# AVerMedia<sup>®</sup> AVerDiGi EXR6004 WiFi

**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/EEC.

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

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



# **WARNING**

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



# **CAUTION**

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



# **NOTICE**

- INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.
- THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCT ONLY.

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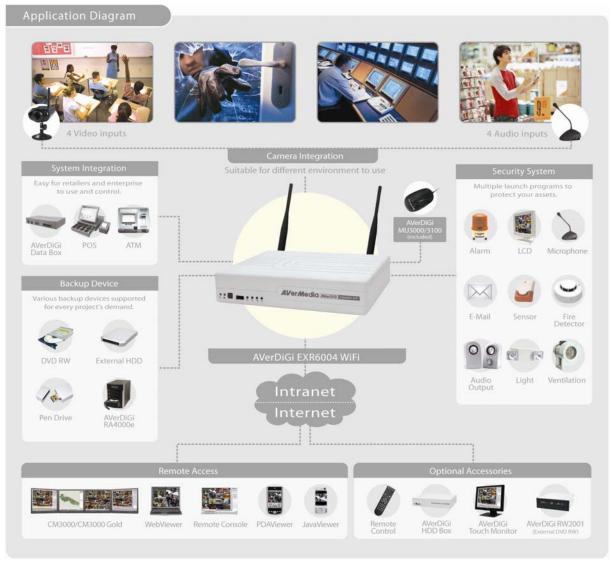
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# **Chapter 1** Introduction

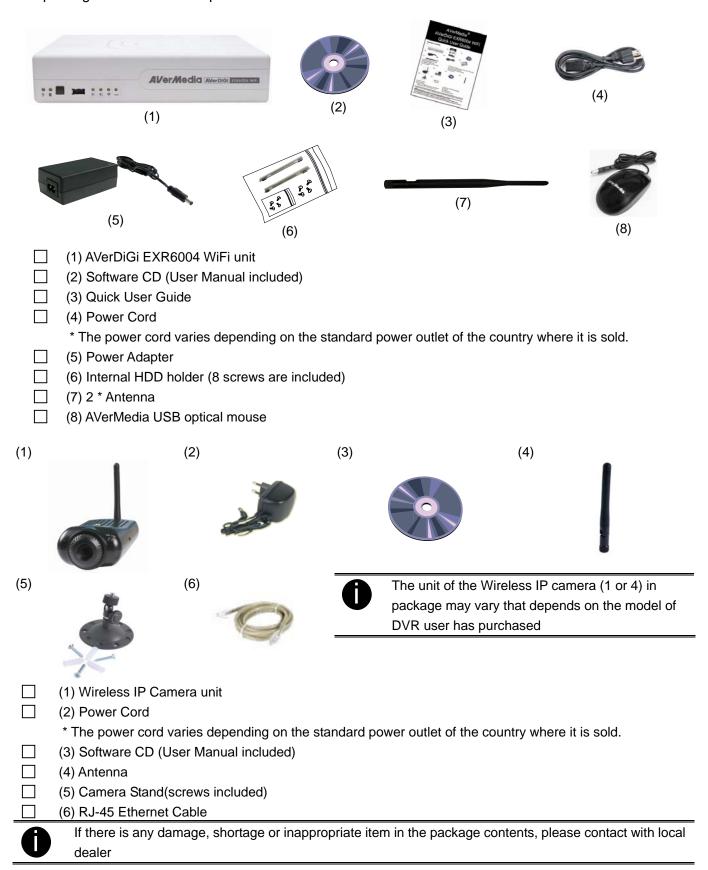
AVerdiGi EXR6004 WiFi is the instant video surveillance system that can be fully installed by anyone in less than 3 minutes. Simply open the box, power on the included wireless megapixel IP camera, plug the unit in and instantly the monitored area is under the watchful eye of a powerful video surveillance system no appointments, costly cabling or power tools necessary! It's your best home surveillance choose.



**Application Diagram** 

# 1.1 Package Content

The package content has two parts – DVR unit and Wireless IP camera.



# 1.1.1 Optional Accessory



# 1.2 Features

# Key Features

- Pre-configured WPS setting for instant camera connection
- Bundled with 1.3M wireless IP camera
- Bundled with mouse (AVerDiGi MU3000) for full function control.
- Dual Gigabit LAN ports supported
- Compact size suitable for tiny space
- One built-in HDD with option to install external HDD via eSATA interface
- Embedded Linux with Windows lookalike GUI design
- Built-in dual LAN port for sophisticated network application
- POS and ATM transaction data for displaying and recording (Work with AVerDiGi Data Box)
- Compatible with AVerDiGi Touch Monitor
- Built-in eSATA connector for external HDD that give you up to 2TB capacity
- True Plug & Play system

# Smart and Easy Configuration

- WPS support for one click camera auto connection
- No difficult setting required to initiate the system

# ■ IP Video Feature

- 4 channels network (wireless) video input
- 4 channel network (wireless) audio input
- Video compression: MJPEG, MPEG4

# Display

- VGA output in 1024x768 resolution
- Flexible display channel arrangement
- One click on channel number button to switch display channel
- Auto-scan support for live monitoring
- Zoom in any selected area in a channel when live monitoring
- Optimized de-interlace options for dynamic or static camera scenes

# Recording

- VGA Recording frame rate: 120/100 fps (NTSC/PAL)
- Recording modes: continuous/ smart/ motion/ alarm/ manual/ key frame recording
- All recording modes can be triggered by schedule
- Easy snapshot in preview and playback screen
- Support pre-recording up to 10 seconds
- Search & Playback & Backup
- Playback at 2, 4, 8, 16, 32, 1/2, 1/4, 1/8 speed forward or backward
- Quick playback by searching date, time, camera, event, vision and log file

- Powerful visual search and intelligent search
- Advanced Event Log Viewer according to your selection on alarm, event, operation, system and network events
- Support direct burn to CD-R/RW/DVD-R/RW discs

# Video Enhancement

- iEnhance is the exclusive video enhancement software can adjust recorded data to the highest quality image
- iStable is the video stabilizer software which can fix shaking and jolts impact on video with just one click
- Remote Access
- Central Management System (CM3000/CM3000 Gold)
- Remote Setup
- Remote Console
- WebViewer
- PDAViewer / JavaViewer
- 3GViewer(via Dispatch Server)

# E-map

- Shows the positions of cameras, sensors, and relays
- Store up to 8 different maps

# Alarm Notification

- Email
- SMS
- Start recording
- Trigger IP Camera Output Device
- Trigger MXR Server Output Device
- Send video to CMS and more
- PTZ Preset Position
- Trigger Emap

# Others

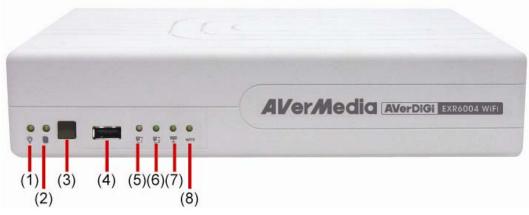
- Watch dog function support to prevent unexpected system crash
- USB to upgrade system easily and quickly
- Free DDNS service

# 1.3 Specifications

Operating System	Embedded Linux
Video Compression	MPEG4/ MJPEG
Video In/ Video Out	4/1
Video Output	VGA output
Audio In/ Audio Out	4/1
Sensor In/ Relay Out	4/1
Display Resolution	1024x768
IP camera Resolution (NTSC/PAL)	1280x1024; 1024x768; 640x480; 512x384; 320x240; 160x120
Recording Frame Rate (NTSC/PAL)	120/100 fps
Encryption Method	WPA/WPA2
Bundled Package	Wireless megapixel IP cameras (CMOS) x1, Mouse (AVerDiGi MU3000/3100)
Support Number of HDD	1 internal SATA HDD and 1 eSATA connector for external HDD
Backup Device	USB 2.0 port x 3
LAN Port	Dual Gigabit LAN ports
Recording Mode	Schedule recording, Continuous / Motion / Sensor / Event recording
Remote Access	CM3000, Remote Setup, Remote Console, WebViewer, PDAViewer, JavaViewer
Software Support	iStable(Video Stabilizer software), iEnhance (Video processing software for better video quality), USB Playback Console
Optional Accessory	AVerDiGi Touch Monitor (TM1700/1900), AVerDiGi RW2001, AVerDiGi HDD Box, SATA HDD, Remote control
Dimension (W x H x D)	235mm x 160mm x 53mm
Model	AVerDiGi SF1301W (Bundled IPcam)
Device	1/4 inch CMOS
Effective Pixels	1280 x 1024
Min. scene illumination	0.5 Lux
F/No	F2.8
Compression	MPEG4/MJPEG dual format compression simultaneously
Picture Resolution	1280x1024;1024x768;640x480;512x384;320x240;160x120
Image Frame Rate	10 fps at 1280x1024 / 30 fps at 640x480
Built-in Microphone	Sensitivity -42dB +/- 3dB (5 Meters distance min.); S/N Ratio: more than 58 dB; Directivity Omni-directional
Audio Line Output	Output Line-out For external speaker
Recording mode	Continuous/Event/Motion Detection
Ethernet	Ethernet (10/100 Mbps Fast) , RJ-45 connector
Protocol	IPV4, ARP, TCP, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, Samba, PPPoE, UPnP, RTP, RTCP, RTSP
WPS (WiFi Protected Setup)	Yes
Web Browser	IE 7.0/FireFox 2.0.7/Safari 3.2.2 or above
Security	Password protection: configured by the administrator
Temperature and humidity	-15~60°C (Storage), 90% humidity / 0~40°C (Operating),85% humidity
Power Consumption	6W (DC 5V)
Dimensions (WxHxD)	71mm x 44mm x 133mm

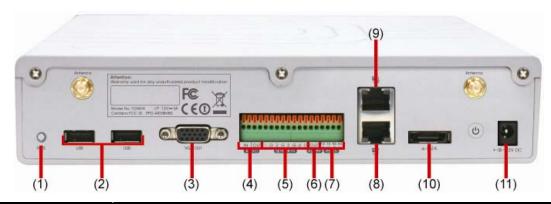
Weight	158 g (w/o bracket)
Indoor/Outdoor	Indoor

# 1.4 Front Panel



Name	Function
(1) DVR Power LED ♣	Light when the unit is power on
(2) HDD LED	Indicate the hard disk running state. Light when the HDD is running (Read/Write)
(3) IR Sensor	Receive signal from the remote control to operate the unit
(4) USB 2.0 Port	For pen drive/DVD-ROM connection
(5) Network 1 Indicator	Indicate the status of network 1
(6) Network 2 Indicator	Indicate the status of network 2
(7) Wireless Indicator	The indicator will light up when the WPS is enabling.
(8) Wireless Status Indicator	To indicator the wireless status. When the wireless is working normally, the indicator will light up and flash in green light.

# 1.5 Back Panel



Name	Function
(1) WPS button	Pressing to enable the WPS function.
(2) 2* USB 2.0 ports	For USB keyboard, mouse, and other USB devices connection.
(3) VGA Out	Output the video signal to a CRT or LCD monitor
(4) Audio In/Out	<ul> <li>Audio In: Input the audio signal from audio input device such as microphone</li> <li>Audio Out: Output the audio signal to a audio out device such as speaker</li> </ul>
	The audio input/output device has its own power supply is necessary.
(5) Sensor In	Support 4 sensor devices
(6) Alarm Out	Support 1 relay device (Relay: 1A @ 125V AC/30V DC)
(7) RS-485	For future function, no support now.
(8) Gigabit LAN port	LAN connection but default assign as a DHCP service port. User also can connect the IP camera through the Ethernet cable.
(9) Gigabit WAN port	For connect with switch or router on your network for internet connection.
(10)e-SATA port	For connecting external RAID
(11)12V DC	Power cable connection

# 1.6 Setting Up the DVR Unit

# 1.6.1 Installing the Hard Disk



- For hard disk spec, please referring to <a href="http://www.avermedia.com/AVerDiGi/Product/">http://www.avermedia.com/AVerDiGi/Product/</a> → AverDiGi EXR6004 WiFi → Hardware Recommendations
- The DVR unit may include hard disk that depends on the model user has purchased. If the model user has purchased is included hard disk, user doesn't need to install the hard disk by yourself.



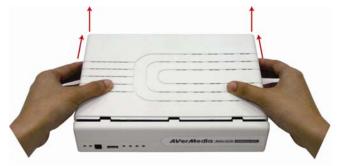
The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia products and functioned well under normal operation conditions. AVerMedia does not guarantee or provide warranties, explicitly, implied or statutory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

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

1. Loosen all screws







3. Secure the brackets on the hard disk

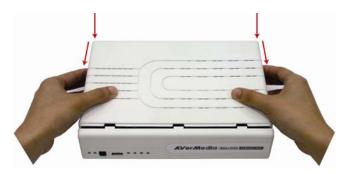


4. Connect the the SATA cable and the power connector to the hard disk



5. Secure the hard disk inside the unit then place unit 6. Push the cover forward and secure the cover cover



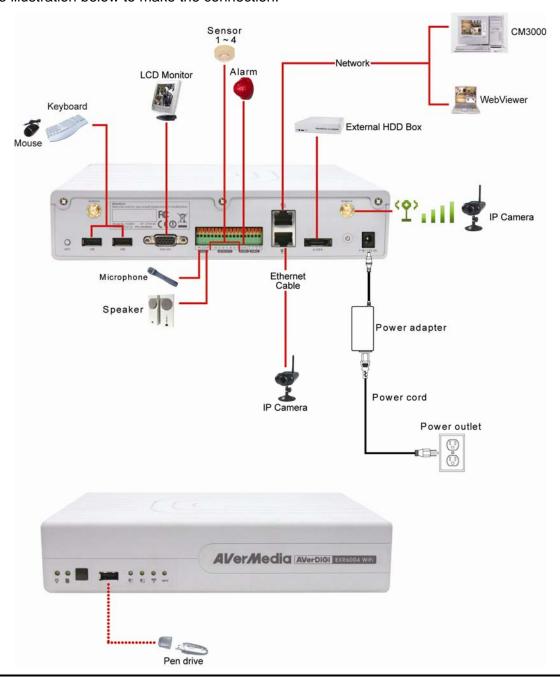


7. You may now connect all the cables. When the power is connected, the Power LED light 🖰 turns on

# 1.6.2 Connecting Devices

The back panel of the DVR unit, user can connect the 4 sensor devices, 1 alarm device, audio input/output device and an external HDD storage device. Through the Gigabit LAN ports can connect with the IP cameras and allows user to remote access the DVR server. The USB ports can connect the mouse and keyboard for more easily to operate DVR server.

Follow the illustration below to make the connection:





- The port LAN1 that is located at lower position of the back panel is a DHCP service port in default.
- To connect more than one IP camera through the Ethernet cable, please connect the switch (DHCP function disabled) or hub (DHCP function disabled) to the DVR unit, and then, connect the IP cameras to the switch or hub.

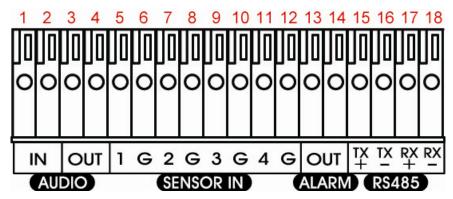


- Port LAN1 that locate at lower position of the back panel is reserved for connecting with SF1301(W) IP camera through Ethernet cable only. The DVR system will detect and configure the camera automatically when the connection is made through the Ethernet cable.
- Port LAN2 is configurable for PPPOE, DHCP, or Fixed IP of the network mode.

# 1.6.3 Connecting the Audio, Sensor and Relay device

The Sensor, Alarm, and audio port enable you to connect 4 sensor inputs, 1 relay outputs, and 1 audio in and 1 audio out device. Just connect the external sensor, relay, and audio in/out device pin directly to the pinhole. The RS-485 port can be used for POS system connection through an AVerDiGi Data Box.

Check the table below and locate which pinhole is assigned to sensor input, relay output, and audio in/out.



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

# Audio in and out pinhole:

Pin #	Definition
1	Audio input signal
2	Audio Ground signal
3	Audio output signal
4	Audio Ground signal

# **Sensor and Alarm pinhole:**

Pin#	Definition
5	Sensor 1 signal
6	Sensor 1 Ground signal
7	Sensor 2 signal
8	Sensor 2 Ground signal
9	Sensor 3 signal
10	Sensor 3 Ground signal
11	Sensor 4 signal
12	Sensor 4 Ground signal
13	Relay signal
14	Relay signal

#### RS-485 pinhole:

Pin#	Definition
15	RS485 TX+ signal
16	RS485 TX- signal
17	RS485 RX+ signal
18	RS485 RX- signal

# **Chapter 2** Operating the DVR unit

# 2.1 The Way to Operate DVR

There are two ways can be managed the DVR unit:

# 1. Using mouse and keyboard

Connecting the mouse and keyboard through USB interface, user can manage the DVR unit easily. For the first time using DVR unit, mouse and keyboard is the best way to set up all DVR relevant configurations.

# 2. Using Remote Control(Optional accessory)

After DVR unit has been setup, user can use remote control to preview, playback, backup, reset alarm, output video and so on functions.



For the first time using DVR unit, using mouse and keyboard to setup all configurations.

# 2.2 First Time Using the DVR Unit

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

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

- Make sure the HDD is installed inside the DVR unit.
- Make sure the antennas are installed on the DVR unit.
- Make sure all the connecting devices are well connected with the DVR unit and have their own power supply.
- Make sure the DVR unit is connected on your network and power on.
- Make sure the IP cameras are power on.
  - Please make sure the DVR unit and IP camera are in communication area.



- For get better wireless communication and stability, do not use the DVR unit around following devices.
  - Microwave ovens.
  - Wireless transmitters (radio transmitters, cellular transmitters, etc.)
  - Wireless devices which operate at 2.4 GHz (security equipment, Bluetooth, Zigbee, cordless telephones, etc.)
- Wireless communication range and quality may be affected if the following types of objects are located between or near the DVR unit and other wireless devices connected to the DVR unit.
  - Metal door shutters
  - Walls made of concrete, stone, or brick, or walls which contain aluminum based heat insulation
  - Multiple walls
  - Fire doors and glass
  - Steel racks or shelves
- Place cameras and the DVR unit at least 2 m (6.5 ft.) away from radios. Do not connect cameras and the DVR unit to a power outlet used by a radio.
- Maximum wireless communication range is 30 m in case that there are no obstacles between camera(s) and AVerDiGi EXR6004 WiFi
- The DVR system starts up will take a while, please be patient and wait.

# 2.2.1 To Connect the Wireless IP Camera

There are two to connect with the IP camera, one is through the **wireless signal** and another one is using **Ethernet cable**. Refer the following install description to connect the IP camera to the DVR unit.

# 2.2.1.1 Connecting IP Camera in Wireless mode

- 1. Please make sure the DVR unit and IP camera are in communication area.
- 2. Press and hold the **WPS** button of the DVR unit. To release button until hear the beep sound. The **Wireless indicator** that is located at front panel of the DVR unit will light up.



3. Press and hold the **WPS** button of IP camera until the **power LED** turns off (about 5 seconds), and then, the LED will start to blink at every 2 seconds. And then, wait about 120 seconds for IP camera to communicate with the DVR unit.



4. If the DVR unit and IP camera has successful to communicate. The Wireless status indicator that is located at front panel of the DVR unit will start flashing.



And, the surveillance monitor should see the live video from IP camera.



**Preview UI** 

# 2.2.1.2 Connecting IP Camera Through the Ethernet Cable

In such following condition, user can connect the IP camera by using Ethernet cable.

- IP camera doesn't support wireless function.
- IP camera and DVR unit is out of wireless communication range.
- Location or environment of the IP camera or DVR unit has too many interference for the wireless signal transmitting.
- 1. Remove the antenna of the IP camera in case the wireless signals may affect the connection if the IP camera has an antenna.



Set the IP camera to **DHCP** mode or **RESET** the IP camera back to the factory default value, in order to make connection with DVR unit correctly. To reset the IP camera, press reset button which located at the back of the IP camera for 3 seconds.

2. Plug the RJ-45 Ethernet cable into the LAN port of the IP camera.



To connect more than one IP camera through the Ethernet cable, please connect the switch (DHCP function disabled) or hub (DHCP function disabled) to the DVR unit, and then, connect the IP cameras to switch or hub.



3. And then, plug another side of the Ethernet cable into the LAN1 port of the DVR unit.



- 4. Wait for the DVR system to detect the IP camera. When DVR system receives the live video from the IP camera, it means the connection is successful.
- 5. The channel is connecting through the Ethernet cable; there is no wireless signal icon display on the preview screen.

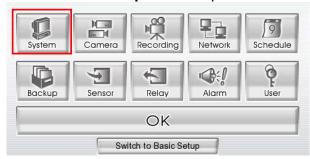


**Preview Mode UI** 

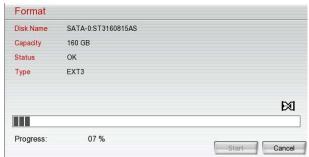
# 2.2.2 To Format the Hard Disk

The hard disk must be formatted before can be used to record the video.

- 1. Click **Setup** and enter the ID and password(Default ID is **superuser** and password is **111111**).
- 2. Click System. Click Switch to Advance Setup if the setup mode is in Basic Setup mode.



- 3. Click **Add** to call out **Disk Management** window. Select the hard disk and click **Format**.
- 4. And then, click **Start** to format the selected hard disk.

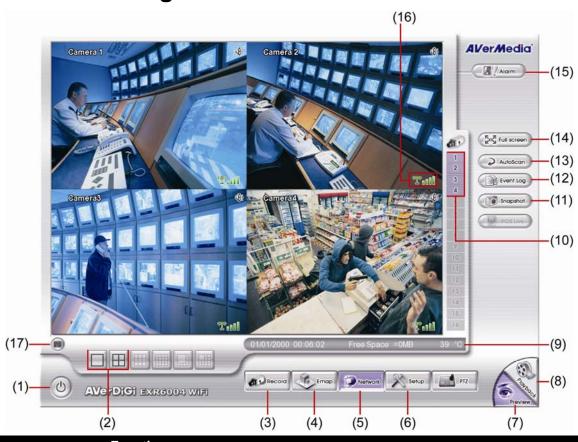


- 5. When the formatting is done, click **Cancel** to exit.
- 6. Now, user can click Record button to start recording.



**Preview UI** 

# 2.3 Familiarizing the Buttons in Preview Mode



Name	Function
(1) Exit	Call up the Logout dialog box.
	In the logout dialog box, you may do the following:
	<b>Reboot:</b> To restart the DVR system. It is required to enter the password
	Power Off: To shutdown the DVR system.
	Login: Using different ID to login to DVR system.
	Exit: To close the application
(2) Split Screen Mode	Select from 2 different split screen types to view all the cameras or one camera on a
	single screen. It also allows you to switch and view different camera number.
(3) Record	Start/stop video recording.
(4) EMap	Display the map in each area, and the location of camera/ sensor/ relay and the
	warning (see also Chapter 2.3.1).
(5) Network	Enable/disable remote system access. This feature allows you to access DVR server
	from a remote location via internet connection. The default is disabled.
(6) Setup	Configure the system settings. (see also <u>Chapter 3</u> )
(7) Preview	Switch to Preview mode. This allows you to view live camera display.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also
( )	Chapter 2.4)
(9) Status bar	Display the recoding date, time and hard disk space of DVR unit.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen
	mode, click the camera ID number to switch and view other camera.
(11) Snapshot	Capture and save the screen shot in *.jpg format.
(12) Event log	Show the record of activities that take place in the system. (see also Chapter 2.3.2)
(13) AutoScan	Start/Stop video screen cycle switch.

# View in full screen. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon. Click to exit from full screen mode. Left click to toggle to only display one of the video in the multiple-screen mode or all.

# 2.3.1 Setting Up and Using the Emap

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

If the keyboard is not available, you may use the Virtual Keyboard.

Display the strength of the WiFi signal

# 2.3.1.1 To Set Up the Emap

1. Click Emap.

(16) WiFi Signal

(17) Virtual Keyboard

- 2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.
- 3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
- 4. When the inserted map appears on the Emap screen, click **Edit**. You may now drag the camera, sensor, and relay icons to its place on the map. Icons on the map can be relocated anywhere. If you are going to locate the icon on the map to other area, you need to drag the icon to the black pane at the bottom of the Emap screen and then switch to the area on where you want to locate the icon. To bring all the icons back to the black pane at the bottom of the Emap screen, click **Reset Icon**.
- 5. When you are done, click **Save** button to save the new setting. To exit Emap screen, click **Close**.

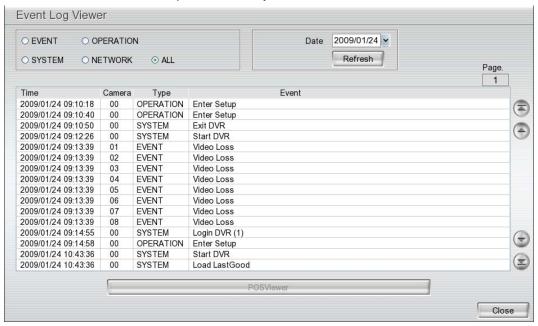


# 2.3.1.2 To Use the Emap

- 1. Click E-map.
- 2. In the Emap screen, click the camera icon to switch on the area where the camera is located on the map and to display the video at the upper right corner of the Emap screen. At the lower right corner of the Emap screen, it lists all the warning message.
- 3. To view different Emap, click Emap number button (1 ~ 8).
- 4. Click Close to exit Emap screen.

# 2.3.2 Using Event Log Viewer

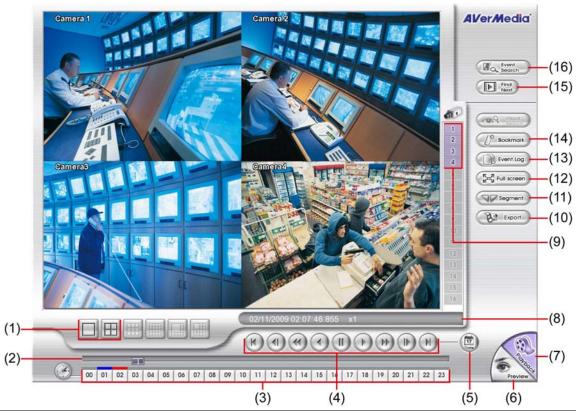
Show the record of activities that take place in the system.



- 1. Click the **Event Log** button on DVR system main interface. The Event log viewer window will show up.
- 2. Select the Date to view.
- 3. To filter the records, select and click the select button to display **Event**, **System**, **Operation**, **Network** or **All**.
- 4. Use the scroll button to go next, previous, first, or last page of event list.
- 5. To find event log by keyword, enter keyword in **Find Text** column and click **Search**.
- 6. The events list which display on the screen can be saved as text file format. To save the events list, click **Save** button.

# 2.4 To Playback the Recorded Video

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



Name	Function
(1) Split Screen	Select from 2 different split screen type to playback the recorded video file of all the
Mode	camera or one camera on a single screen.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.



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

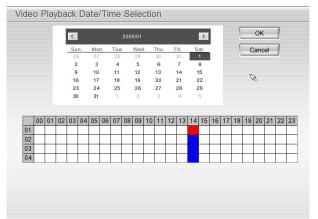
(4) Playback	Begin: Move at the beginning of the recorded video file.
Control Buttons	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2X, 1/4X, or 1/8X
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2X, 4X, or 8X
	Next: Go to the next frame.
	End: Go to the end of the recorded video file.

# Name

# **Function**

(5) Date

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





The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(6) Preview	Switch to Preview mode.
(7) Playback	Switch to Playback mode to view the recorded video file.
(8) Status bar	Display the recorded date, time and play speed.
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(10) Export	Export includes Snapshot, Output Video Clip, and Backup function.
	■ Snapshot: Capture and save the screen shot in *.jpg format.
	■ Output Video Clip: Save the segmented file in *.dvr format to external USB storage
	device (see also <u>Chapter 2.4.1</u> ).
	■ Backup: Save the playback file to USB device or DVD-ROM disk
(11) Segment	Keep a portion of the recorded video (see also Chapter 2.4.1).
(12) Full screen	View in full screen. To return, press the right button of the mouse or ESC on the keyboard

or click the arrow icon.



Click to exit from full screen mode

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

(13) Event log	Show the record of activities that take place in the system. To filter the records, select and
	click the option button to only display Event, System, Operation, Network or All.
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for
	later reference (see also Chapter 2.4.2).

Name	Function
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Event Search function.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss)(see also <a href="Chapter 2.4.3">Chapter 2.4.3</a> )

# 2.4.1 To Cut and Save the Wanted Portion of the Recorded Video

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



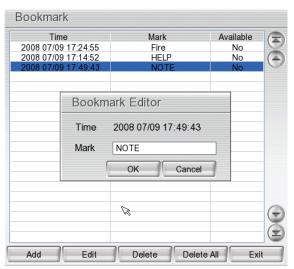
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again.



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

# 2.4.2 To Bookmark a Video Section

- 1. Click **Bookmark** button
- 2. In the Bookmark dialog box, you may do the following:
  - Add to create the new reference mark in the bookmark list.
  - Edit to change the mark description.
  - **Delete** to remove the selected reference mark in the list.
  - Delete All to remove all the reference marks in the list.
  - Exit to close Bookmark dialog box.
- 3. Select and click one in the bookmark list to review the file.

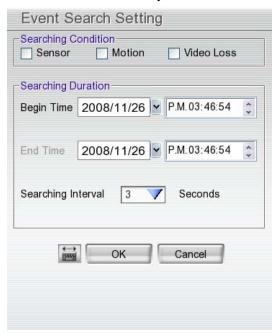


# 2.4.3 Using the Event Search

- 1. Click on the video screen on where you want to search.
- 2. Click Event Search. The Event Search Setting dialog box would appear on the screen.
- 3. In the Event Search Setting dialog box, check the type of condition you want to search. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click
- 4. You may also set to search and list all the result. Set the **Begin Time** and **End Time**. Set the **Searching Interval** time for in a period of time won't list out the same events. Then, click **OK** to start searching.
- 0

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

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



# **Chapter 3** Customizing the DVR System

In the Preview screen mode, click button to customize your DVR. Enter the ID and password to authenticate(Default ID is **superuser** and password is **111111**).

When the DVR configuration setup selection appears, select and click the buttons you want to change the setting.

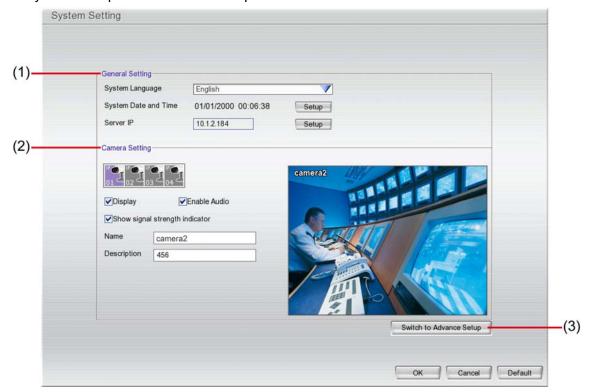


# 3.1 Basic Setup Mode

In default, the setup mode is Advance Setup mode. User can click **Switch to Basic setup** for a quick system setup.



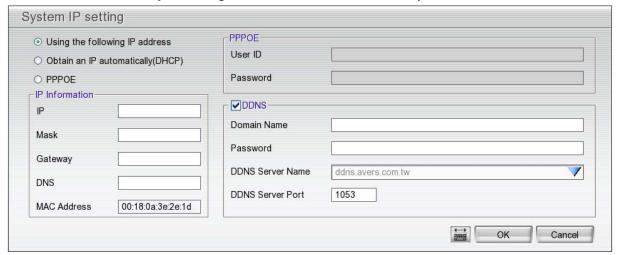
The Basic System Setup window will show up as below shown:



#### (1) General Setting

- **System Language:** Select the language of the system that will be used on the dialogs and tool tips.

- **System Date and Time:** Click **Setup** to select the current time and date.
- **Server IP:** Click **Setup** to configure the IP mode of the DVR system.



- Using the following IP address: Assigns an IP address for the DVR system. Fill in the IP related parameters in IP information section.
  - **IP:** Assign a constant IP address which a real IP address gives from ISP to DVR system.
  - Mask: It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to DVR system.
  - Gateway: A network device acts as a passageway to internet. Enter the network gateway
     IP address
  - **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
  - **MAC Address:** An identifier hardware address of DVR unit that is assigned by the manufacturer for identification. User don't need to fill in, it will generated by system automatically.
- Obtain an IP automatically (DHCP): Assign the IP address by local DHCP server to DVR system.
- PPPOE: Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Enter User ID and Password that is given by your ISP for PPPOE connecting authority.
- **DDNS**: DDNS (Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. Users can register their own domain name on <a href="http://ddns.avers.com.tw">http://ddns.avers.com.tw</a>. (See Appendix A)
  - Domain Name

Enter the domain name that user has registered.

- Password

A password use to access DDNS that user has setup when register the domain name

DDNS Server Name

Select your DDNS server. The default only has one DDNS server now. It may provide more DDNS in future.

- DDNS Server Port

Fill in the port that connects to DDNS server. Default is 1053.

#### (2) Camera Setting

Select the camera number you want to configure.

Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still

record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Show signal strength indicator

To display the Wi-Fi signal strength on surveillance screen.

- Name

Change the camera name

Description

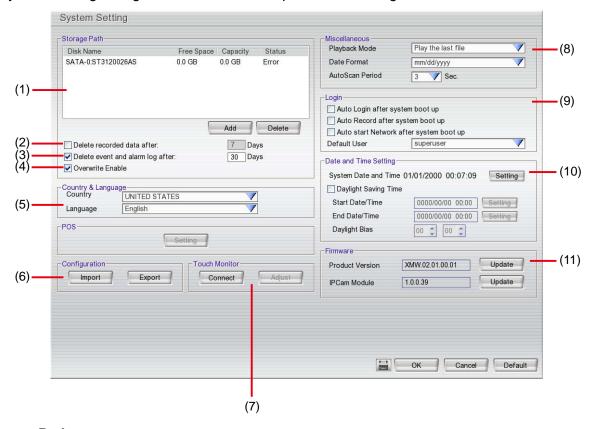
Add a short comment

#### (3) Switch to Advance Setup

Click to switch the setup mode to advance mode (see also Chapter 3.2)

# 3.2 System Setup

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



# (1) Storage Path

Set the HDD on where to save the data. In case you have more than one storage device, the system automatically saves the data to the next storage device. To insert another storage device, click **Add** and select the storage path. To remove the selected path, click **Delete**. If the hard disk is the first time for DVR system, please format the hard disk before starting to use it. To format the hard disk, select the hard disk and **Format Type**, and then, click **Format** button.

#### (2) Delete recorded data after

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

# (3) Delete event and alarm log after

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

#### (4) Overwrite Enable

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

#### (5) Country & Language

Select the location of the DVR unit and customize the system to display the tool tips and dialogs based on the selected language. Default language is in English.

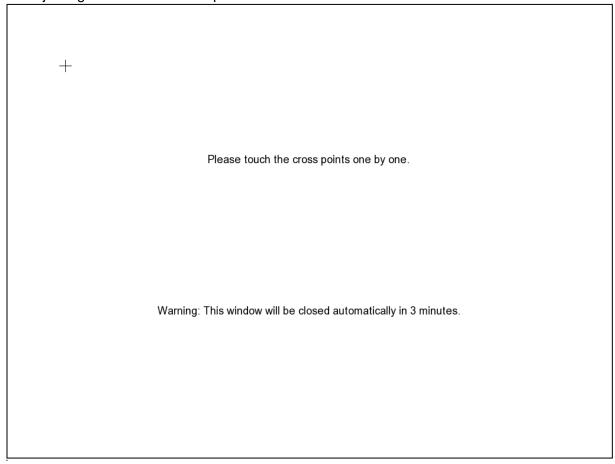
# (6) Configuration

Backup a copy of all the settings and allows you to regain the same settings back. To save the current settings, click **Export**. To replace the settings with the one you have saved, click **Import**.

#### (7) Touch Monitor

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

- 1. Connect the touch monitor with DVR server.
- 2. Turn on the DVR server and touch monitor power.
- 3. Select Setup  $\rightarrow$  System  $\rightarrow$  Touch Monitor  $\rightarrow$  Adjust.
- 4. The adjusting window will show up.



- 5. Click + one by one to complete the adjustment.
- 6. To disconnect touch monitor, click **Disconnect** button first, and then, turn off the power of touch monitor and remove the connection between DVR server and touch monitor.

# (8) Miscellaneous

- Playback mode: Select the mode of playback the video.
  - Select date and time: Select the date and time which user wants to playback.
  - Play the last file: Automatically playback the video from the last hour
  - **Instant Playback:** Automatically playback the video which has just recorded

#### Date Format

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

#### Auto Scan Period

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

# (9) Login

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

- Auto Login after system boot up

Execute the DVR when the operating system is started.

- Auto Record after system boot up

Automatically start video recording when the DVR is executed.

- Auto start Network after system boot up

Automatically start network connection when the DVR is executed.

Default user

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

# (10) Date and Time Setting

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

Mark **Daylight saving** check box to enable daylight saving function. And then, select the **Start** and **End Date/Time** by click **Setting**.

**Daylight Bias:** Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.

#### (11) Firmware

- **Product Version Update:** Upgrading the firmware of DVR system.
  - 1. Click **Update** button, a **Firmware Upgrade** window will show up.



- 2. Save the firmware on root directory of USB disk. And then, plug USB disk into DVR unit.
- 3. Select the USB disk if there is more than one USB disk from drop down list. The DVR unit will auto detects the firmware.
- 4. Click **OK** to start upgrading.
- IPCam Module Firmware Update: Update firmware of IP camera.
  - 1. Click **Update** button, a **Firmware Upgrade** window will show up.



- 2. Save the firmware on root directory of USB disk. And then, plug USB disk into DVR unit.
- 3. Select the USB disk if there is more than one USB disk from drop down list. The DVR unit will

auto detects the firmware.

4. Click **OK** to start upgrading.

# 3.3 Camera Setup

The DVR system supports 4 Wireless IP camera connections. Click **Default** will back to the factory default value.

# 3.3.1 To Setup the Wireless IP Camera



# (1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click ALL check box.

# (2) Enable

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

# (3) Input

Select the camera type as IP Camera.

#### (4) Camera

# - Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

#### - Enable Audio

Enable/disable audio of the camera.

#### - Name

Change the camera name

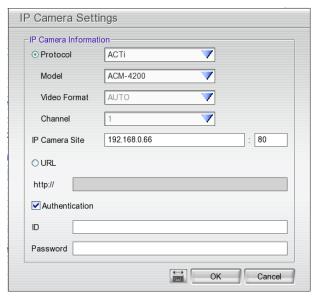
#### - Description

Add a short comment

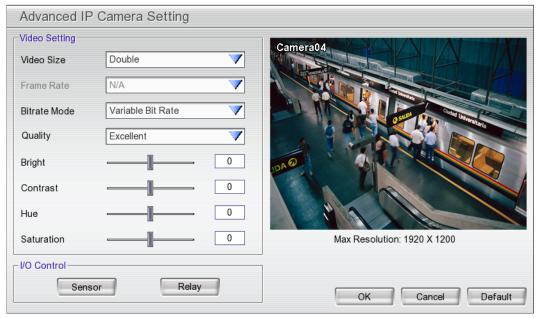
#### (5) IP Camera Information

To setup IP camera and display current IP camera information.

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



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



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

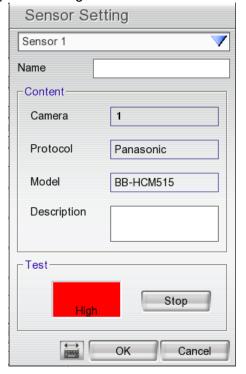


The selection and adjustment items may vary by the camera supported.

I/O Control: Setup the sensor and relay that is embedded on the IP camera.

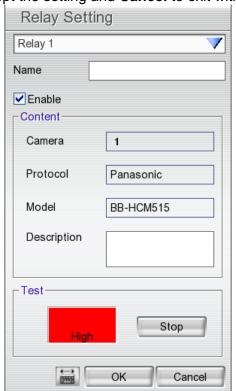
- Sensor Setting
  - 1. Click **Sensor** button.
  - 2. Click the drop-down list and select the sensor ID number.
  - 3. Enter sensor name in Name column
  - 4. The system automatically detects the camera and input relates information. In the Content section, enter sensor **Description**.

- 5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
- 6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



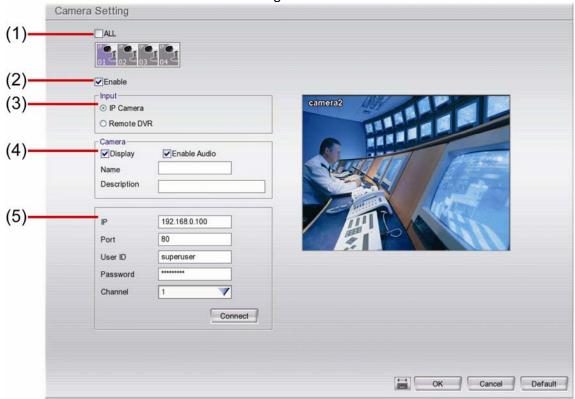
### ■ Relay Setting

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



# 3.3.2 To Setup Camera from the Remote DVR

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



#### (1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click ALL check box.

#### (2) Enable

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

#### (3) Input

Select the camera type as Remote DVR.

#### (4) Camera

#### Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

#### - Enable Audio

Enable/disable audio of the camera.

#### - Name

Change the camera name

#### - Description

Add a short comment

#### - IP

Enter the IP address of the camera

## - Port

The port for connection

#### - User ID

Enter the user id that for connecting authority

### - Password

Enter the password that is for connecting authority

#### - Channel

Select the channel of connected camera

#### - Connect

Click to connect the camera when all configurations are set.

# 3.4 Recording Setup



#### (1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

### (2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the ⊙ button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen. The recording modes are listed below:

#### - Always Recording

Record the video from the selected camera and save it to the designated storage device

#### - Motion Recording

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

#### - Smart Recording

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

#### No Recording

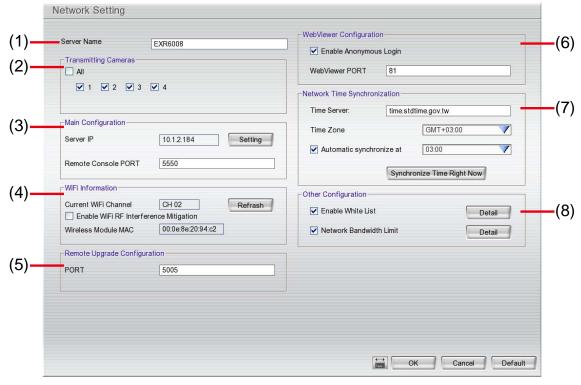
The system won't do any recording.

#### (3) Motion Detection

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

# 3.5 Network Setup

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



#### (1) Server Name

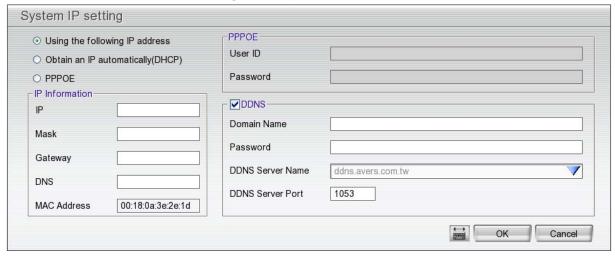
Assign a name for the DVR unit. Alphabet letters and numbers only.

### (2) Transmitting Cameras

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

#### (3) Main Configuration

Set the DVR IP address and **Remote Console Port**. You need this when accessing DVR server from the remote location via internet. Click **Setting** to setup DVR IP.



- Using the following IP address: Assigns an IP address for the DVR system. Fill in the IP related parameters in IP information section.
  - IP: Assign a constant IP address which a real IP address gives from ISP to DVR system.
  - **Mask:** It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to DVR system.
  - Gateway: A network device acts as a passageway to internet. Enter the network gateway IP

address

- **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
- **MAC Address:** An identifier hardware address of DVR unit that is assigned by the manufacturer for identification. User don't need to fill in, it will generated by system automatically.
- Obtain an IP automatically (DHCP): Assign the IP address by local DHCP server to DVR system.
- PPPOE: Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Enter User ID and Password that is given by your ISP for PPPOE connecting authority.
- DDNS: DDNS(Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. Users can register their own domain name on <a href="http://ddns.avers.com.tw">http://ddns.avers.com.tw</a>. (See <a href="http://ddns.avers.com.tw">Appendix A</a>)
  - Domain Name

Enter the domain name that user has registered.

Password

A password use to access DDNS that user has setup when register the domain name

- DDNS Server Name

Select your DDNS server. The default only has one DDNS server now. It may provide more DDNS in future.

- DDNS Server Port

Fill in the port that connects to DDNS server. Default is 1053.

#### (4) WiFi Information

- **Current WiFi Channel:** Display the channel that is a WiFi IP camera connection.
- **Enable WiFi RF Interference Mitigation:** Mark to reduce the interference of the WiFi signal between DVR unit and Wireless IP camera.
- **Wireless Module MAC:** Display the MAC address of the wireless card that is bundled inside the DVR unit.

#### (5) Remote Upgrade Configuration

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

#### (6) WebViewer Configuration

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

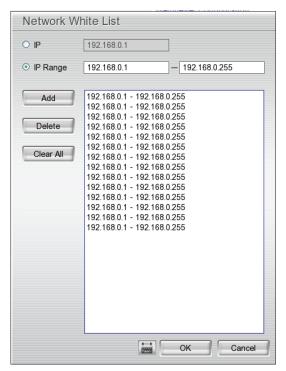
#### (7) Network Time Synchronization

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

### (8) Other Configuration

- Enable White List

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



#### - Network Bandwidth Limit

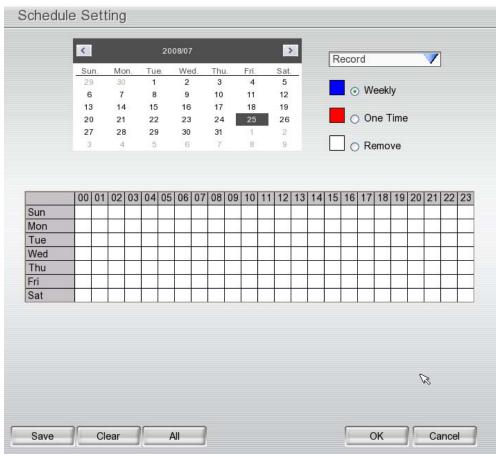
By Channel: Set the network bandwidth by each channel.

All: Set the total network bandwidth consumption limit.



# 3.6 Schedule Setting

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



#### To Set the Schedule Setting:

- 1. Select the date in the calendar. Use <a>Image</a> and <a>Image</a> buttons to shift the calendar to the left or right.
- 2. Select the condition you want to schedule in the drop down list.
  - Record

Activate all the cameras to start video recording at the set time based on the Recording setting

- Enable Network

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

- Reboot

Restart the PC at the appointed time.

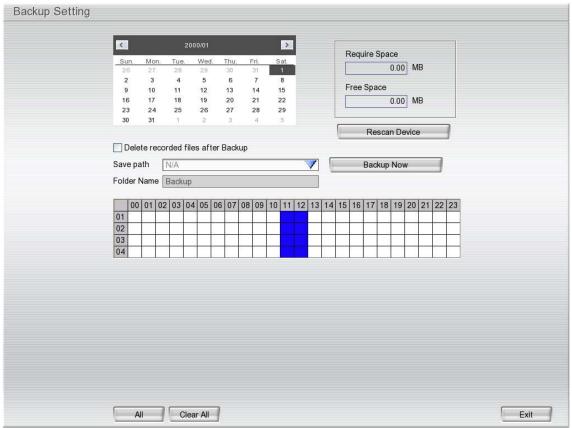
- Disable Alarm

Deactivate the alarm at the set time temporarily.

- 3. Set the schedule as weekly or one time. Click ⊙ to make a selection.
- 4. Click on the blocks to set the schedule or click **All** to select all. To un-select the specific schedule blocks, click the **Remove** and click blocks to un-select. To store the setting, click **Save**. To remove the settings, click **Clear**.
- 5. To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

# 3.7 Backup Setup

In the Backup Setting dialog box, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera number. When you back up the file, you may find Qplayer application included in the backup folder. User need to execute the Qplayer installation on PC for playback. (see also <a href="Chapter 3.7.1">Chapter 3.7.1</a>)



- 1. Select the date of the recorded file in the calendar you want to backup. Use 

  and 

  buttons to shift the calendar to the left or right.
- 2. In the table below, click on the blue block to select the recorded file or click camera (01~04) or time (00~23) to select the whole row or column. The blue block turns red when it is selected. The block that appears in white doesn't have data. If you want to set the specific time, right-click on the selected block. Then, set the time to start and end.
- 3. Check the space need for backup beside the calendar. Click **Rescan Device** to calculate the space for backup.
  - Require Space: Show the total size of the backup file.
  - Free Space: Show the available storage space
- 4. If you do **NOT** want to keep the recorded file in the storage folder, enable **Delete files after Backup** check box.
- 5. Select the backup device USB disk or DVD-ROM device.
- 6. DVR system will give Folder Name automatically.
- 7. Click Backup Now to start archiving the selected file.

# 3.7.1 Using QPlayer to Playback Backup Video

You can playback the backup files using QPlayer applications on the PC. When you back up the recorded file, QPlayer applications are automatically included in the backup folder. With QPlayer, it is the same as in Playback mode and supports different split screen types to view all the video at the same time. The only difference is that there are no Preview and Playback buttons.

To run the application, go to backup folder and double-click **install\_player** to intall QPlayer. After installation, double-click **QPlayer** icon on the PC desktop.



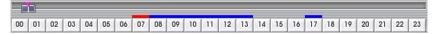
(2	2) (3)	(4)	(5)	(6)	
Name	Function				
(1) Exit	To close the application	on			
(2) Split Screen Mode	Select from 6 difference camera, or one camera			back the recorded video de on a single screen.	file of all the
				6, and 13 split screen mo are on the area you want	
(3) Progress bar	(3) Progress bar Show the progress of the file being played. You may move the bar to seek at any location of the track.				
(4) Hour Buttons	Select and click to pla	yback the reco	orded video fi	le on the specific time frar	ne.
The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.					

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

Name	Function				
(6) Archive	Select the date on the calendar and the time from 00 to 23 to recorded video file.	where to start playing the			
	<ul> <li>OPEN FILE: user can open the recorded file from HDD</li> <li>Day Light Saving: the playback calendar will show the available video records during</li> </ul>				
-	day light saving time period.				
	s from 00 to 23 represent the time in 24-hour clock. The number				
	The blue colored column indicates that there is a recorded video d colored column indicates on where to start playing the recorde				
(7) Status bar	Display the recorded date, time and play speed.				
(8) Camera ID	Show the number of cameras that are being viewed. When you click the camera ID number to switch and view other camera				
(9) Language	Customize the system to display the tool tips and dialogs bas By default the language is in English.	ed on the selected language.			
(10) Export	Export includes Snapshot, Print, and Output Video Clip function				
	<ul> <li>Snapshot: Capture and save the screen shot either in *.jp</li> <li>Print: Print the screen shot.</li> </ul>				
(11) Commant	Output Video Clip: Save the segmented file in *.dvr forma				
(11) Segment (12) Full screen	Keep a portion of the recorded video (see also <u>Chapter 3.7.2</u> View in full screen mode. To return, press the right button of t	,			
(12) Full Screen	keyboard or click the arrow icon.	ine mouse of <b>ESC</b> on the			
	When you switch to full screen in multiple-screen mode, Left one of the video in the multiple-screen mode or all.	mode]			
(13) Find Next	Search for the next event or changes in the motion detector f you are using Intelligent Search or Event Search function.	rame. You can use this when			
(14) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss). (See also Chapter 3.7.3)				
(15) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 3.7.4).				
(16) Audio	Enable/disable volume				
(17) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.				
(18) Watermark	To verify the playback video has not been modified To verify the playback video doesn't been modified. Click to check the video. Watermark verification window will show up as following:	Check Watermark  Accurate Ratio  100 %			
	onon up ao foliowing.	This light indicates watermark verification pass or fail			
		PASS: green light FAIL : red light			
		Watermark verification function is not supported with hardware compression product,EB,IP camera right now.			
		Pause Exit			

## 3.7.2 To Cut and Save the Portion of the Recorded Video

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



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



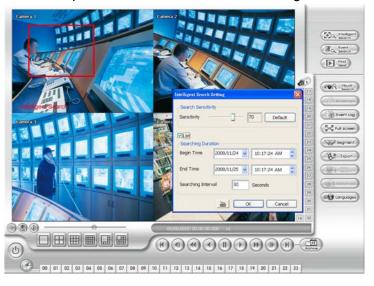
- 3. Click **Export > Output Video Clip** button to save the wanted portion.
- 4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

# 3.7.3 To Search Using the Event Search

- 1. Click on the video screen on where you want to search.
- 2. Click **Event Search**. The Event Search text (red) would appear at the lower left corner of the screen.
- 3. In the Event Search Setting dialog box, check the type of condition you want to search. The video search would stop at the frame that matches the condition. To keep on searching click
- 4. You may also set to search and list all the result. In the **Search Duration** section, set the **Begin Time** and **End Time**. Set the **Searching Interval** time that system won't list out the same events in a period of time that user has setup. Then, click **OK** to start searching.
- 5. When the Event list appear, click and select the item you want to view.

# 3.7.4 To Search Using the Intelligent Search

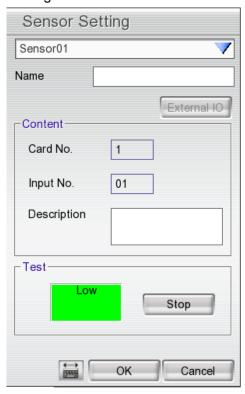
- 1. Click on the video screen on where you want to search.
- 2. Click **Intelligent Search**. The Intelligent Search text (red) would appear at the lower left corner of the screen.
- 3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click (You may also set to search and list all the result. Just check the **List** box. In the **Search Duration** section, set the **Begin Time** and **End Time**. Set the **Searching Interval** time that system won't list out the same events in a period of time that user has setup. Then, click **OK** to start searching.



# 3.8 Sensor Setting

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

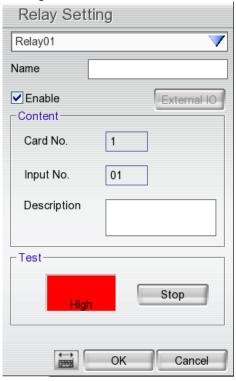
- 1. Click the drop-down list and select the sensor ID number.
- 2. Enter sensor name in Name column.
- 3. The system automatically detects the card and input number. In the **Content** section, enter **Description** of sensor.
- 4. In the test section, click **Test** to check the sensor status. **Red**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



# 3.9 Relay Setting

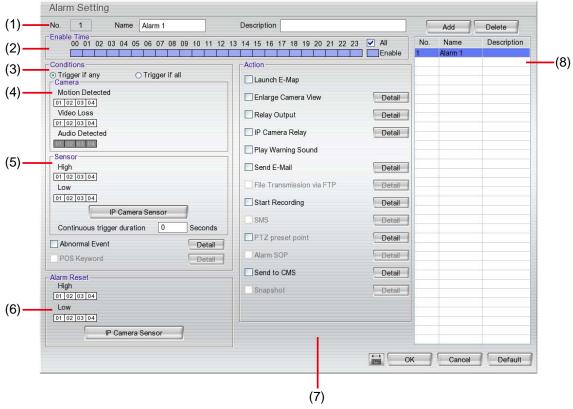
The I/O device must be installed to use this function.

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

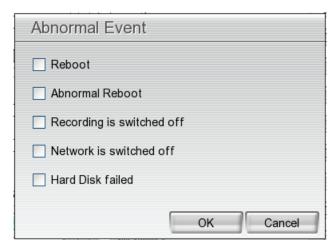


# 3.10 Alarm Setting

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



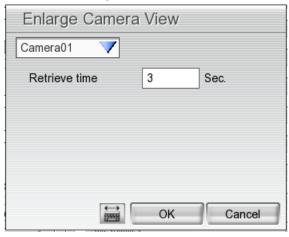
- 1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8) Alarm Setting List** if you want to modify the alarm setting.
- 2. In **(1) No./Name/Description** enter alarm name and description. Alarm **No.** will be created by DVR system.
- 3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
- 4. In (3) Conditions, you can set "Trigger if any" to activate if it falls to one of the conditions or "Trigger if all" to activate if it falls to all conditions.
- 5. In **(4) Camera** section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
- 6. In **(5) Sensor**, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
  - IP Camera Sensor: To adjust sensor high/low that is connected on the IP camera.
  - Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.



- **Reboot:** when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- **Abnormal Reboot:** when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- **Network is switched off:** when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6) Alarm Reset**, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.
  - Launch E-Map: Display mini E-map screen.
  - Enlarge Camera View

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

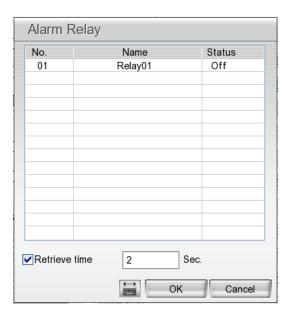
- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
- b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until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



#### - Relay Output

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

- 1. Beside the Relay Output check box, click **Detail**.
- In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
- 3. In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
- 4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.



#### - IP Camera Relay

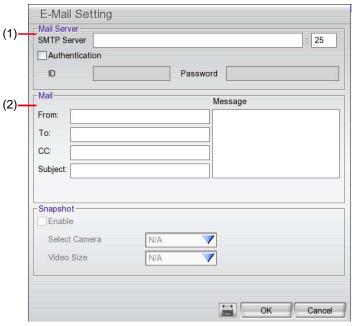
Set to enable/disable the relay operation when the alarm is activated.

### - Play Warning Sound

Play alarm sound.

#### - Send E-mail

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



#### (1) Mail Server

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

### (2) Mail

Fill the mailing information.

From: Enter the sender e-mail address.

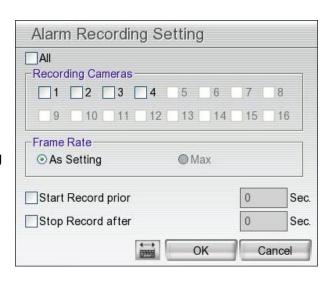
To and CC: Enter the recipient email address and separate it with comma or a semicolon (;).

**Subject:** Enter the message title. **Message:** Type the message.

#### - Start Recording

Record the video from the selected camera.

- Beside the Start Recording check box, click Detail.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable All to select all cameras.
- In the Frame Rate selection, select As Setting to record the number of frames based on the Recording Setting.
- 4. In the Start Record prior text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.



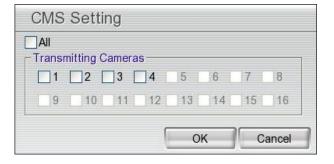
- 5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 6. Click **OK** to accept the new settings and **Cancel** to exit without saving.

## Send to CMS (Central Management System)

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

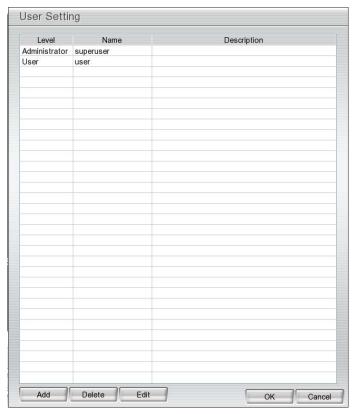
Beside the Send to CMS check box, click **Detail**.

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



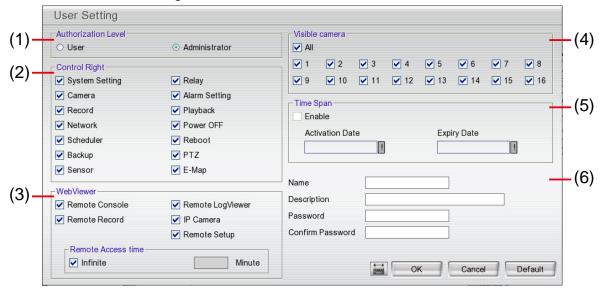
# 3.11 User Setup

Only administrator level authority can access User Setting. The maximum user accounts are 32. In the User Setting dialog box, click **Add** to insert a new user, **Delete** to remove the selected user, **Edit** to modify the user control right, **OK** to exit and accept the setting, and **Cancel** to exit without saving the setting.



#### To Add a User Account:

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



#### (1) Authorization level

Select the status of the user.

#### (2) Control Right

Enable the items that would allow the user to access.

#### (3) Web Viewer

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

using internet explorer.

#### - Remote Console

Allow the user to remote modify DVR system setting.

#### - Remote LogViewer

Allow the user to view the event log from remote site.

#### - IP Camera

Enable/disable user to add new IP camera when using the Web Viewer.

#### - Remote Access Time

Enable **Infinite** check box to access DVR without time limit. If you want to set time limit, enter the number of minutes in **Minute** text box.

### (4) Visible Camera

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

### (5) Time Span

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

### (6) Name

Enter the user name.

#### Description

Enter the user description.

#### **Password**

Enter the user password.

#### **Confirm Password**

Enter the same user password for confirmation.

# Chapter 4 Using the USB Playback Console

# 4.1 Recommended system requirements

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

# 4.2 Installing the USB Playback Console

To install the USB Playback Console:

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



2. Select the language you prefer

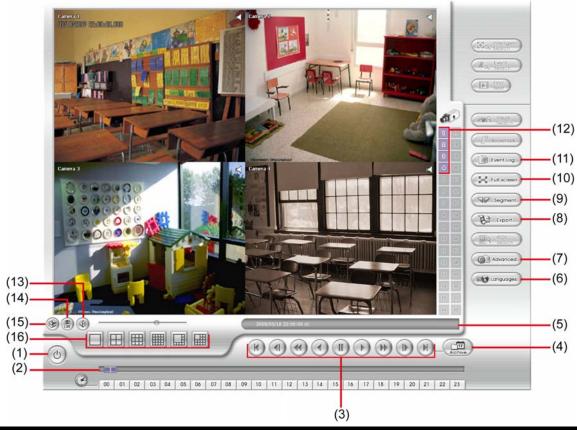


- 3. Click **OK** to install the application
- 4. Click **Exit** to close the installation main screen.
- 5. You may now connect the DVR unit to PC by using USB cable.

#### **Running the USB Playback Console** 4.3

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





1-7					
Nar	me	Function			
(1)	Exit	To close the application.			
(2)	Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.			
(3)	Playback Controller	Begin: Move at the beginning of the recorded video file.			
		Previous: Go back to the previous frame by frame.			
		Slower: Play the recorded video file at the speed of 2x, 4x, or 8x.			
		Rewind: Wind back the recorded video file.			
		Pause: Briefly stop playing the recorded video file.			
		Play: Play the recorded video file.			
		Faster: Play the recorded video file at the speed of 2x, 4x, 8x, or 16x			
		Next: Go to the next frame by frame.			
		End: Go to the end of the recorded video file.			

#### Name **Function** To select the video file source for playing. (4) Open File Select File Type File Type for Playback DVR Recorded File (HD) Backup File (.dvr) C Backup File (,avf) Cancel OK DVR Recorded File (HD): To playback the recorded video from the hard disk which was recording video on the DVR system. (see aslo Chapter 4.3.2) Backup File(.dvr): The file is backup and save in \*.dvr file format. (see also Chapter 4.3.3) Backup File (.avf): The file is backup and save to external USB storage device in \*.avf format. Select the file source folder and click **OK** to playback. Status bar Display the recorded date, time and play speed. (5)(6)Language To switch language of function tips. (7)Advanced Advanced function is including: HDD Backup: to call out HDD Backup application. (see also Chapter 4.3.4) iEnhance: to call out iEnhance application. ( see also Chapter 7) Export includes Snapshot, Print, Output Video Clip, and Export KML function. (8)**Export Snapshot:** Capture and save the screen shot either in \*.jpg or \*.bmp format. Print: Print the screen shot. Output to AVI: Save the segmented file in \*.avi format Keep a portion of the recorded video (see also Chapter 4.3.1) (9)Segment (10) Full screen Use the entire area of the screen to only display the video. To return, press the right button of the mouse or **ESC** on the keyboard. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all. (11) Event List Select the event you want to playback. The event list only available when user select to playback in DVR Recorded File(HD). Begin Time 2009/05/18 22:00:00 2009/05/18 22:00:00 2009/05/18 22:00:00 2009/05/18 23:59:59 2009/05/19 00:00:00 2009/05/19 00:59:59 2009/05/19 01:00:00 2009/05/19 01:59:59 2009/05/19 02:00:00 2009/05/19 02:59:59 2009/05/19 03:00:00 2009/05/19 03:59:50 2009/05/19 04:00:00 2009/05/19 04:59:59 2009/05/19 05:00:00 2009/05/19 05:59:59 2009/05/19 06:00:00 2009/05/19 06:59:59 2009/05/19 07:00:00 11 2009/05/19 07:15:02 2009/05/19 07:59:59 2009/05/19 08:00:00 2009/05/19 08:00:00 13 2009/05/19 08:00:00 2009/05/19 06:59:59 2009/05/19 07:00:00 2009/05/19 07:59:59 15 2009/05/19 08:00:00 2009/05/19 08:59:59 2009/05/19 09:00:00 2009/05/19 09:59:59 16 2009/05/19 10:00:00 2009/05/19 10:59:59 2009/05/19 11:59:59 2009/05/19 11:00:00 (12) Camera ID Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera. Turn on and off the sound (13) Sound /Sound bar Increase and decrease the volume (14) Watermark ImageVerification application. (see also Chapter 6) (15) Split Screen Mode Select from different screen view to playback the recorded video file of the entire camera or one camera on screen.

## 4.3.1 To Cut and Save the Portion of the Recorded Video

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



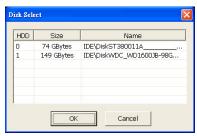
2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.



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

# 4.3.2 Playback DVR Recorded File from Hard Disk

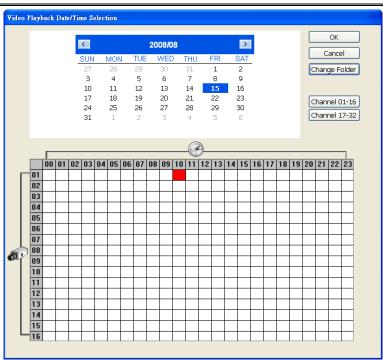
- 1. Please have the hard disk which containing of recorded video data install on your PC or using external USB enclosure to connect to your PC.
- 2. Click Open File button
- 3. Select DVR Recorded File(HD) and click OK.
- 4. Select the hard disk drive from **Select Disk** window and click **OK**.



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

# 4.3.3 Playback Backup File(\*.dvr)

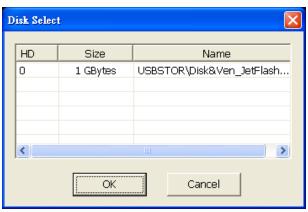
- 1. Click Open File button.
- 2. Select Backup File(\*.dvr) and click OK.
- 3. Locate the backup file folder and click **OK**.
- When open the backup video file, just locate the folder of backup file
- 4. And then, Playback Date/Time Selection window appears. Select the date and time and click **OK**.
  - When channels of the DVR is less than 16 channels, the **Channel 01~~16** and **Channel 17~32** buttons are nonfunctional.



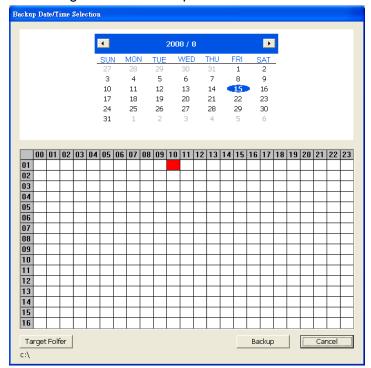
# 4.3.4 To Backup Recorded File

HDD backup function allows user to backup recorded file from hard disk.

- 1. Click Adv. Function → HDD Backup on USB Playback Console UI.
- 2. Select the source hard disk.



3. In Backup date/time selection window, select the date and time. 00-24 represents hours and 01-04 represents channels. Blue block means there has recorded file. Red block means the block has been selected. Click-and-drag can select multiple block at once.



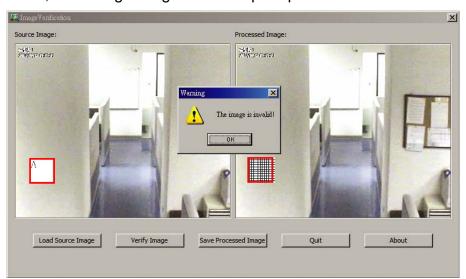
- 4. Click **Backup** to start backup file.
- 5. When backup complete, the complete information window will display.

# **Chapter 5** ImageVerification

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

# 5.1 To Run the ImageVerification

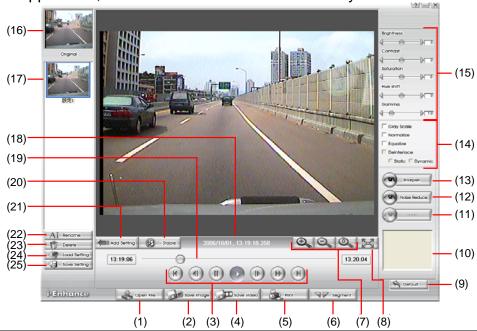
- 1. To run the ImageVerification application, click the **Watermark** button on USB Playback Application main interface.
- 2. In the ImageVerification screen, click **Load Source Image** and locate the image source.
- 3. Click **Verify Image** to begin the process.
- 4. Check the result in the **Processed Image** screen. If the picture is unmodified, the image in the **Source Image** and **Processed Image** screen would be exactly the same. If the picture is being modified, a warning dialog box would prompt and the modified area is highlighted.



# Chapter 6 iEnhance

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

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



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

Name	Function				
(12) Noise Reduce	Adjust the softness and repair the damaged colours.				
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.				
(14) Effects	Gray Scale: convert the image into black and white (monochrome).				
	Normalize: adjust the brightness intensity.				
	Equalize: automatically adjust the images that are too dark.				
	De-interlace: smooth out the overlying frames.				
	■ Static: de-interlace for motionless scene.				
	■ <b>Dynamic:</b> de-interlace for moving scene.				
(15) Picture Adjustment	Adjust the Brightness, Contrast, Saturation, Hue and Gamma.				
(16) Original Screen	Display the original state of the image.				
(17) Temporary Setting Block	Display the sample settings. Click the sample to apply the setting on the current video.				
(18) Status Bar	Display the date, and time of the video.				
(19) Progress Bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.				
(20) iStable	To reduce the jolt in the recorded video.(also see Chapter 6.1)				
(21) Add Setting	Include the new setting to the temporary setting block.				
(22) Rename	Change the name of the selected setting in the temporary setting block.				
(23) Delete	Permanently remove the selected setting in the temporary setting block.				
(24) Load Setting	Call the saved settings.				
(25) Save Setting	Store the settings in the temporary setting block.				

# 6.1 To Use iStable

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

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



# **Chapter 7 Using the Remote Programs**

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

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

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



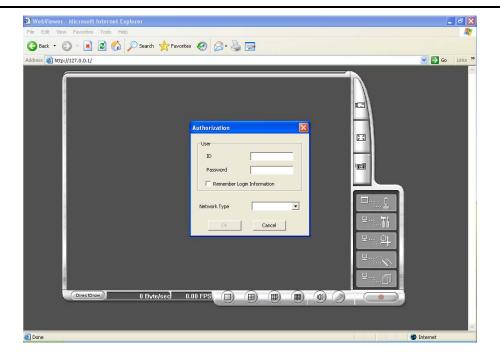
For Windows XP, click Install when the Internet Explorer - Security Warning dialog box appears.



After installing the WebCamX.cab and when connecting to the DVR system, you are required to enter accont ID (superuser / user) and password (11111/11111) and select the type of network. **Superuser** has the authority to remote setup the DVR system configuration on WebViewer. **User** only can preview the video on WebViewer and Remote Console.

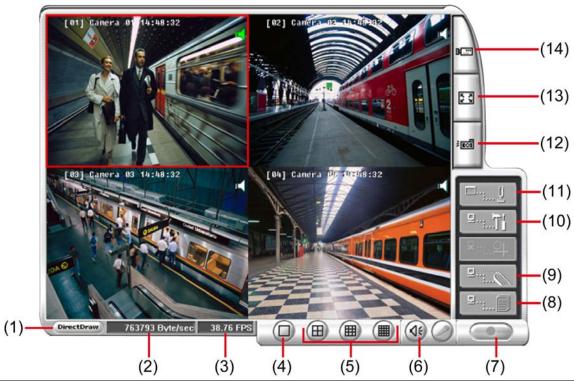


Changing account password is strongly recommended.



# 7.1 Familiarizing the Buttons in WebViewer

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



Name	Function				
(1) DirectDraw	Enhance the vi	ideo qualit	y.		



Not all graphic cards can support this function. If you cannot see the screen display correctly or screen is messed, please check with VGA card vendor.

10 11100000, p.	Sado Shook Willi V Shoara Voltaon		
(2) Received file size	ize Indicate the size of the data being sent per second.		
(3) Camera frames Indicate the number of frames per second.			
(4) One screen view To view single camera view on screen. User can right click on the screen to s different camera view.			
(5) Split screen view	To view all cameras on screen simultaneously.		
(6) Audio	Enable/disable remote sound.		
(7) Record Start to record the video of the selected camera in AVI format. Directly click select the channel that user wants to record and press <b>Record</b> button.			
(8) Remote Console Initiate Remote Console. It allows you to control DVR server (see also Cha			
(9) Event Log Viewer Display the Event logs, Operation logs, System logs, and Network logs.			
(10) Remote setup Change the DVR server settings (see also Chapter 7.1.1)			
(11) PTZ Control	Initiate PTZ camera controller.		
The EXR600	4 WiFi doesn't support PTZ function.		
(12) Snapshot	Capture and save the screen shot in *.bmp format.		
(13) Full screen	Use the entire area of the screen to only display the video.		
	To return, Right click the mouse or press ESC on the keyboard.		

### Name Function

# (14) Select cameras to view

Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera.

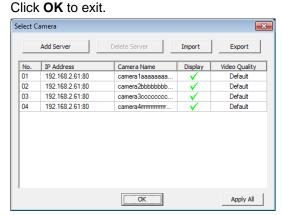
Click Add Server and select the server type between DVR and IP Cam to add.

Click **Delete Server** to delete the selected item.

Click Import to load the previous saved list.

Click **Export** to save the list.

Click **Apply All** to change all the camera video quality based on the selected setting.

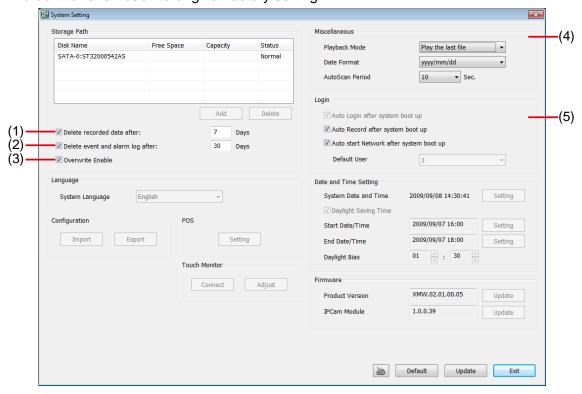


# 7.1.1 To Setup Remote System Setting

The setting here applies to Remote DVR only.

## 7.1.1.1 System Setting

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



#### (1) Delete recorded data after

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

### (2) Delete event and alarm log after

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

#### (3) Overwrite Enable

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

#### (4) Miscellaneous

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

#### - Playback Mode

Select the mode of playback the video.

**Select date and time:** Select the date and time which user wants to playback.

Play the last file: Automatically playback the video from the last hour

Instant Playback: Automatically playback the video which has just recorded

### - Date Format

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

#### - Auto Scan Period

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

## (5) Login

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

Auto Record after system boot up

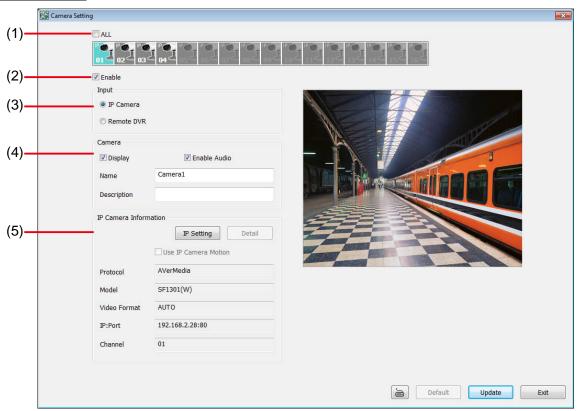
Automatically start video recording when the DVR is executed.

Auto start Network after system boot up
 Automatically connect to network when the DVR is executed.

## 7.1.1.2 Camera Setting

Select the camera from remote DVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

## **IP Camera Setting**



#### (1) Camera Icons

Select the camera number you want to adjust the video setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, Right click on the camera icon. To select one camera only, Left click on the camera icon. The camera icon turns red when it is selected.

#### (2) Enable

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

#### (3) Input

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

## (4) Camera

#### - Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

#### - Enable Audio

Enable/disable audio of the camera.

#### - Name

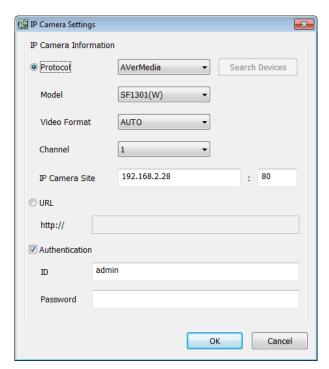
Change the camera name

### - Description

Add a short comment

### (5) IP Camera Information

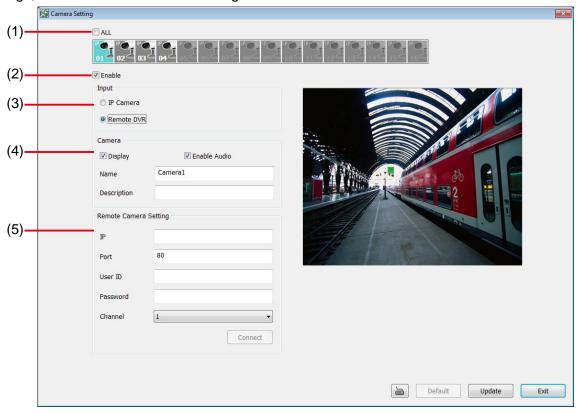
Click IP Setting to setup the parameters of the IP camera.



- 1. Select the Protocol, Model, Video Format, and Channel of the IP camera.
- 2. Enter IP address and connecting port in IP Camera Site column.
- 3. Also, user can enter URL of IP camera instead of IP address.
- 4. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
- 5. Click **OK** to connect with the IP camera.

### **Remote DVR Camera Setting**

Select the camera to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.



#### (1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click **ALL** check box.

#### (2) Enable

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

#### (3) Input

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

#### (4) Camera

### - Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

#### - Enable Audio

Enable/disable audio of the camera.

#### - Name

Change the camera name

### - Description

Add a short comment

#### - IP

Enter the IP address of the camera

#### - Port

The port for connection

#### - User ID

Enter the user id that for connecting authority

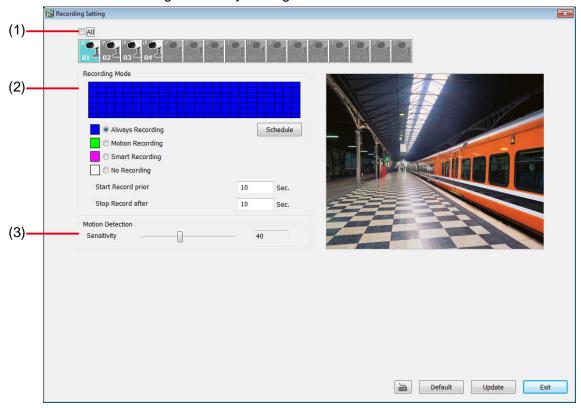
#### - Password

Enter the password that is for connecting authority

#### - Channel

# 7.1.1.3 Record Setting

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

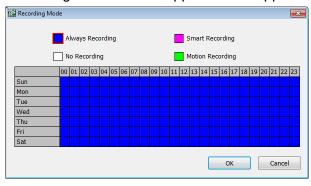


#### (1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

#### (2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the ⊙ button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

- Always Recording
  - Record the video from the selected camera and save it to the designated storage path
- Motion Recording

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the

## Start Record Prior and Stop Record After settings.

## - Smart Recording

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

## - No Recording

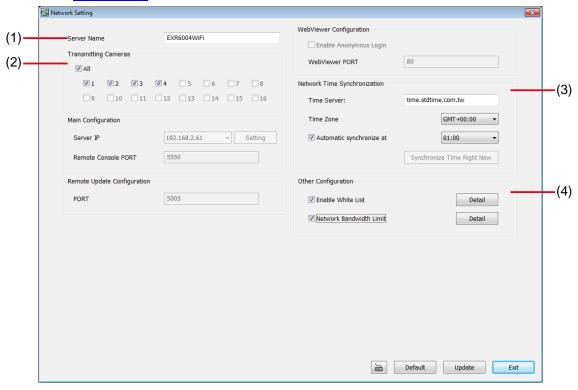
The system won't do any recording.

# (3) Motion Detection

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

# 7.1.1.4 Network Setting

In the Network Setting dialog box, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting. For the network service ports that use by DVR server, please see Appendix A.



#### (1) Server Name

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

#### (2) Transmitting Cameras

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

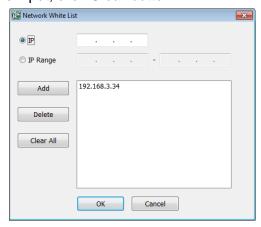
#### (3) Network Time Synchronization

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

### (4) Other Configuration

#### - Enable White List

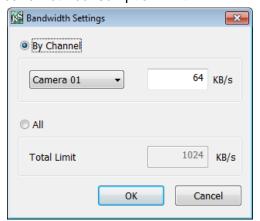
An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



## - Network Bandwidth Limit

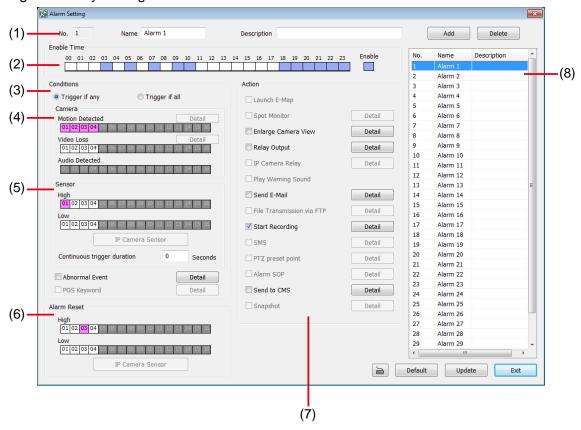
By Channel: Set the network bandwidth by each channel.

All: Set the total network bandwidth consumption limit.

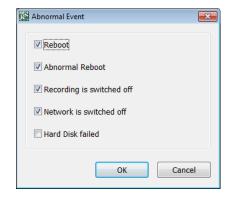


# 7.1.1.5 Alarm Setting

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



- 1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8) Alarm Setting List** if you want to modify the alarm setting.
- 2. In (1) No./Name/Description enter alarm name and description. Alarm No. will be created by DVR system.
- 3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
- 4. In (3) Conditions, you can set "Trigger if any" to activate if it falls to one of the conditions or "Trigger if all" to activate if it falls to all conditions.
- 5. In **(4) Camera** section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
- 6. In **(5) Sensor**, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
  - Enable/disable the Abnormal Event check box, to set the condition of the event for system to alarm.

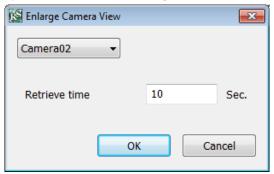


- **Reboot:** when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- **Abnormal Reboot**: when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- **Network is switched off:** when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6)** Alarm Reset, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.

## - Enlarge Camera View

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

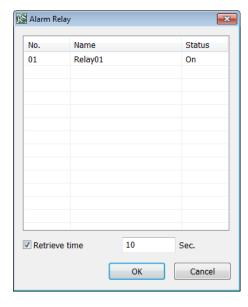
- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
- b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until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



#### - Relay Output

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

- 1. Beside the Relay Output check box, click **Detail**.
- In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
- In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
- 4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

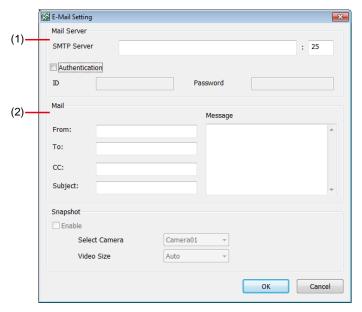


#### Send E-mail

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

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

saving the setting.



#### (1) Mail Server

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

### (2) Mail

Fill the mailing information.

From: Enter the sender e-mail address.

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

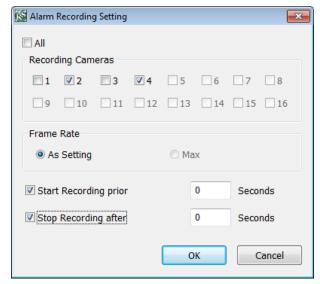
Subject: Enter the message title.

Message: Type the message.

#### Start Recording

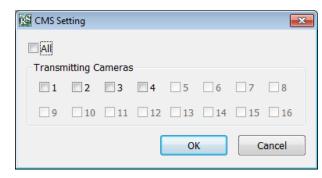
Record the video from the selected camera.

- Beside the Start Recording check box, click Detail.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable All to select all cameras.
- In the Frame Rate selection, select As Setting to record the number of frames based on the Recording Setting.
- 4. In the Start Record prior text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.

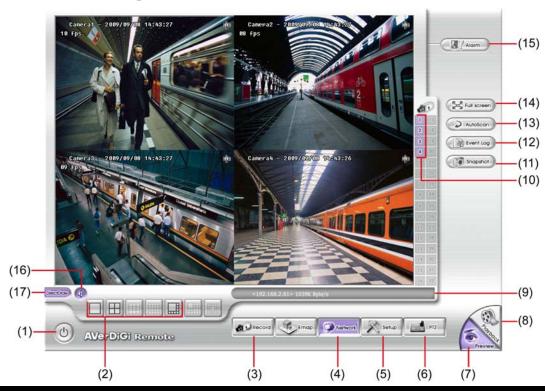


- 5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 6. Click **OK** to accept the new settings and **Cancel** to exit without saving.
- Send to CMS (Central Management System)

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



# 7.2 Familiarizing the Buttons in Remote Console

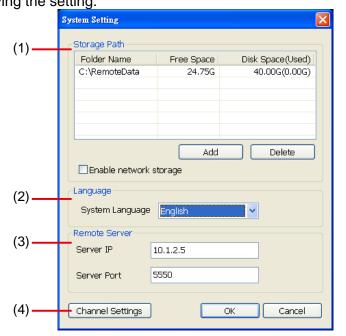


Name	Function
(1) Exit	Close the Remote Console.
(2) Split Screen Mode	Select from 3 different split screen type to playback the recorded video file of one camera, all the cameras or one camera over the other or alongside on a single screen.
(3) Record	Start/stop video recording.
(4) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.
(5) Setup	Configure the Remote Console setting. (see also Chapter 7.2.1)
(6) PTZ	Access PTZ control panel.
The EXR6004	WiFi doesn't support PTZ function.
(7) Preview	Switch to Preview/Playback mode. This allows you to view live camera display.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 7.3)
(9) Status Bar	Display the current date, time and hard disk free space.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Event Log	Display the Event logs, Operation logs, System logs, and Network logs.
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.
(13) Auto Scan	Start/stop video screen cycle switch.
(14) Full screen	Use the entire area of the screen to only display the video.
	To return, Right click the mouse or press <b>ESC</b> on the keyboard.
(15) Alarm	Alert and display warning info. Superuser and user both can reset the alarm.
(16) Audio button	Enable/disable the sound.
(17) DirectDraw	Enhance the video quality.
Direct Draw fun	ction supports for certain VGA card. For more information, please contact your VGA card

vendor.

# 7.2.1 To Setup Remote Console Setting

Click **Setup** button to call out the **System Setting** window. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.



## (1) Storage Path

Set the directory on where to save the data. When there is not enough free space to record one hour data, the system automatically replaces the oldest data. In case you have more than one storage path, the system automatically saves the data to the next storage path. By default the data is stored in C:\RemoteData, to insert another storage path, click **Add**. To remove the selected path, click **Delete**.

Enable network storage
 Select the Enable network storage check box to send the recorded video in network-attached storage.



To add network storage, the Internet storage drive/folder must be mapped as Network Driver in DVR server. To know how to assign or connect to a network drive, please refer to your Windows help file and search "Map Network drive".

# (2) Language

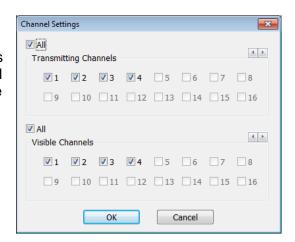
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

#### (3) Remote Server

Enter the DVR Server IP and Server Port number.

#### (4) Channel Settings

The numbers from 1 to 4 represent the camera ID. In Transmitting Channels section, enable the camera number to receive the camera signal from the server. In Visible Channels section, enable the camera number to view the camera signal on Remote Console screen. To select all the cameras, enable the **ALL** check box.



# 7.3 Using the Remote Playback

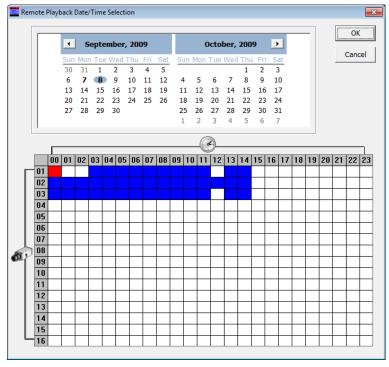
To use this feature, first you need to select the source of the file. In the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the DVR server. When you choose Remote Playback,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



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



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



#### To Make a Selection:

- 1. Select the date in the calendar. Use 1 and 1 buttons to shift the calendar to the left or right.
- 2. In the table below, click on the blue block to select and open the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.
- 3. Click **OK** to proceed and **Cancel** to void this operation.
- 4. If you select Download Playback and after making the selection, the system divides the selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to download (see also <a href="Chapter 5.4.3">Chapter 5.4.3</a>).



# 7.3.1 Familiarizing the Buttons in Local Playback



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



- If there are only 4 cameras, you won't be able to switch to 8, 16, and 13 split screen mode.
- To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge. To back to normal view, right click the channel screen again.

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

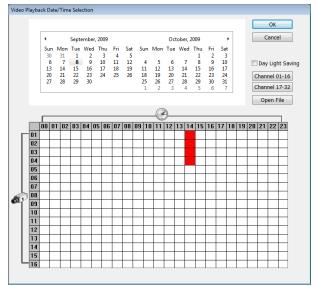


The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. If there is no recorded data within the hour, there will be no color bar on top of the hour button. While the red bar indicates that you are currently viewing the recorded video file.

Name	Function
(5) Playback Control Buttons	Begin: Move at the beginning of the recorded video file.
	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.
	Next: Go to the next frame.
	End: Go to the end of the recorded video file.
(6) Archive	Select the date on the calendar and the time from 00 to 23 to where to start playing

the recorded video file.

- OPEN FILE: Click to open the recorded file from certain location.
- Channel 01~ 16 & Channel 17 ~ 32: Click to switch to different channel group of playback calendar if the DVR supports more than 16 channels.
- Mark Day Light Saving, the playback calendar will show the available playback records during day light saving period.





The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. While the red colored column indicates on where to start playing the recorded video file. If there is no any video data, it will be no color bar on top of the date button.

(7) Preview	Switch to Preview mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the record date, time, HDD capacity in preview mode and play speed in playback mode.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	<ul> <li>Export includes Snapshot, Print, and Output Video Clip function.</li> <li>Snapshot: Capture and save the screen shot either in *.jpg format.</li> <li>Print: Print the screen shot.</li> <li>Output Video Clip: Save the segmented file in *.dvr format (see also Chapter 7.3.1.1).</li> </ul>
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 7.3.1.1).
(13) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or

Name	Function
	ESC on the keyboard.
(14) Event Log	Show the record of activities that take place in the system
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second(see also <a href="Chapter 7.3.1.2">Chapter 7.3.1.2</a> )
(16) Find Next	Search for the next event. You can use this when you are using Event Search function.
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 3.7.4).
(18) Audio	Enable/disable volume
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

# 7.3.1.1 To Cut and Save the Wanted Portion of the Recorded Video

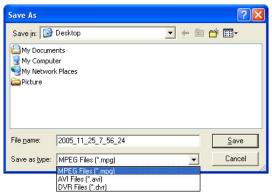
1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click Segment to set the begin mark.



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



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



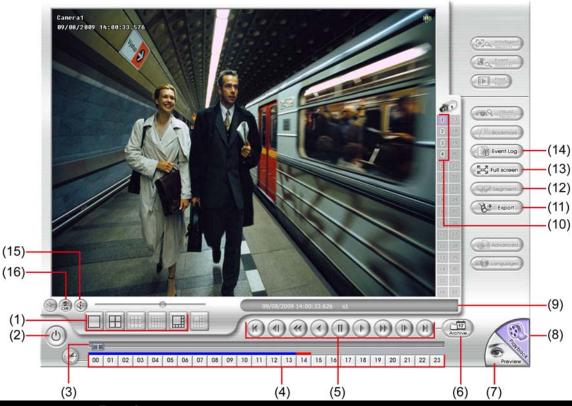
# 7.3.1.2 To Search Using the Visual Search

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



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

#### 7.3.2 Familiarizing the Buttons in RealTime Playback



#### Name **Function** (1) Split Screen Mode Select from 6 different split screen type to playback the recorded video file of the entire camera, or one camera.



- If there are only 4 cameras, you won't be able to switch to 8, 13, and 16 split screen mode.
- To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge.

(2) Exit	To close the application
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates	



that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.

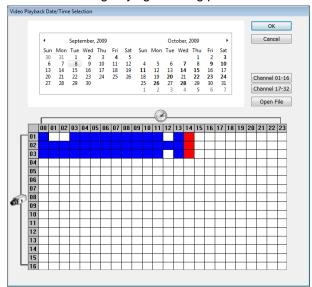
- (5) Playback Control **Buttons**
- **Begin:** Move at the beginning of the recorded video file.
- Previous: Go back to the previous frame.
- Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.
- Rewind: Wind back the recorded video file.
- **Pause:** Briefly stop playing the recorded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

#### Name Function

(6) Archive

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

- OPEN FILE: Click to open the recorded file from certain location.
- Channel 01~ 16 & Channel 17 ~ 32: Click to switch to different channel group of playback calendar if the DVR supports more than 16 channels.
- Mark Day Light Saving, the playback calendar will show the available playback records during day light saving period.





The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(7) Preview	Switch to Preview/Advanced mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the recorded date, time and play speed.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
(12) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or <b>ESC</b> on the keyboard.  When you switch to full screen in multiple-screen mode, <b>Left</b> click to toggle to only display one of the video in the multiple-screen mode or all.
(13) Event Log	Show the record of activities that take place in the system
(14) Audio	Enable/disable volume
(15) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

#### 7.3.3 Familiarizing the Buttons in Download and Playback



Name	Function
(1) Exit	To close the application.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently	



that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.	
(4) Playback Control Buttons	Begin: Move at the beginning of the recorded video file.  Previous: Go back to the previous frame.  Slower: Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.  Rewind: Wind back the recorded video file.  Pause: Briefly stop playing the recorded video file.  Play: Play the recorded video file.  Faster: Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.  Next: Go to the next frame.  End: Go to the end of the recorded video file.
(5) Status bar	Display the recorded date, time and play speed.
(6) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
(7) Export	<ul> <li>Export includes Snapshot, Print, and Output Video Clip function.</li> <li>Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.</li> <li>Print: Print the screen shot.</li> <li>Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 7.3.1.1).</li> </ul>
(8) Segment	Keep a portion of the recorded video you want (see also Chapter 7.3.1.1).
(9) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or <b>ESC</b> on the keyboard.  When you switch to full screen in multiple-screen mode, <b>Left</b> click to toggle to only display one of the video in the multiple-screen mode or all.
(10) Event Log	Show the record of activities that take place in the system

Name	Function
(11) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also Chapter 7.3.1.2)
(12) Audio	Enable/disable volume
(13) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.
(14) Watermark	To verify the playback video has not been modified
	To verify the playback video doesn't been modified. Click 🚱 to check the video.
	Watermark verification window will show up as following:
	Check Watermark
	Accurate Ratio  100 %
	This light indicates watermark verification pass or fail
	PASS: green light FAIL : red light
	Watermark verification function is not supported with hardware compression product,EB,IP camera right now.
	Pause Exit

# Chapter 8 Using HandyViewer to Access DVR Server

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

# 8.1 Using PDAViewer to Access DVR Server

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

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

**CPU: ARM architecture** 

# 8.1.1 To install PDAViewer thru ActiveSync

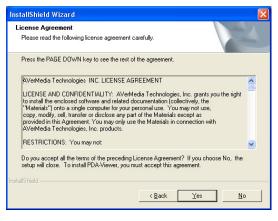
 Connect your PDA to your PC. Place the CD into the CD-ROM drive then click Install PDAViewer. And follow the on screen instructions.



2. Click Next to continue.



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



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



5. When done, click OK.



# 8.1.2 To install PDAViewer from the Internet

Make sure you are connected to the internet.

1. Open the web browser and enter the server IP. Then click the hyperlink **Download PDAViewer**.

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

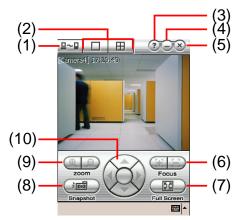


3. After the installation, the PDAViewer icon will appear in the Programs list.



# 8.1.3 To Use the PDAViewer

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

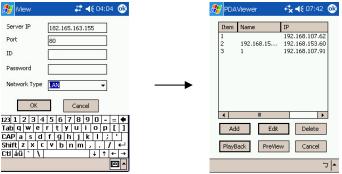


#### Name Function

(1) Connect Hook up to the DVR server. Make sure you are connected to internet. When the iView screen appears, click Add to add DVR server.



Enter the server IP, port, user ID, password and select the connection type. Then, click  $\mathbf{OK}$ .



User can playback the recorded video from remote DVR server in PDAViewer.(see also Chapter 8.1.4)

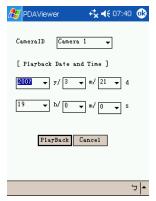
	<u> </u>
(2) Split Screen Mode	Select between 2 screen display types. It also allows you to switch and view different camera number or channels.
(3) About	Display the PDAViewer software version.
(4) Minimize	Reduce the size to taskbar.
(5) Exit	Close the PDAViewer.
(6) Focus	Adjust the focus of PTZ camera to produce clear image.
(7) Full Screen	Use the entire screen to only display the video.
(8) Snapshot	Capture and save the screen shot in *.bmp format.
(9) Zoom	Zoom in and out the PTZ camera image.
(10) Direction buttons	Adjust and position the focal point of the PTZ camera.

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



# 8.1.4 To Playback in PDAViewer

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



- 7. While playback, user can view and change status of I/O devices
- 8. On the playback screen, tap on video screen longer the pop up menu will appear
- 9. Select the Remote IO



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



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

# 8.2 Using JAVAViewer to Access DVR Server

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

# 8.2.1 To install JAVAViewer from the DVR Server

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

# 8.2.2 To Use the JAVAViewer

- 1. Run the JAVAViewer program.
- 2. Enter the DVR IP address, port number, user ID, and password. Please refer to your DVR server setting for that information.
- 3. And then, select the Connect to connect to DVR server.
- 4. Click Yes to accept the data from DVR server.
- 5. When connection is success, you will see the camera video on the screen.
- 6. To switch to different camera view, select menu and select the channel.
- 7. The JAVAViewer support PTZ control function, you can refer to **Help** file for detail function control key. Select **menu** and go the way down to select the **Help** file.







# Chapter 9 Web Tools

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

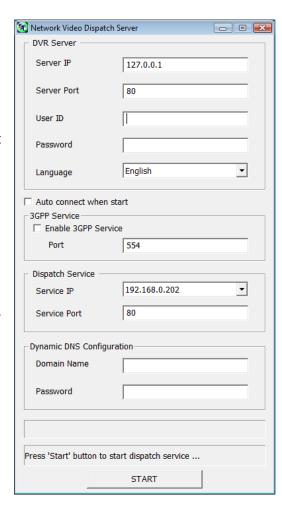


# 9.1 Dispatch Server

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

# 9.1.1 To Run Dispatch program:

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

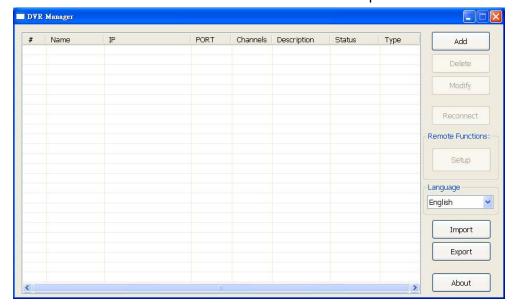


# 9.2 Remote Setup

Remote Setup is a tool for configuring DVR server from remote site. To install Remote Setup application, insert the Installation CD into CD-ROM drive and click **Web Tools**. After installation, click to start the Remote Setup application.

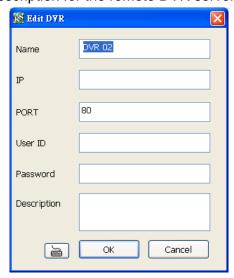
## 9.2.1 To Add DVR server

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



#### 1. Click Add

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



- 3. Click **OK** to complete adding remote DVR server.
- 4. The added DVR server will be listed and auto connects to DVR server.
- 5. Once the connecting is success, user can start to configure DVR server.

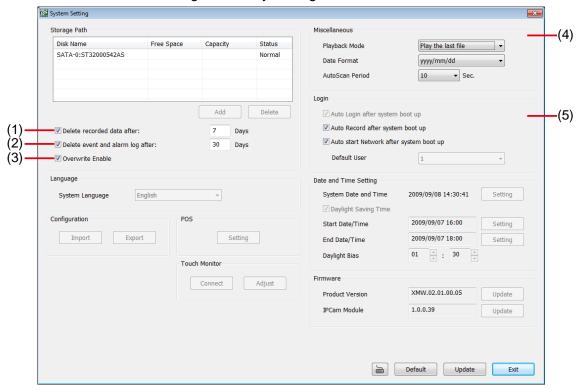
- 6. When connection is lost, click **Reconnect** to connect again.
- 7. To modify or delete the added DVR server, select the DVR server from listing and click **Modify** to change the setting and click **Delete** to remove the DVR server.
- 8. User also can import the setting by clicking **Import**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

# 9.2.2 To Setup Remote System Setting

The setting here applies to Remote DVR only.

# 9.2.2.1 System Setting

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



#### (1) Delete recorded data after

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

#### (2) Delete event and alarm log after

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

### (3) Overwrite Enable

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

#### (4) Miscellaneous

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

#### - Playback Mode

Select the mode of playback the video.

**Select date and time:** Select the date and time which user wants to playback.

Play the last file: Automatically playback the video from the last hour

Instant Playback: Automatically playback the video which has just recorded

#### - Date Format

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

#### - Auto Scan Period

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

# (5) Login

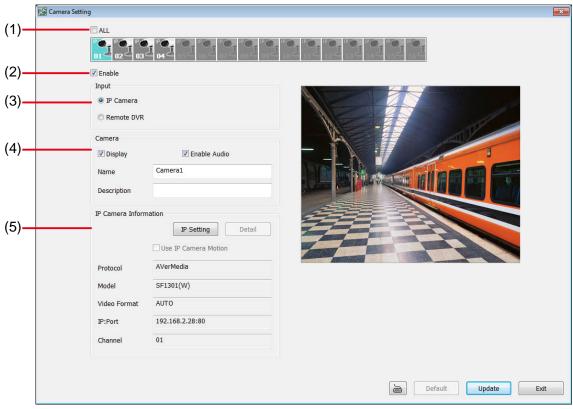
Enable the conditions in Login section you want the system to automatically carry out.

- Auto Record after system boot up
   Automatically start video recording when the DVR is executed.
- Auto start Network after system boot up
   Automatically connect to network when the DVR is executed.

# 9.2.2.2 Camera Setting

Select the camera from remote DVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

# **IP Camera Setting**



#### (1) Camera Icons

Select the camera number you want to adjust the video setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, Right click on the camera icon. To select one camera only, Left click on the camera icon. The camera icon turns red when it is selected.

#### (2) Enable

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

#### (3) Input

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

#### (4) Camera

#### - Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

#### - Enable Audio

Enable/disable audio of the camera.

- Name

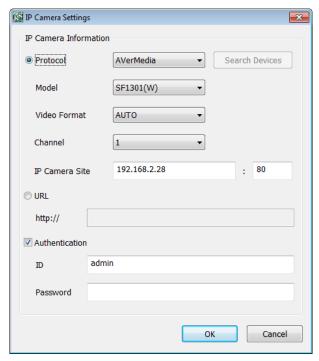
Change the camera name

- Description

Add a short comment

## (5) IP Camera Information

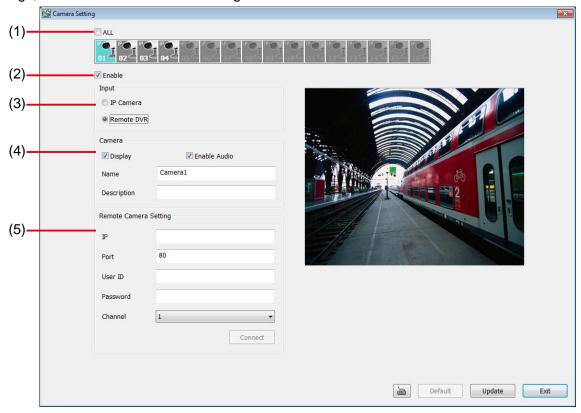
Click IP Setting to setup the parameters of the IP camera.



- 1. Select the **Protocol**, **Model**, **Video Format**, and **Channel** of the IP camera.
- 2. Enter IP address and connecting port in IP Camera Site column.
- 3. Also, user can enter URL of IP camera instead of IP address.
- 4. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
- 5. Click **OK** to connect with the IP camera.

## **Remote DVR Camera Setting**

Select the camera to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.



#### (1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click ALL check box.

#### (2) Enable

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

#### (3) Input

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

#### (4) Camera

#### - Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

#### - Enable Audio

Enable/disable audio of the camera.

#### - Name

Change the camera name

#### - Description

Add a short comment

#### - IP

Enter the IP address of the camera

## - Port

The port for connection

#### - User ID

Enter the user id that for connecting authority

#### - Password

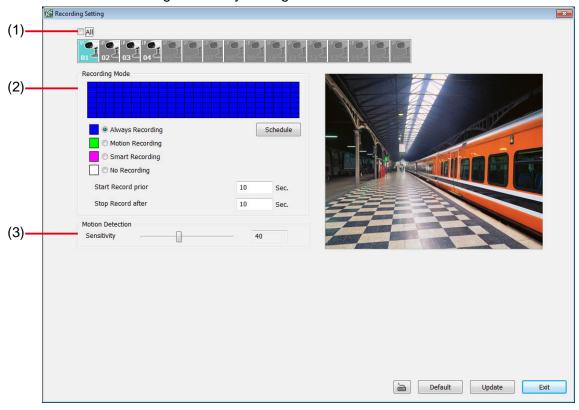
Enter the password that is for connecting authority

#### - Channel

Select the channel of connected camera

# 9.2.2.3 Record Setting

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

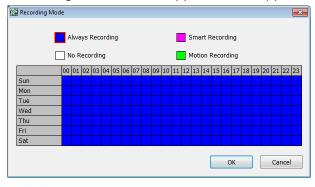


#### (1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

#### (2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the ⊙ button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

- Always Recording
  - Record the video from the selected camera and save it to the designated storage path
- Motion Recording

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

# - Smart Recording

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

# - No Recording

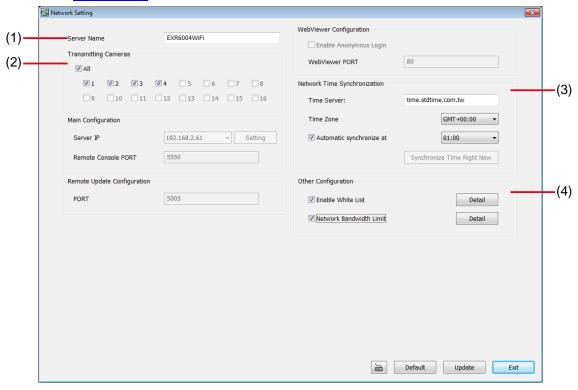
The system won't do any recording.

## (3) Motion Detection

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

# 9.2.2.4 Network Setting

In the Network Setting dialog box, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting. For the network service ports that use by DVR server, please see Appendix A.



#### (1) Server Name

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

#### (2) Transmitting Cameras

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

#### (3) Network Time Synchronization

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

### (4) Other Configuration

#### - Enable White List

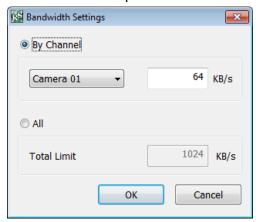
An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.



## - Network Bandwidth Limit

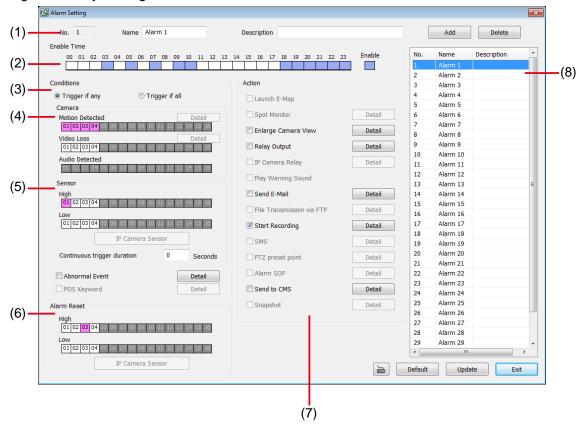
By Channel: Set the network bandwidth by each channel.

All: Set the total network bandwidth consumption limit.



# 9.2.2.5 Alarm Setting

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



- 1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8) Alarm Setting List** if you want to modify the alarm setting.
- 2. In (1) No./Name/Description enter alarm name and description. Alarm No. will be created by DVR system.
- 3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
- 4. In (3) Conditions, you can set "Trigger if any" to activate if it falls to one of the conditions or "Trigger if all" to activate if it falls to all conditions.
- 5. In **(4) Camera** section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
- 6. In **(5) Sensor**, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
  - Enable/disable the Abnormal Event check box, to set the condition of the event for system to alarm.

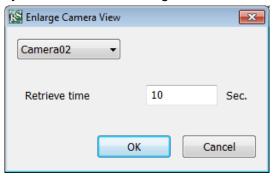


- **Reboot:** when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- **Abnormal Reboot:** when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- **Network is switched off:** when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6) Alarm Reset**, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7) Action**, you may now set the alarm action for the system to perform when the alarm condition is activated.

#### - Enlarge Camera View

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

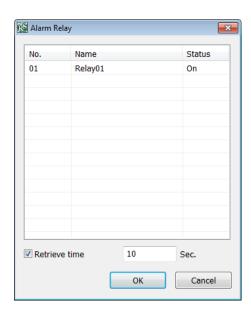
- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
- b. **Retrieve time:** set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until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



### - Relay Output

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

- 1. Beside the Relay Output check box, click **Detail**.
- 2. In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
- In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
- 4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

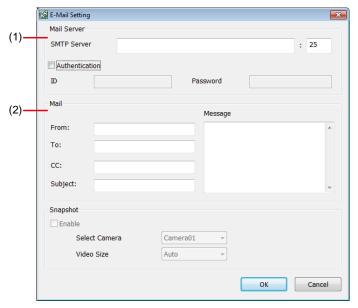


#### - Send E-mail

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

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

saving the setting.



#### (1) Mail Server

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

### (2) Mail

Fill the mailing information.

From: Enter the sender e-mail address.

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

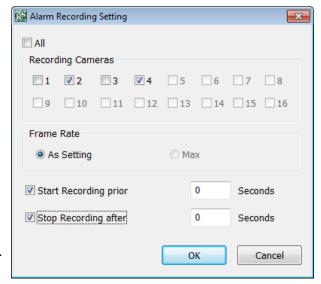
**Subject:** Enter the message title.

**Message:** Type the message.

#### Start Recording

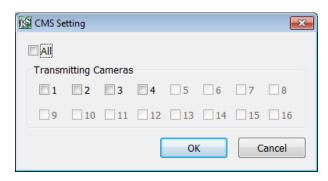
Record the video from the selected camera.

- Beside the Start Recording check box, click Detail.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable All to select all cameras.
- In the Frame Rate selection, select As Setting to record the number of frames based on the Recording Setting.
- 4. In the **Start Record prior** text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.



- 5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 6. Click **OK** to accept the new settings and **Cancel** to exit without saving.

- Send to CMS (Central Management System)
Enable/disable the selected camera to send video to CMS when the alarm is activated. Beside the Send to CMS check box, click Detail. In the CMS Setting, select the camera to enable/disable sending the video to CMS. Enable All to select all cameras. Then, click OK to accept the new settings and Cancel to exit without saving.



# 9.3 Remote Backup

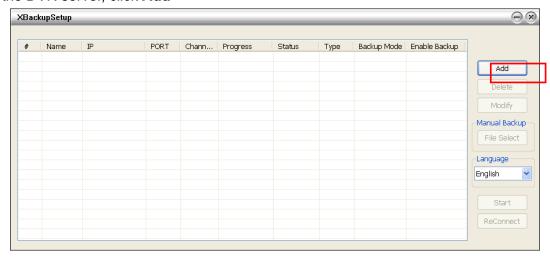
Remote Backup is purely for backing up the \*.dvr file from the DVR sever. You can select between Auto Backup and Manual Backup. Auto Backup continuously archives one hour of the recorded data at a time, starting from the specified date. As for Manual Backup, it only archives the recorded data of selected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



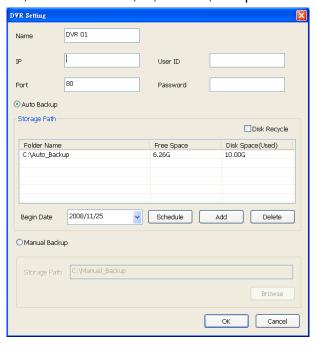
To back up the data, you must have at least 2G hard disk space.

# 9.3.1 To back up the recoded data from the DVR server:

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



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



5. Select the Backup mode:

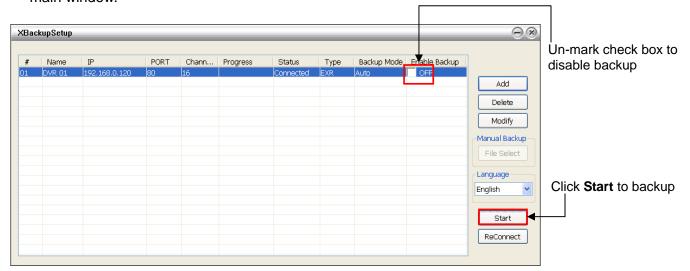
Auto Backup mode: the backup will automatically execute when the setup is completed

- In Begin Date drop down calendar, select the date from where to start
- Click Add to set the storage path.
- Click **Delete** to remove the selected storage path.
- Click **Schedule** to select/unselect the time you want to backup. The red block turns white when it is unselected.

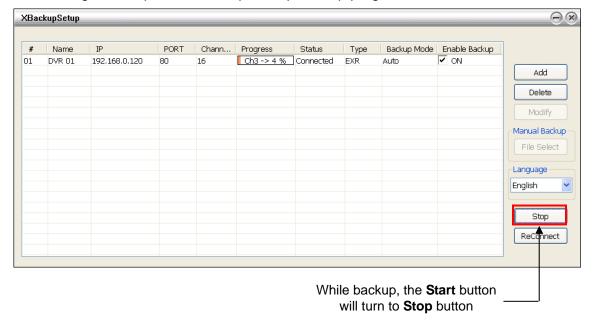
- Enable/disable **Disk Recycle** check box, to automatically overwrite the oldest file when there is not enough free space to backup the file.

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

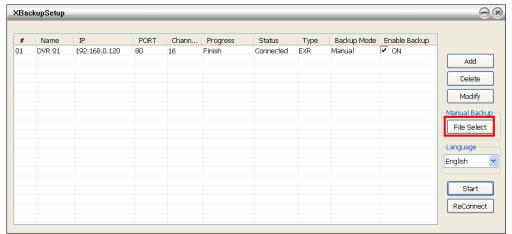
- Click File Select to choose the date, time and camera you want to back up.
- Click Browse to set the storage path.
- 6. Click **OK** to complete the adding DVR server. The added DVR server will display in Remote Backup main window.



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



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



# Appendix A Registering Domain Name

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

In order to take advantage of this intelligent service, first register your domain name on the following Web site http://ddns.avers.com.tw

### 1. User Login

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



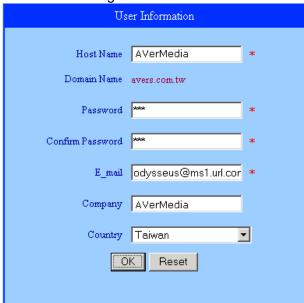
2. First input the MAC address of DVR unit as the CD-Key No. and select the product name. Then click **OK** to login or **Reset** to clear the previous input.



- To know the MAC address of DVR unit, please check the sticker on the back panel of DVR unit.
- Also, user can find the MAC address of DVR unit from the Main Configuration of Network Setting. Please select **SETUP** → **NETWORK** → **Main Configuration**.

#### 3. User Information

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



# **Warranty Notice**

#### LIMITED WARRANTY

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

#### **WARRANTY LENGTH**

Labor is warranted for (1) one year from the date of purchase

Parts are warranted for (1) one year from the date of purchase

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

#### WHO IS PROTECTED

This warranty is enforceable only by the first consumer purchaser

#### WHAT IS AND IS NOT COVERED

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

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

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

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

Any shipment damages (Claims must be made with carrier)

Any other cause which does not relate to a product defect

- 3. Cartons, cases, batteries, cabinets, tapes, or accessories used with product
- 4. AVerMedia does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose

#### WHAT WE WILL AND WILL NOT PAY FOR

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

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

#### **EXCLUSION OF DAMAGES**

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

#### LIMITATIONS OF IMPLIED WARRANTIES

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

### STATE LAW AND YOUR WARRANTY

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

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