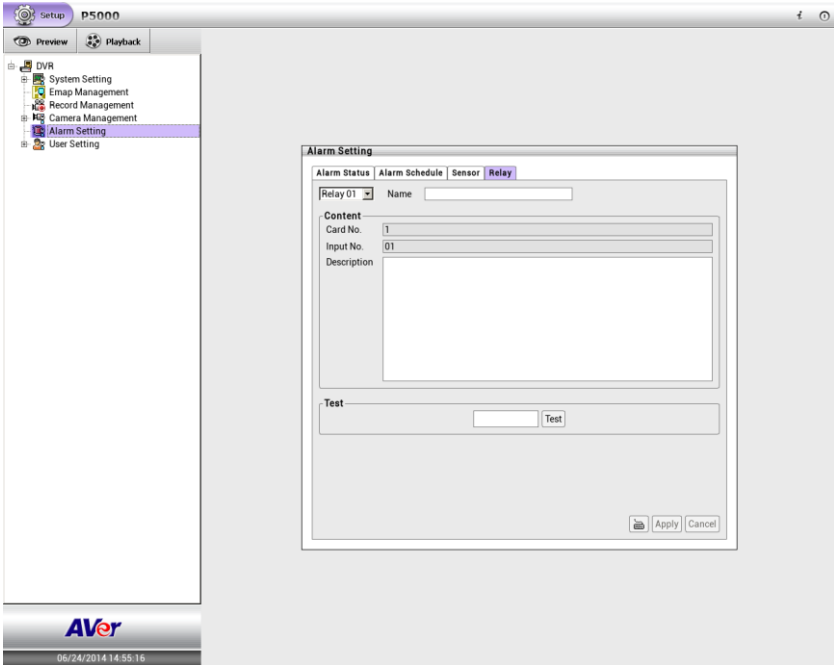
1. Click **Setup** tab > **Alarm Setting** > **Sensor** tab.



2. Click the drop-down list and select the **Sensor #**.
3. Enter sensor name in **Name** column.
4. The system automatically detects the card and input number. In the **Content** section, user can enter a short description of sensor in **Description** column.
5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
6. Click **Apply** to save the setting. To exit without saving the setting, click **Cancel** button.

2.14.2 Relay Setting

1. Click **Setup** tab > **Alarm Setting** > **Relay** tab.



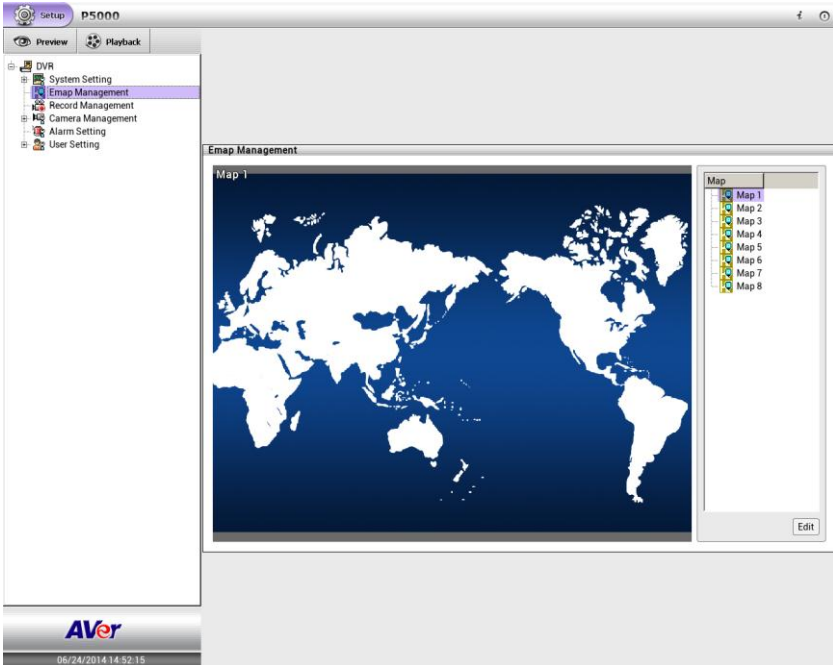
2. Click the drop-down list and select the **Relay #**.
3. Enter relay name in **Name** column.
4. The system automatically detects the card and input number. In the **Content** section, user can enter a short description of relay in **Description** column.
5. In the test section, click **Test** to trigger relay. **Red** is high and **Green** is low.
6. Click **Apply** to save the setting. To exit without saving the setting, click **Cancel** button.

2.15 Emap Setting

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



2.15.1 Setting Emap

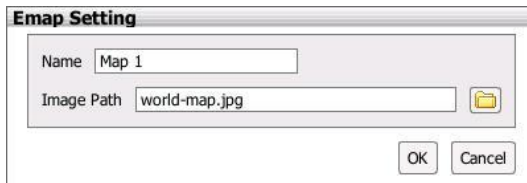
1. Click **Emap Management**.
2. The Emap dialog box will appear on screen.



3. Click **Edit** button to switch to Emap setup mode.
4. Then, click the Map number (1 to 8) that user want to setup.









5. Next, click  icon to setup name of Emap and load a map figure. When the Emap Setting dialog box appears, click the open file icon () to locate and select the map. Enter a name for this Emap in **Name** column. Click **OK** to save the setting.



6. When the inserted map appears on the Emap screen, user may now drag the camera, sensor, and relay icons to its place on the map. Icons on the map can be relocated anywhere. If user is going to locate the icon on the map to other area, right-click on the icon on the Emap and click **remove** to put the icon back to the Resource list.



The available icons are look like  (Camera),  (Sensor),  (Relay) and un-available icons are look like  (Camera),  (Sensor),  (Relay).

2.16 iPOS Setting

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

1. Click **Setup** tab. Click **+** to expand the System Setting list and select **Hardware Device**.
2. User should see the Hardware Device Setting dialog box is displayed.



3. In the Hardware Device Setting dialog box, click **Add** to set a new POS setting.
4. In the POS Mapping dialog box, fill and select the following settings. Click **OK** to save the settings and **Cancel** to exit without saving the new setting.
 - **Name:** Enter a name to identify the POS.
 - **Protocol:** Select the protocol.
 - **Skip first:** Set the number of lines you want to be removed.
 - **Font Color:** Select the text color of the POS data.
 - **Port Setting:** Select the **Local**(Com port) where it is connected and **Baud Rate**.
 - **Map to Channel:** Select to which camera number to display the transaction text.
 - **Text Filter:** Enter the word you want to be removed.

iPOS Setting

POS

Name:

Protocol:

Skip First: Line(s)

Font Color:

Port Setting

Local:

Baud Rate: bps

Map to Camera

MAX 4 Cameras

1 2 3 4 5 6 7 8 9
 10 11 12 13 14 15 16 17 18
 19 20 21 22 23 24 25 26 27
 28 29 30 31 32 33 34 35 36

Text Filter

1. 5.
2. 6.
3. 7.
4. 8.

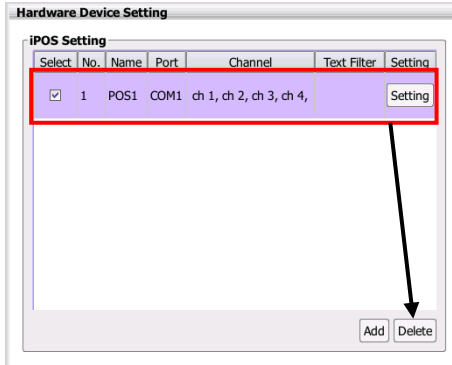
5. To setup another iPOS setting, repeat the above steps.
6. To modify the iPOS setting, click the **Setting** button of iPOS.

Hardware Device Setting

iPOS Setting

Select	No.	Name	Port	Channel	Text Filter	Setting
<input type="checkbox"/>	1	POS1	COM1	ch 1, ch 2, ch 3, ch 4,		<input type="button" value="Setting"/>

7. To delete the iPOS, mark the iPOS and click **Delete** button.




8. To view the iPOS event log, refer to [Chapter 2.16.3](#).

2.17 Log Viewer

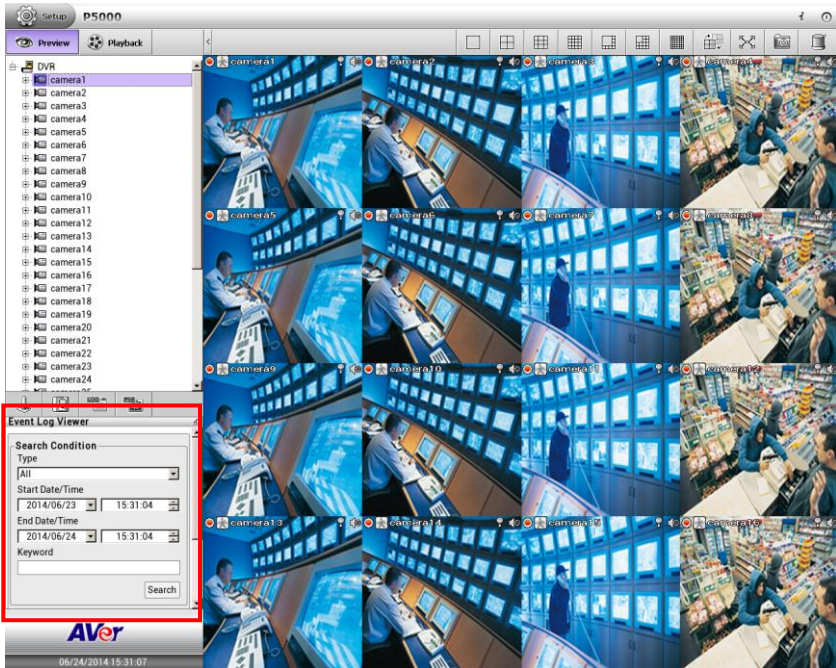
Show the record of activities (alarm, event, iPOS) that take place in the system. User can view and search for specific log.

2.17.1 Using the Event Log Viewer

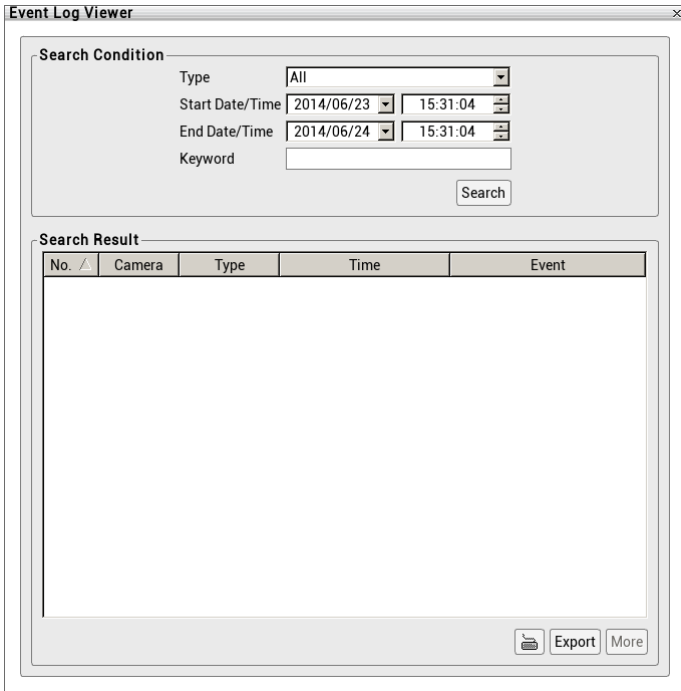
1. Select the channel that user wants to search. Click the channel on screen.
2. Click Event Log icon () in preview mode.
3. The Event Log Viewer dialog box is appeared and located at bottom of left side screen.



User can click  icon to expand the Event Log Viewer dialog box on the screen.

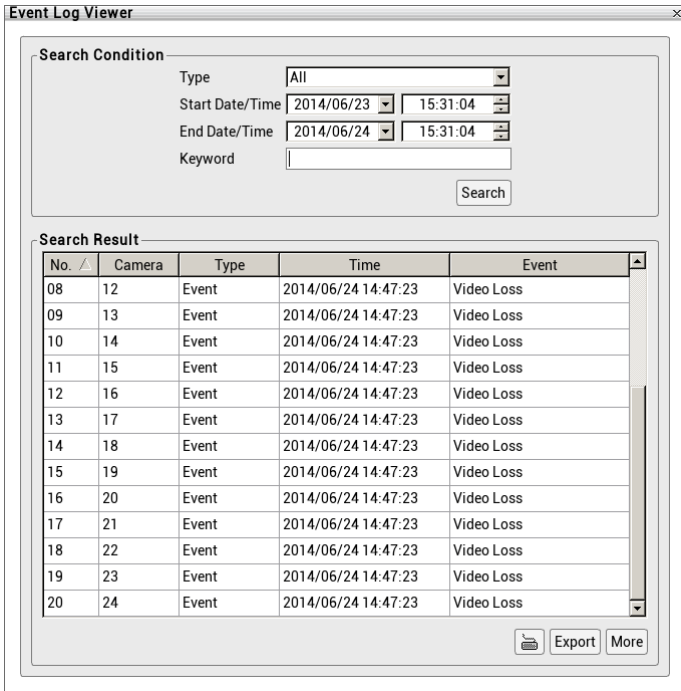


- To filter the logs, select and click the select **Type -- System, Network, Operation, Event, or All**.

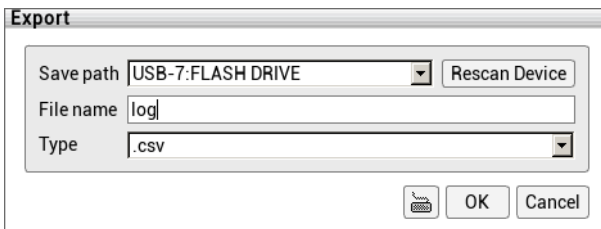


- Set the **Start Date/Time** and **End Date/Time** period to search the logs.
- User also can search specific logs by specific **Keyword**.

- Click **Search** button to start searching. The search results are displayed in the below column. Click **More** button to display more event logs.



- Click on the event log can view the log video.
- Click **Export** button can output the log result list to external USB pen drive in *.csv file format.




2.17.2 Using the Alarm Log Viewer

The alarm log viewer is both supported in preview and playback mode.

Viewing Alarm Event

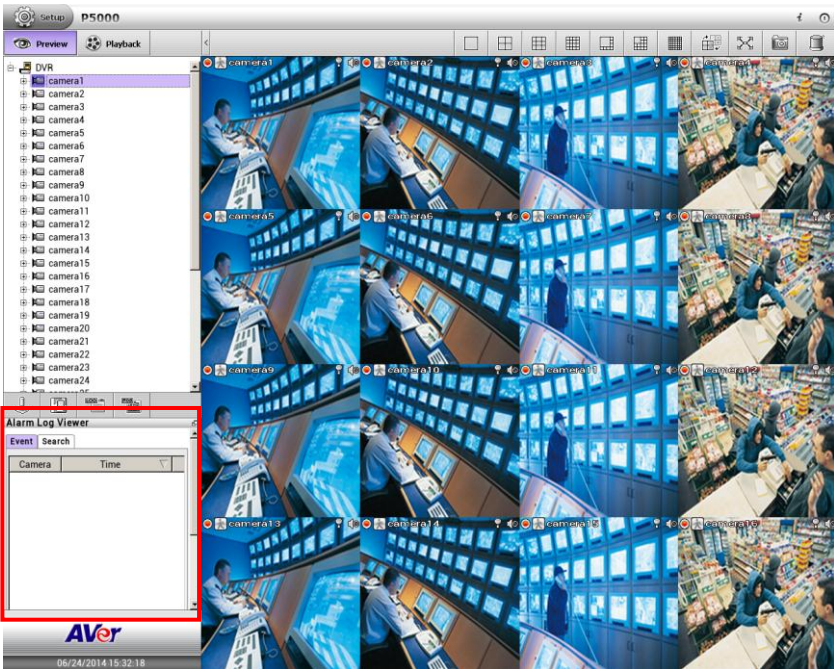
Alert and display warning information.

1. Click Alarm Log icon ().
2. The Alarm Log Viewer dialog box is appeared and located at bottom of left side screen.



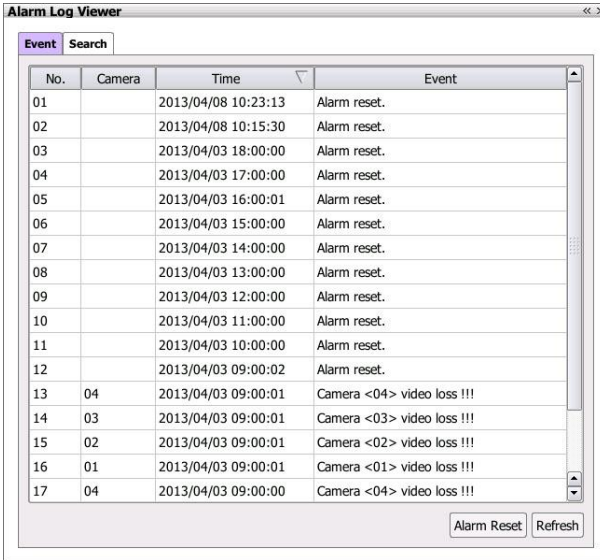
User can click  icon to expand the Alarm Log Viewer dialog box on the screen.

3. Then, click **Event** tab to view all alarm events.



4. Clicking **Alarm reset** button to reset all alarm event status.


5. Clicking **Refresh** button to refresh the alarm events list.



6. Double-click on alarm event can playback the event video.

Searching Alarm Event Logs

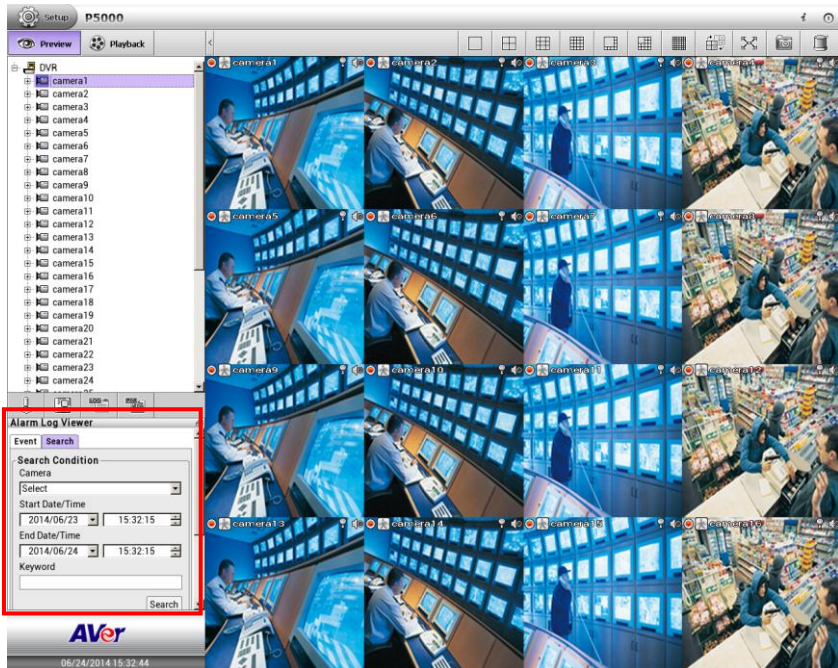
Searching the specific alarm event.

1. Click Alarm Log icon ().
2. The Alarm Log Viewer dialog box is appeared and located at bottom of left side screen.

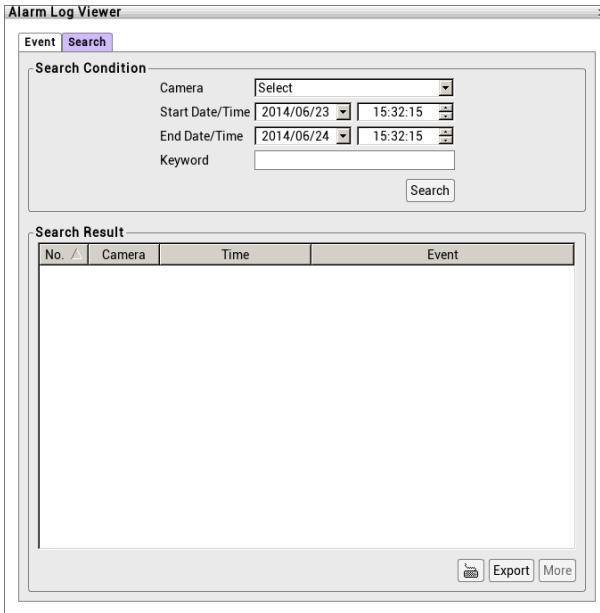


User can click  icon to expand the Alarm Log Viewer dialog box on the screen.

3. Then, click **Search** tab in Alarm Log Viewer dialog box.




- In Alarm Log Viewer dialog box, select the **Camera** that user wants to search. Multiple cameras selection is allowed.



- Set the searching period at **Start Date/Time** and **End Date/Time** column.
- Searching by specific keyword, enter the keyword in **Keyword** column.
- Click **Search** button to start searching.
- The search result will list in below column. Click **More** button to display more event logs.
- Click **Export** button can save the search result list to external USB pen drive.
- Double-click on alarm event can playback the event video.

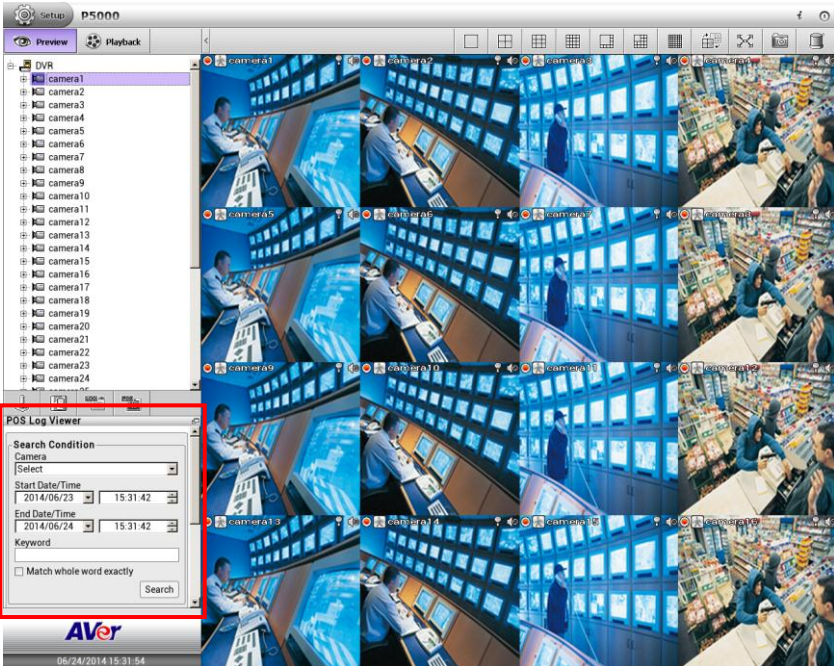
2.17.3 Using POS Log Viewer

Search the iPOS event. The POS Log viewer is both supported in preview and playback mode.

1. Click POS Log ()
2. The POS Viewer dialog box is appeared and located at bottom of left side screen.



User can click  icon to expand the POS Log Viewer dialog box on the screen.



3. In POSViewer dialog box, select the **Camera** that user wants to search.
4. Set the searching period at **Start Date/Time** and **End Date/Time** column.
5. Searching by specific keyword, enter the keyword in **Keyword** column. Mark **Match whole words exactly** option to 100% match the keyword that user has entered.
6. Click **Search** button to start searching. The search result will list in below column. Click **More** button to display more event logs.
7. Click **Export** button can save the search result to external USB pen drive.

POS Log Viewer

Search Condition

Camera: Select

Start Date/Time: 2014/06/23 15:31:42

End Date/Time: 2014/06/24 15:31:42

Keyword:

Match whole word exactly

Search

Search Result

No.	Camera	Time	POS Data
-----	--------	------	----------

Export **More**

2.18 NVR/DVR System Tools

2.18.1 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.

1. Click **Setup** tab > **System Setting**; click **+** to expand the list and click **Storage**.
2. In Storage Setting dialog box, click **Hard disk calculator** button.

Storage Setting

Storage | iSCSI

Use for Recording HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress	Detail
--------	------	------	----------	------------	--------	------------	----------	--------

Refresh

↑ ↓

Detected HDD

Select	Name	Type	Capacity	Free Space	Status	S.M.A.R.T.	Progress
<input type="checkbox"/>	SATA-3:WD10EALX-559BA0	N/A	953869 MB	-65 MB	Unformat	OK	100%
<input type="checkbox"/>	SATA-4:ST3160815AS	N/A	152626 MB	-65 MB	Unformat	OK	100%

Create RAID Destroy RAID Format

USB/DVD

Name	Type	Capacity	Free Space
------	------	----------	------------

Space Management

Delete Recorded Data After 7 Days

Delete Log Data After 30 Days

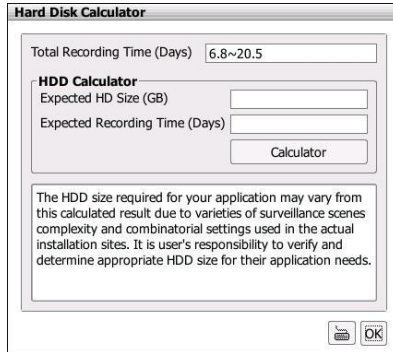
Overwrite

Hard Disk Calculator


HDD Location

Apply Cancel

- In Hard Disk Calculator dialog box, enter the expected hard disk size or expected recording time in **Expected HD Size(GB)** or **Expected Record Time(Days)**, and then click **Calculate** button. The **Total Recording time(Days)** column is shown the current hard disk recording capacity. Click **OK** to exit the hard disk calculator window. The hard disk calculation is based on the recording setup and current hard disk capability.



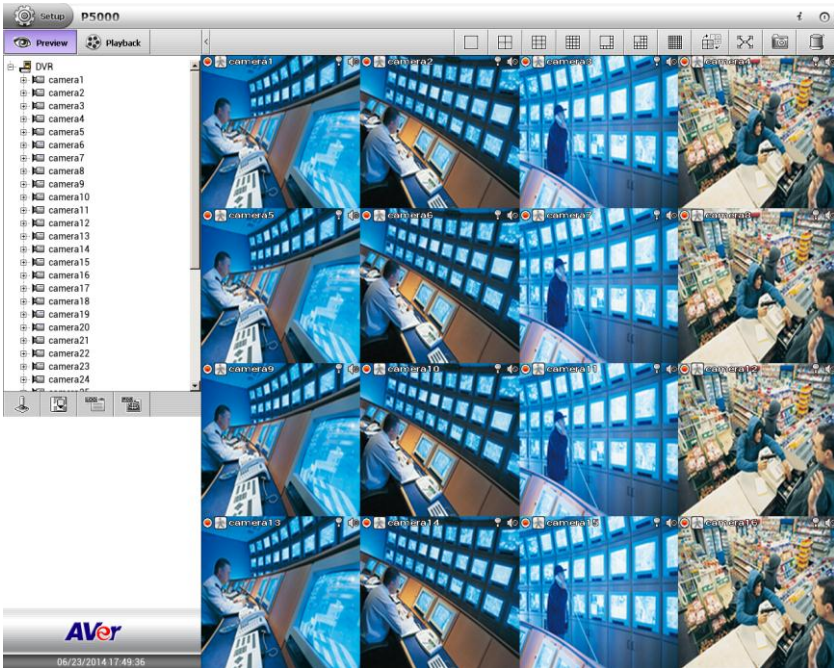
2.18.2 Using On Screen Keyboard

User can use the on screen Keyboard to enter require information in setting dialog box. Click  to call out the on screen keyboard. For uppercase, click **Caps** button. To exit, click **Esc**.



Chapter 3 Monitoring the NVR/DVR

After setting up the NVR/DVR system, user can start to monitor the NVR/DVR in preview mode. The following chapters are going to describe the monitoring functions in preview mode.

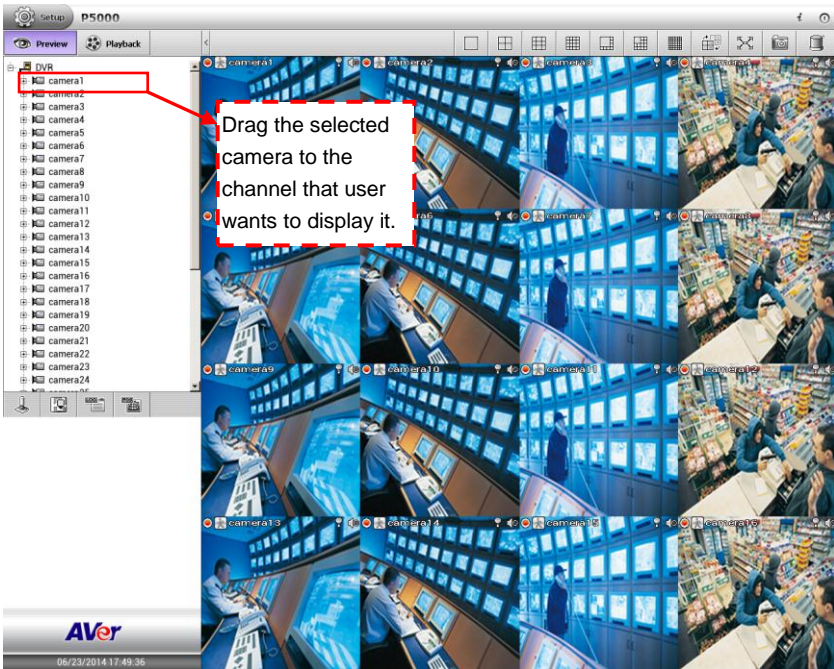


3.1 Managing Camera Channels

User can arrange the channel display position as user is desired.









Select the camera in Camera section. Then, drag the camera to the channel that user wants to be displayed. Next, User should see the live video on the channel screen.

The channels can be switched between each channel; just click the channel and drag the channel to the desire channel position. For example: Camera 01 switches to Camera 09; the Camera 01 will be Camera 09 position and the Camera 09 will switch to the Camera 01 position.


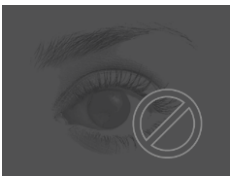
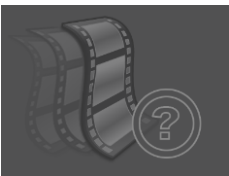


3.2 Meaning of Icons and Figures

■ The description of icons on each channel:

	<p>The icon is indicated the current recording status.</p> <ul style="list-style-type: none"> - Red color(): recording - Gray color(): no recording
	<p>The icon is indicated the motion record status.</p> <ul style="list-style-type: none"> - Red color(): motion recording - Gray color(): no motion recording
	<p>Enable/disable audio play of channel. User can click the icon to enable or disable the play of audio.</p>
	<p>Enable/ disable 2-way audio function</p> <p>[Note] Both NVR/DVR and IP camera need to connect audio input (ex: microphone) and audio output (ex: speaker) device.</p>

■ The meaning of figures on screen: user will see some of figure during the monitoring and playback and their descriptions are as following.

Camera is disabled.	Camera is no video display.	Video loss
		

No recording data (Playback mode)	The camera resolution is over the resolution that NVR/DVR has supported	
		

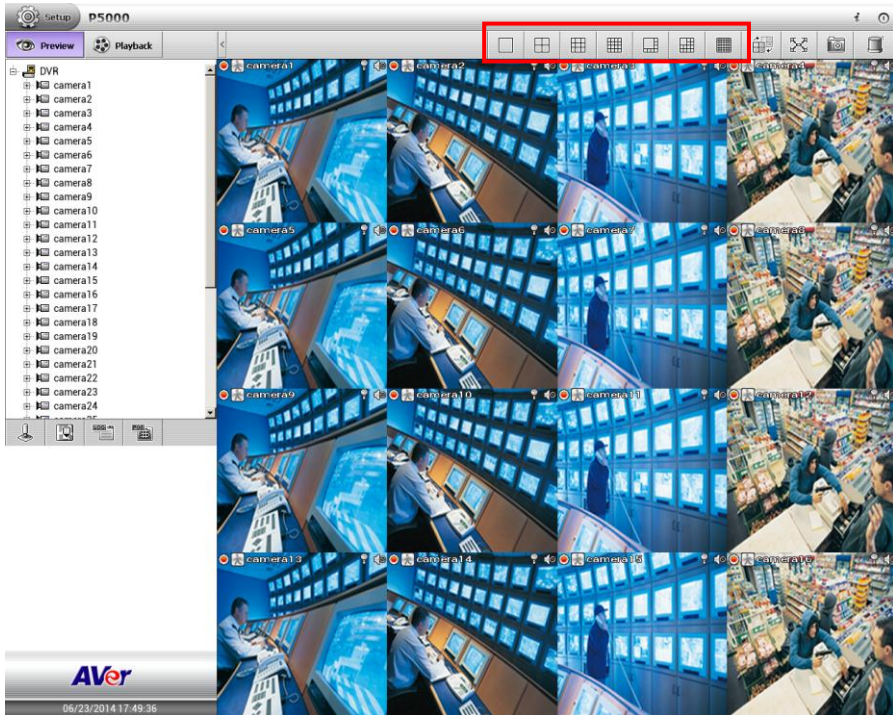
3.3 Enable/Disable the Camera Channel

In Camera list, user can enable/disable camera. When camera is disabled, monitor and record function are both disable.

Right-click on the camera in Camera list, select disable or enable the camera.

3.4 Changing Screen Channel Display Mode

The NVR/DVR has provided 6 types of screen display mode – single (□), QUAD (田), 9-split screen (九宫格), 16-split screen (十六宫格), 8-split screen (八宫格), 13-split screen (十三宫格) and 36-split screen (三十六宫格). To select the screen display mode, click on the screen display icon.

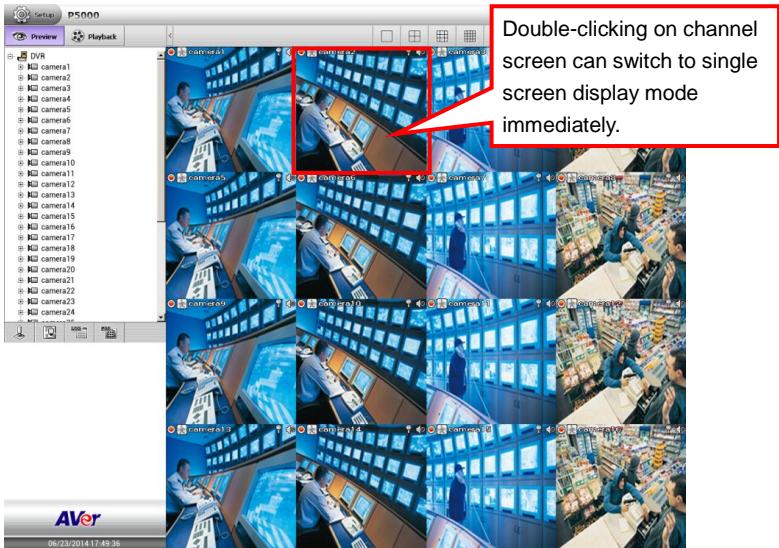


3.5 Enable/Disable the Sound of the Channel



User can click the audio icon (🔊) to mute (🔇) the sound of channel. Click audio icon (🔊) again to turn on the sound.

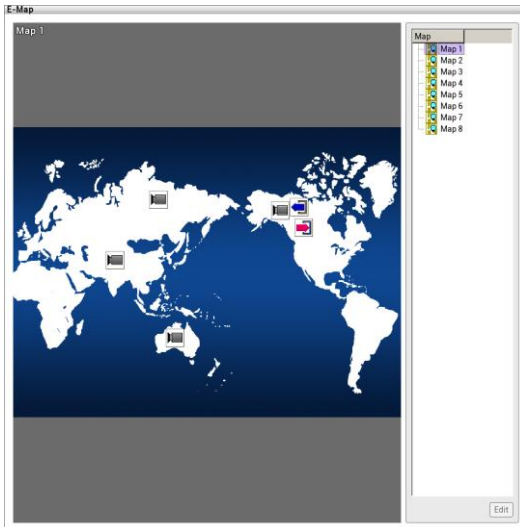
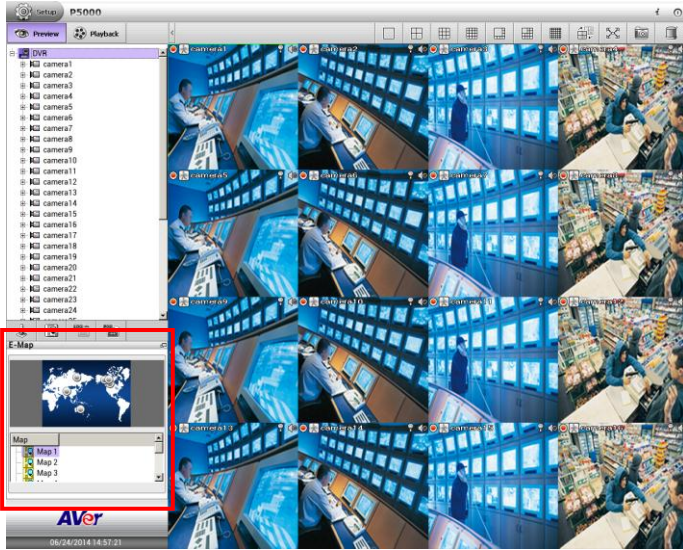
3.6 Switching Multiple Screen to Single Screen Display

In multiple screen display mode, user can double-click on the channel screen to switch to single display screen mode. Double-clicking again on channel screen, the screen display will switch back to multiple screen display mode.




3.7 Viewing Emap

Click Emap() to call out the Emap dialog box. Click  icon on E-map dialog box to expand the E-map dialog box on the preview screen. When alarm occurred, the icons on the map will turn to flash status. Click Map # (ex: Map 2) can switch to the selected map.



3.8 Snapshot the Screen

Taking a quick capture of current display screen and save in *.jpg format to external USB pen drive.

1. Plug in the USB pen drive to USB port of NVR/DVR unit.
2. In preview mode, Click the snapshot icon () and the snapshot dialog box is appeared.

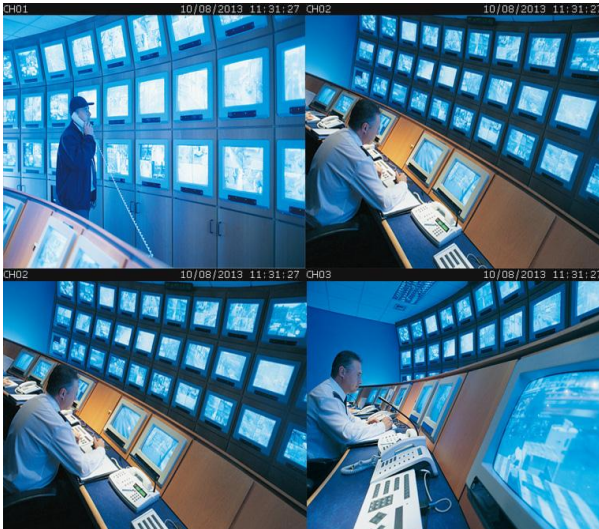
Snapshot

Save path

File name



Type

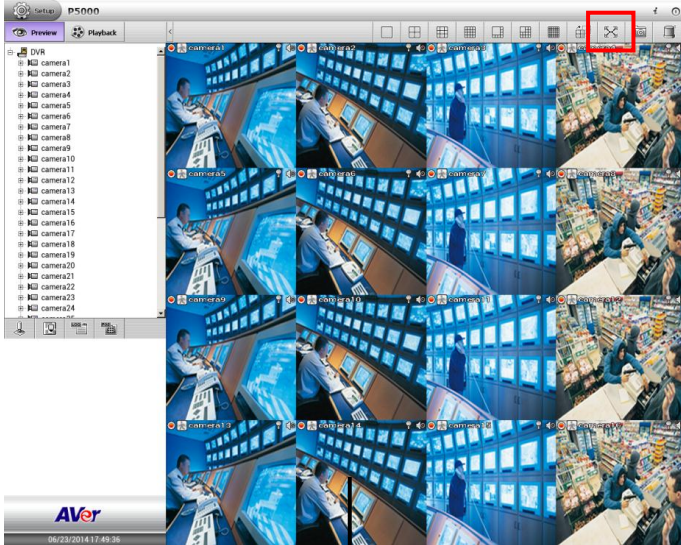
3. User can rename the **File name** by using virtual keyboard.
4. Click **OK** button to save the captured image file to USB pen drive.
5. The captured screen is looks like the figure below. There have date and time shown on the screen snapshot file.



3.9 Full Screen Display


View the surveillance screen in full screen display mode.

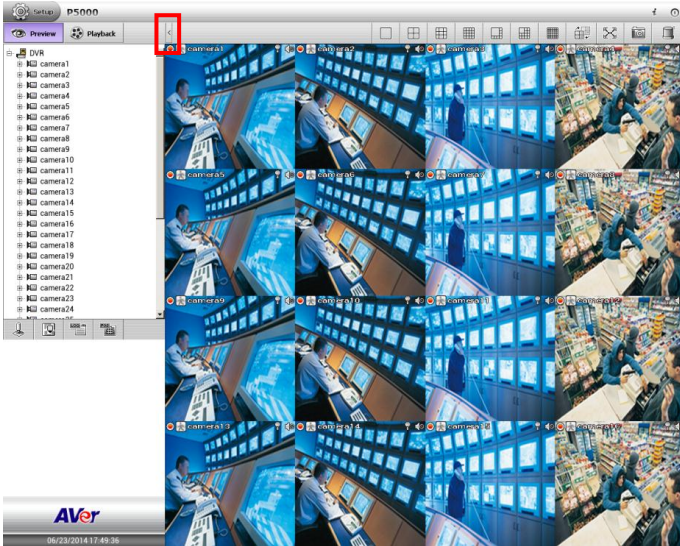
In preview mode, click full screen icon () to switch to full screen display. Click full screen icon () on the bottom of right corner to return back to normal display mode.




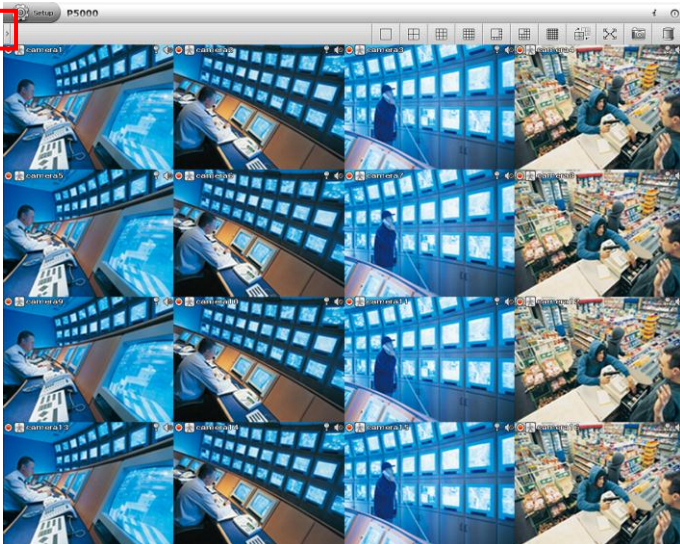
3.10 Hiding Camera List

User can hide the camera list to have larger view of surveillance screen.



In preview mode, click  icon and the camera list will be hidden.

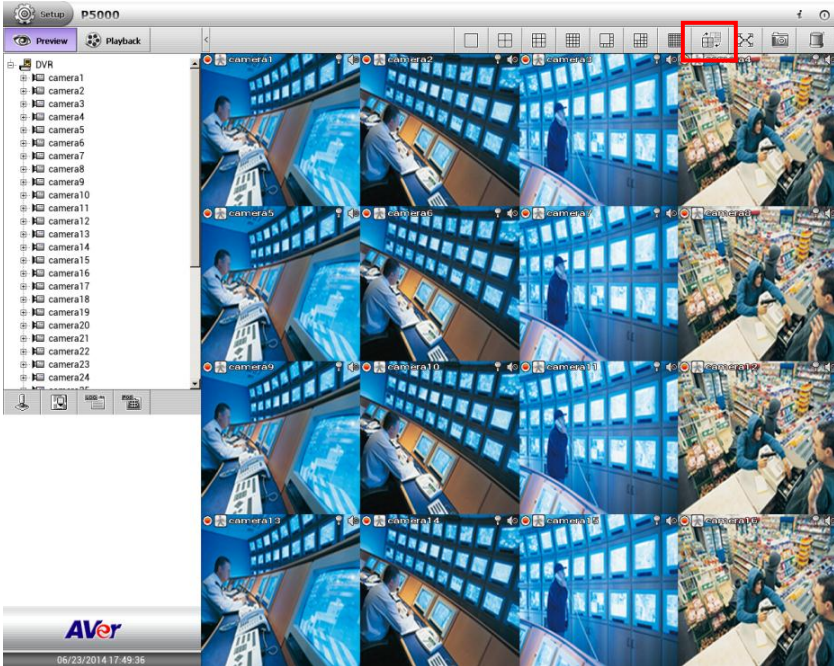


To show the camera list again, click  icon.





3.11 Auto Display Channel in Cycle

Click  to start channel display in cycle automatically. To stop auto cycle display, click  again. If total channels are 36 channels and in 36-split screen display mode, the auto display cycle function won't work.



3.12 Enable/Disable 2-Way Audio Function

This function allows the NVR/DVR server site and IP camera site to talk via internet using microphone. Make sure your microphone and speakers work before using this function.

Click  icon to enable 2-way audio function. To disable, click  icon again.

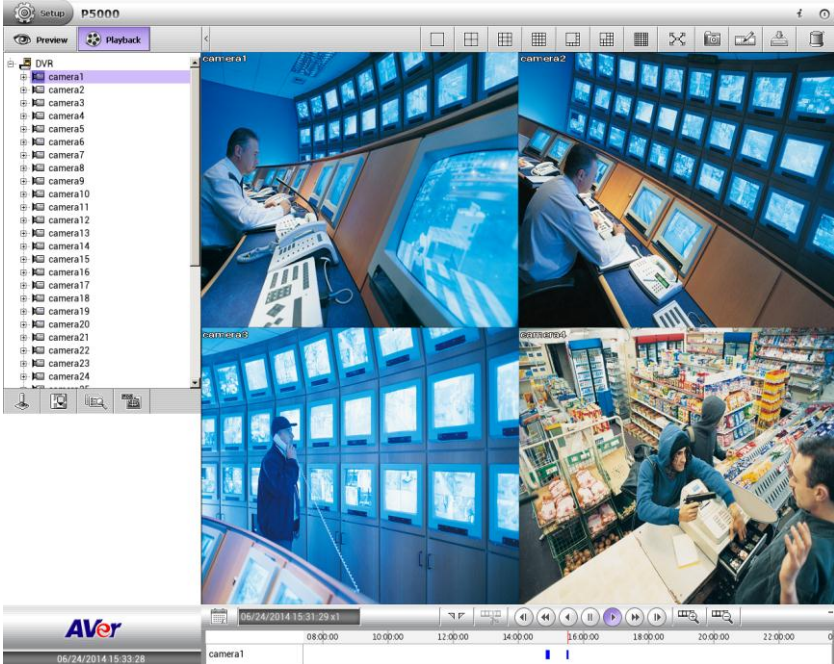
Chapter 4 Playback Recorded Video on NVR/DVR System

In this chapter, it is going to description how to playback recorded video on NVR/DVR system in several ways and introduce some functions that user can operates in playback mode.

4.1 Playback on NVR/DVR System

User can playback the recorded video on NVR/DVR system instantly.





1. Click **Playback** tab in preview mode to switch to playback mode.
2. When switch to playback mode, the NVR/DVR system will start from backward 60 seconds recorded video to playback.

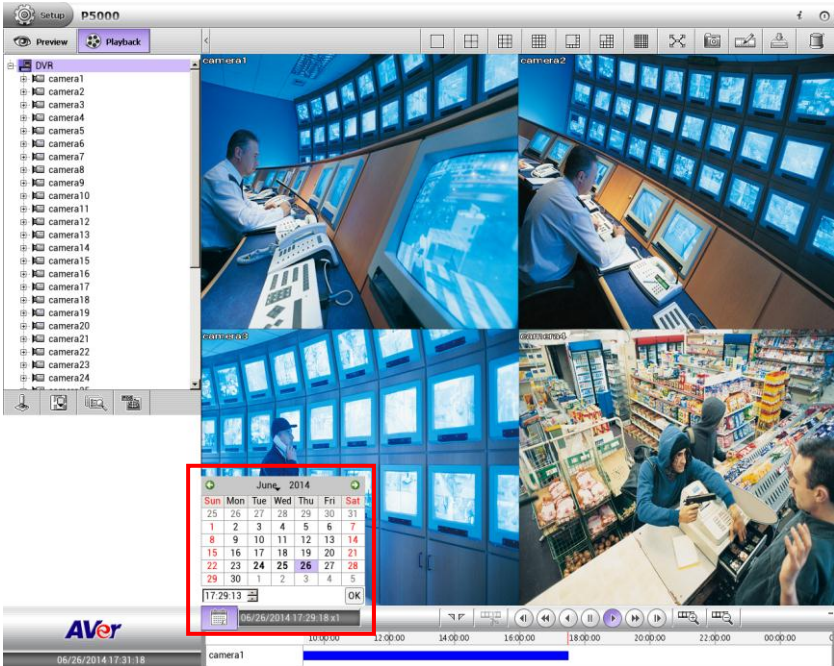


3. The description of function buttons in playback mode refers to [Chapter 3.3](#).

4.2 Playback the Specific Date/Time Period



User can select the specific date and time period to playback.

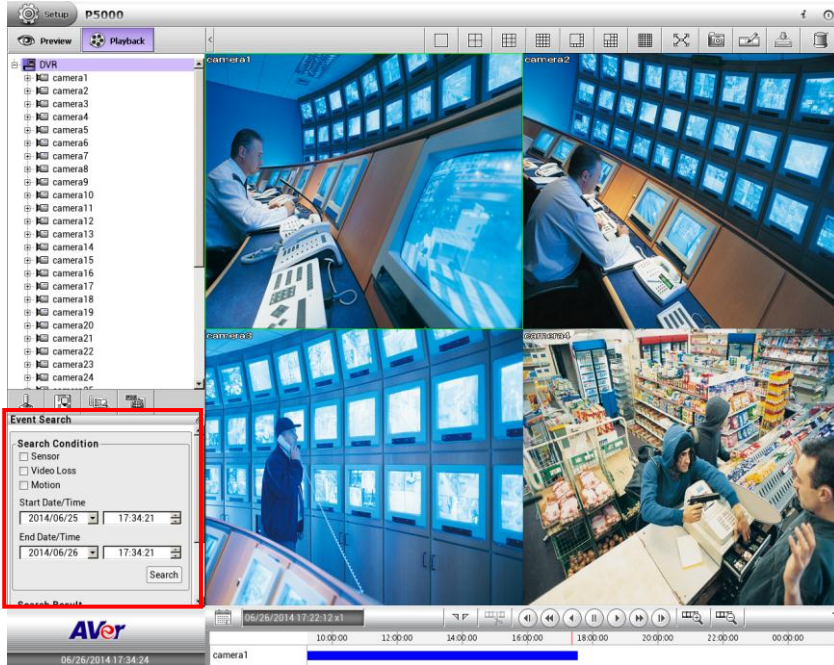
1. In playback mode, click **Calendar**  icon.
2. In Calendar dialog box, select the date (date, month, year) that user wants to playback. The date in bold text indicates it has recorded data. Click  and  icon to switch the date or click  icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
3. In Time box, select the hour, minute, or second to setup the playback start up time. Click the hour and use spin button to adjust the hour. Using the same way to select the minute and second.
4. After selecting the date and time, click **OK** to start playback.




4.3 Using Event Search to Playback the Event

In playback mode, user can use Event Search to find the specific event to playback.

1. Select the channel that user wants to search. Click the channel on screen.
2. Click  (**Search**) icon >>  (**Event Search**) Then, the Event Search dialog box would appear at side area.



3. In the Event Search dialog box, check the type of condition user wants to search. Then, set the **Start Date/Time** and **End Date/Time**.
4. Next, click **OK** to start searching.

5. When the Event list appears, click and select the item user wants to view; but not all the events can be playback such as Sensor.
6. To close the Event Search dialog, click  icon.

Event Search

Search Condition

Sensor
 Video Loss
 Motion

Start Date/Time: 2014/06/24 17:34:21

End Date/Time: 2014/06/26 17:34:21

Search






Search Result

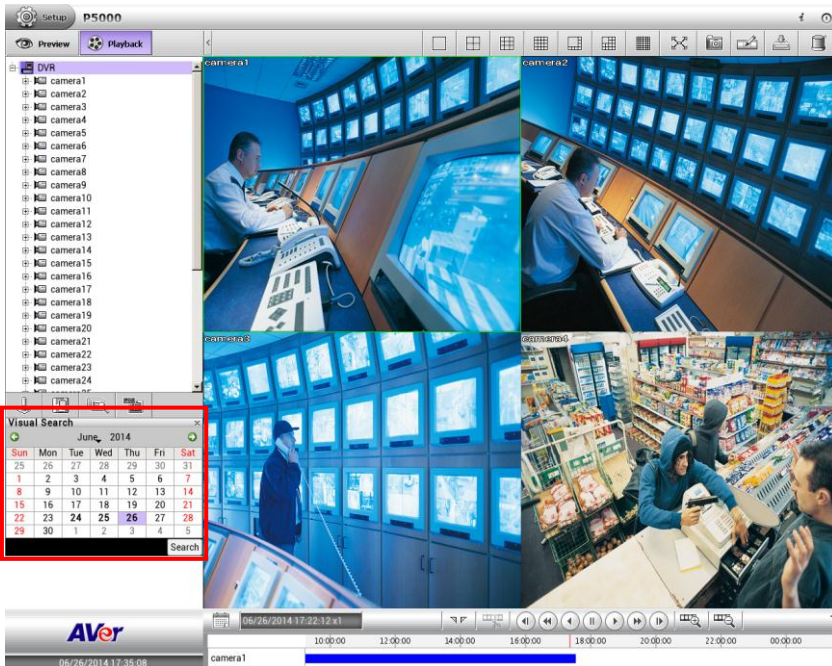
No.	Camera	Type	Start Date/Time	End Date/Time
03	01	Video Loss	2014/06/25 12:02:58	2014/06/25 12:02:58
04	01	Video Loss	2014/06/25 12:41:06	2014/06/25 12:41:06
05	01	Video Loss	2014/06/25 12:55:09	2014/06/25 12:55:09
06	01	Video Loss	2014/06/25 13:19:14	2014/06/25 13:19:14
07	01	Video Loss	2014/06/25 13:33:17	2014/06/25 13:33:17
08	01	Video Loss	2014/06/25 13:57:22	2014/06/25 13:57:22
09	01	Video Loss	2014/06/25 14:11:26	2014/06/25 14:11:26
10	01	Video Loss	2014/06/25 14:25:28	2014/06/25 14:25:28
11	01	Video Loss	2014/06/25 14:49:32	2014/06/25 14:49:32
12	01	Video Loss	2014/06/25 15:03:37	2014/06/25 15:03:37
13	01	Video Loss	2014/06/25 15:17:40	2014/06/25 15:17:40
14	01	Video Loss	2014/06/25 15:55:49	2014/06/25 15:55:49
15	01	Video Loss	2014/06/25 16:09:52	2014/06/25 16:09:52
16	01	Video Loss	2014/06/25 16:23:55	2014/06/25 16:23:55




More

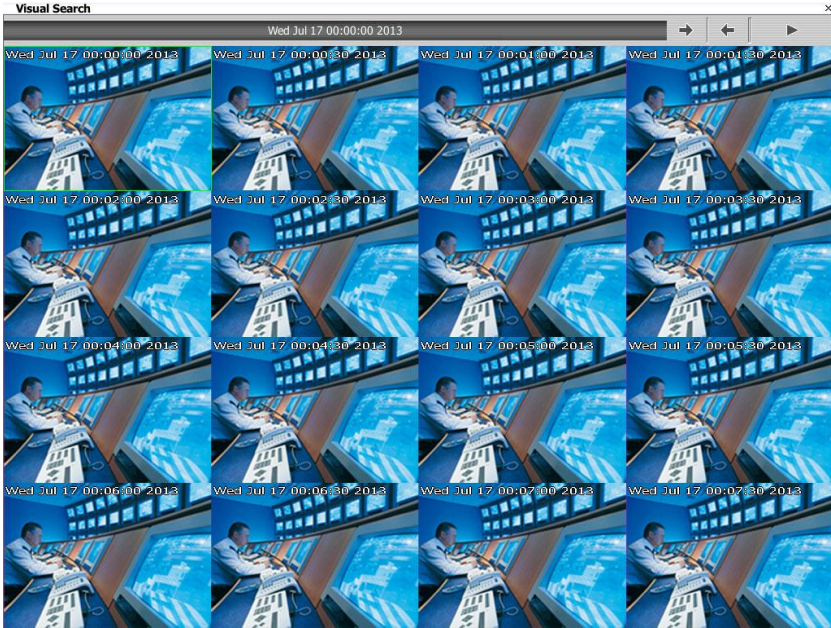
4.4 Using Visual Search to Playback the Specific Time

In playback mode, user can use Visual Search to find the specific time to playback.

1. Click  (**Search**) icon, then select  (**Visual Search**) icon. The Visual Search dialog box would appear under the area.
2. Select the channel that user wants to search. Click the channel on screen.
3. In the Visual Search dialog, select the date. Click  and  icon to switch the month or click  icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
4. Then, click **Search** to start searching.



- When a series of frames appear by date, click on the frame to display another series of frames and search by every 2 hours of that date, every 8Minutes of that hour, and every 30seconds of that minute. Using  and  to go to hour, minute, and second page.
- To playback the selected video, click  button or double-click on selected video screen.



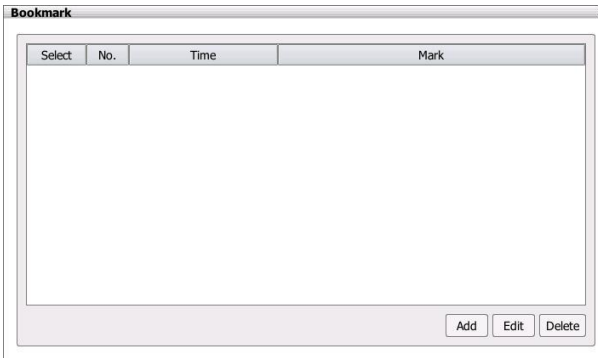
4.5 To Bookmark a Section of the Video for Playback

User can bookmark a specific time of video section.

1. Using the mouse to move the playback time progress bar to the time that user wants to bookmark.



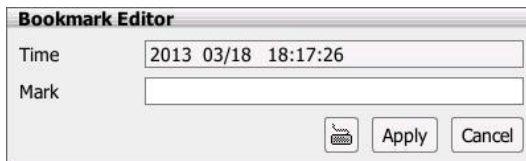
2. Then, click  icon. The Bookmark dialog box is appeared on the screen.



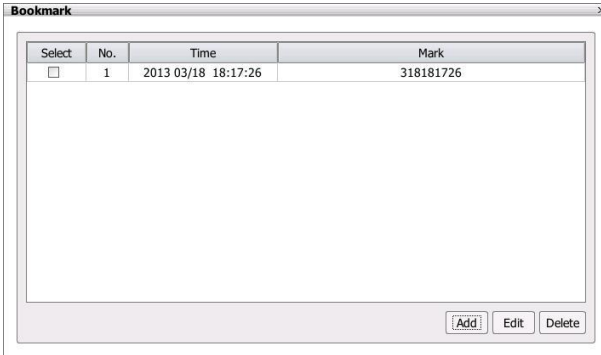
3. Click **Add** button to create the new reference mark in the bookmark list. Enter a short description or name for the mark and click **Apply** button to save the bookmark. To exit bookmark Editor dialog box, click **Cancel** button. User also can select the **File protect** to prevent the bookmark file to be deleted.



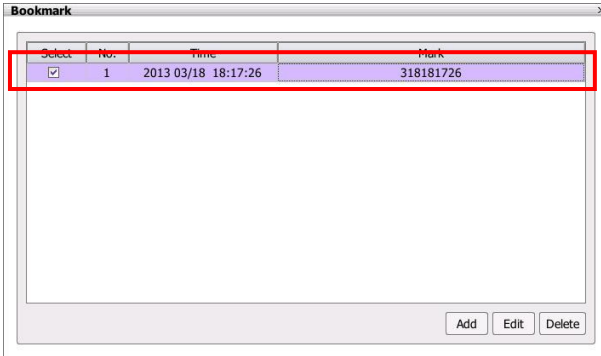
When the bookmark is protected, the file won't be overwritten. If user wants to delete the bookmark, select the bookmark and click Edit. Un-mark the file protect option and click Apply. Then, the bookmark can be deleted it.



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



5. To modify the bookmark, select the bookmark and click **Edit** button.
6. To delete the bookmark, select the bookmark and click **Delete** button.



7. To close the Bookmark dialog box, click icon.

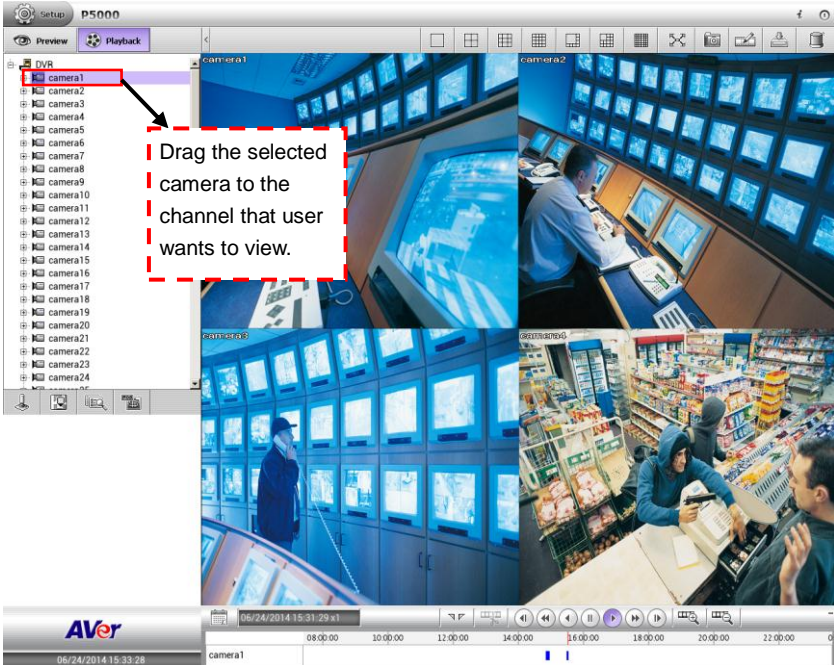
4.6 Playback Mode Management

4.6.1 Managing Channel Display Position



User can arrange the channel display position that user is desired.

Select the camera in camera list section. Then, drag the camera to the channel that user wants to playback. Next, User should see the video playback on the channel screen.

The channels can be switched between each channel; just click the channel and drag the channel to the desire channel position. For example: Camera 01 switches to Camera 09; the Camera 01 will be Camera 09 position and the Camera 09 will switch to the Camera 01 position.

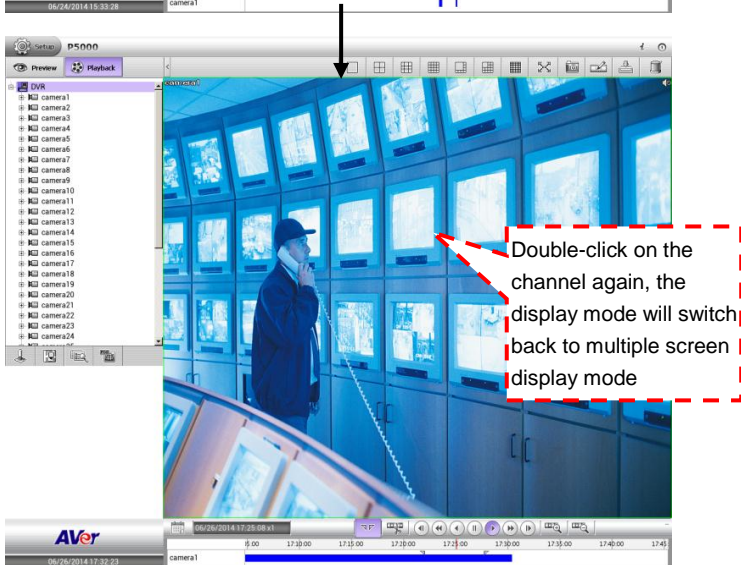
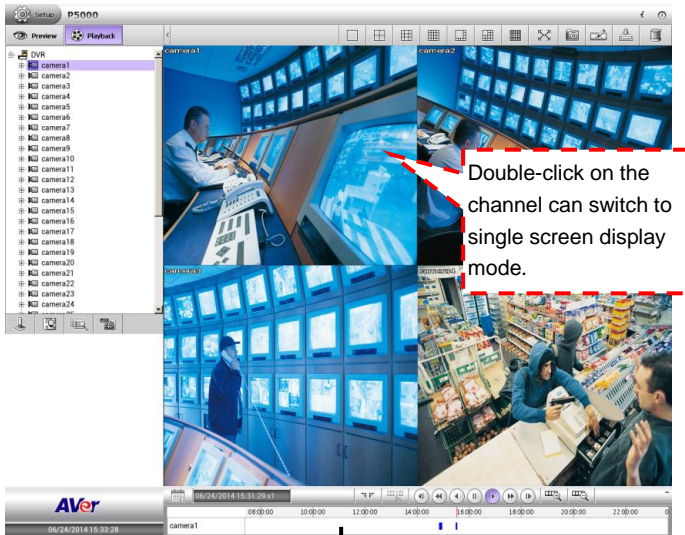


4.6.2 Enable/Disable Sound of the Channel

First, switch to single screen display mode. Then, Click the  icon on the channel screen to disable the sound play. Click  again to enable sound play.



4.6.3 Switching Multiple Screen Display to Single Screen Display

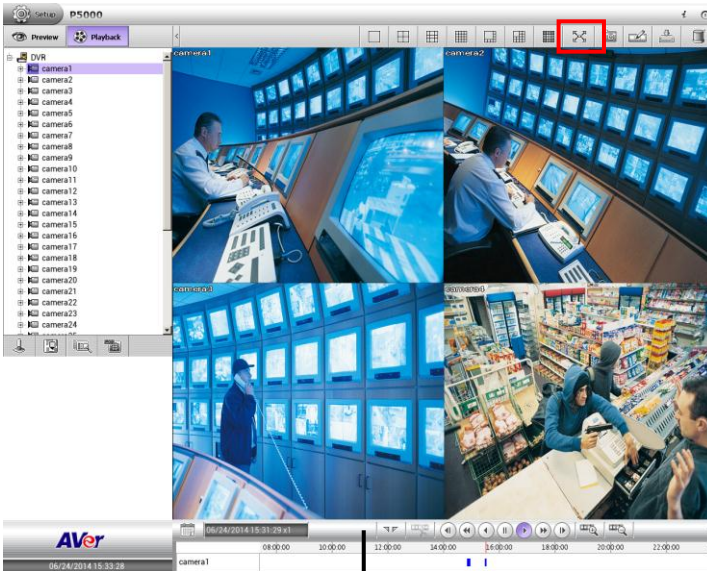
In multiple screen playback mode, user can double-click on the channel screen to switch to single display screen mode. Double-click on channel screen again; the screen display will switch back to multiple screen playback mode.



4.6.4 Full Screen Display



View the playback screen in full screen display mode.

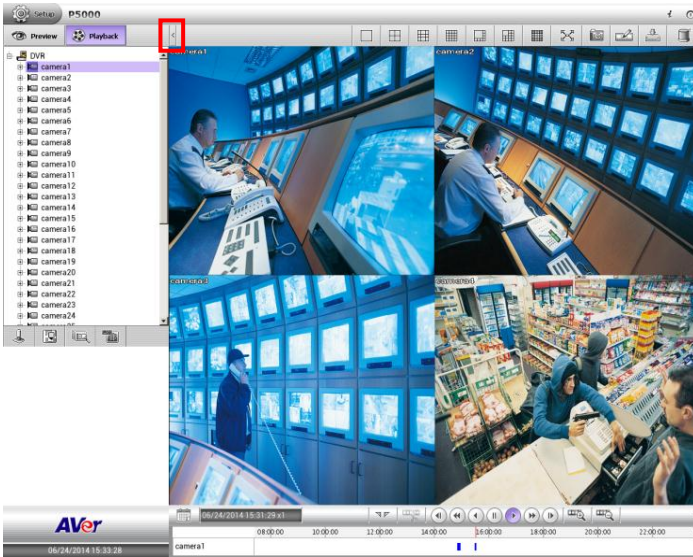
In playback mode, click full screen icon () to switch to full screen display. Click full screen icon () on the bottom of right corner to return back to normal display mode






4.6.5 Hiding Camera List

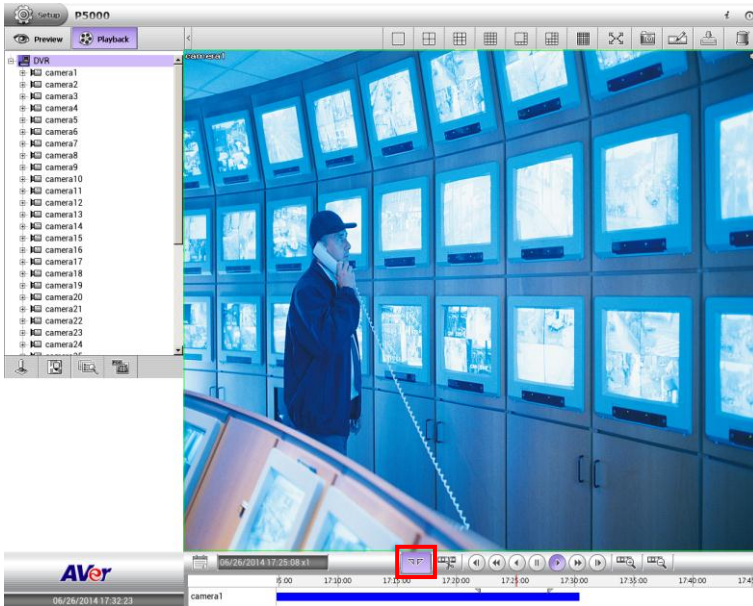
User can hide the camera list to have larger view of surveillance screen.



In playback mode, click  icon next to preview tab and the camera list will be hidden. To show the camera list again, click  icon.

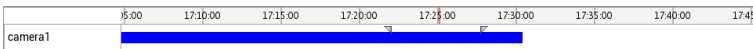



4.6.6 Output a Video Clip to a USB Pen Drive

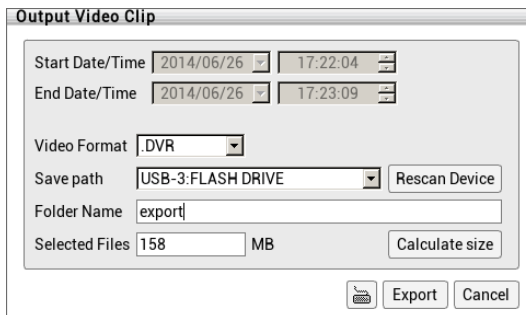
1. Switch the playback screen to 1 single screen display mode.
2. Using  and  button to expand the time bar for easy to set the segment period.
3. Click  (**Segment**) button to set the mark.



4. Then, drag the  mark (**segment**) to set video period portion. To cancel segmentation, click  button (**Segment**) again.




5. Click **Output Video Clip** button () and the Output Video Clip dialog box is appeared.

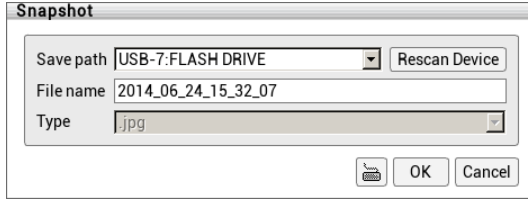


- **Start Date/Time:** Displays the begin time and date of segment video file.

- **End Date/Time:** Displays the end time and date of segment video file.
 - **Video Format:** Select the file format -- *.DVR or *.MP4.
 - **Save path:** Where to save the segment video file. Click **Rescan Device** to detect the external USB pen drive if NVR/DVR system didn't detect it.
 - **Folder Name:** Give a name for segment video file. Using virtual keyboard to enter the name).
 - **Calculate size:** To calculate the file size of segment video file. The calculate result is displayed in **Select File** column.
 - **Select Files:** Displays the file size of segment video file.
6. Click **Export** button to save wanted segment portion.
 7. To playback the export video clip, please refer to [Chapter 5](#).

4.6.7 Snapshot the Screen View

1. Select the channel or all channels.
2. Plug the USB pen drive to NVR/DVR unit.
3. Click **Snapshot** () button.
4. In Snapshot dialog box, check the Save path has been detected by NVR/DVR system. If the save path doesn't found, click **Rescan Device** button to re-detect it.

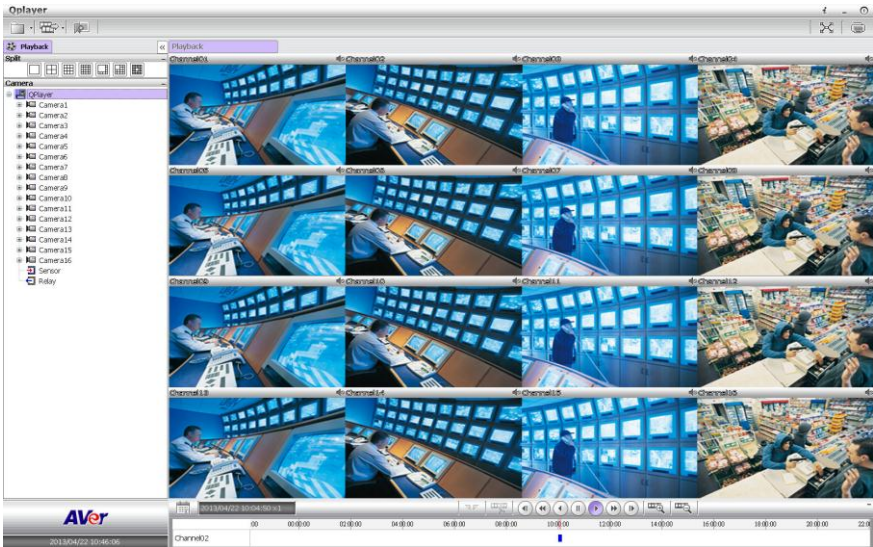


5. If user wants to re-name the **File name**, call out the on-screen keyboard and enter the new file name in File name column.
6. Click **OK** to capture and save the screen shot.
7. The captured and saved screen image can be viewed on PC.

Chapter 5 Playback by Qplayer

You can playback the backup files by using QPlayer applications on the PC. When you back up the recorded file, QPlayer applications are automatically included in the backup folder if user has enabled the selection of **Incluide player when backup** when backup recorded file. With QPlayer, it is similar in Playback mode and supports different split screen types to view all the video at the same time.

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



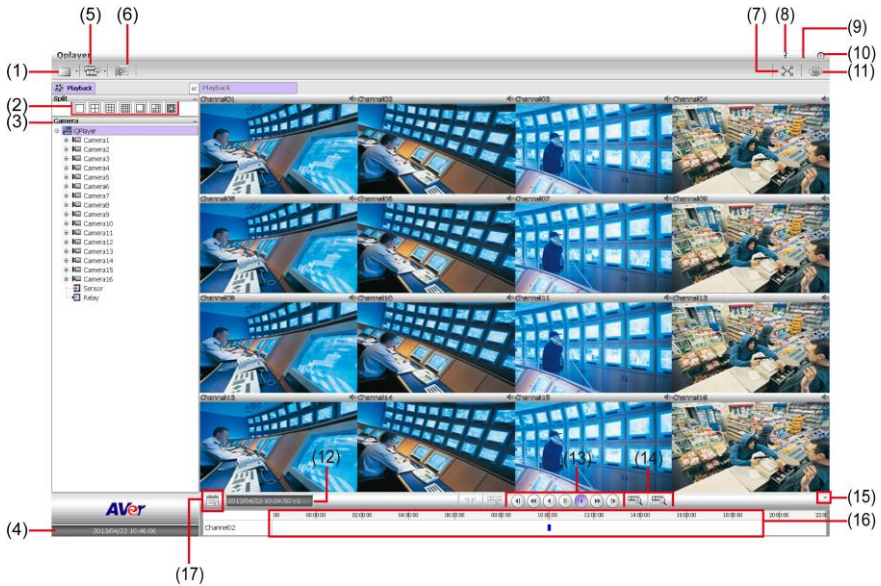
5.1 Familiarizing Functions of Qplayer

In Qplayer main UI, click File > Open File to locate the backup file folder.



Please copy the whole backup folder under hard disk direction of PC (ex: C:\).



The functions of Qplayer will be described in following:
















Name	Function
(1) File	Click it to open the backup file.
(2) Split Screen Mode	Select from 7 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.
(3) Camera list	Lists all cameras. Click + to expand the list. User can select and drag the camera to desire channel location.
(4) Date and Time	It shows the current date and time.



To only display one of the video in the multiple-screen mode, **double click** on the video screen you only want to display.

Name	Function
(5) Export	Export function includes 2 functions – Snapshot and Print. - Snapshot: Catch a static current screen image and save it as a JPG file on local hard disk. - Print: Print out the current Qplayer screen.
(6) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference (see also Chapter 5.1.1).
(7) 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. 
(8) System Information	Click it to view NVR/DVR system's version and copyright. 
(9) Minimize	To minimize the Qplayer on the task tray.

Name	Function
(10) Power button	<p>Call up the Power dialog box.</p> <p>In the Power dialog box, user may do the following:</p>  <ul style="list-style-type: none"> - Exit: To shutdown the NVR/DVR system. - Cancel: To exit Logout dialog box.
(11) On Screen Keyboard	<p>If the keyboard is not available, you may use the Virtual Keyboard.</p> 
(12) Status bar	<p>Display the recorded date, time and play speed.</p>
(13) Playback Control Buttons	<p>From left to right order:</p> <ul style="list-style-type: none">  Begin: Move at the beginning of the recorded video file.  Previous: Go back to the previous frame.  Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x. The playback speed will show on the screen.  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, 32x, or 64x. The playback speed will show on the screen.  Next: Go to the next frame.  End: Go to the end of the recorded video file.
(14)  /  (Zoom in/Zoom out)	<p>To expand the playback time bar from an hour to minute.</p>
(15) Close up progress bar	<p>Click to close up the progress bar. Click again to open up.</p>

Name**Function**

(16) Progress bar

Show the progress of the file being played. You may move the bar to seek at any location of the track.
Using the Zoom In/Out button to expand the playback time from an hour to minute.

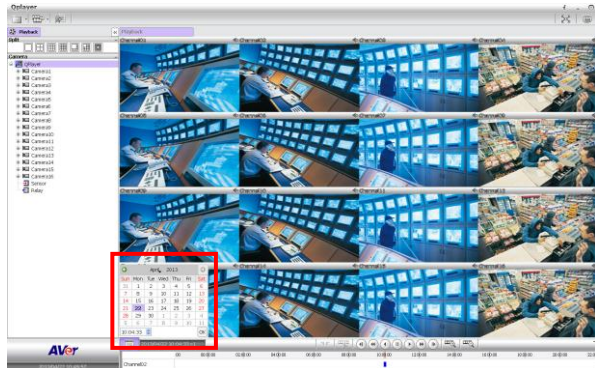





Meaning of color in progress bar:

- **Red:** Alarm record
- **Green:** Motion record
- **Blue:** Always record(normal record)
- **Yellow:** Video loss
- **White:** No record date

(17) Calendar

Select the date on the calendar and the time to where to start playing the recorded video file. Click **OK** to start playback.



- **Date:** click the date on calendar to select. The date in bold text indicates there has recorded file. Click  and  icon to switch the date or click  icon next to month to select the month. To switch the year, click on the text of year and click spin button to select.
- **Time:** In Time box, select the hour, minute, and second to setup the playback start up time.



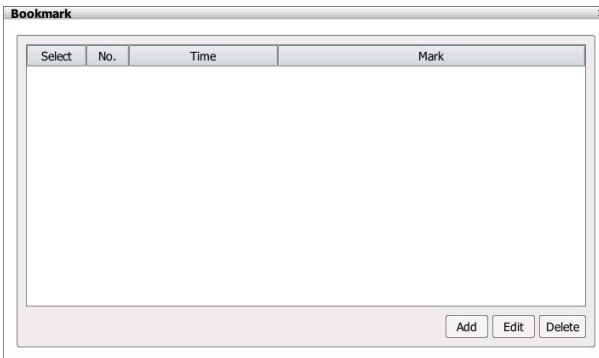
5.1.1 To Bookmark a Section of the Video for Playback

User can bookmark a specific time of video section.

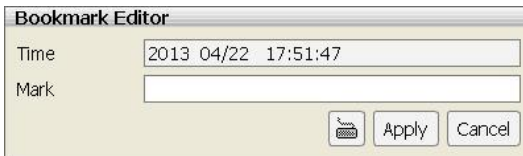
1. Using the mouse to move the playback time progress bar to the time that user wants to bookmark.



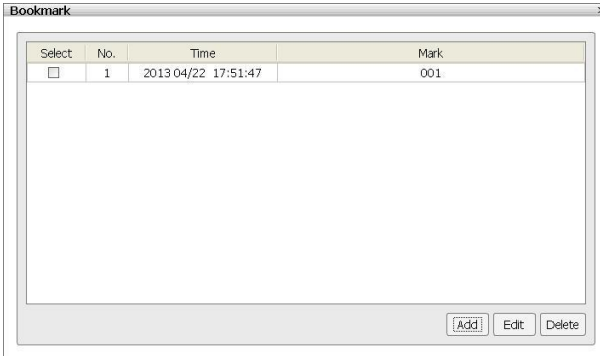
2. Then, click  icon. The Bookmark dialog box is appeared on the screen.



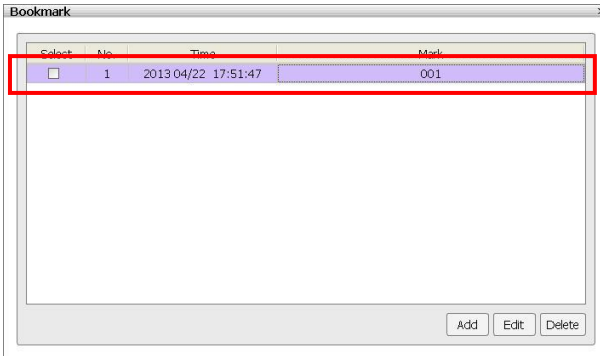
3. Click **Add** button to create the new reference mark in the bookmark list. Enter a short description or name for the mark and click **Apply** button to save the bookmark. To exit bookmark Editor dialog box, click **Cancel** button.



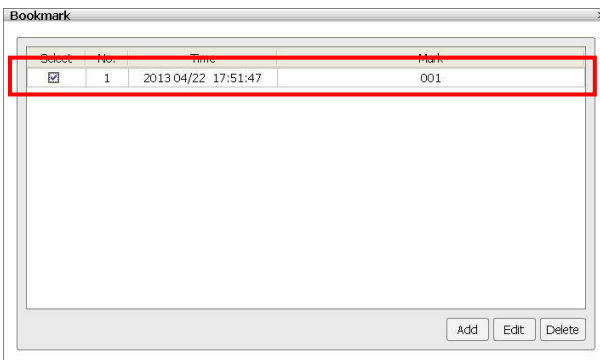
4. Select and click one in the bookmark list to review the file.



5. To modify the bookmark, select the bookmark and click **Edit** button.



6. To delete the bookmark, mark the bookmark and click **Delete** button.




7. To close the Bookmark dialog box, click icon.

Chapter 6 Using the PCViewer

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

Accessing this feature for the first time you will be prompted by your browser to install PCViewX.cab, allow the installation and you should be able to connect and login afterwards. Click Install when the Internet Explorer - Security Warning dialog box appears.

After installing the PCViewX.cab and when connecting to the NVR/DVR system, you are required to enter account ID (default is **admin**) and password (default is **admin**) and select the type of network. Admin account has the authority to remote setup the NVR/DVR system configuration on PCViewer.

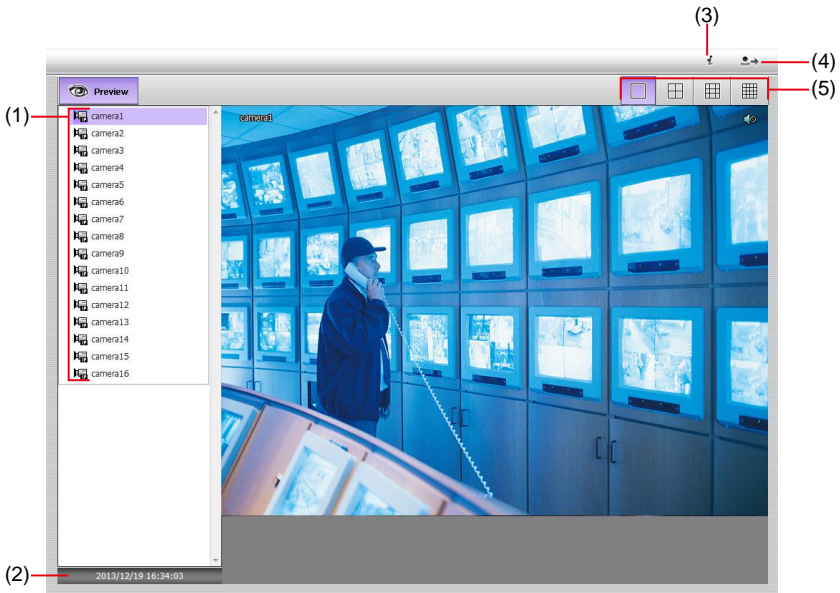


The image shows a screenshot of a web browser window displaying an "Authorization" dialog box. The dialog box has a title bar that says "Authorization". Inside the dialog, there is a text prompt: "Please enter your user ID and password." Below this prompt are two input fields: "User ID" and "Password". To the right of the "Password" field is an "Apply" button. At the bottom of the dialog box, there is a warning message: "Warning: Please do not open multiple WebViewer pages on single PC".

[Note]

1. PCViewer supports on Windows 7 (IE9, IE10, IE11) and Windows 8 (IE10 & IE11).
2. One PC/NB only can operate one PCViewer application.
3. PCViewer doesn't support the IE browser of Windows 8 metro version.

6.1 Familiarizing Functions of PCViewer

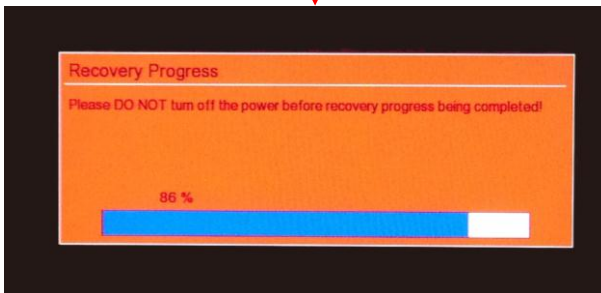
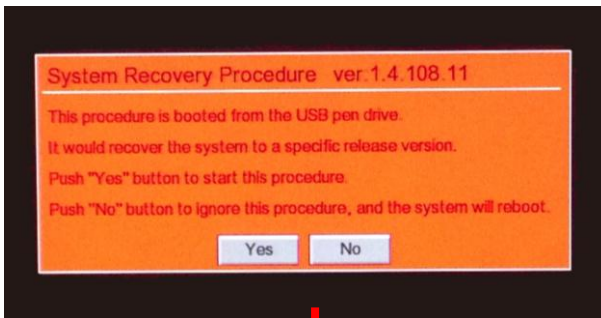


Name	Function
(1) Camera list	Lists all cameras. Click the camera # to view in single screen display mode or click camera group to view in multi-screen display mode.
(2) Date and Time	It shows the current date and time.
(3) Information	Click it to view NVR/DVR server's model name, S/W version and PCViewer FW version.
(4) Logout	To exit the application.
(5) Split Screen Mode	Select from 4 kinds of split screen type to view live video of remote NVR/DVR server.

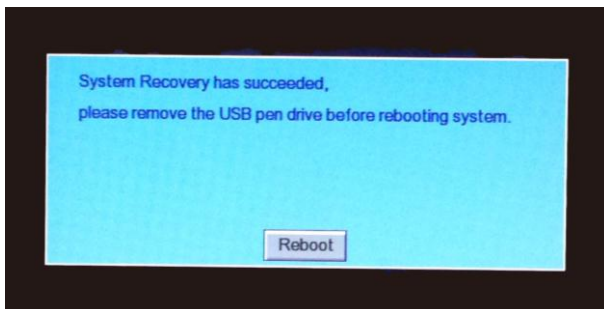
Appendix USB Recovery

Save the firmware on USB pen drive and through the USB port on NVR/DVR unit to recovery the firmware of NVR/DVR system. All the configuration will be erased after recovery process.

1. Download the firmware from website <http://surveillance.aver.com/> >> **Support** >> **download Center**.
 2. After download the firmware file, un-zip the file and save on USB pen drive.
- [Note]** Copy the entire firmware file folder into USB pen drive.
3. Power off the NVR/DVR system.
 4. Plug the USB pen drive that contains recovery firmware into USB port that is located in front of NVR/DVR unit (upper one).
 5. Then, power on NVR/DVR unit. While the NVR/DVR is reading file, the screen is black. Please wait for a System Recovery Procedure window to show up.
 6. When System Recovery Procedure window show up, click **Yes** to continue it. If user wants to cancel the firmware upgrade procedure, click **No**.



7. After all procedures have completed, the Reboot window is show up. Remove the USB pen drive from NVR/DVR unit and click **Reboot** button to restart NVR/DVR system.



WARRANTY NOTICE

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

WARRANTY LENGTH

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

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

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

WHO IS PROTECTED

This warranty is enforceable only by the first consumer purchaser

WHAT IS AND IS NOT COVERED

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

1. Any product on which the serial number has been defaced, modified, or removed
2. Damage, deterioration, or malfunction resulting from:
Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification, or failure to follow instructions included with the product.
Misapplication of service by someone other than the manufacturer's representative
Any shipment damages (Claims must be made with carrier)
Any other cause which does not relate to a product defect
3. Cartons, cases, batteries, cabinets, tapes, or accessories used with product
4. AVer Information Inc. does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose

WHAT WE WILL AND WILL NOT PAY FOR

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

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

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